



Un maschio per ogni impiego

*A tap for every application*

*Un taraud pour chaque application*

**COMPLETE RANGE**



# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Handgewindebohrer

Filetage métrique ISO DIN 13 – Tarauds à main

Rosca ISO métrica regular DIN13 – Machos de roscar a mano



N

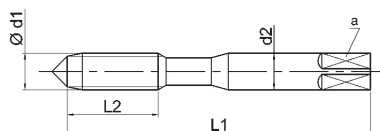
USO GENERALE

General purpose - Usage Général

### MASCHI A MANO

HAND TAPS - TARAUDS MAIN

DIN 352



LINE

LINE

LINE

LINE

A  
5-6D  
4-5C  
2-3

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

2xD

HSS

-

BR

1.1 1.2 1.3 1.4

2.1 2.2 2.3 3.1 3.4

4.1 4.2 4.3 4.4

5.1 5.2 5.3

2xD

HSS

-

BR

1.1 1.2 1.3 1.4

2.1 2.2 2.3 3.1 3.4

4.1 4.2 4.3 4.4

5.1 5.2 5.3

2xD

HSS

ISO2/6H

BR

1.1 1.2 1.3 1.4

2.1 2.2 2.3 3.1 3.4

4.1 4.2 4.3 4.4

5.1 5.2 5.3

2xD

HSS

ISO2/6H

BR

1.1 1.2 1.3 1.4

2.1 2.2 2.3 3.1 3.4

4.1 4.2 4.3 4.4

5.1 5.2 5.3

DIN 352	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	2	0,4	36	8	2,8	2,1	3	1,6
◀	2,5	0,45	40	9	2,8	2,1	3	2,05
◀	2,6	0,45	40	9	2,8	2,1	3	2,1
◀	3	0,5	40	9	3,5	2,7	3	2,5
◀	3,5	0,6	45	10	4	3	3	2,9
◀	4	0,7	45	11	4,5	3,4	3	3,3
◀	4,5	0,75	50	13	6	4,9	3	3,7
◀	5	0,8	50	13	6	4,9	3	4,2
◀	6	1	56	15	6	4,9	3	5

CODICE - CODE			
01M...	02M...	03M...	00M...
○	○	●	●
○	○	●	●
○	○	○	○
○	○	●	●
○	○	○	○
○	○	●	●
○	○	○	○
○	○	●	●
○	○	●	●

Segue diametri  
Diameters, to be continued  
Diamètres à suivre

Pag. 3

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

1

1

2

1

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande





# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Handgewindebohrer

Filetage métrique ISO DIN 13 – Tarauds à main

Rosca ISO métrica regular DIN13 – Machos de roscar a mano

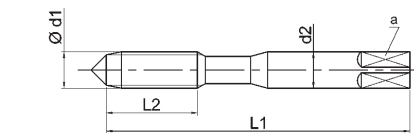


**N** **USO GENERALE**  
General purpose - Usage Général

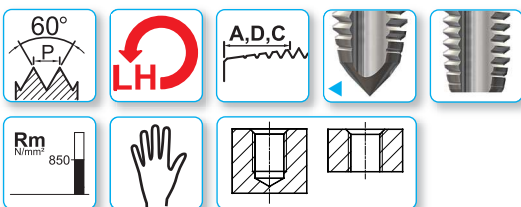
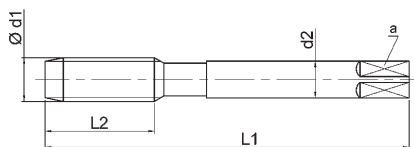
## MASCHI A MANO, FILETTATURA SINISTRA

LEFT HAND TAPS - TARAUDS MAIN GAUCHE

DIN 352



DIN 352



LINE



A 5-6

LINE



D 4-5

LINE



C 2-3

LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

2XD	2xD	2xD	2xD
HSS	HSS	HSS	HSS
-	-	ISO2/6H	ISO2/6H
BR	BR	BR	BR
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
2.1 2.2 2.3 3.1 3.4	2.1 2.2 2.3 3.1 3.4	2.1 2.2 2.3 3.1 3.4	2.1 2.2 2.3 3.1 3.4
4.1 4.2 4.3 4.4	4.1 4.2 4.3 4.4	4.1 4.2 4.3 4.4	4.1 4.2 4.3 4.4
5.1 5.2 5.3	5.1 5.2 5.3	5.1 5.2 5.3	5.1 5.2 5.3

DIN 352	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	40	9	3,5	2,7	3	2,5
◀	4	0,7	45	11	4,5	3,4	3	3,3
◀	5	0,8	50	13	6	4,9	3	4,2
◀	6	1	56	15	6	4,9	3	5
	8	1,25	63	19	6	4,9	3	6,8
	10	1,5	70	22	7	5,5	3	8,5
	12	1,75	75	28	9	7	4	10,30
	14	2	80	30	11	9	4	12
	16	2	80	30	12	9	4	14
	18	2,5	95	34	14	11	4	15,5
	20	2,5	95	34	16	12	4	17,5
	22	2,5	100	34	18	14,5	4	19,5
	24	3	110	38	18	14,5	4	21
	27	3	110	38	20	16	4	24
	30	3,5	125	45	22	18	4	26,5

CODICE - CODE			
01M...LH	02M...LH	03M...LH	00M...LH
○	○	○	○
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	○
○	○	○	○
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

● Standard

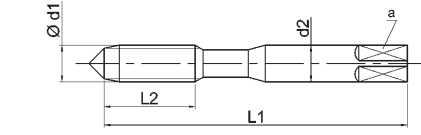
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

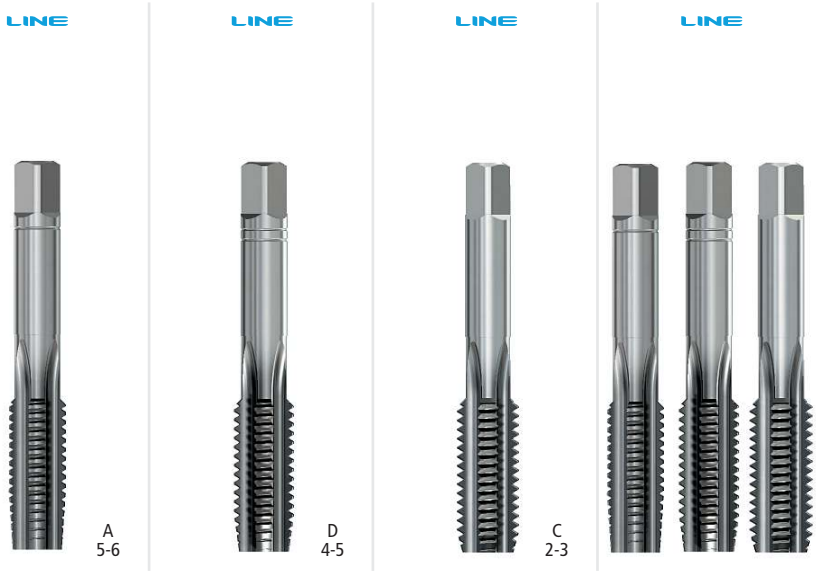
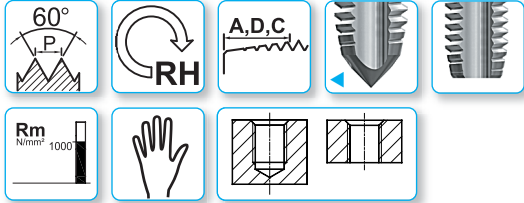
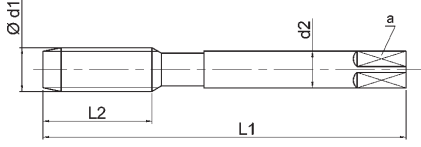
**INOX** ACCIAIO INOSSIDABILE  
Stainless steel - Acier inoxydable

**MASCHI A MANO**  
HAND TAPS - TARAUDS MAIN

DIN 352



DIN 352



Profond. di filettatura - Thread depth - Profond. de filetage	2xD	2xD	2xD	2xD
Materiale - Material - Matériau	HSS	HSS	HSS	HSS
Tolleranza - Tolerance - Tolérance	-	-	6HX	6HX
Trattamento superficiale - Surface treatment - Revêtement	VS	VS	VS	VS
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 4.4 5.1 5.2 5.3	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 4.4 5.1 5.2 5.3	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 4.4 5.1 5.2 5.3	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 4.4 5.1 5.2 5.3

DIN 352	Ød1 M	P mm	L1	L2	d2 h9	a h12	Z	
3	0,5	40	9	3,5	2,7	3	2,5	
4	0,7	45	11	4,5	3,4	3	3,3	
5	0,8	50	13	6	4,9	3	4,2	
6	1	56	15	6	4,9	3	5	
8	1,25	63	19	6	4,9	3	6,8	
10	1,5	70	22	7	5,5	3	8,5	
12	1,75	75	28	9	7	4	10,30	
14	2	80	30	11	9	4	12	
16	2	80	30	12	9	4	14	
18	2,5	95	34	14	11	4	15,5	
20	2,5	95	34	16	12	4	17,5	

CODICE - CODE			
01M...X-VS	02M...X-VS	03M...X-VS	00M...X-VS
○	○	○	○
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	●
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Le tre Line Prodotto UFS:  
dallo standard HSSE fino al metallo duro integrale

The three UFS product lines:  
from the standard HssE to the solid carbide

Les trois gammes de UFS:  
à partir du standard HSSE jusqu'au Carbure



Confezione: Singola Box: Single Colis: Unique	€ Pag. listino - Price list - Liste des prix	3	3	3	3
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande	



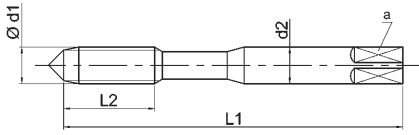


**OT** OTTONE  
Brass - Laiton

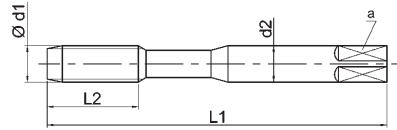
**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 371



LINE



Ms58

LINE

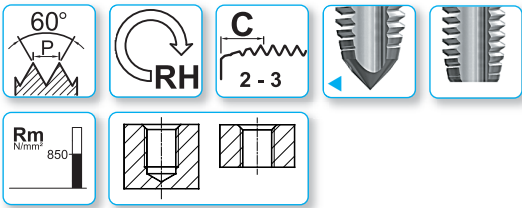


Ms58

LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	CrN	BR	TiCN
5.3	5.3	5.3	5.3
8.2 8.3	8.2 8.3	8.2 8.3	8.2 8.3

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	2	2,5
◀	4	0,7	63	13	4,5	3,4	2	3,3
◀	5	0,8	70	13	6	4,9	2	4,2
◀	6	1	80	16	6	4,9	2	5
	8	1,25	90	18	8	6,2	2	6,8
	10	1,5	100	20	10	8	2	8,5
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
	8	1,25	90	18	8	6,2	3	6,8
	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
LANCIAM...	LANCIAM...NC		
•	○	-	-
•	○	-	-
•	○	-	-
•	○	-	-
•	○	-	-
•	○	-	-
•	○	-	-
		E20M...-OT	E20M...-OT-CT
-	-	○	○
-	-	○	○
-	-	○	○
-	-	○	○
-	-	○	○
-	-	○	○









Al-Cu-Fe

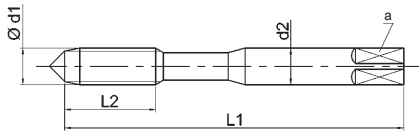
ALLUMINIO, RAME, ACCIAIO R ≤ 700 N/mm²

Al, Cu, Steel R ≤ 700 N/mm² - Al, Cu, Acier R ≤ 700 N/mm²

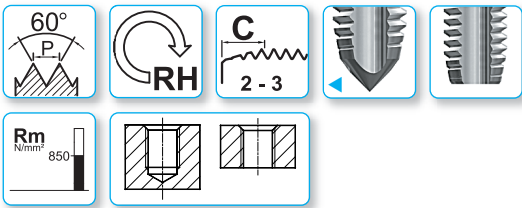
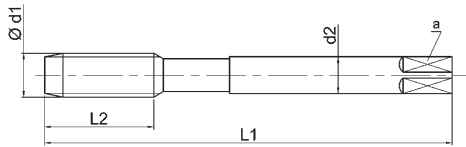
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



LINE



LINE



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

1,5xD

1,5xD

Materiale - Material - Matériau

HSSE

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

ISO2/6H

ISO2/6H

ISO2/6H

Trattamento superficiale - Surface treatment - Revêtement

BR

V

TXC

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1	1.1	1.1
4.1 4.2	4.1 4.2	4.1 4.2
5.1 5.2	5.1 5.2	5.1 5.2
8.1	8.1	8.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	10	3,5	2,7	3	2,5	
4	0,7	63	13	4,5	3,4	3	3,3	
5	0,8	70	13	6	4,9	3	4,2	
6	1	80	16	6	4,9	3	5	
7	1	80	16	7	5,5	3	6	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

E20M...AZ	CODICE - CODE	
	E20M...AZ-V	E20M...AZ-TXC
○	○	○
●	○	○
●	○	○
●	○	○
○	○	○
●	○	○
●	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	3	10,3	
14	2	110	28	11	9	3	12	
16	2	110	28	12	9	3	14	

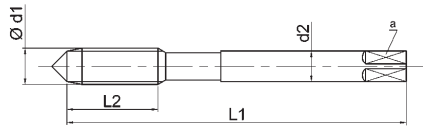
E21M...AZ	CODICE - CODE	
	E21M...AZ-V	E21M...AZ-TXC
○	○	○
○	○	○
○	○	○



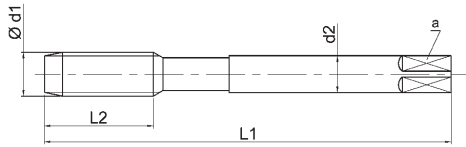


GG GHISA  
Cast Iron - Fonte

DIN 376



DIN 376



60° RH C 2-3 SP  
Rm 850



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Al Si > 10%,  
Ottone / Brass / Laiton  
Bronzo / Bronze / Bronze  
truciolo corto / short chip /  
coupeaux courts

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3,5xD
HSSE	HSSE	HSSE
6HX	6HX	6HX
<b>NQ</b>	<b>TiCN</b>	<b>TiCN</b>
3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5
4.3 4.4 4.5 4.6 5.3	4.3 4.4 4.5 4.6 5.3	4.3 4.4 4.5 4.6 5.3
8.2 10.1	8.2 10.1	8.2 10.1

DIN 376	Ød1 M	P mm	L1	L2	d2 h9	a h12	Z	Z
8	1,25	90	18	6	4,9	4	6,8	
10	1,5	100	20	7	5,5	4	8,5	
12	1,75	110	25	9	7	4	10,3	
14	2	110	28	11	9	4	12	
16	2	110	28	12	9	4	14	
18	2,5	125	33	14	11	4	15,5	
20	2,5	140	33	16	12	4	17,5	
22	2,5	140	33	18	14,5	4	19,5	
24	3	160	39	18	14,5	4	21	
27	3	160	39	20	16	4	24	
30	3,5	180	46	22	18	4	26,5	
8	1,25	90	18	6	4,9	4	6,8	
10	1,5	100	20	7	5,5	4	8,5	

CODICE - CODE		
E27M...NQ	E27M...CT	E27M...FOR-CT
○	○	-
○	○	-
○	●	○
*	●	○
○	●	○
*	○	○
*	○	○
*	○	○
*	○	○
*	○	○
*	○	○
E27M...SP-NQ	E27M...SP-CT	
○	●	
○	●	

# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina

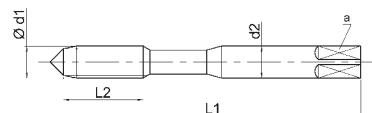


GHISA  
Cast Iron - Fonte

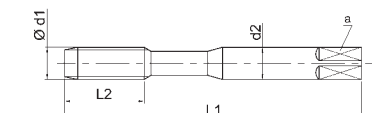
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

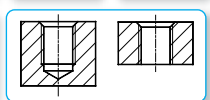
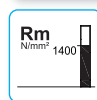
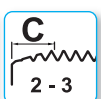
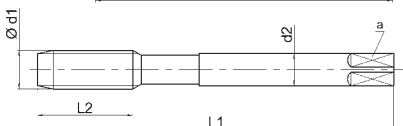
DIN 371



DIN 371



DIN 376



TOP



TOP



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Al Si > 10%,

Ottone / Brass / Laiton

Bronzo / Bronze / Bronze

truciolo corto / short chip /

coupeaux courts

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD	3,5xD	3,5xD	3xD
PM3	PM3	PM3	PM3
6HX	6HX	6HX	6HX
TiAIN	TiAIN	TiAIN	TXS
3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5
4.4 5.3 5.4	4.4 5.3 5.4	4.4 5.3 5.4	4.4 5.3 5.4
10.1	10.1	10.1	10.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h9	a h12	Z	
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	4	5
◀	8	1,25	90	18	8	6,2	4	6,8
◀	10	1,5	100	20	10	8	4	8,5
	6	1	80	16	6	4,9	4	5
	8	1,25	90	18	8	6,2	4	6,8
	10	1,5	100	20	10	8	4	8,5

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	4	10,3
	14	2	110	28	11	9	4	12
	16	2	110	28	12	9	4	14
	18	2,5	125	33	14	11	5	15,5
	20	2,5	140	33	16	12	5	17,5
	22	2,5	140	33	18	14,5	5	19,5
	24	3	160	39	18	14,5	5	21

CODICE - CODE

K26M...TX				K26M...TXS
•				•
•				•
•				•
•				•
•				•
•				•
K26M...SP-TX	K26M...FOR-TX	K26M...FORY-TX		
○	○	○		
○	○	○		
○	○	○		

CODICE - CODE

K27M...TX	K27M... FOR-TX	K27M...FORY-TX	K27M...TXS
•	○	○	•
•	○	○	•
•	○	○	•
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Esecuzione in metallo duro integrale:  
Solid carbide edition at page:  
En Carbure:

Pag. 19

Confezione / Box / Colis:  
M3 – M12: 5 pezzi / pcs / pièces  
>M12: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

8

8

8

8

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

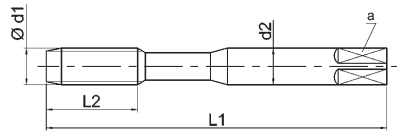
★ Solo a richiesta  
Only on request / Sur demande



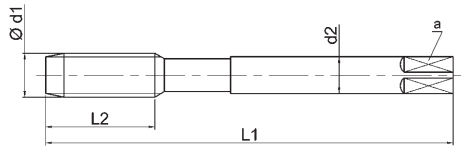
GG GHISA  
Cast Iron - Fonte

MASCHI A MACCHINA  
MACHINE TAPS - TARAUDS MACHINE

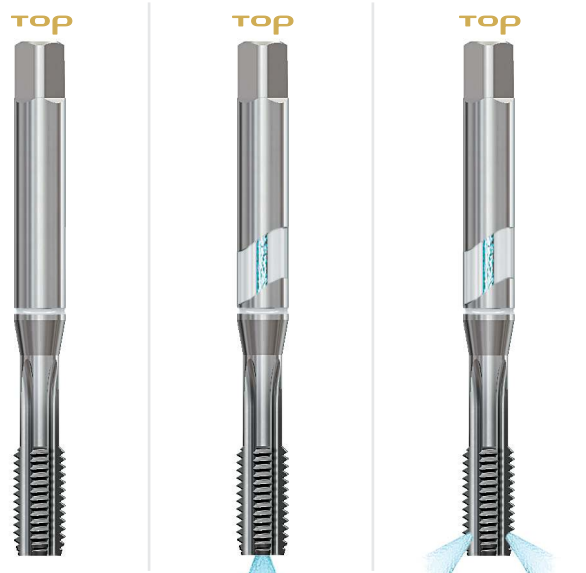
DIN 371



DIN 376



60° RH 1,5-2 SP  
Rm 1400



Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Al Si > 10%,  
Ottone / Brass  
Bronzo / Bronze / Bronze  
truciolo corto / short chip /  
coupeaux courts  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

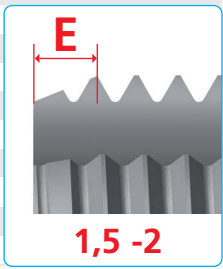
3xD	3,5xD	3,5xD
PM3	PM3	PM3
6HX	6HX	6HX
TiAlN	TiAlN	TiAlN
3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5
4.4 5.3	4.4 5.3	4.4 5.3
10.1	10.1	10.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
6	1	80	16	6	4,9	4	5	
8	1,25	90	18	8	6,2	4	6,8	
10	1,5	100	20	10	8	4	8,5	

CODICE - CODE		
K26EM...TX	K26EM...FOR-TX	K26EM...FOR-TX
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	4	10,3	
14	2	110	28	11	9	4	12	
16	2	110	28	12	9	4	14	
18	2,5	125	33	14	11	5	15,5	
20	2,5	140	33	16	12	5	17,5	
22	2,5	140	33	18	14,5	5	19,5	
24	3	160	39	18	14,5	5	21	

CODICE - CODE		
K27EM...TX	K27EM... FOR-TX	K27EM...FOR-TX
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Confezione / Box / Colis: M3 - M12: 5 pezzi / pcs pièces >M12: singoli/single pcs

€ Pag. listino - Price list - Liste des prix

8	8	9
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• Standard      ◯ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de roscar a máquina



**SYNCHRO  
RIGID**

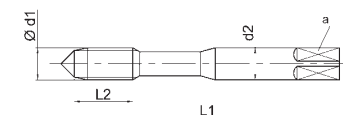
**MASCHIATURA RIGIDA SINCRONIZZATA**

Rigid Tapping Synchro - Taraudage rigide synchronisé

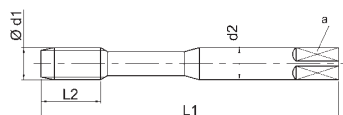
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

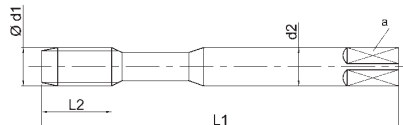
DIN  
371



DIN  
371



UFS  
norm



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Ghisa / Cast iron / Fonte  
Acciaio alta resistenza  
High resistance Steel  
Acier haute résistance  
Al Si > 10%

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

TOP



TOP



TOP



3xD

3,5xD

3,5xD

PM3

PM3

PM3

6HX

6HX

6HX

TXC

TXC

TXC

1.5 1.6

1.5 1.6

1.5 1.6

3.1 3.2 3.3 3.4 3.5

3.1 3.2 3.3 3.4 3.5

3.1 3.2 3.3 3.4 3.5

4.3 4.4 4.5 4.6 5.3 5.4

4.3 4.4 4.5 4.6 5.3 5.4

4.3 4.4 4.5 4.6 5.3 5.4

8.2 8.3 10.1

8.2 8.3 10.1

8.2 8.3 10.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h6	a h12	Z	
6	1	80	10	6	4,9	4	5	
8	1,25	90	13	8	6,2	4	6,8	
10	1,5	100	15	10	8	4	8,5	

S20M...TXC	CODICE - CODE	
	S20M...FOR-TXC	S20M...FORY-TXC
○	○	○
○	○	○
○	○	○

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h6	a h12	Z	
12	1,75	110	18	12	9	4	10,3	
14	2	110	20	12	9	4	12	
16	2	110	20	16	12	4	14	

S20M...TXC	CODICE - CODE	
	S20M...FOR-TXC	S20M...FORY-TXC
○	○	○
○	○	○
○	○	○

A richiesta:  
On request:  
Sur demande:  
Con **Weldon** DIN1835 B



Confezione / Box / Colis:  
M3 – M12: 5 pezzi / pcs  
>M12: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

9

9

9

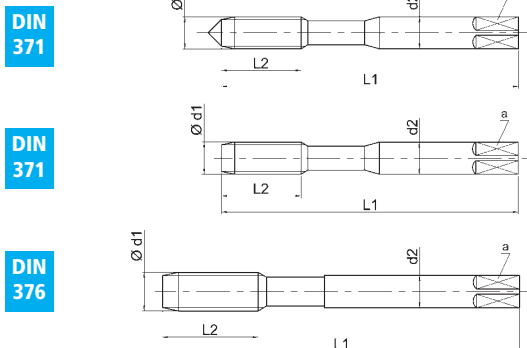
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**HR** ALTA RESISTENZA  
High Resistance - Haute Résistance

MASCHI A MACCHINA  
MACHINE TAPS - TARAUDS MACHINE



60° P<sub>1</sub> RH C 2-3

Rm N<sub>mm</sub><sup>2</sup> 1400

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Al Si > 10%,  
Ottone / Brass / Laiton  
Bronzo / Bronze / Bronze  
truciolo corto / short chip /  
coupeaux courts

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1,5xD

PM3

6HX

**TXC**

1.5 1.6

4.3 4.4 4.5 4.6 5.3 5.4

8.2 8.3 10.1

3,5xD

PM3

ISO2/6H

**TXC**

1.3 1.4 1.5 1.6

3.1 3.2 3.3 3.4 3.5

4.3 4.4 4.5 4.6 5.3 5.4

8.2 8.3 10.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	4	5
	8	1,25	90	18	8	6,2	4	6,8
	10	1,5	100	20	10	8	4	8,5
	6	1	80	16	6	4,9	3	5
	8	1,25	90	18	8	6,2	3	6,8
	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
K20M...TXC			
○			
●			
●			
●			
●			
●			
		K22M...FOR-TXC	K22M...FORY-TXC
		○	○
		○	○
		○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	4	10,3
	14	2	110	28	11	9	4	12
	16	2	110	28	12	9	4	14
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	3	15,5
	20	2,5	140	33	16	12	3	17,5
	22	2,5	140	33	18	14,5	3	19,5
	24	3	160	39	18	14,5	4	21

CODICE - CODE			
K21M...TXC			
●			
○			
○			
		K23M...FOR-TXC	K23M... FORY-TXC
		○	○
		○	○
		○	○
		*	*
		*	*
		*	*
		*	*

Confezione / Box / Colis: M3 - M12: 5 pezzi / pcs >M12: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

● Standard ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer  
Filetage métrique ISO DIN 13 – Tarauds machine  
Rosca ISO métrica regular DIN13 – Machos de rosca a máquina

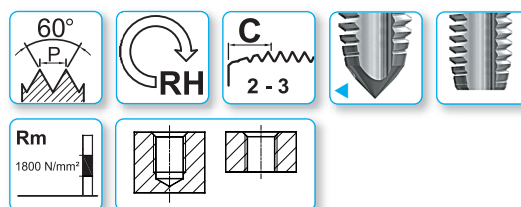
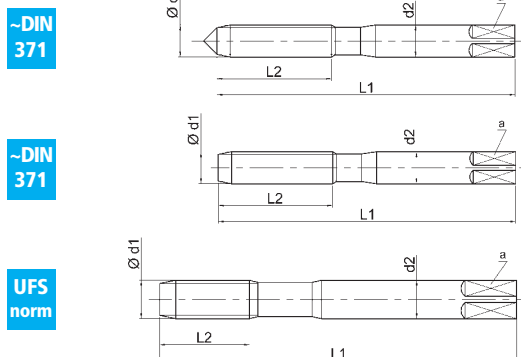


HR

**ALTA RESISTENZA**  
 High Resistance - Haute Résistance

### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage

2xD

1,5xD

Materiale - Material - Matériau

PM1

PM1

Tolleranza - Tolerance - Tolérance

6HX

6HX

Trattamento superficiale - Surface treatment - Revêtement

TiAlN

TiAlN

 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1.6 1.7

1.6 1.7

5.4

5.4

9.1 9.3

9.1 9.3

~DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	0,7	63	13	4,5	3,4	4	3,3
◀	5	0,8	70	13	6	4,9	4	4,2
◀	6	1	80	16	6	4,9	4	5
	8	1,25	90	18	8	6,2	5	6,8
	10	1,5	100	20	10	8	5	8,5
	6	1	80	18	6	4,9	4	5
	8	1,25	90	25	8	6,2	5	6,8
	10	1,5	100	30	10	8	5	8,5

CODICE - CODE

XT20M...

○

○

○

○

○

XT20M...TX

-

-

-

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	5	10,3
	12	1,75	110	30	12	9	5	10,3

CODICE - CODE

XT21M...

○

XT20M...TX

-

**MDI-HM**

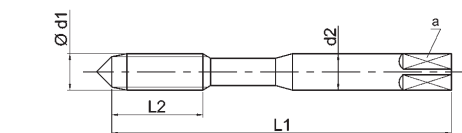
**METALLO DURO INTEGRALE - ALTA RESISTENZA**

Solid carbide, high resistance - Carbure, haute résistance

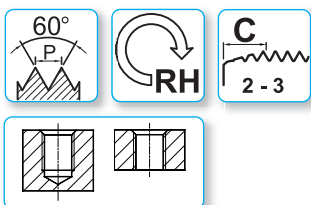
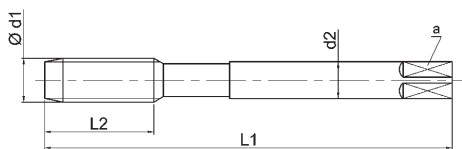
**MASCHI A MACCHINA**

**MACHINE TAPS - TARAUDS MACHINE**

**DIN 371**



**UFS norm**



**TOP**



**TOP**



**TOP**



45-62 HRC

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Ghisa / Cast Iron / Fonte  
Al Si>10%,  
Ottone / Brass / Laiton  
Bronzo / Bronze / Bronze  
truciolo corto / short chip /  
coupeaux courts

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

<b>3,5xD</b>	<b>3,5xD</b>	<b>1,5xD</b>
<b>MDI-HM</b>	<b>MDI-HM</b>	<b>MDI-HM</b>
<b>6HX</b>	<b>6HX</b>	<b>6HX</b>
<b>BR</b>	<b>TICN</b>	<b>TICN</b>
3.1 3.2 3.3 3.4 3.5	3.1 3.2 3.3 3.4 3.5	1.7 1.8
4.3 4.4 4.5 4.6	4.3 4.4 4.5 4.6	5.4
5.3 5.4 8.2 8.3	5.3 5.4 8.2 8.3	9.1 9.3
10.1	10.1	

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h6	a h12	Z	
6	1	80	16	6	4,9	-	5	
8	1,25	90	18	8	6,2	-	6,8	
10	1,5	100	20	10	8	-	8,5	
6	1	80	18	6	4,9	-	5	
8	1,25	90	25	8	6,2	-	6,8	
10	1,5	100	30	10	8	-	8,5	

CODICE - CODE	
HM20M...FOR	HM20M...FOR-CT
*	*
*	*
*	*
	<b>HM-XT20M...CT</b>
-	*
-	*
-	*

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h6	a h12	Z	
12	1,75	110	25	9	7	-	10,3	
14	2	110	22	11	9	-	12	
16	2	110	22	12	9	-	14	
18	2,5	125	24	14	11	-	15,5	
20	2,5	140	25	16	12	-	17,5	
12	1,75	110	30	12	9	-	10,3	
16	2	110	40	16	12	-	14,25	

CODICE - CODE	
HM21M...FOR	HM21M...FOR-CT
*	*
*	*
*	*
*	*
*	*
	<b>HM-XT20M...CT</b>
-	*
-	*

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

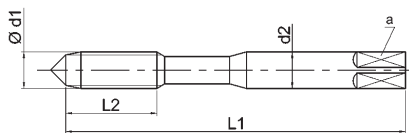
USO GENERALE

General purpose - Usage Général

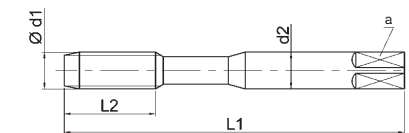
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 371



LINE



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSE

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

ISO2/6H

V

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

6.1 7.1

3xD

HSSE

ISO2/6H

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

3xD

HSSE

ISO2/6H

TXC

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1	0,25	40	5	2,5	2,1	-	0,75
◀	1,2	0,25	40	5	2,5	2,1	-	0,95
◀	1,4	0,3	40	7	2,5	2,1	-	1,1
◀	1,6	0,35	40	8	2,5	2,1	-	1,25
◀	1,7	0,35	40	8	2,5	2,1	-	1,35
◀	1,8	0,35	40	8	2,5	2,1	-	1,45
◀	2	0,4	45	10	2,8	2,1	3	1,6
◀	2,2	0,45	45	10	2,8	2,1	3	1,75
◀	2,3	0,4	45	10	2,8	2,1	3	1,9
◀	2,5	0,45	50	13	2,8	2,1	3	2,05
◀	2,6	0,45	50	13	2,8	2,1	3	2,10
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	3,5	0,6	56	11	4	3	3	2,9
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	4,5	0,75	70	13	6	4,9	3	3,7
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	7	1	80	16	7	5,5	3	6
◀	8	1,25	90	18	8	6,2	3	6,8
◀	9	1,25	90	18	9	7	3	7,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
E24M...	E24M...V	E24M...T	E24M...TXC
*	-	-	-
*	-	-	-
*	-	-	-
*	-	-	-
*	-	-	-
*	-	-	-
●	○	○	*
○	○	○	*
○	○	○	*
●	○	○	*
○	○	○	*
●	●	●	●
○	○	○	○
●	●	●	●
○	○	○	○
●	●	●	●
○	○	○	○
●	●	●	●
○	○	○	○
●	●	●	●

Segue diametri  
Diameters, to be continued  
Diamètres à suivre

▶ Pag. 21

Confezione / Box / Colis:  
M1 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

10

11

11

11

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande





# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

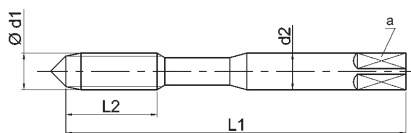
USO GENERALE

General purpose - Usage Général

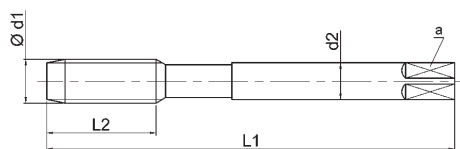
## MASCHI A MACCHINA, FILETTATURA SINISTRA

LEFT THREAD MACHINE TAPS - TARAUDS MACHINE GAUCHE

DIN 371



DIN 376



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSE

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

ISO2/6H

V

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

6.1 7.1

3xD

HSSE

ISO2/6H

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

DIN 371	$\varnothing d_1$ M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

DIN 376	$\varnothing d_1$ M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE		
E24M...LH	E24M...LH-V	E24M...LH-T
*	*	*
○	○	○
○	○	○
●	○	○
●	○	○
●	○	○

CODICE - CODE		
E25M...LH	E25M...LH-V	E25M...LH-T
●	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

12

12

12

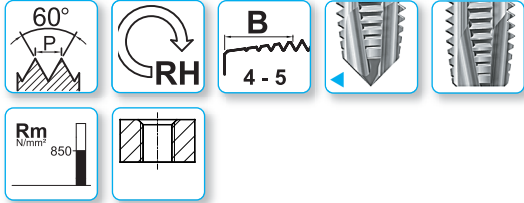
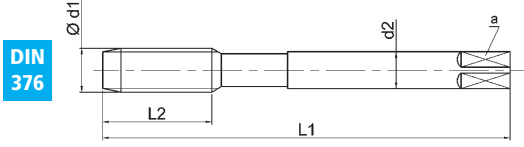
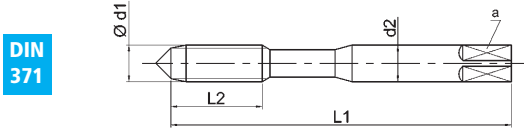
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO1/4H	ISO1/4H	ISO3/6G	ISO3/6G
BR	TiN	BR	TiN
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	3.3 3.4	4.1 4.2	3.3 3.4
5.1 5.2	4.1 4.2 4.3	5.1 5.2	4.1 4.2 4.3
	5.1 5.2		5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
E24M...-4H	E24M... T-4H	E24M...-6G	E24M... T-6G
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE			
E25M...-4H	E25M... T-4H	E25M...-6G	E25M... T-6G
○	○	●	○
○	○	○	○
○	○	●	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

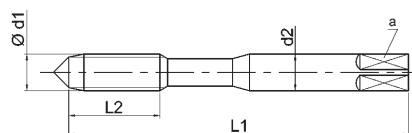
USO GENERALE

General purpose - Usage Général

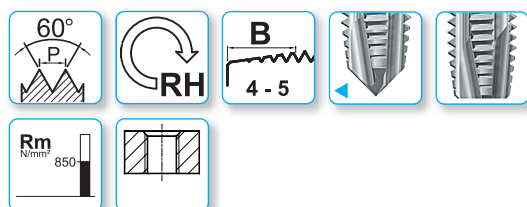
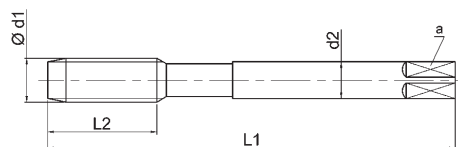
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



LINE



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSE

7G (6H+0,05)

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

7G (6H+0,05)

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

3xD

HSSE

6H+0,1

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

6H+0,1

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE			
E24M...-7G	E24M...T-7G	E24M...+0,1	E24M...T+0,1
○	○	○	○
○	○	○	○
○	○	○	○
○	○	●	○
○	○	●	○
○	○	●	○

CODICE - CODE			
E25M...-7G	E25M...T-7G	E25M...+0,1	E25M...T+0,1
○	○	●	○
○	○	●	○
○	○	●	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

13

13

14

14

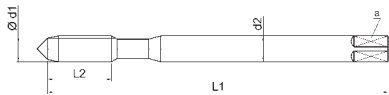
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

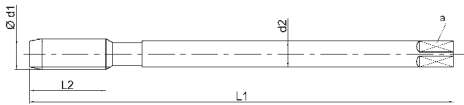
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

UFS norm



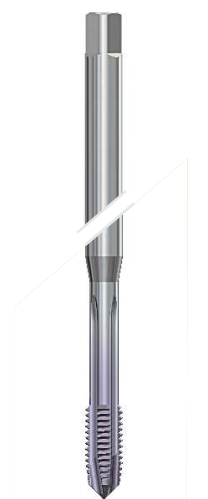
UFS norm



LINE



LINE



60° P  
RH  
B 4-5  
Rm Nmm² 850  
GAMBO SHANK XL

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD
HSSE	HSSE
ISO2/6H	ISO2/6H
BR	TiCN
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 3.3 3.4
5.1 5.2	4.2 4.3
	5.2

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
4	0,7	125	12	4,5	3,4	3	3,3	
5	0,8	140	14	6	4,9	3	4,2	
6	1	160	18	6	4,9	3	5	
8	1,25	180	20	8	6,2	3	6,8	
10	1,5	180	20	10	8	3	8,5	

CODICE - CODE	
L24M...	L24M...CT
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	225	24	9	7	3	10,3	
14	2	225	26	11	9	3	12	
16	2	225	32	12	9	3	14	

CODICE - CODE	
L25M...	L25M...CT
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>





Al-Cu-Fe

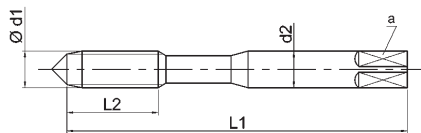
ALLUMINIO, RAME, ACCIAIO R ≤ 700 N/mm<sup>2</sup>

Al, Cu, Steel R ≤ 700 N/mm<sup>2</sup> - Al, Cu, Acier R ≤ 700 N/mm<sup>2</sup>

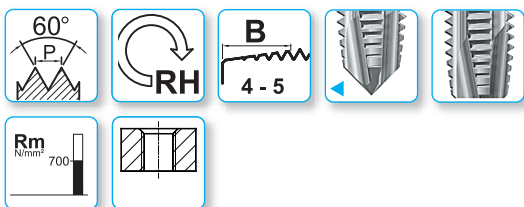
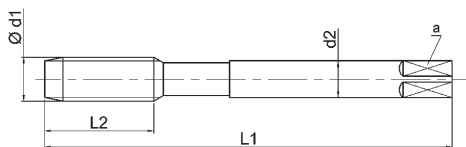
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



LINE



TOP



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

LINE	TOP	LINE	LINE
3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	TXC	ZrN	CrN
1.1 4.1 4.2	1.1	1.1	1.1 1.2 1.3 1.4
5.1 5.2	4.1 4.2	4.1 4.2	5.1 5.2
6.1 7.1	5.1 5.2	5.1 5.2	
8.1			

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	10	3,5	2,7	3	2,5	
4	0,7	63	13	4,5	3,4	3	3,3	
5	0,8	70	13	6	4,9	3	4,2	
6	1	80	16	6	4,9	3	5	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

CODICE - CODE			
E24M...AZ	E24M...AZ-TXC	E24M...AZ-TZ	E24M...NC
○	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	3	10,3	
14	2	110	28	11	9	3	12	
16	2	110	28	12	9	3	14	
18	2,5	125	33	14	11	4	15,5	
20	2,5	140	33	16	12	4	17,5	
22	2,5	140	33	18	14,5	4	19,5	
24	3	160	39	18	14,5	4	21	
27	3	160	39	20	16	4	24	
30	3,5	180	46	22	18	4	26,5	

CODICE - CODE			
E25M...AZ	E25M...AZ-TXC	E25M...AZ-TZ	E25M...NC
●	○	○	○
●	○	○	○
●	○	○	○
*	*	-	○
*	*	-	○
*	*	-	○
*	*	-	○
*	*	-	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

# Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina

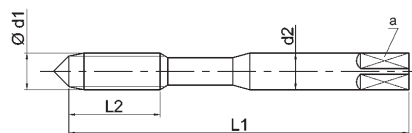
N

USO GENERALE R ≤ 1000N/mm<sup>2</sup>General purpose R ≤ 1000N/mm<sup>2</sup> - Usage Général R ≤ 1000N/mm<sup>2</sup>

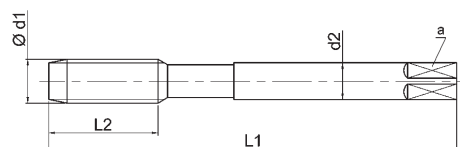
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

3xD

3xD

3xD

HSSP

HSSP

HSSP

HSSP

ISO2/6H

ISO2/6H

ISO2/6H

ISO2/6H

BR

V

TiN

TiCN

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

4.1 4.2

4.1 4.2

3.3 3.4 4.1 4.2 4.3

2.1 2.2

5.1 5.2

5.1 5.2

5.1 5.2

3.3 3.4 4.2 4.3

6.1 7.1

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
P24M...	P24M... V	P24M...T	P24M...CT
●	●	○	○
●	●	○	○
●	●	○	○
●	●	○	○
●	●	○	○
●	●	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	4	10,3
	14	2	110	28	11	9	4	12
	16	2	110	28	12	9	4	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE			
P25M...	P25M... V	P25M...T	P25M...CT
●	●	○	○
○	○	○	○
●	●	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

16

16

16

16

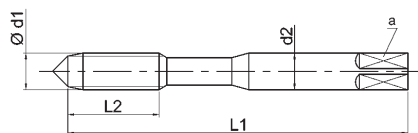
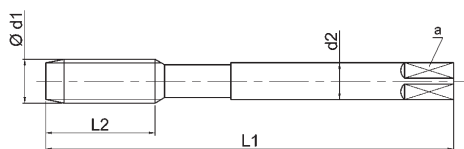
● Standard

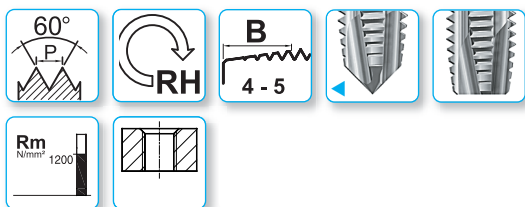
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**U** **APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm²**  
 Universal R ≤ 1200 N/mm² - Universal R ≤ 1200 N/mm²

**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

**DIN 371**

**DIN 376**

**TOP**

**TOP**


Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

<b>3xD</b>	<b>3,5xD</b>
<b>PM3</b>	<b>PM3</b>
<b>6HX</b>	<b>6HX</b>
<b>XP</b>	<b>XP</b>
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3	2.1 2.2 2.3
3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3
5.2	5.2

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	10	3,5	2,7	3	2,5	
4	0,7	63	13	4,5	3,4	3	3,3	
5	0,8	70	13	6	4,9	3	4,2	
6	1	80	16	6	4,9	3	5	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

CODICE - CODE	
K24M...XP	K24M...FOR-Y-XP
●	-
●	-
●	-
●	○
●	○
●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	4	10,3	
14	2	110	28	11	9	4	12	
16	2	110	28	12	9	4	14	
new 18	2,5	125	33	14	11	4	15,5	
new 20	2,5	140	33	16	12	4	17,5	
new 22	2,5	140	33	18	14,5	4	19,5	
new 24	3	160	39	18	14,5	4	21	

CODICE - CODE	
K25M...XP	K25M...FOR-Y-XP
●	○
●	○
●	○
○	○
○	○
○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix **17** **17**

● Standard ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier ★ Solo a richiesta Only on request / Sur demande

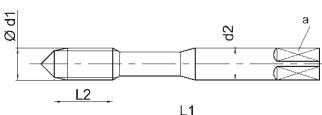
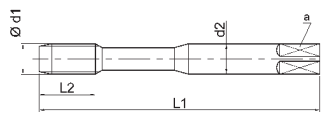
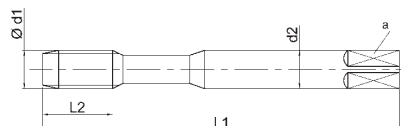
SYNCHRO  
RIGID

MASCHIATURA RIGIDA SINCRONIZZATA

Rigid Tapping Synchro - Taraudage rigide synchronisé

## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371UFS  
norm

TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

3xD

3,5xD

Materiale - Material - Matériau

PM3

PM3

Tolleranza - Tolerance - Tolérance

6HX

6HX

Trattamento superficiale - Surface treatment - Revêtement

TXC

TXC

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

2.1 2.2 2.3 2.4 3.3 3.4

2.1 2.2 2.3 2.4 3.3 3.4

4.1 4.2 4.3 4.5 4.6 5.1

4.1 4.2 4.3 4.5 4.6 5.1

5.2 5.3 6.1 6.2 7.1 7.2

5.2 5.3 6.1 6.2 7.1 7.2

DIN 371	$\varnothing d1$ M	P mm	$L_1$	$L_2$ 10xP	$d_2$ h6	a h12	Z	
6	1	80	10	6	4,9	3	5	
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE	
S24M...TXC	S24M...FORY-TXC
○	○
○	○
○	○

UFS norm	$\varnothing d1$ M	P mm	$L_1$	$L_2$ 10xP	$d_2$ h6	a h12	Z	
12	1,75	110	18	12	9	3	10,3	
14	2	110	20	12	9	3	12	
16	2	110	20	16	12	4	14	

CODICE - CODE	
S24M...TXC	S24M...FORY-TXC
○	○
○	○
○	○

A richiesta:  
On request:  
Sur demande:  
Con Weldon DIN1835 B

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

17

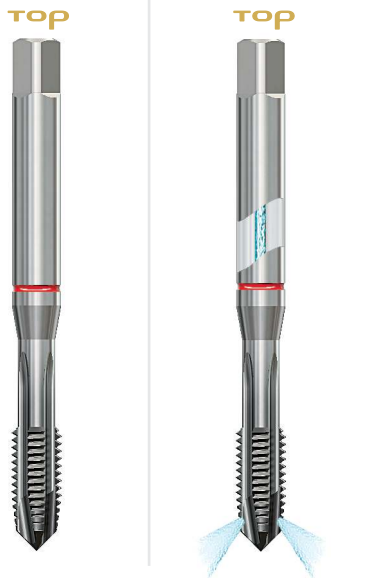
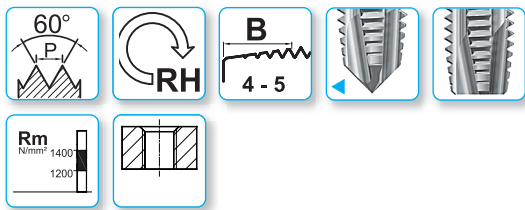
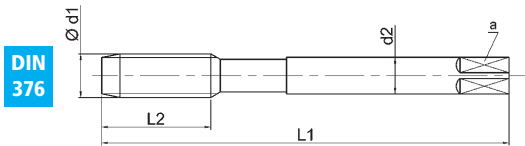
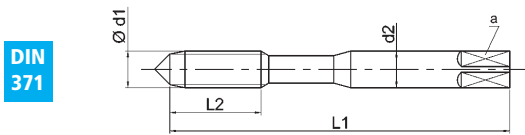
17

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**HR** **ALTA RESISTENZA**  
High Resistance - Haute Résistance

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

<b>3xD</b>	<b>3,5xD</b>
<b>PM3</b>	<b>PM3</b>
<b>6HX</b>	<b>6HX</b>
<b>TXC</b>	<b>TXC</b>
1.5 1.6	1.5 1.6
3.3 3.4	3.3 3.4
4.4 5.3	4.4 5.3

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	10	3,5	2,7	3	2,5	
4	0,7	63	13	4,5	3,4	3	3,3	
5	0,8	70	13	6	4,9	3	4,2	
6	1	80	16	6	4,9	3	5	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

CODICE - CODE	
K24M...TXC	K24M...FORY-TXC
•	-
•	-
•	-
•	○
•	○
•	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	4	10,3	
14	2	110	28	11	9	4	12	
16	2	110	28	12	9	4	14	

CODICE - CODE	
K25M...TXC	K25M...FORY-TXC
•	○
•	○
•	○

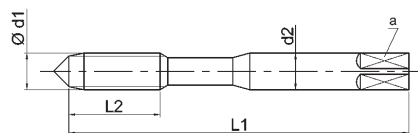
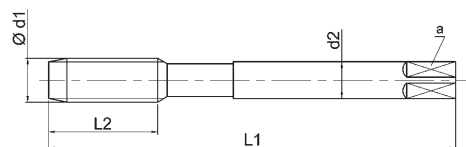
INOX

ACCIAIO INOSSIDABILE

Stainless steel - Acier inoxydable

## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
376

LINE



TOP



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSV3

3xD

HSSV3

3xD

PM3

3,5xD

PM3

6HX

6HX

6HX

6HX

V

TXC

TXC

TXC

2.1 2.2 2.3

1.3 1.4 1.5

1.3 1.4 1.5

1.3 1.4 1.5

2.1 2.2 2.3 2.4

2.1 2.2 2.3 2.4

2.1 2.2 2.3 2.4

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
E24M...X-V	V24M...TXC	K24M...X-TXC	K24M...XFORY-TXC
○	●	○	-
○	●	○	-
○	●	○	-
○	●	○	○
○	●	○	○
○	●	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	4	10,3
	14	2	110	28	11	9	4	12
	16	2	110	28	12	9	4	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21

CODICE - CODE			
E25M...X-V	V25M...TXC	K25M...X-TXC	K25M...XFORY-TXC
○	●	○	○
○	●	○	○
○	●	○	○
○	○	-	-
○	○	-	-
○	○	-	-
○	○	-	-

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

18

18

18

18

● Standard

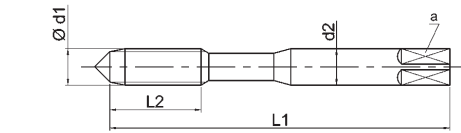
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande



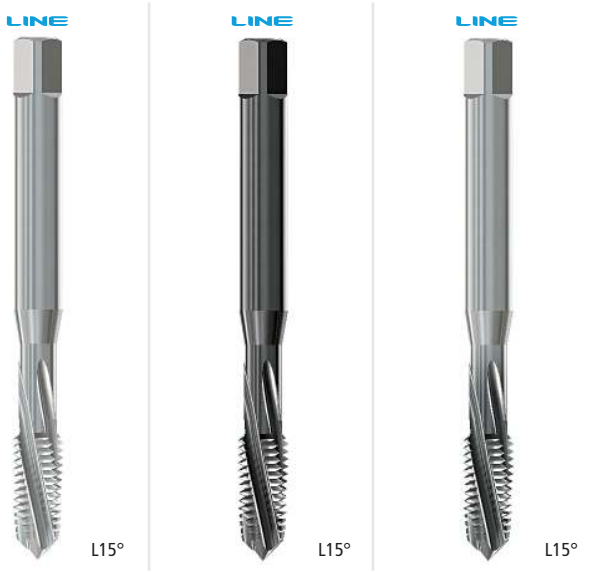
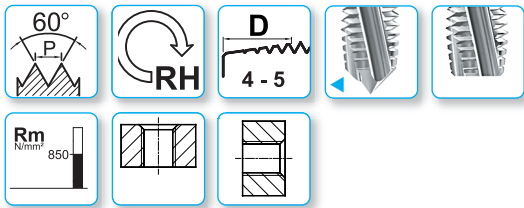
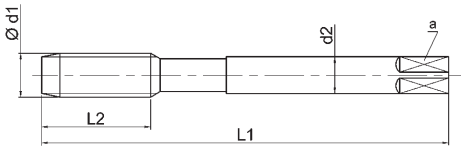
**N** USO GENERALE  
General purpose - Usage Général

MASCHI A MACCHINA  
MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD
HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H
BR	V	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
	4.2 5.2	3.3 3.4
	6.1 7.1	4.3 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

E50M...	CODICE - CODE	
	E50M...V	E50M...XP
•	○	○
•	○	○
•	○	○
•	○	○
•	○	○
•	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

E51M...	CODICE - CODE	
	E51M...V	E51M...XP
•	○	○
•	○	○
•	○	○
*	*	*
*	*	*
*	*	*
*	*	*
*	*	*
*	*	*

Da usare in alternativa ai maschi con imbocco corretto per fori profondi specialmente in filettatura orizzontale.  
To be used with deep holes, specially in horizontal threading.  
À utiliser en alternative aux tarauds entrée GUN pour trous profonds. Particulièrement pour les taraudages horizontaux.

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	18-19	19	19
• Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			* Solo a richiesta Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



Ti

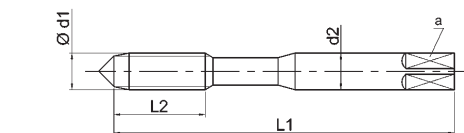
TITANIO

Titanium - Titane

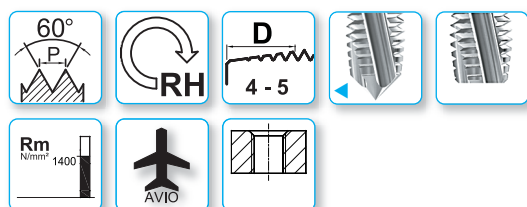
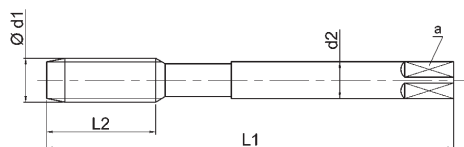
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



TOP



L15°

TOP



L15°

TOP



L15°

TOP



L15°

DIAMETRO ESTERNO ARROTONDO  
WITH ROUNDED CREST  
DIAMÈTRE EXTÉRIEUR ARRONDI

Profond. di filettatura - Thread depth - Profond. de filetage

3xD

Materiale - Material - Matériau

PM3

Tolleranza - Tolerance - Tolérance

6HX

Trattamento superficiale - Surface treatment - Revêtement

V

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

6.1

1.6 2.4

6.1

1.6 2.4

3.3 3.4

4.4 5.3 5.4 6.2 6.3

7.2 9.2

3.3 3.4

4.4 5.3 5.4 6.2 6.3

7.2 9.2

DIN 371	$\varnothing d1$ M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
◀	3	0,5	56	10	3,5	2,7	3	*2,5
◀	4	0,7	63	13	4,5	3,4	3	*3,3
◀	5	0,8	70	13	6	4,9	3	*4,2
◀	6	1	80	16	6	4,9	3	*5
◀	8	1,25	90	18	8	6,2	3	*6,8
◀	10	1,5	100	20	10	8	3	*8,5

CODICE - CODE			
K52M...V	K52M...CT	K52MJ...V	K52MJ...CT
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

DIN 376	$\varnothing d1$ M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
	12	1,75	110	25	9	7	3	*10,3
	16	2	110	28	12	9	3	*14

CODICE - CODE			
K53M...V	K53M...CT	K53MJ...V	K53MJ...CT
○	○	○	○
○	○	○	○

\* Per MJ vedi tabella di foratura pag. 252

\* Drills' diameters for MJ: table page 252

\* Pour MJ voir le tableau de perçage page 252

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

19

19

19

19

● Standard

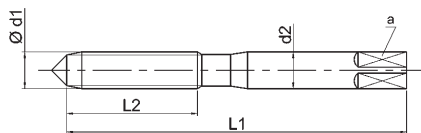
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**Ni** **NICHEL**  
Nickel - Nickel

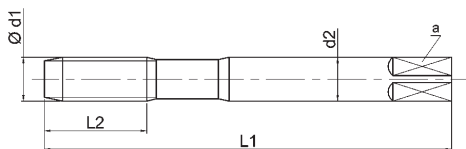
**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

UFS norm



UFS norm



TOP



L10°

TOP

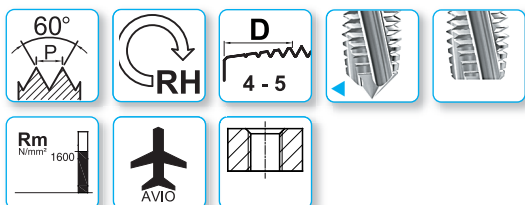


L10°

TOP



L10°



Profond. di filettatura - Thread depth - Profond. de filetage	<b>3xD</b>	<b>3xD</b>	<b>3xD</b>
Materiale - Material - Matériau	<b>PM3</b>	<b>PM3</b>	<b>PM3</b>
Tolleranza - Tolerance - Tolérance	<b>6HX</b>	<b>6HX</b>	<b>4HX</b>
Trattamento superficiale - Surface treatment - Revêtement	<b>BR</b>	<b>TiCN</b>	<b>BR</b>
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	7.3 9.3	1.6 5.4 7.2 9.1	7.3 9.3

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	*2,5
◀	4	0,7	63	13	4,5	3,4	3	*3,3
◀	5	0,8	70	15	6	4,9	3	*4,2
◀	6	1	80	18	6	4,9	3	*5
◀	8	1,25	90	25	8	6,2	3	*6,8
◀	10	1,5	100	30	10	8	3	*8,5

K52M...NI	CODICE - CODE	
	K52M...NI-CT	K52M...NI-4HX
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	30	12	9	3	*10,3

K52M...NI	CODICE - CODE	
	K52M...NI-CT	K52M... NI-4HX
○	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	<b>20</b>	<b>20</b>	<b>20</b>
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	○	○	○ Solo a richiesta Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

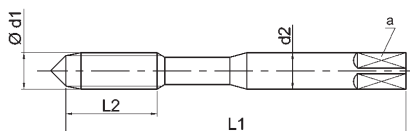
USO GENERALE

General purpose - Usage Général

## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



R15°



R15°



R15°



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1,5xD

1,5xD

1,5xD

1,5xD

HSSE

HSSE

HSSE

HSSE

ISO2/6H

ISO2/6H

ISO2/6H

ISO2/6H

BR

V

TiN

XP

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

4.1 4.2

4.1 4.2

3.3 3.4

3.3 3.4

5.1 5.2

5.1 5.2

4.1 4.2 4.3

4.2 4.3

6.1 7.1

5.1 5.2

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	2	0,4	45	10	2,8	2,1	3	1,6
◀	2,2	0,45	45	10	2,8	2,1	3	1,75
◀	2,3	0,4	45	10	2,8	2,1	3	1,9
◀	2,5	0,45	50	13	2,8	2,1	3	2,05
◀	2,6	0,45	50	13	2,8	2,1	3	2,10
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	3,5	0,6	56	11	4	3	3	2,9
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	7	1	80	16	7	5,5	3	6
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5



Abbiamo a stock tanti maschi speciali, con maggiorazioni, trattamenti, dimensioni diversi dallo standard che possono servire. Interpellateci!

We have a great deal of special taps in stock: oversized, treated, non-standard sizes. Call us!

Nous avons en stock un grand nombre de tarauds, surcotés, traitements spéciaux, différentes dimensions standards qui peuvent être utilisés. Interrogez nous !

CODICE - CODE

E40M...

E40M...V

E40M...T

E40M...XP

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Segue diametri  
Diameters, to be continued  
Diamètres à suivre

▶ Pag. 37

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

20

20

20

20

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande



# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de roscar a máquina

N

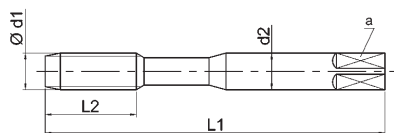
USO GENERALE

General purpose - Usage Général

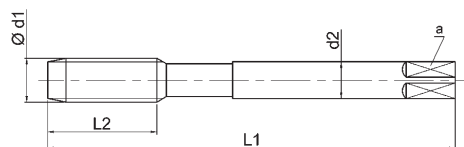
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

LINE



R15°

2,5xD

HSSE

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

LINE



R15°

2,5xD

HSSE

ISO2/6H

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
6	1	80	16	6	4,9	3	5	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

CODICE - CODE	
E40M...FOR	E40M...FOR-T
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<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	3	10,3	
14	2	110	28	11	9	3	12	
16	2	110	28	12	9	3	14	

CODICE - CODE	
E41M...FOR	E41M...FOR-T
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

21

21

● Standard

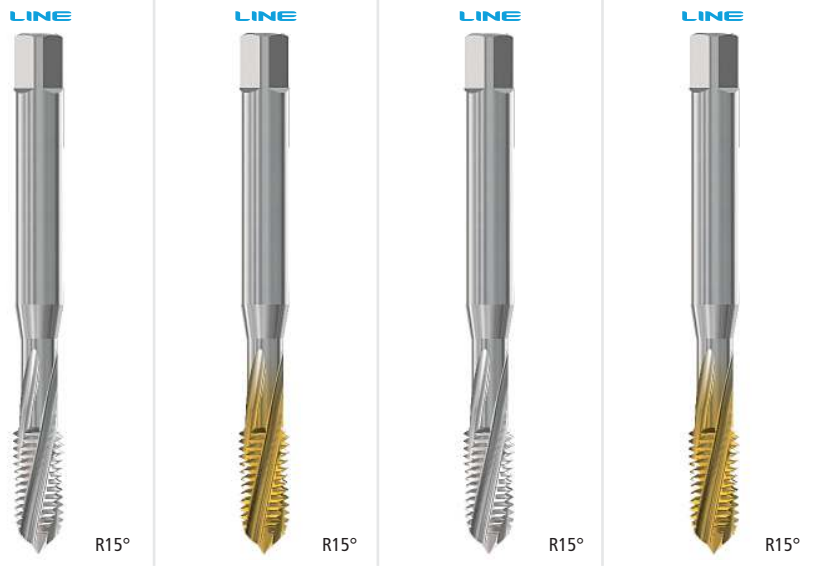
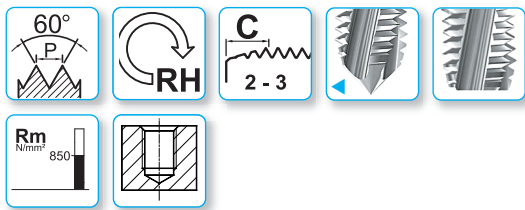
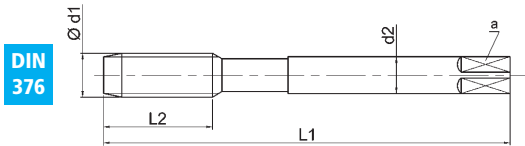
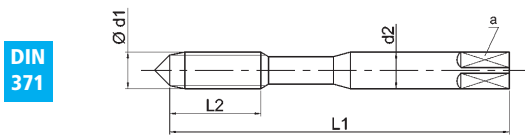
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande



**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1,5xD	1,5xD	1,5xD	1,5xD
HSSE	HSSE	HSSE	HSSE
ISO1/4H	ISO1/4H	ISO3/6G	ISO3/6G
BR	TiN	BR	TiN
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	3.3 3.4	4.1 4.2	3.3 3.4
5.1 5.2	4.1 4.2 4.3	5.1 5.2	4.1 4.2 4.3
	5.1 5.2		5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
E40M...-4H	E40M...T-4H	E40M...-6G	E40M...T-6G
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE			
E41M...-4H	E41M...T-4H	E41M...-6G	E41M...T-6G
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta Only on request / Sur demande

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

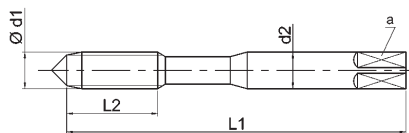
USO GENERALE

General purpose - Usage Général

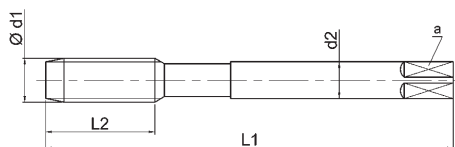
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



LINE



R15°

LINE



R15°

LINE



R15°

LINE



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

1,5xD

1,5xD

1,5xD

Materiale - Material - Matériau

HSSE

HSSE

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

7G (6H+0,05)

7G (6H+0,05)

6H+0,1

6H+0,1

Trattamento superficiale - Surface treatment - Revêtement

BR

TiN

BR

TiN

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

CODICE - CODE			
E40M...-7G	E40M...T-7G	E40M...+0,1	E40M...T+0,1
○	○	○	○
○	○	○	○
○	○	○	○
○	○	●	○
○	○	●	○
○	○	●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

CODICE - CODE			
E41M...-7G	E41M...T-7G	E41M...+0,1	E41M...T+0,1
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

22

23

23

23

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

Al-Cu-Fe

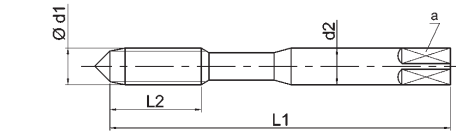
ALLUMINIO, RAME, ACCIAIO R ≤ 700 N/mm<sup>2</sup>

Al, Cu, Steel R ≤ 700 N/mm<sup>2</sup> - Al, Cu, Acier R ≤ 700 N/mm<sup>2</sup>

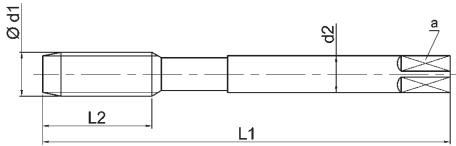
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



R15°



R15°



R15°



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1,5xD

1,5xD

1,5xD

1,5xD

HSSE

HSSE

HSSE

HSSE

ISO2/6H

ISO2/6H

ISO2/6H

ISO2/6H

BR

V

ZrN

CrN

1.1 4.1 4.2

1.1 4.1 4.2

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

5.1 5.2

5.1 5.2

3.3 3.4

5.1 5.2

6.1 7.1

6.1 7.1

4.2 4.3

8.1

8.1

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	10	3,5	2,7	3	2,5	
4	0,7	63	13	4,5	3,4	3	3,3	
5	0,8	70	13	6	4,9	3	4,2	
6	1	80	16	6	4,9	3	5	
8	1,25	90	18	8	6,2	3	6,8	
10	1,5	100	20	10	8	3	8,5	

CODICE - CODE			
E40M...AZ	E40M...AZ-V	*E40M...TZ	E40M...NC
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	25	9	7	3	10,3	
14	2	110	28	11	9	3	12	
16	2	110	28	12	9	3	14	

CODICE - CODE			
E41M...AZ	E41M...AZ-V	*E41M...TZ	E41M...NC
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*In alternativa si consiglia: Alternatively we recommend: Par ailleurs, nous vous recommandons: E40M...XP pag. 36 E41M...XP pag. 37			

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

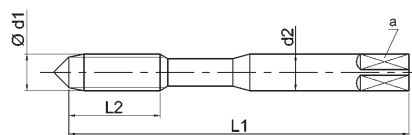
USO GENERALE

General purpose - Usage Général

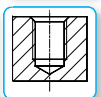
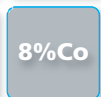
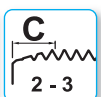
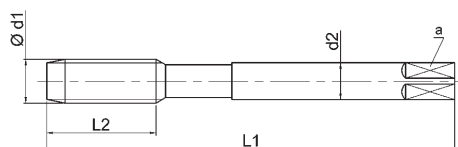
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



plus



R15°

plus



R15°

plus



R15°

plus



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

1,5xD

1,5xD

1,5xD

Materiale - Material - Matériau

HSSP

HSSP

HSSP

HSSP

Tolleranza - Tolerance - Tolérance

ISO2/6H

ISO2/6H

ISO2/6H

ISO2/6H

Trattamento superficiale - Surface treatment - Revêtement

BR

V

TiN

TiCN

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

4.1 4.2

4.1 4.2

3.3 3.4 4.1 4.2 4.3

3.3 3.4 4.2 4.3

5.1 5.2

5.1 5.2

5.1 5.2

5.2

6.1 7.1

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
◀	8	1,25	90	18	8	6,2	3	6,8
◀	10	1,5	100	20	10	8	3	8,5

P40M...	CODICE - CODE		
	P40M... V	P40M... T	P40M... CT
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21
	27	3	160	39	20	16	4	24
	30	3,5	180	46	22	18	4	26,5

P41M...	CODICE - CODE		
	P41M... V	P41M... T	P41M... CT
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

24

24

24

24

• Standard

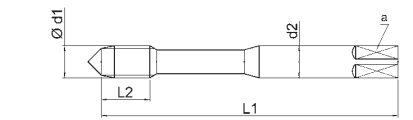
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

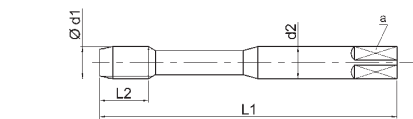
**HR** **ALTA RESISTENZA**  
High Resistance - Haute Résistance

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

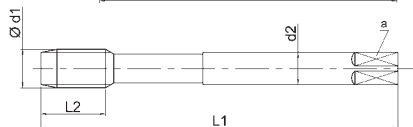
DIN 371



DIN 371



DIN 376



TOP

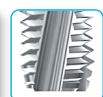


R15°

TOP



R15°



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1,5xD	2,5xD
PM3	PM3
6HX	6HX
TXC	TXC
1.5 1.6	1.5 1.6
3.3 3.4	3.3 3.4
4.4 4.5 4.6	4.4 4.5 4.6
5.3	5.3

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	5	3,5	2,7	3	2,5	◀
4	0,7	63	7	4,5	3,4	3	3,3	◀
5	0,8	70	8	6	4,9	3	4,2	◀
6	1	80	10	6	4,9	3	5	◀
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE	
K40M...TXC	K40M...FOR-TXC
●	-
●	-
●	-
●	○
●	○
●	○

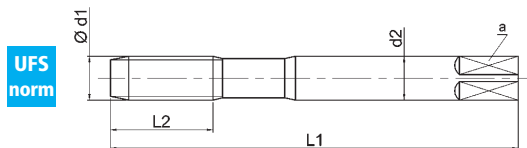
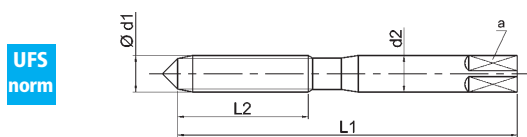
DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	18	9	7	4	10,3	
14	2	110	20	11	9	4	12	
16	2	110	20	12	9	4	14	

CODICE - CODE	
K41M...TXC	K41M...FOR-TXC
●	○
○	○
○	○



**Ni** **NICHEL**  
Nickel - Nickel

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



60° P.M. RH C 2-3  
Rm Nmm<sup>2</sup> 1400 AVIO  
Back Tapered BT



Profond. di filettatura - Thread depth - Profond. de filetage	1,5xD	1,5xD	1,5xD	2,5xD
Materiale - Material - Matériau	PM3	PM3	PM3	PM3
Tolleranza - Tolerance - Tolérance	6HX	6HX	4HX	6HX
Trattamento superficiale - Surface treatment - Revêtement	BR	TiCN	BR	V
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	7.3 9.3	1.6 5.4 7.2 9.1	7.3 9.3	7.1 7.2

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	Flute
◀	3	0,5	56	10	3,5	2,7	3	*2,5
◀	4	0,7	63	13	4,5	3,4	3	*3,3
◀	5	0,8	70	15	6	4,9	3	*4,2
◀	6	1	80	18	6	4,9	3	*5
◀	8	1,25	90	25	8	6,2	3	*6,8
◀	10	1,5	100	30	10	8	3	*8,5
◀	3	0,5	56	10	3,5	2,7	3	*2,5
◀	4	0,7	63	13	4,5	3,4	3	*3,3
◀	5	0,8	70	13	6	4,9	3	*4,2
◀	6	1	80	16	6	4,9	3	*5
◀	8	1,25	90	18	8	6,2	3	*6,8
◀	10	1,5	100	20	10	8	3	*8,5

K42M...NI	CODICE - CODE		K42M...NI-4HX
	K42M...NI-CT	K42M...NI-4HX	
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
-	-	-	K28M...V
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	Flute
	12	1,75	110	30	12	9	4	*10,3
	12	1,75	110	25	9	7	4	*10,3
	14	2	110	28	11	9	4	*12
	16	2	110	28	12	9	4	*14

K42M...NI	CODICE - CODE		K42M... NI-4HX
	K42M...NI-CT	K42M... NI-4HX	
○	○	○	○
-	-	-	K29M...V
-	-	-	○
-	-	-	*
-	-	-	○

\* Per MJ vedi tabella di foratura pag. 252  
\* Drills' diameters for MJ: table page 252  
\* Pour MJ voir le tableau de perçage page 252

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	26	26	26	26
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	○	○	○	○
	★ Solo a richiesta Only on request / Sur demande				







# M Filettatura metrica ISO passo grosso DIN 13

## ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina

N

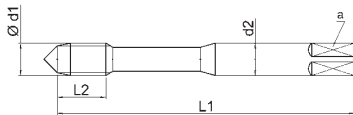
USO GENERALE

General purpose - Usage Général

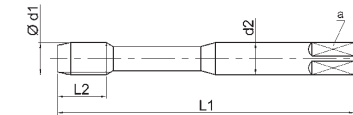
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

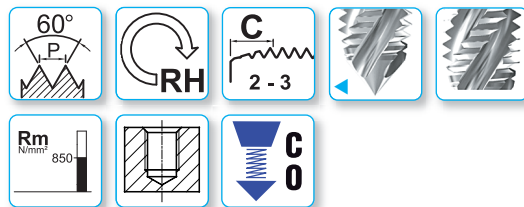
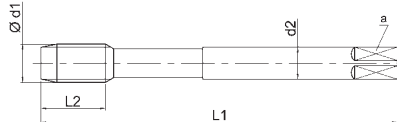
DIN 371



DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

LINE



R40°

3xD

HSSE

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

LINE



R40°

3xD

HSSE

ISO2/6H

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

LINE



R40°

3xD

HSSE

ISO2/6H

TXC

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	$\varnothing d_1$ M	P mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
6	1	80	10	6	4,9	3	5	
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE		
E60M...FOR	E60M...FOR-T	E60M...FOR-TXC
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 376	$\varnothing d_1$ M	P mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
12	1,75	110	18	9	7	3	10,3	
14	2	110	20	11	9	3	12	
16	2	110	20	12	9	4	14	
18	2,5	125	25	14	11	4	15,5	
20	2,5	140	25	16	12	4	17,5	
22	2,5	140	25	18	14,5	4	19,5	
24	3	160	30	18	14,5	4	21	

CODICE - CODE		
E61M...FOR	E61M...FOR-T	E61M...FOR-TXC
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

28

28

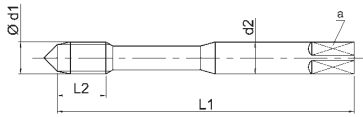
28

● Standard

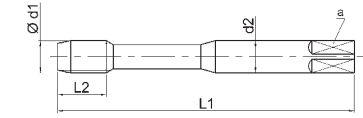
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**N** **USO GENERALE**  
General purpose - Usage Général

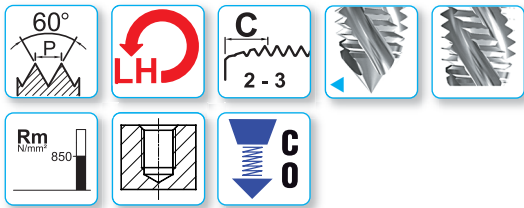
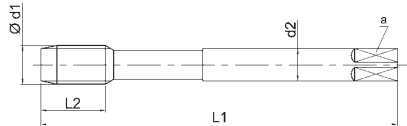
**DIN 371**



**DIN 371**



**DIN 376**



LINE



L35°

LINE



L35°

LINE



L35°

Profond. di filettatura - Thread depth - Profond. de filetage

**2,5xD**

**2,5xD**

**2,5xD**

Materiale - Material - Matériau

**HSSE**

**HSSE**

**HSSE**

Tolleranza - Tolerance - Tolérance

**ISO2/6H**

**ISO2/6H**

**ISO2/6H**

Trattamento superficiale - Surface treatment - Revêtement

**BR**

**V**

**XP**

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	<b>3</b>	<b>0,5</b>	56	5	3,5	2,7	3	2,5
◀	<b>4</b>	<b>0,7</b>	63	7	4,5	3,4	3	3,3
◀	<b>5</b>	<b>0,8</b>	70	8	6	4,9	3	4,2
◀	<b>6</b>	<b>1</b>	80	10	6	4,9	3	5
	<b>8</b>	<b>1,25</b>	90	13	8	6,2	3	6,8
	<b>10</b>	<b>1,5</b>	100	15	10	8	3	8,5

CODICE - CODE		
E60M...LH	E60M...LH-V	E60M...LH-XP
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	<b>12</b>	<b>1,75</b>	110	18	9	7	3	10,3
	<b>14</b>	<b>2</b>	110	20	11	9	3	12
	<b>16</b>	<b>2</b>	110	20	12	9	4	14
	<b>18</b>	<b>2,5</b>	125	25	14	11	4	15,5
	<b>20</b>	<b>2,5</b>	140	25	16	12	4	17,5
	<b>22</b>	<b>2,5</b>	140	25	18	14,5	4	19,5
	<b>24</b>	<b>3</b>	160	30	18	14,5	4	21

CODICE - CODE		
E61M...LH	E61M...LH-V	E61M...LH-XP
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



N

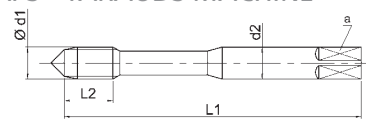
USO GENERALE

General purpose - Usage Général

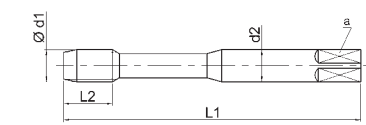
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

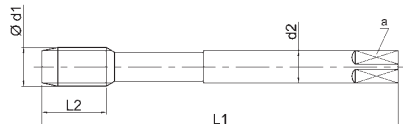
DIN 371



DIN 371



DIN 376



LINE



R40°

LINE



R40°

LINE



R40°

LINE



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

2,5xD

2,5xD

2,5xD

2,5xD

Materiale - Material - Matériau

HSSE

HSSE

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

ISO1/4H

ISO1/4H

ISO3/6G

ISO3/6G

Trattamento superficiale - Surface treatment - Revêtement

BR

XP

BR

XP

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

4.1 4.2

2.1 2.2 3.3 3.4

4.1 4.2

2.1 2.2 3.3 3.4

5.1 5.2

4.2 4.3

5.1 5.2

4.2 4.3

5.2

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

CODICE - CODE			
E60M...-4H	E60M...XP-4H	E60M...-6G	E60M...XP-6G
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○
○	○	●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	3	10,3
	14	2	110	20	11	9	3	12
	16	2	110	20	12	9	4	14
	18	2,5	125	33	14	11	4	15,5
	20	2,5	140	33	16	12	4	17,5
	22	2,5	140	33	18	14,5	4	19,5
	24	3	160	39	18	14,5	4	21

CODICE - CODE			
E61M...-4H	E61M... XP-4H	E61M...-6G	E61M... XP-6G
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

29

29

29

30

● Standard

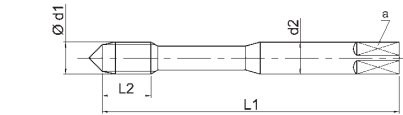
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

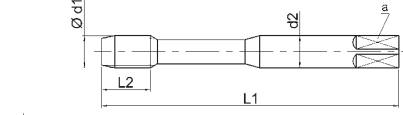
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

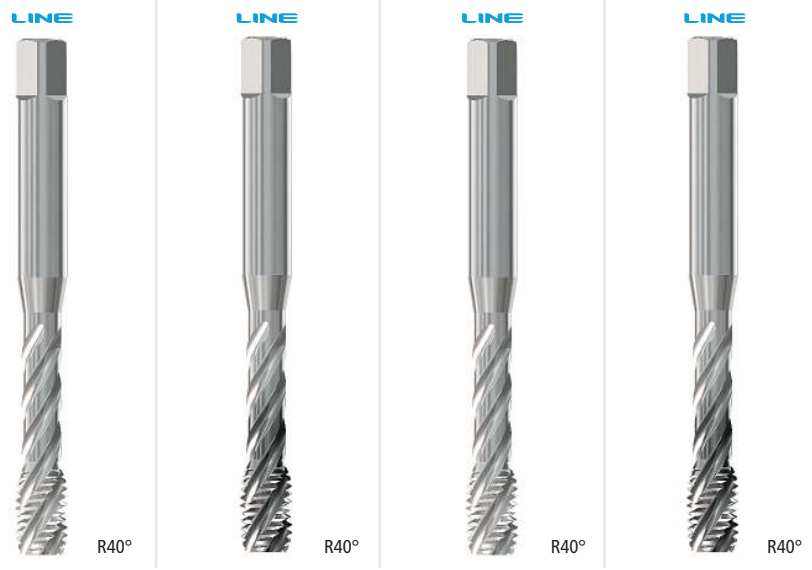
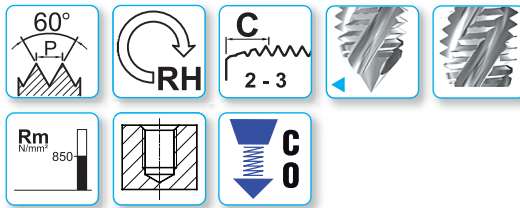
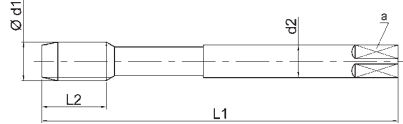
DIN 371



DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

2,5xD	2,5xD	2,5xD	2,5xD
HSSE	HSSE	HSSE	HSSE
7G(6H+0,05)	7G(6H+0,05)	6H+0,1	6H+0,1
BR	XP	BR	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 3.3 3.4	4.1 4.2	2.1 2.2 3.3 3.4
5.1 5.2	4.2 4.3	5.1 5.2	4.2 4.3
	5.2		5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	56	5	3,5	2,7	3	2,5	
4	0,7	63	7	4,5	3,4	3	3,3	
5	0,8	70	8	6	4,9	3	4,2	
6	1	80	10	6	4,9	3	5	
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE			
E60M...-7G	E60M...XP-7G	E60M...+0,1	E60M...XP+0,1
○	○	○	○
○	○	○	○
○	○	○	○
○	○	●	○
○	○	●	○
○	○	●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	18	9	7	3	10,3	
14	2	110	20	11	9	3	12	
16	2	110	20	12	9	4	14	
18	2,5	125	33	14	11	4	15,5	
20	2,5	140	33	16	12	4	17,5	
22	2,5	140	33	18	14,5	4	19,5	
24	3	160	39	18	14,5	4	21	

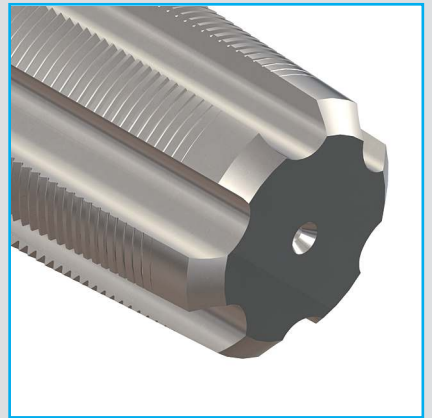
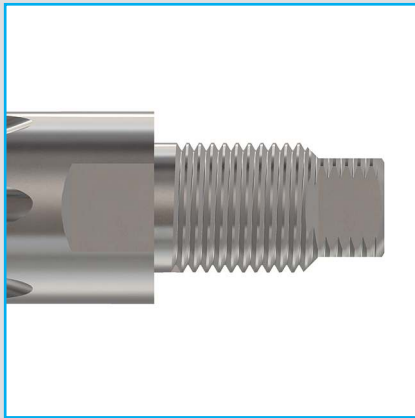
CODICE - CODE			
E61M...-7G	E61M... XP-7G	E61M...+0,1	E61M... XP+0,1
○	○	●	○
○	○	○	○
○	○	○	○
○	○	●	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard ○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

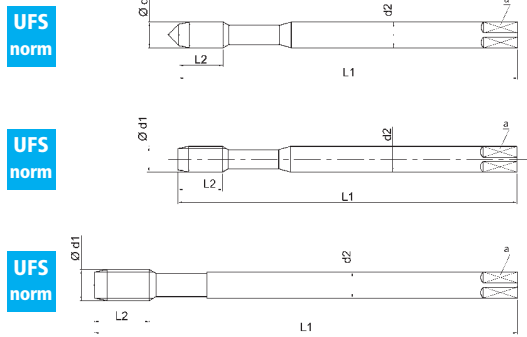
★ Solo a richiesta  
Only on request / Sur demande





**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



60° P.M. RH C 2-3

Rm N/mm² 850

**GAMBO SHANK XL**

C O



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

2,5xD	2,5xD
HSSE	HSSE
ISO2/6H	ISO2/6H
BR	TiCN
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 3.3 3.4
5.1 5.2	4.2 4.3
	5.2

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	0,7	125	7	4,5	3,4	3	3,3
◀	5	0,8	140	8	6	4,9	3	4,2
◀	6	1	160	10	6	4,9	3	5
	8	1,25	180	13	8	6,2	3	6,8
	10	1,5	180	16	10	8	3	8,5

CODICE - CODE	
L60M...	L60M...CT
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	225	23	9	7	3	10,3
	14	2	225	23	11	9	4	12
	16	2	225	23	12	9	4	14

CODICE - CODE	
L61M...	L61M...CT
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



Al-Cu-Fe

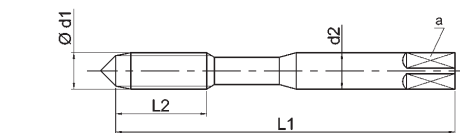
ALLUMINIO, RAME, ACCIAIO R ≤ 700 N/mm<sup>2</sup>

Al, Cu, Steel R ≤ 700 N/mm<sup>2</sup> - Al, Cu, Acier R ≤ 700 N/mm<sup>2</sup>

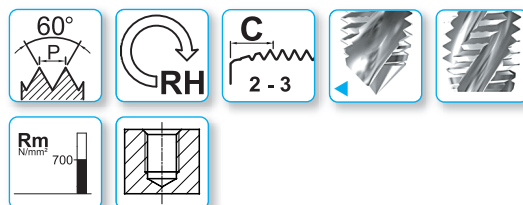
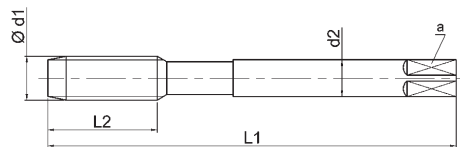
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



LINE



R45°

LINE



R45°

TOP



R45°

LINE



R45°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSE

ISO2/6H

BR

1.1 4.1 4.2

5.1 5.2

6.1 7.1

8.1

3xD

HSSE

ISO2/6H

VS

1.1

4.1 4.2

5.1 5.2

8.1

3xD

HSSE

ISO2/6H

TXC

1.1

4.1 4.2 4.3

5.1 5.2

3xD

HSSE

ISO2/6H

ZrN

1.1

4.1 4.2 4.3

5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	2	2,5
◀	4	0,7	63	13	4,5	3,4	2	3,3
◀	5	0,8	70	13	6	4,9	2	4,2
◀	6	1	80	16	6	4,9	2	5
◀	8	1,25	90	18	8	6,2	2	6,8
◀	10	1,5	100	20	10	8	2	8,5

CODICE - CODE			
E70M...	E70M...VS	E70M...TXC	E70M...TZ
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	1	80	16	4,5	3,4	2	5
◀	8	1,25	90	18	6	4,9	2	6,8
◀	10	1,5	100	20	7	5,5	2	8,5
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	3	14

CODICE - CODE			
E71M...	E71M...VS	E71M...TXC	E71M...TZ
○	○	○	-
○	○	○	-
○	○	○	-
•	○	○	○
•	○	○	○
•	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

31

31

31

31

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**Al-Cu-Fe**

**ALLUMINIO, RAME, ACCIAIO R ≤ 700 N/mm<sup>2</sup>**

**Al, Cu, Steel R ≤ 700 N/mm<sup>2</sup> - Al, Cu, Acier R ≤ 700 N/mm<sup>2</sup>**

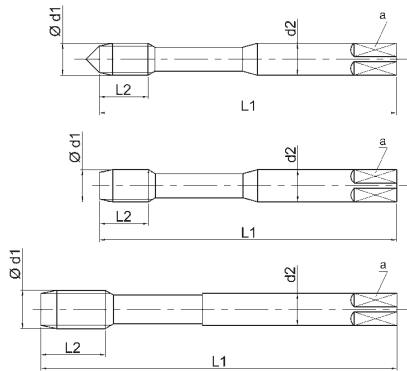
**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

DIN 371

DIN 371

DIN 376



LINE



R40°



Profond. di filettatura - Thread depth - Profond. de filetage

**2,5xD**

Materiale - Material - Matériau

**HSSE**

Tolleranza - Tolerance - Tolérance

**ISO2/6H**

Trattamento superficiale - Surface treatment - Revêtement

**CrN**

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	<b>3</b>	<b>0,5</b>	56	5	3,5	2,7	3	2,5
◀	<b>4</b>	<b>0,7</b>	63	7	4,5	3,4	3	3,3
◀	<b>5</b>	<b>0,8</b>	70	8	6	4,9	3	4,2
◀	<b>6</b>	<b>1</b>	80	10	6	4,9	3	5
	<b>8</b>	<b>1,25</b>	90	13	8	6,2	3	6,8
	<b>10</b>	<b>1,5</b>	100	15	10	8	3	8,5

CODICE - CODE	
E60M...NC	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	<b>6</b>	<b>1</b>	80	10	4,5	3,4	3	5
	<b>8</b>	<b>1,25</b>	90	13	6	4,9	3	6,8
	<b>10</b>	<b>1,5</b>	100	15	7	5,5	3	8,5
	<b>12</b>	<b>1,75</b>	110	18	9	7	3	10,3
	<b>14</b>	<b>2</b>	110	20	11	9	3	12
	<b>16</b>	<b>2</b>	110	20	12	9	4	14
	<b>18</b>	<b>2,5</b>	125	25	14	11	4	15,5
	<b>20</b>	<b>2,5</b>	140	25	16	12	4	17,5
	<b>22</b>	<b>2,5</b>	140	25	18	14,5	4	19,5
	<b>24</b>	<b>3</b>	160	30	18	14,5	4	21
	<b>27</b>	<b>3</b>	160	30	20	16	4	24
	<b>30</b>	<b>3,5</b>	180	35	22	18	4	26,5

CODICE - CODE	
E61M...NC	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
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	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

**32**

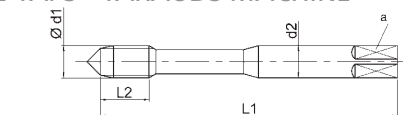
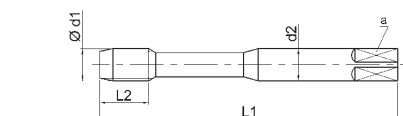
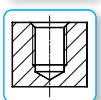
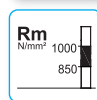
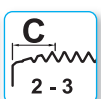
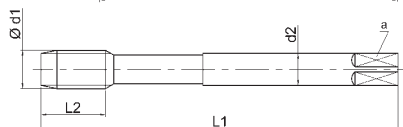
• Standard

◊ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371DIN  
376

R40°



R40°



R40°



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

2,5xD	2,5xD	2,5xD	2,5xD
HSSP	HSSP	HSSP	HSSP
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
4.1 4.2	4.1 4.2	3.3 3.4 4.1 4.2 4.3	2.1 2.2
5.1 5.2	5.1 5.2	5.1 5.2	3.3 3.4 4.2 4.3
			5.2


DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

CODICE - CODE			
P60M...	P60M...V	P60M...T	P60M...XP
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	4	10,3
	14	2	110	20	11	9	4	12
	16	2	110	20	12	9	4	14
	18	2,5	125	25	14	11	4	15,5
	20	2,5	140	25	16	12	4	17,5
	22	2,5	140	25	18	14,5	4	19,5
	24	3	160	30	18	14,5	4	21
	27	3	160	30	20	16	4	24
	30	3,5	180	35	22	18	4	26,5

CODICE - CODE			
P61M...	P61M...V	P61M...T	P61M...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading:  
Recommandé pour le taraudage rigide



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

32

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32

32

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

N

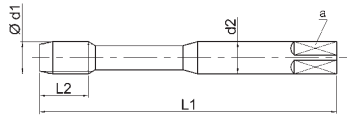
USO GENERALE R ≤ 1000N/mm<sup>2</sup>

General purpose R ≤ 1000N/mm<sup>2</sup> - Usage Général R ≤ 1000N/mm<sup>2</sup>

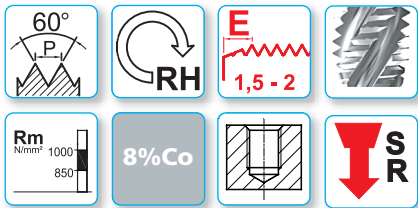
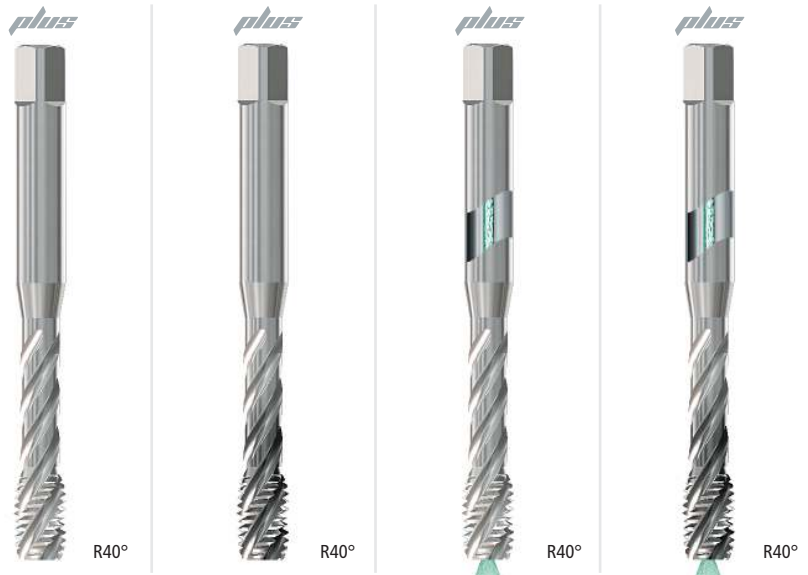
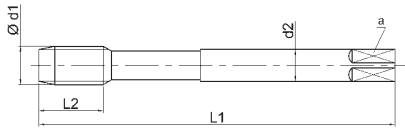
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

2,5xD	2,5xD	3xD	3xD
HSSP	HSSP	HSSP	HSSP
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	XP	BR	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4 1.5
4.1 4.2	2.1 2.2	4.1 4.2	2.1 2.2
5.1 5.2	3.3 3.4 4.2 4.3	5.1 5.2	3.3 3.4 4.2 4.3
	5.2		5.2

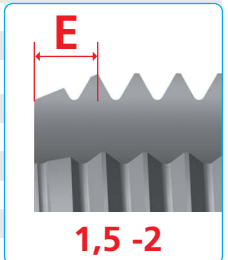
DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
4	0,7	63	7	4,5	3,4	3	3,3	
5	0,8	70	8	6	4,9	3	4,2	
6	1	80	10	6	4,9	3	5	
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE			
P60EM...	P60EM...XP	P60EM...FOR	P60EM...FOR-XP
*	*	-	-
○	○	-	-
○	○	○	○
○	○	○	○
○	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
12	1,75	110	18	9	7	4	10,3	
14	2	110	20	11	9	4	12	
16	2	110	20	12	9	4	14	

CODICE - CODE			
P61EM...	P61EM...XP	P61EM...FOR	P61EM...FOR-XP
○	○	○	○
○	○	○	○
○	○	○	○

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading:  
Recommandé pour le taraudage rigide



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

N

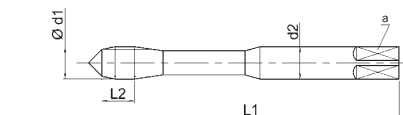
USO GENERALE

General purpose - Usage Général

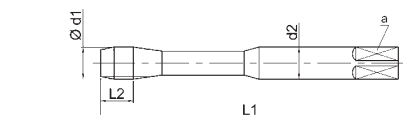
## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

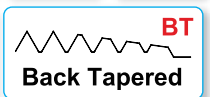
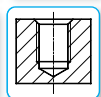
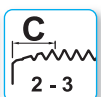
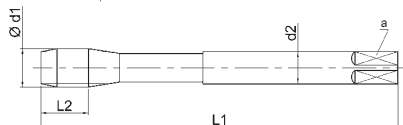
DIN 371



DIN 371



DIN 376



LINE



R40°

LINE



R40°

LINE



R40°

LINE



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

2,5÷3xD

2,5÷3xD

2,5÷3xD

2,5÷3xD

Materiale - Material - Matériau

HSSE

HSSE

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

ISO2/6H

ISO2/6H

ISO2/6H

ISO2/6H

Trattamento superficiale - Surface treatment - Revêtement

BR

V

TiN

XP

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

5.1 5.2

2.1 2.2

5.1 5.2

2.1 2.2

5.2

DIN 371	$\varnothing d_1$ M	P mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

DIN 376	$\varnothing d_1$ M	P mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
	8	1,25	90	13	6	4,9	3	6,8
	10	1,5	100	15	7	5,5	3	8,5
	12	1,75	110	18	9	7	3	10,3
	14	2	110	20	11	9	3	12
	16	2	110	20	12	9	4	14
	18	2,5	125	25	14	11	4	15,5
	20	2,5	140	25	16	12	4	17,5
	22	2,5	140	25	18	14,5	4	19,5
	24	3	160	30	18	14,5	4	21
	27	3	160	30	20	16	4	24
	30	3,5	180	35	22	18	4	26,5

CODICE - CODE			
E80M...	E80M...V	E80M...T	E80M...XP
•	○	○	○
•	○	○	○
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•

CODICE - CODE			
E81M...	E81M...V	E81M...T	E81M...XP
○	○	○	○
○	○	○	○
•	•	•	•
•	•	•	•
•	•	•	•
○	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○

RACCOMANDATO per filettatura rigida

We recommend Syncro rigid threading

Recommandé pour le taraudage rigide


 Confezione / Box / Colis:  
 M3 – M10: 10 pezzi / pcs  
 M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

33

33

34

34

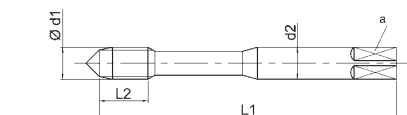
• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

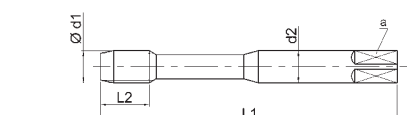
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

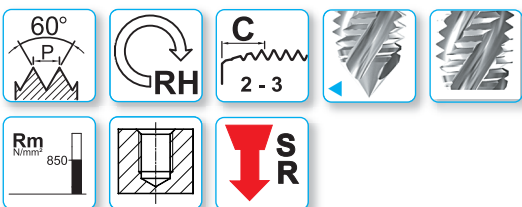
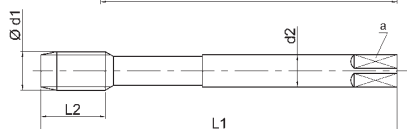
DIN 371



DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.2 5.2	2.1 2.2	4.2 5.2	2.1 2.2
	4.2 5.2		4.2 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

AD ESAURIMENTO SCORTE  
UNTIL STOCK LAST  
JUSQU' AU DERNIER DE STOCKS

CODICE - CODE			
E82M...	E82M...V	E82M...T	E82M...XP
●	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○
●	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	4	10,3
	14	2	110	20	11	9	4	12
	16	2	110	20	12	9	4	14
	18	2,5	125	25	14	11	4	15,5
	20	2,5	140	25	16	12	4	17,5
	22	2,5	140	25	18	14,5	4	19,5
	24	3	160	30	18	14,5	4	21

AD ESAURIMENTO SCORTE  
UNTIL STOCK LAST  
JUSQU' AU DERNIER DE STOCKS

CODICE - CODE			
E83M...	E83M...V	E83M...T	E83M...XP
●	○	○	○
●	○	○	○
●	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

RACCOMANDATO per filettatura rigida  
We recommend Synchro rigid threading  
Recommandé pour le taraudage rigide



Versione ad alto rendimento in PM3 pagina seguente.  
High performance PM3 edition in following page.  
Version haut performance en PM3: page suivante.

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande



# M Filettatura metrica ISO passo grosso DIN 13

ISO Metric coarse thread DIN 13

Metrisches ISO-Regelgewinde DIN13 – Maschinengewindebohrer

Filetage métrique ISO DIN 13 – Tarauds machine

Rosca ISO métrica regular DIN13 – Machos de rosca a máquina



U

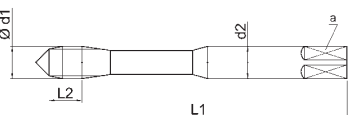
APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm<sup>2</sup>

Universal R ≤ 1200 N/mm<sup>2</sup> - Universal R ≤ 1200 N/mm<sup>2</sup>

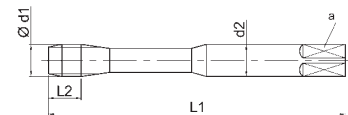
## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

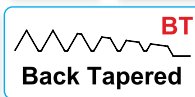
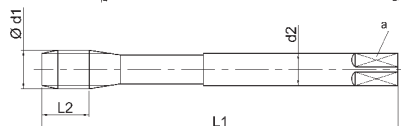
DIN 371



DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

TOP



BT

R45°

3xD

PM3

6HX

TOP



BT

R45°

3,5xD

PM3

6HX

XP

1.1 1.2 1.3 1.4 1.5

2.1 2.2 2.3

3.3 3.4 4.2 4.3

5.2

TOP



BT

R45°

3,5xD

PM3

6HX

XP

1.1 1.2 1.3 1.4 1.5

2.1 2.2 2.3

3.3 3.4 4.2 4.3

5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

K82M...XP	CODICE - CODE	
	K82M...FOR-XP	K82M...FORY-XP
•	-	-
•	-	-
•	-	-
•	○	○
•	○	○
•	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	4	10,3
	14	2	110	20	11	9	4	12
	16	2	110	20	12	9	4	14
	18	2,5	125	25	14	11	4	15,5
	20	2,5	140	25	16	12	4	17,5
	22	2,5	140	25	18	14,5	4	19,5
	24	3	160	30	18	14,5	4	21
new	27	3	160	30	20	16	4	24
new	30	3,5	180	35	22	18	4	26,5

K83M...XP	CODICE - CODE	
	K83M...FOR-XP	K83M...FORY-XP
•	○	○
•	○	○
•	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading:  
Recommandé pour le taraudage rigide



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

• Standard

35

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

35

35

★ Solo a richiesta  
Only on request / Sur demande

**SYNCHRO RIGID**

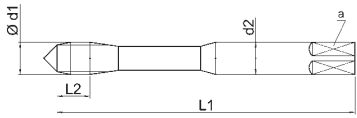
**MASCHIATURA RIGIDA SINCRONIZZATA**

Rigid Tapping Synchro - Taraudage rigide synchronisé

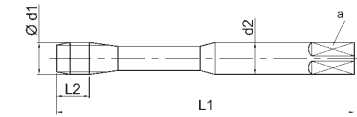
**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

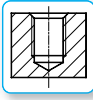
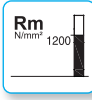
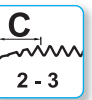
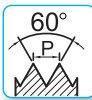
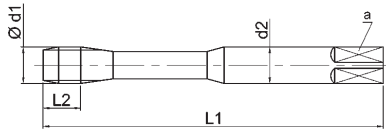
DIN 371



DIN 371



UFS norm



TOP



BT

R40°

TOP



BT

R40°

2,5xD

3xD

PM3

PM3

6HX

6HX

TXC

TXC

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

2.1 2.2 2.3 2.4 3.3 3.4

2.1 2.2 2.3 2.4 3.3 3.4

4.2 4.3 5.2

4.2 4.3 5.2

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h6	a h12	Z	
6	1	80	10	6	4,9	3	5	
8	1,25	90	13	8	6,2	3	6,8	
10	1,5	100	15	10	8	3	8,5	

CODICE - CODE	
S80M...TXC	S80M...FOR-TXC
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

UFS norm	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub> 10xP	d <sub>2</sub> h6	a h12	Z	
12	1,75	110	18	12	9	3	10,3	
14	2	110	20	12	9	3	12	
16	2	110	20	16	12	4	14	

CODICE - CODE	
S80M...TXC	S80M...FOR-TXC
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

RACCOMANDATO per filettatura rigida

We recommend Synchro rigid threading:



Recommandé pour le taraudage rigide

A richiesta:  
On request:  
Sur demande:  
Con **Weldon** DIN1835 B



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

35

35

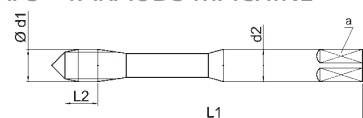
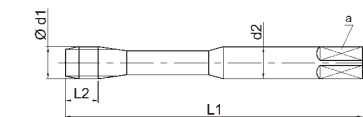
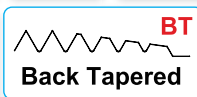
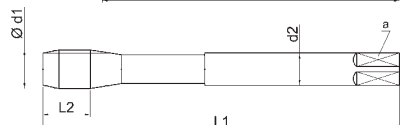
• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371DIN  
376

Back Tapered

top



BT

R25°

top



BT

R25°

top



BT

R25°

Profond. di filettatura - Thread depth - Profond. de filetage

2,5xD

2,5xD

3xD

Materiale - Material - Matériau

PM3

PM3

PM3

Tolleranza - Tolerance - Tolérance

6HX

6HX

6HX

Trattamento superficiale - Surface treatment - Revêtement

BR

TiCN

TiCN

Acciai legati trattati

Alloyed steel - tempered steel

Aciers alliés traités

Fusioni d'acciaio

Steel castings / Fusions d'acier

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.4 1.5

1.4 1.5

1.4 1.5

3.3 3.4

3.3 3.4

3.3 3.4

DIN	Ød1	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
371	M	mm			h9	h12		
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
	8	1,25	90	18	8	6,2	3	6,8
	10	1,5	100	20	10	8	3	8,5

DIN	Ød1	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
376	M	mm			h9	h12		
	12	1,75	110	25	9	7	4	10,3
	14	2	110	28	11	9	4	12
	16	2	110	28	12	9	4	14

CODICE - CODE		
K28M...	K28M...CT	K28M...FOR-CT
○	○	-
○	○	-
○	○	○
○	○	○
○	○	○

CODICE - CODE		
K29M...	K29M...CT	K29M...FOR-CT
○	○	○
*	*	*
○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

36

36

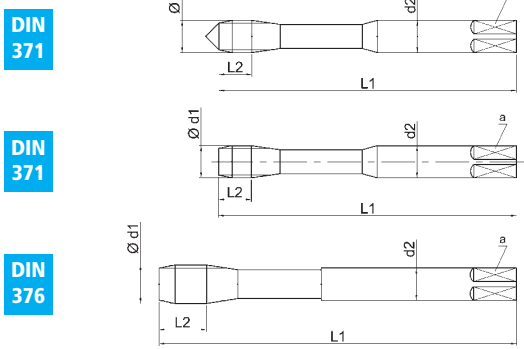
36

● Standard

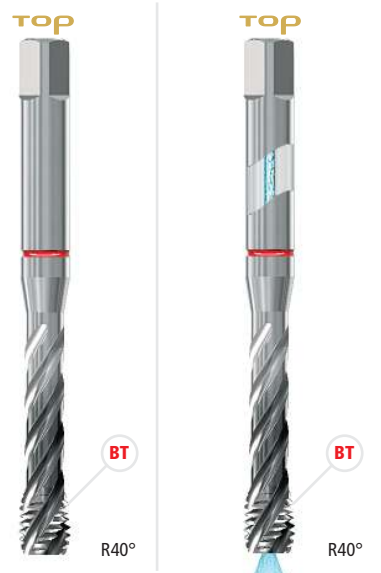
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**HR** **ALTA RESISTENZA**  
High Resistance - Haute Résistance

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



60° **Back Tapered**



Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

<b>2,5xD</b>	<b>3xD</b>
<b>PM3</b>	<b>PM3</b>
<b>6HX</b>	<b>6HX</b>
<b>TXC</b>	<b>TXC</b>
1.4 1.5	1.4 1.5
3.3 3.4	3.3 3.4

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

CODICE - CODE	
K80M...TXC	K80M...FOR-TXC
●	-
●	-
●	-
●	○
●	○
●	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	4	10,3
	14	2	110	20	11	9	4	12
	16	2	110	20	12	9	4	14

CODICE - CODE	
K81M...TXC	K81M...FOR-TXC
●	○
●	○
●	○

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading  
Recommandé pour le taraudage rigide

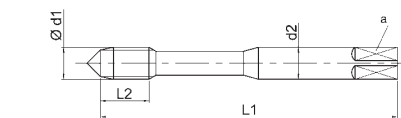
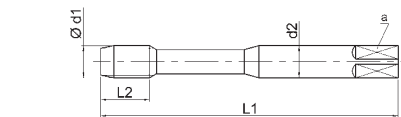
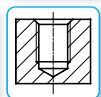
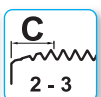
INOX

ACCIAIO INOSSIDABILE

Stainless steel - Acier inoxydable

## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371DIN  
376

LINE



IT

R48°

TOP



R48°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

3,5xD

3,5xD

HSSV3

HSSV3

6HX

6HX

V

TXC

2.1 2.2 2.3

1.3 1.4 1.5

2.1 2.2 2.3 2.4

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	5	3,5	2,7	3	2,5
◀	4	0,7	63	7	4,5	3,4	3	3,3
◀	5	0,8	70	8	6	4,9	3	4,2
◀	6	1	80	10	6	4,9	3	5
	8	1,25	90	13	8	6,2	3	6,8
	10	1,5	100	15	10	8	3	8,5

CODICE - CODE

E80M...X-V

V82M...TXC

○

●

○

●

○

●

○

●

○

●

○

●

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	18	9	7	3	10,3
	14	2	110	20	11	9	3	12
	16	2	110	20	12	9	4	14
	18	2,5	125	25	14	11	4	15,5
	20	2,5	140	25	16	12	4	17,5
	22	2,5	140	25	18	14,5	4	19,5
	24	3	160	30	18	14,5	4	21

CODICE - CODE

E81M...X-V

V83M...TXC

○

●

○

●

○

●

○

○

○

○

○

○

○

○

RACCOMANDATO  
per filettatura rigidaWe recommend  
Syncro rigid  
threadingRecommandé  
pour le  
taroudage rigideConfezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

37

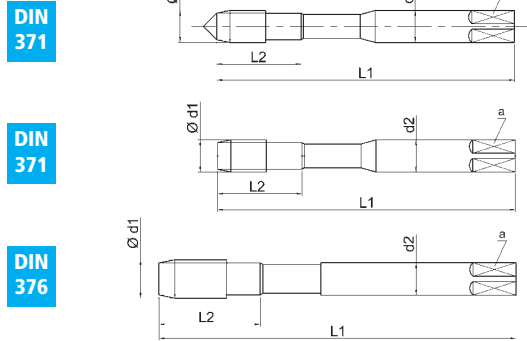
37

● Standard

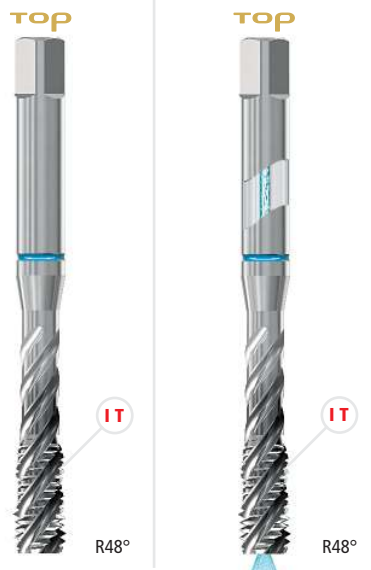
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

**INOX** ACCIAIO INOSSIDABILE  
 Stainless steel - Acier inoxydable

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE



60° P.M. RH C 2-3 Rm Nmm<sup>2</sup> 1200 INOX Tapered=IT SR



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3,5xD PM3 6HX TXC 1.3 1.4 1.5 2.1 2.2 2.3 2.4

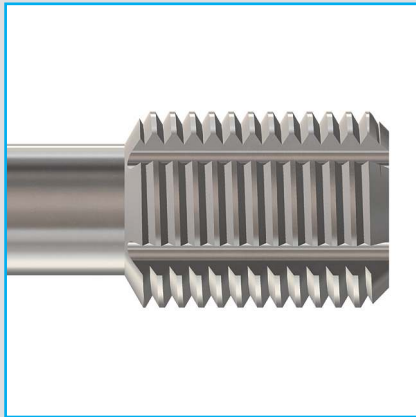
DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	3	2,5
◀	4	0,7	63	13	4,5	3,4	3	3,3
◀	5	0,8	70	13	6	4,9	3	4,2
◀	6	1	80	16	6	4,9	3	5
	8	1,25	90	18	8	6,2	3	6,8
	10	1,5	100	20	10	8	3	8,5

CODICE - CODE	
K82M...X-TXC	K82M...XFOR-TXC
○	-
○	-
○	-
○	○
○	○
○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	3	10,3
	14	2	110	28	11	9	3	12
	16	2	110	28	12	9	4	14

CODICE - CODE	
K83M...X-TXC	K83M...XFOR-TXC
○	○
○	○
○	○

RACCOMANDATO per filettatura rigida  
 We recommend Syncro rigid threading  
 Recommandé pour le taraudage rigide





# ROLL FORM TAPS













P - SERIES

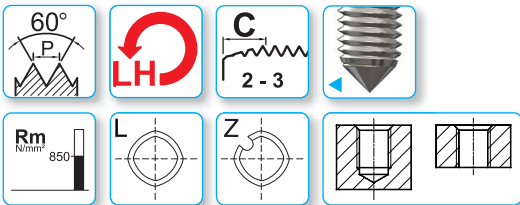
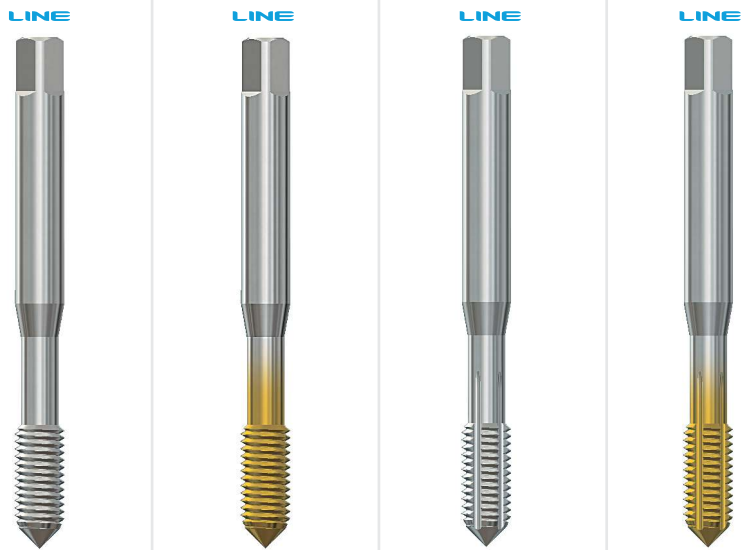
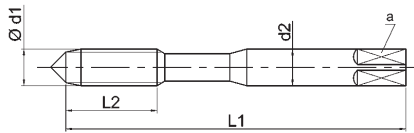
MASCHI A RULLARE

Roll form taps - Tarauds à refouler

MASCHI A MACCHINA, FILETTATURA SINISTRA

LEFT THREAD MACHINE TAPS - TARAUDS MACHINE GAUCHE

DIN 371



Profond. di filettatura - Thread depth - Profond. de filetage	3xD	3xD	3xD	3xD
Materiale - Material - Matériau	HSSP	HSSP	HSSP	HSSP
Tolleranza - Tolerance - Tolérance	6HX	6HX	6HX	6HX
Trattamento superficiale - Surface treatment - Revêtement	BR	TiN	BR	TiN
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3	1.1 1.2 1.3 1.4	1.1 1.2 1.3	1.1 1.2 1.3 1.4
	4.1 4.2	2.1 2.2 2.3	4.1 4.2	2.1 2.2 2.3
		4.1 4.2 4.3		4.1 4.2 4.3
		5.1 5.2		5.1 5.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	2	2,80
◀	4	0,7	63	13	4,5	3,4	4	3,70
◀	5	0,8	70	13	6	4,9	5	4,65
◀	6	1	80	16	6	4,9	5	5,55
◀	8	1,25	90	18	8	6,2	5	7,40
◀	10	1,5	100	20	10	8	5	9,30

CODICE - CODE			
P2SCM...LH	P2SCM...LH-T	P2CCM...LH	P2CCM...LH-T
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Le tre Linee Prodotto UFS: dallo standard HSSE fino al metallo duro integrale

The three UFS product lines: from the standard HssE to the solid carbide

Les trois gammes de UFS: à partir du standard HSSE jusqu'au Carbure

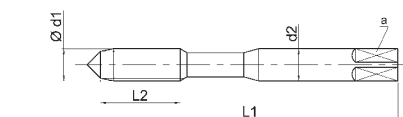
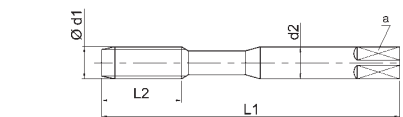
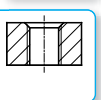
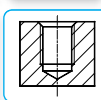
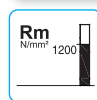
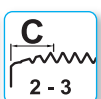
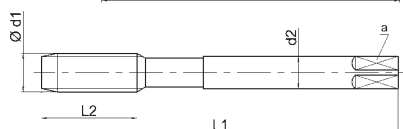


Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	40	40	40	40
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande	



## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371DIN  
376

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

TOP



TOP



TOP



TOP



3xD

3xD

3xD

3xD

PM3

PM3

PM3

PM3

6HX

6HX

6HX

6GX

CrN

TiN-G

TiCN

TiN-G

1.1 1.2

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

4.1 4.2 4.3

2.1 2.2 2.3 2.4

2.1 2.2 2.3 2.4

2.1 2.2 2.3 2.4

5.1 5.2

4.1 4.2 4.3

4.1 4.2 4.3

4.1 4.2 4.3

6.1

5.1 5.2 7.1 7.2

5.1 5.2 7.1 7.2

5.1 5.2 7.1 7.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
◀	3	0,5	56	10	3,5	2,7	-	2,80
◀	4	0,7	63	13	4,5	3,4	-	3,70
◀	5	0,8	70	13	6	4,9	-	4,65
◀	6	1	80	16	6	4,9	-	5,55
◀	8	1,25	90	18	8	6,2	-	7,40
◀	10	1,5	100	20	10	8	-	9,30
	8	1,25	90	18	8	6,2	-	7,40
	10	1,5	100	20	10	8	-	9,30

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h <sub>9</sub>	a h <sub>12</sub>	Z	
	12	1,75	110	25	9	7	-	11,20
	14	2	110	28	11	9	-	13,10
	16	2	110	28	12	9	-	15,10

CODICE - CODE

X2SCM...NC X2SCM...TG X2SCM...CT X3SCM...TG

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Novità / New / Nouveau

CrN

Per materiali morbidi e pastosi tipo Al-Cu-Fe

For soft materials Al-Cu-Fe

Pour les matériaux tendres et ductiles comme Al-Cu-Fe

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

40

40

41

41

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande

X - SERIES

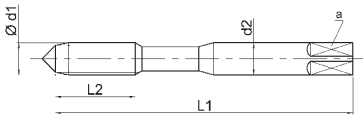
MASCHI A RULLARE

Roll form taps - Tarauds à refouler

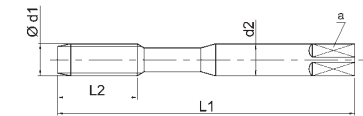
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

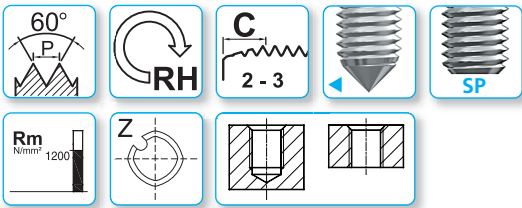
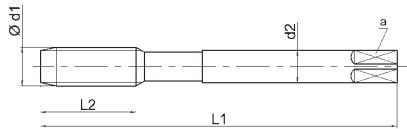
DIN 371



DIN 371



DIN 376



TOP



TOP



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD	3xD
PM3	PM3	PM3	PM3
6HX	6HX	6HX	6GX
CrN	TiN-G	TiCN	TiN-G
1.1 1.2	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
4.1 4.2 4.3	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4
5.1 5.2	4.1 4.2 4.3	4.1 4.2 4.3	4.1 4.2 4.3
6.1	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	2	2,80
◀	4	0,7	63	13	4,5	3,4	4	3,70
◀	5	0,8	70	13	6	4,9	5	4,65
◀	6	1	80	16	6	4,9	5	5,55
◀	8	1,25	90	18	8	6,2	5	7,40
◀	10	1,5	100	20	10	8	5	9,30
	8	1,25	90	18	8	6,2	5	7,40
	10	1,5	100	20	10	8	5	9,30

CODICE - CODE			
X2CCM...NC	X2CCM...TG	X2CCM...CT	X3CCM...TG
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
X2CCM ...SP-NC	X2CCM ...SP-TG	X2CCM ...SP-CT	X3CCM...SP-TG
○	○	○	○
○	○	○	○

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	5	11,20
	14	2	110	28	11	9	6	13,10
	16	2	110	28	12	9	6	15,10

CODICE - CODE			
X2CCM...NC	X2CCM...TG	X2CCM...CT	X3CCM...TG
○	○	○	○
○	○	○	○
○	○	○	○

**Novità / New / Nouveau**

**CrN**

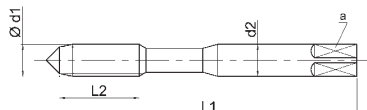
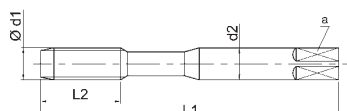
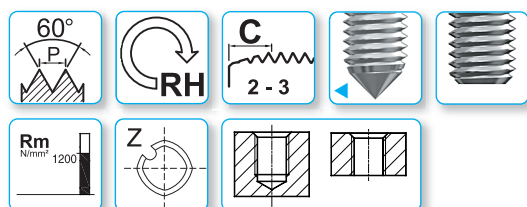
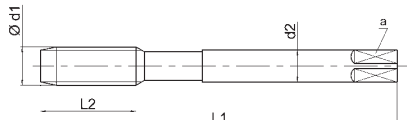
Per materiali morbidi e pastosi tipo Al-Cu-Fe

For soft materials Al-Cu-Fe

Pour les matériaux tendres et ductiles comme Al-Cu-Fe

## MASCHI A MACCHINA

## MACHINE TAPS - TARAUDS MACHINE

DIN  
371DIN  
371DIN  
376

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

TOP



TOP



TOP



3xD

3xD

3xD

PM3

PM3

PM3

6HX

6HX

6HX

TXC

TiN-G

TiN-G

1.1 1.2

1.1 1.2 1.3 1.4 1.5

1.1 1.2 1.3 1.4 1.5

4.1 4.2 4.3

2.1 2.2 2.3 2.4

2.1 2.2 2.3 2.4

5.1 5.2

4.1 4.2 4.3

4.1 4.2 4.3

5.1 5.2 7.1 7.2

5.1 5.2 7.1 7.2

DIN 371	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	56	10	3,5	2,7	2	2,80
◀	4	0,7	63	13	4,5	3,4	4	3,70
◀	5	0,8	70	13	6	4,9	5	4,65
◀	6	1	80	16	6	4,9	5	5,55
◀	8	1,25	90	18	8	6,2	5	7,40
◀	10	1,5	100	20	10	8	5	9,30
◀	6	1	80	16	6	4,9	5	5,55
	8	1,25	90	18	8	6,2	5	7,40
	10	1,5	100	20	10	8	5	9,30
◀	6	1	80	16	6	4,9	2	5,55
◀	8	1,25	90	18	8	6,2	2	7,40
◀	10	1,5	100	20	10	8	2	9,30

DIN 376	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1,75	110	25	9	7	5	11,20
	14	2	110	28	11	9	6	13,10
	16	2	110	28	12	9	6	15,10
	12	1,75	110	25	9	7	3	11,20
	14	2	110	28	11	9	3	13,10
	16	2	110	28	12	9	3	15,10

CODICE - CODE

X2CCM...TXC

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X2CCM...FOR-TG

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X2CCM...FORY-TG

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◊ 4L/Z2

◊ 4L/Z2

◊ 4L/Z2

CODICE - CODE

X2CCM...TXC

X2CCM...FOR-TG

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◊

◊

X2CCM...FORY-TG

-

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◊ 6L/Z3

◊ 6L/Z3

◊ 6L/Z3

N° lobi  
Lobes' Number / N° de LobesN° canalini / Oil grooves' Number  
N° de rainures de lubrifications

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

42

42

42

● Standard

◊ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier★ Solo a richiesta  
Only on request / Sur demande













Standard e speciale: sulle esigenze del cliente

*Standard and tailor-made special  
as customer requests*

*Standards et spéciaux : sur les exigences  
du client*

**FLEXIBILITY**





















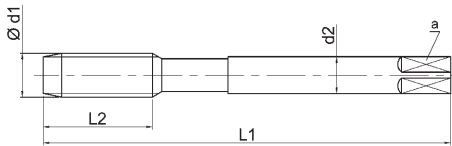


## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

MF

DIN 374



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

Materiale - Material - Matériau

HSSE

Tolleranza - Tolerance - Tolérance

ISO2/6H

Trattamento superficiale - Surface treatment - Revêtement

BR

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

8.2

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	36	1	170	30	28	22	5	35
	36	1,25	170	30	28	22	5	34,75
	36	1,5	170	30	28	22	5	34,5
	36	2	170	30	28	22	5	34
	36	3	200	50	28	22	4	33
	37	1	170	30	28	22	6	36
	37	1,5	170	30	28	22	6	35,5
	38	1	170	30	28	22	6	37
	38	1,5	170	30	28	22	6	36,5
	38	2	170	30	28	22	6	36
	38	3	200	50	28	22	4	35
	39	1	170	30	32	24	6	38
	39	1,5	170	30	32	24	6	37,5
	39	2	170	30	32	24	6	37
	39	3	200	50	32	24	4	36
	40	1	170	30	32	24	6	39
	40	1,5	170	30	32	24	6	38,5
	40	2	170	30	32	24	6	38
	40	3	200	50	32	24	5	37
	42	1	170	30	32	24	6	41
	42	1,5	170	30	32	24	6	40,5
	42	2	170	30	32	24	6	40
	42	3	200	55	32	24	5	39
	45	1	180	32	36	29	6	44
	45	1,5	180	32	36	29	6	43,5
	45	2	180	32	36	29	6	43
	45	3	200	50	36	29	5	42

■ = Acciaio HSS / HSS Steel / Acier HSS

CODICE - CODE

E21MF...

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Segue diametri  
Diameters, to be continued  
Diamètres à suivre

Pag. 91...92

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

45

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

N

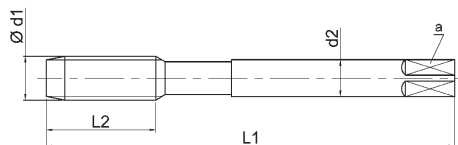
**USO GENERALE**

General purpose - Usage Général

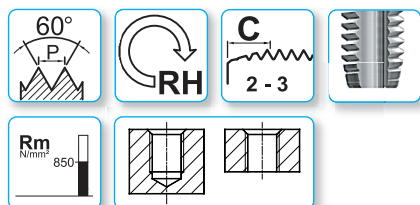
**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

~DIN 374



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

**1,5xD**

Materiale - Material - Matériau

**HSSE**

Tolleranza - Tolerance - Tolérance

**ISO2/6H**

Trattamento superficiale - Surface treatment - Revêtement

**BR**

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

8.2

~DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
■	48	1	190	32	36	29	6	47
■	48	1,5	190	32	36	29	6	46,5
■	48	2	190	32	36	29	6	46
■	*48	3	220	65	36	29	6	45
■	49	1,5	190	32	36	29	6	47,5
■	49	3	220	65	36	29	6	46
■	50	1	190	32	36	29	6	49
■	50	1,5	190	32	36	29	6	48,5
■	50	2	190	32	36	29	6	48
■	*50	3	220	65	36	29	6	47
■	52	1,5	190	32	40	32	6	50,5
■	52	2	190	32	40	32	6	50
■	*52	3	220	65	40	32	6	49
■	*54	1,5	190	32	40	32	6	52,5
■	*54	2	190	32	40	32	6	52
■	*55	1,5	190	32	40	32	6	53,5
■	*55	2	190	32	40	32	6	53
■	*55	3	220	65	40	32	6	52
■	*56	1,5	190	32	40	32	6	54,5
■	*56	2	190	32	40	32	6	54
■	*56	3	220	65	40	32	6	53
■	*56	4	220	65	40	32	6	52
■	*58	1,5	190	32	40	32	6	56,5
■	*58	2	190	32	40	32	6	56
■	*58	3	220	65	40	32	6	55

■ = Acciaio HSS / HSS Steel / Acier HSS

\* Dimensioni a norma UFS / Dimensions according UFS' norms / Dimensions selon norme UFS

CODICE - CODE

E21MF...

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Segue diametri  
Diameters, to be continued  
Diamètres à suivre

▶ Pag. 92

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

**45-46**

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

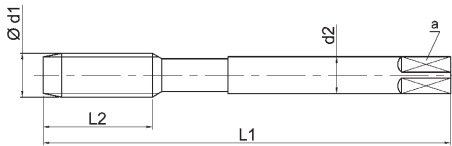
★ Solo a richiesta  
Only on request / Sur demande

## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

MF

UFS norm



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

Materiale - Material - Matériau

HSSE

Tolleranza - Tolerance - Tolérance

ISO2/6H

Trattamento superficiale - Surface treatment - Revêtement

BR

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

8.2

UFS norm	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
■	*60	1,5	190	32	45	35	6	58,5
■	*60	2	190	32	45	35	6	58
■	*60	3	220	65	45	35	6	57
■	*60	4	220	65	45	35	6	56
■	*62	1,5	190	32	50	39	6	60,5
■	*62	2	190	32	50	39	6	60
■	*63	1,5	190	32	50	39	6	61,5
■	*64	1,5	190	32	50	39	6	62,5
■	*64	2	190	32	50	39	6	62
■	*64	3	220	65	50	39	6	61
■	*64	4	220	65	50	39	6	60

CODICE - CODE

E21MF...

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■ = Acciaio HSS / HSS Steel / Acier HSS

\* Dimensioni a norma UFS / Dimensions according UFS' norms / Dimensions selon norme UFS

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

46

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande















**HR**

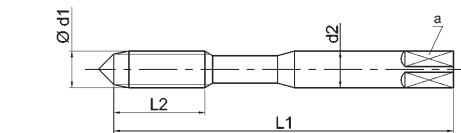
**ALTA RESISTENZA**

**High Resistance - Haute Résistance**

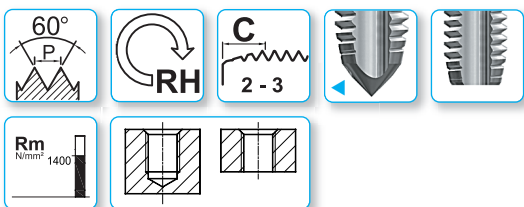
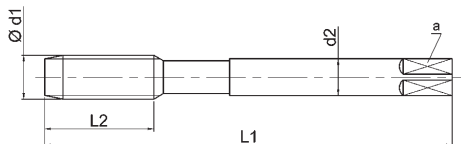
**MASCHI A MACCHINA**

**MACHINE TAPS - TARAUDS MACHINE**

**DIN 371**



**DIN 374**



**TOP**



≤ 45HRC

**TOP**



**TOP**



**TOP**



**New**

**METALLO DURO INTEGRALE - ALTA RESISTENZA**  
Solid carbide, high resistance - Carbure, haute résistance

**MF**

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Ghisa / Cast iron / Fonte  
Al Si>10%  
Ottone / Brass / Laiton  
Bronzo / Bronze / Bronze  
truciolo corto / short chip / coupeaux courts

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

**2xD**

**PM3**

**6HX**

**TXC**

1.5	1.6
4.3	4.4
4.5	4.6
5.3	5.4
8.2	8.3
10.1	

**3,5xD**

**PM3**

**ISO2/6H**

**TXC**

1.3	1.4	1.5	1.6
3.1	3.2	3.3	3.4
3.5			
4.3	4.4	4.5	4.6
5.3	5.4		
8.2	8.3	10.1	

**3,5xD**

**PM3**

**ISO2/6H**

**TXC**

1.3	1.4	1.5	1.6
3.1	3.2	3.3	3.4
3.5			
4.3	4.4	4.5	4.6
5.3	5.4		
8.2	8.3	10.1	

**3,5xD**

**MDI-HM**

**6HX**

**BR**

3.1	3.2	3.3	3.4	3.5
4.3	4.4	4.5	4.6	
5.3	5.4	8.2	8.3	
10.1				

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	Icon
	8	1	90	18	8	6,2	-	7
	10	1	100	20	10	8	-	9
	10	1,25	100	20	10	8	-	8,75

CODICE - CODE

\*HM20MF...FOR

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	Icon
	8	1	90	18	6	4,9	4	7
	10	1	90	15	7	5,5	4	9
	10	1,25	100	20	7	5,5	4	8,75
	12	1,25	100	22	9	7	4	10,75
	12	1,5	100	22	9	7	4	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5
	12	1,5	100	22	9	7	3	10,5
	14	1,5	100	22	11	9	3	12,5
	16	1,5	100	22	12	9	3	14,5
	18	1,5	110	25	14	11	3	16,5
	20	1,5	125	25	16	12	3	18,5
	22	1,5	125	25	18	14,5	3	20,5
	24	1,5	140	25	18	14,5	4	22,5

CODICE - CODE

K21MF...TXC

\*HM21MF...FOR

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K23MF...FOR-TXC

K23MF...FOR-TXC

\*A richiesta rivestimento:  
On request coating:  
Sur demande revêtement:

**TiCN**

Confezione / Box / Colis:  
M3 - M12: 5 pezzi / pcs  
>M12: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

● Standard

**48**

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

**49**

★ Solo a richiesta

Only on request / Sur demande

**49**

**49**

# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de roscar a máquina



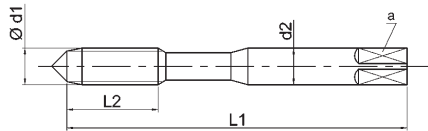
**N** **USO GENERALE**  
 General purpose - Usage Général

### MASCHI A MACCHINA

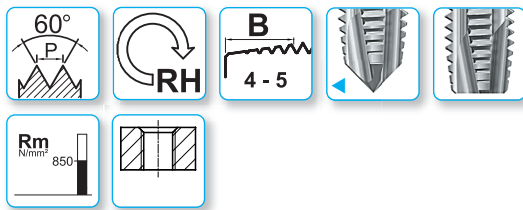
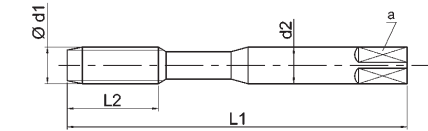
#### MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 371



Profond. di filettatura - Thread depth - Profond. de filetage	3xD	3xD	3xD	3xD
Materiale - Material - Matériau	HSSE	HSSE	HSSE	HSSE
Tolleranza - Tolerance - Tolérance	ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
Trattamento superficiale - Surface treatment - Revêtement	BR	V	TiN	TXC
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
	4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
	5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
4	0,5	63	13	4,5	3,4	3	3,5	
5	0,5	70	13	6	4,9	3	4,5	
6	0,75	80	16	6	4,9	3	5,25	
7	0,75	80	16	7	5,5	3	6,25	
8	0,75	90	18	8	6,2	3	7,25	
8	1	90	18	8	6,2	3	7	
9	1	90	18	9	7	3	8	
10	0,75	90	15	10	8	3	9,25	
10	1	90	15	10	8	3	9	
10	1,25	100	20	10	8	3	8,75	

E24MF...	CODICE - CODE		
	E24MF...V	E24MF...T	E24MF...TXC
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
●	●	○	○
○	○	○	○
○	○	○	○
●	●	○	○
●	●	○	○

Segue diametri  
 Diameters, to be continued  
 Diamètres à suivre ▶ Pag. 101...103

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	<b>49</b>	<b>49</b>	<b>49</b>	<b>49</b>
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande	









# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de roscar a máquina



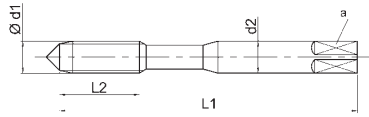
**N** **USO GENERALE**  
 General purpose - Usage Général

### MASCHI A MACCHINA, FILETTATURA SINISTRA

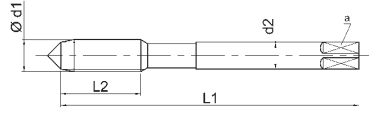
#### LEFT THREAD MACHINE TAPS - TARAUDS MACHINE GAUCHE

MF

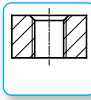
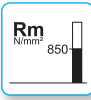
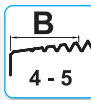
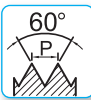
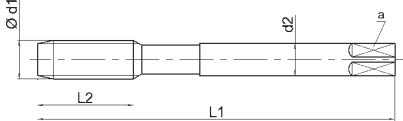
DIN 371



DIN 374



DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage

3xD

3xD

Materiale - Material - Matériau

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

6H

6H

Trattamento superficiale - Surface treatment - Revêtement

BR

TiN

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

4.1 4.2

3.3 3.4

5.1 5.2

4.1 4.2 4.3

5.1 5.2

DIN	Ød1	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
371	MF	mm			h9	h12		
◀	8	1	90	18	8	6,2	3	7
◀	10	1	90	15	10	8	3	9
◀	10	1,25	100	20	10	8	3	8,75

CODICE - CODE	
E24MF...LH	E24MF...LH-T
○	○
○	○
○	○

DIN	Ød1	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
374	MF	mm			h9	h12		
◀	8	1	90	18	6	4,9	3	7
◀	10	1	90	15	7	5,5	3	9
◀	10	1,25	100	20	7	5,5	3	8,75
	12	1,25	100	22	9	7	3	10,75
	12	1,5	100	22	9	7	3	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5

CODICE - CODE	
E25MF...LH	E25MF...LH-T
○	○
○	○
○	○
○	○
○	○
○	○
○	○

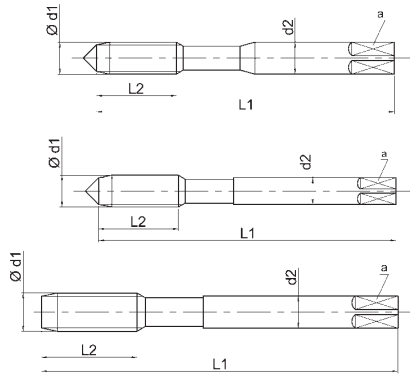
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

DIN 371

DIN 374

DIN 374

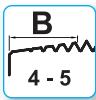
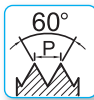


LINE

LINE

LINE

LINE



Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO1/4H	ISO3/6G	7G(6H+0,05)	6H+0,1
BR	BR	BR	BR
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	4.1 4.2	4.1 4.2
5.1 5.2	5.1 5.2	5.1 5.2	5.1 5.2

DIN 371	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
◀	8	1	90	18	8	6,2	3	7
◀	10	1	90	15	10	8	3	9
◀	10	1,25	100	20	10	8	3	8,75

CODICE - CODE			
E24MF...-4H	E24MF...-6G	E24MF...-7G	E24MF...+0,1
*	*	*	*
*	*	*	*
*	*	*	*

DIN 374	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
◀	8	1	90	18	6	4,9	3	7
◀	10	1	90	15	7	5,5	3	9
◀	10	1,25	100	20	7	5,5	3	8,75
	12	1,25	100	22	9	7	3	10,75
	12	1,5	100	22	9	7	3	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5

CODICE - CODE			
E25MF...-4H	E25MF...-6G	E25MF...-7G	E25MF...+0,1
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○
○	●	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier

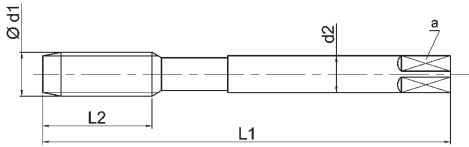
★ Solo a richiesta Only on request / Sur demande



**N** USO GENERALE  $R \leq 1000N/mm^2$   
 General purpose  $R \leq 1000N/mm^2$  - Usage Général  $R \leq 1000N/mm^2$

MASCHI A MACCHINA  
 MACHINE TAPS - TARAUDS MACHINE

DIN 374



60° P.V. RH B 4-5  
 Rm N/mm² 1000 850 8%Co

Profond. di filettatura - Thread depth - Profond. de filetage	3xD	3xD	3xD	3xD
Materiale - Material - Matériau	HSSP	HSSP	HSSP	HSSP
Tolleranza - Tolerance - Tolérance	6H	6H	6H	6H
Trattamento superficiale - Surface treatment - Revêtement	BR	V	TiN	TiCN
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4 4.1 4.2 5.1 5.2	1.1 1.2 1.3 1.4 4.1 4.2 5.1 5.2 6.1 7.1	1.1 1.2 1.3 1.4 1.5 3.3 3.4 4.1 4.2 4.3 5.1 5.2	1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.3 3.4 4.2 4.3 5.2

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	8	1	90	18	6	4,9	3	7
	10	1	90	15	7	5,5	3	9
	10	1,25	100	20	7	5,5	3	8,75
	12	1,25	100	22	9	7	4	10,75
	12	1,5	100	22	9	7	4	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5
	18	1,5	110	25	14	11	4	16,5
	20	1,5	125	25	16	12	4	18,5

P25MF...	CODICE - CODE		
	P25MF...V	P25MF...T	P25MF...CT
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○













Ti

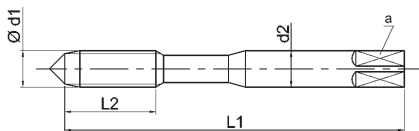
TITANIO

Titanium - Titane

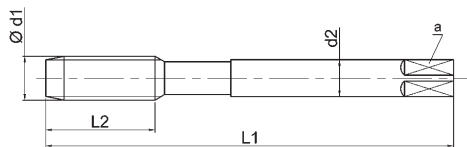
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



TOP



L15°

TOP



L15°

TOP



New



L15°

60° P.V. RH D 4-5 Rm Nimm 1400 AVIO

Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD
PM3	PM3	PM3
6HX	6HX	4H
V	TiCN	V
6.1	1.6 2.4	6.1
	3.3 3.4	
	4.4 5.3 5.4 6.2 6.3	
	7.2 9.2	

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	⚡
◀	8	1	90	18	8	6,2	3	*7
◀	10	1	100	20	10	8	3	*9
◀	10	1,25	100	20	10	8	3	*8,75

CODICE - CODE		
K52MF...V	K52MF...CT	*K52MJF...V
○	○	○
○	○	○
○	○	○

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	⚡
	12	1,25	100	22	9	7	3	*10,75
	12	1,5	100	22	9	7	3	*10,5
	14	1,5	100	22	11	9	3	*12,5
	16	1,5	100	22	12	9	3	*14,5

CODICE - CODE		
K53MF...V	K53MF...CT	*K53MJF...V
○	○	○
○	○	○
○	○	○
○	○	○

\* Per MJ vedi tabella di foratura pag. 252  
 \* Drills' diameters for MJ: table page 252  
 \* Pour MJ voir le tableau de perçage page 252

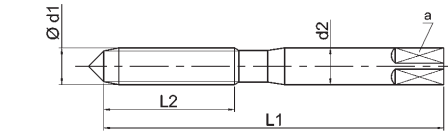
\* Rivestimento TiCN a richiesta  
 \* TiCN coating on request  
 \* Revêtement TiCN sur demande

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	55	56	56
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			★ Solo a richiesta Only on request / Sur demande

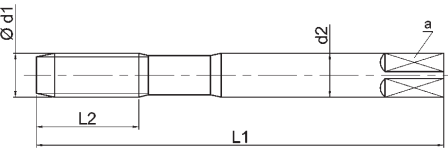
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

UFS norm



UFS norm



TOP



L10°

TOP



L10°

TOP



L10°

Profond. di filettatura - Thread depth - Profond. de filetage

3xD

3xD

3xD

Materiale - Material - Matériau

PM3

PM3

PM3

Tolleranza - Tolerance - Tolérance

6HX

6HX

4HX

Trattamento superficiale - Surface treatment - Revêtement

BR

TiCN

BR

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

7.3 9.3

1.6 5.4

7.3 9.3

UFS norm	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	8	1	90	25	8	6,2	3	*7
◀	10	1	100	30	10	8	3	*9
◀	10	1,25	100	30	10	8	3	*8,75
	12	1,25	110	30	12	9	3	*10,75
	12	1,5	110	30	12	9	3	*10,5
	14	1,5	110	30	12	9	3	*12,5
	16	1,5	110	30	16	12	3	*12,5

K52MF...NI	CODICE - CODE	
	K52MF...NI-CT	K52MF...NI-4HX
○	○	*
○	○	*
○	○	*
○	○	*
○	○	*
○	○	*
○	○	*

\* Per MJ vedi tabella di foratura pag. 252  
 \* Drills' diameters for MJ: table page 252  
 \* Pour MJ voir le tableau de perçage page 252











N

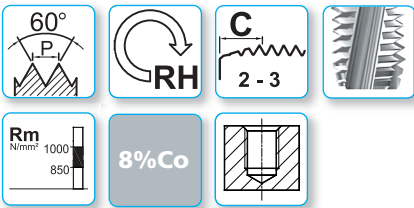
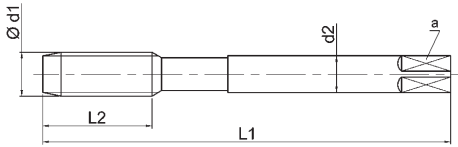
USO GENERALE R ≤ 1000N/mm²

General purpose R ≤ 1000N/mm² - Usage Général R ≤ 1000N/mm²

MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.5xD	1.5xD	1.5xD	1.5xD
HSSP	HSSP	HSSP	HSSP
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	V	TiN	TiCN
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
4.1 4.2	4.1 4.2	3.3 3.4 4.1 4.2 4.3	3.3 3.4 4.2 4.3
5.1 5.2	5.1 5.2	5.1 5.2	5.2
	6.1 7.1		

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	8	1	90	18	6	4,9	3	7
	10	1	90	15	7	5,5	3	9
	10	1,25	100	20	7	5,5	3	8,75
	12	1,25	100	22	9	7	4	10,75
	12	1,5	100	22	9	7	4	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5
	18	1,5	110	25	14	11	4	16,5
	20	1,5	125	25	16	12	4	18,5

CODICE - CODE			
P41MF...	P41MF... V	P41MF... T	P41MF... CT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Le tre Linee Prodotto UFS:  
dallo standard HSSE fino al metallo duro integrale

The three UFS product lines:  
from the standard HssE to the solid carbide

Les trois gammes de UFS:  
à partir du standard HSSE jusqu'au Carbure



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

58

58

58

58

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de roscar a máquina



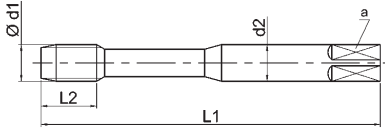
**Ti** **TITANIO**  
 Titanium - Titane

### MASCHI A MACCHINA

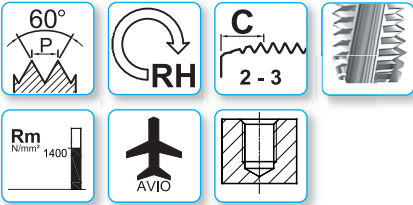
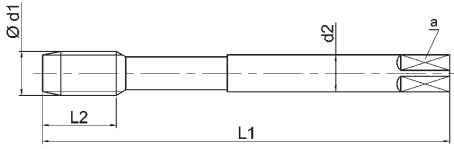
MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 374



TOP



R15°

TOP



R15°

TOP



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1,5xD	1,5xD	1,5xD
PM3	PM3	PM3
6HX	6HX	4H
V	TiCN	V
6.1	1.6 2.4	6.1
	3.3 3.4	
	4.4 5.3 5.4 6.2 6.3	
	7.2 9.2	

DIN 371	$\varnothing d1$	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
MF	mm	mm	mm	mm	h9	h12		
8	1	90	13	8	6,2	3	*7	
10	1	100	15	10	8	3	*9	
10	1,25	100	15	10	8	3	*8,75	

CODICE - CODE		
K42MF...V	K42MF...CT	*K42MJF...V
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DIN 374	$\varnothing d1$	P	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
MF	mm	mm	mm	mm	h9	h12		
12	1,25	100	13	9	7	4	*10,75	
12	1,5	100	13	9	7	4	*10,5	
14	1,5	100	15	11	9	4	*12,5	
16	1,5	100	15	12	9	4	*14,5	

CODICE - CODE		
K43MF...V	K43MF...CT	*K43MJF...V
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Per MJ vedi tabella di foratura pag. 252  
 \* Drills' diameters for MJ: table page 252  
 \* Pour MJ voir le tableau de perçage page 252

\* Rivestimento TiCN a richiesta  
 \* TiCN coating on request  
 \* Revêtement TiCN sur demande

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	59	59	59
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	○	○	○ Solo a richiesta Only on request / Sur demande



# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de rosca a máquina



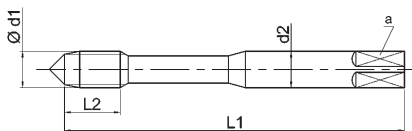
**N** **USO GENERALE**  
 General purpose - Usage Général

### MASCHI A MACCHINA

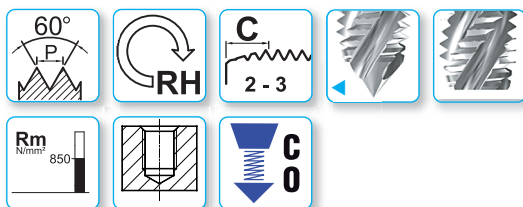
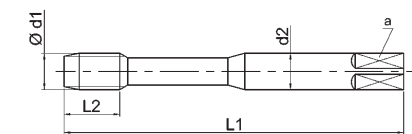
#### MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 371



LINE



R40°

LINE



R40°

LINE



R40°

LINE



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

2,5xD	2,5xD	2,5xD	2,5xD
HSSE	HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	V	TiN	TXC
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
		5.1 5.2	5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	0,5	63	7	4,5	3,4	3	3,5
◀	5	0,5	70	8	6	4,9	3	4,5
◀	6	0,75	80	10	6	4,9	3	5,25
	8	0,75	90	13	8	6,2	3	7,25
	8	1	90	13	8	6,2	3	7
	10	1	90	15	10	8	3	9
	10	1,25	100	15	10	8	3	8,75

E60MF...	CODICE - CODE			E60MF...TXC
	E60MF...V	E60MF...T		
○	○	○	○	
○	○	○	○	
●	○	○	●	
○	○	○	○	
●	○	○	●	
●	○	○	●	
●	○	○	●	

Segue diametri  
 Diameters, to be continued  
 Diamètres à suivre

▶ Pag. 123...126

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	59	59	59	60
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			★ Solo a richiesta Only on request / Sur demande	











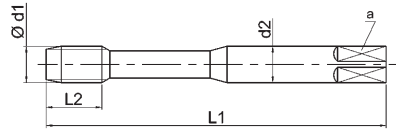


## MASCHI A MACCHINA, FILETTATURA SINISTRA

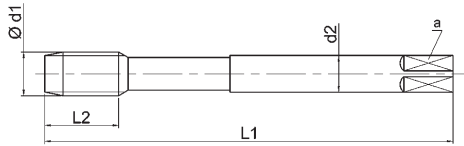
### LEFT THREAD MACHINE TAPS - TARAUDS MACHINE GAUCHE

MF

DIN 371



DIN 374



LINE



L 35°

LINE



L 35°

LINE



L 35°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

2,5xD

HSSE

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

2,5xD

HSSE

ISO2/6H

V

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

2,5xD

HSSE

ISO2/6H

XP

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
8	1	90	13	8	6,2	3	7	
10	1	90	15	10	8	3	9	
10	1,25	100	15	10	8	3	8,75	

CODICE - CODE		
E60MF...LH	E60MF...LH-V	E60MF...LH-XP
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
8	1	90	13	6	4,9	3	7	
10	1	90	15	7	5,5	3	9	
10	1,25	100	15	7	5,5	3	8,75	
12	1,25	100	13	9	7	3	10,75	
12	1,5	100	13	9	7	3	10,5	
14	1,5	100	15	11	9	4	12,5	
16	1,5	100	15	12	9	4	14,5	

CODICE - CODE		
E61MF...LH	E61MF...LH-V	E61MF...LH-XP
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

63

63

63

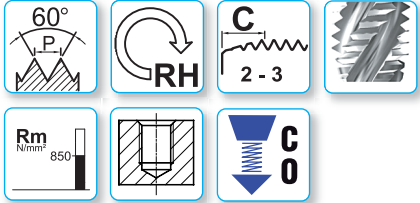
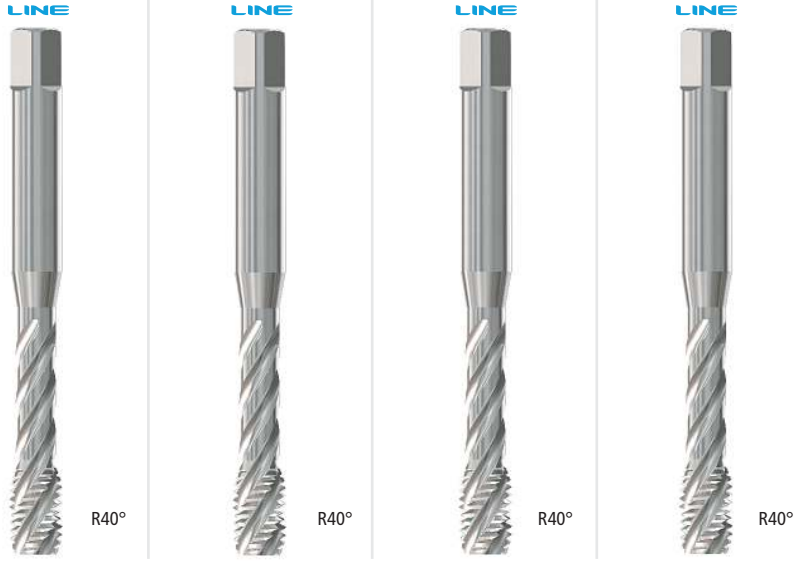
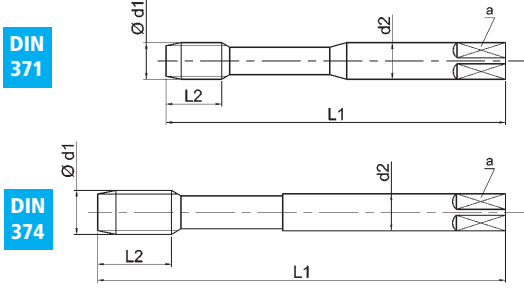
• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage	2,5xD	2,5xD	2,5xD	2,5xD
Materiale - Material - Matériau	HSSE	HSSE	HSSE	HSSE
Tolleranza - Tolerance - Tolérance	ISO1/4H	ISO3/6G	7G(6H+0,05)	6H+0,1
Trattamento superficiale - Surface treatment - Revêtement	BR	BR	BR	BR
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
	4.1 4.2	4.1 4.2	4.1 4.2	4.1 4.2
	5.1 5.2	5.1 5.2	5.1 5.2	5.1 5.2

DIN 371	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
8	1	90	13	8	6,2	3	7	
10	1	90	15	10	8	3	9	
10	1,25	100	15	10	8	3	8,75	

CODICE - CODE			
E60MF...-4H	E60MF...-6G	E60MF...-7G	E60MF...+0,1
*	*	*	*
*	*	*	*
*	*	*	*

DIN 374	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
8	1	90	13	6	4,9	3	7	
10	1	90	15	7	5,5	3	9	
10	1,25	100	15	7	5,5	3	8,75	
12	1,25	100	13	9	7	3	10,75	
12	1,5	100	13	9	7	3	10,5	
14	1,5	100	15	11	9	4	12,5	
16	1,5	100	15	12	9	4	14,5	

CODICE - CODE			
E61MF...-4H	E61MF...-6G	E61MF...-7G	E61MF...+0,1
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○





N

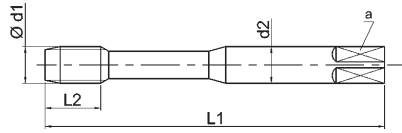
USO GENERALE R ≤ 1000N/mm²

General purpose R ≤ 1000N/mm² - Usage Général R ≤ 1000N/mm²

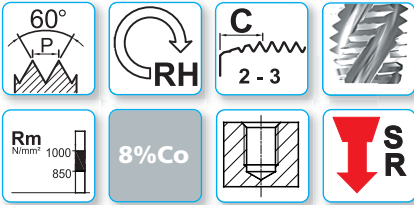
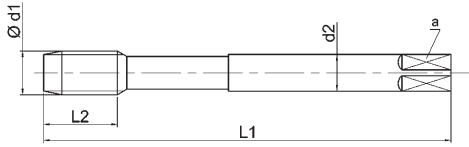
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



R40°



R40°



R40°



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

2,5xD

HSSP

ISO2/6H

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

2,5xD

HSSP

ISO2/6H

V

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

2,5xD

HSSP

ISO2/6H

TiN

1.1 1.2 1.3 1.4 1.5

3.3 3.4 4.1 4.2 4.3

5.1 5.2

2,5xD

HSSP

ISO2/6H

XP

1.1 1.2 1.3 1.4 1.5

2.1 2.2

3.3 3.4 4.2 4.3

5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
8	1	90	13	8	6,2	3	7	
10	1	90	15	10	8	3	9	
10	1,25	100	15	10	8	3	8,75	

CODICE - CODE			
P60MF...	P60MF...V	P60MF...T	P60MF...XP
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
8	1	90	13	6	4,9	3	7	
10	1	90	15	7	5,5	3	9	
10	1,25	100	15	7	5,5	3	8,75	
12	1	100	13	9	7	4	11	
12	1,25	100	13	9	7	4	10,75	
12	1,5	100	13	9	7	4	10,5	
14	1,5	100	15	11	9	4	12,5	
16	1,5	100	15	12	9	4	14,5	
18	1,5	110	17	14	11	4	16,5	
20	1,5	125	17	16	12	4	18,5	

CODICE - CODE			
P61MF...	P61MF...V	P61MF...T	P61MF...XP
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading  
Recommandé pour le taraudage rigide



Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

64

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

64

★ Solo a richiesta  
Only on request / Sur demande

64

64

# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de rosca a máquina



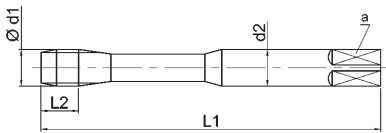
**N** **USO GENERALE**  
 General purpose - Usage Général

### MASCHI A MACCHINA

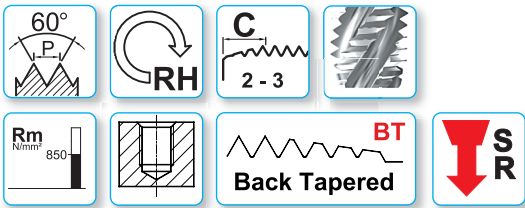
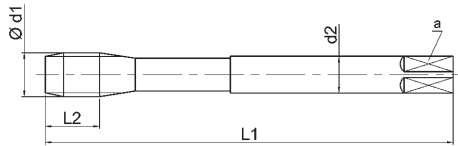
MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage	2,5÷3xD	2,5÷3xD	2,5÷3xD	2,5÷3xD
Materiale - Material - Matériau	HSSE	HSSE	HSSE	HSSE
Tolleranza - Tolerance - Tolérance	ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
Trattamento superficiale - Surface treatment - Revêtement	BR	V	TiN	XP
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
	5.1 5.2	2.1 2.2	5.1 5.2	2.1 2.2
		5.1 5.2		5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	8	1	90	13	8	6,2	3	7
	10	1	90	15	10	8	3	9
	10	1,25	100	15	10	8	3	8,75

CODICE - CODE			
E80MF...	E80MF...V	E80MF...T	E80MF...XP
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	8	1	90	13	6	4,9	3	7
	10	1	90	15	7	5,5	3	9
	10	1,25	100	15	7	5,5	3	8,75
	12	1	100	13	9	7	3	11
	12	1,25	100	13	9	7	3	10,75
	12	1,5	100	13	9	7	3	10,5
	14	1,5	100	15	11	9	4	12,5
	16	1,5	100	15	12	9	4	14,5
	18	1,5	110	17	14	11	4	16,5
	20	1,5	125	17	16	12	4	18,5

CODICE - CODE			
E81MF...	E81MF...V	E81MF...T	E81MF...XP
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

RACCOMANDATO per filettatura rigida  
 We recommend Syncro rigid threading  
 Recommandé pour le taraudage rigide

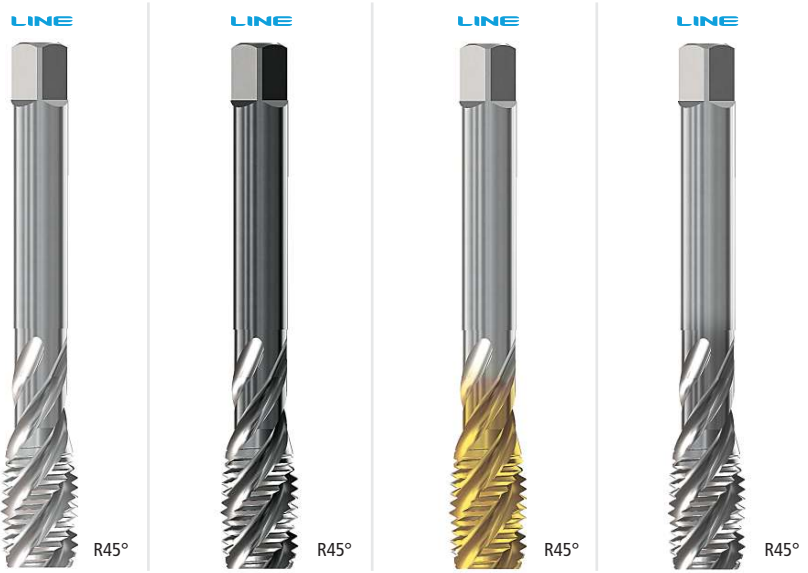
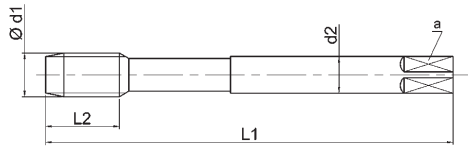


Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	64	64	64	64
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	○	○	○	○
			★ Solo a richiesta Only on request / Sur demande		

**N** USO GENERALE  
General purpose - Usage Général

MASCHI A MACCHINA  
MACHINE TAPS - TARAUDS MACHINE

DIN 374



60° P.V. RH C 2-3 Rm 850 SR

Profond. di filettatura - Thread depth - Profond. de filetage  
Materiale - Material - Matériau  
Tolleranza - Tolerance - Tolérance  
Trattamento superficiale - Surface treatment - Revêtement  
Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.2 5.2	2.1 2.2	4.2 5.2	2.1 2.2
	4.2 5.2		4.2 5.2

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
8	1	90	13	6	4,9	3	7	
10	1	90	15	7	5,5	3	9	
10	1,25	100	15	7	5,5	3	8,75	
12	1	100	13	9	7	4	11	
12	1,25	100	13	9	7	4	10,75	
12	1,5	100	13	9	7	4	10,5	
14	1,5	100	15	11	9	4	12,5	
16	1,5	100	15	12	9	4	14,5	
18	1,5	110	17	14	11	4	16,5	
20	1,5	125	17	16	12	4	18,5	

CODICE - CODE			
E83MF...	E83MF...V	E83MF...T	E83MF...XP
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

AD ESAURIMENTO SCORTE  
UNTIL STOCK LAST  
JUSQU' AU DERNIER DE STOCKS

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading  
Recommandé pour le taraudage rigide



Versione ad alto rendimento in PM3 pagina seguente.  
High performance PM3 edition in following page.  
Version haut performance en PM3 page suivante.

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	65	65	65	65
	• Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande	









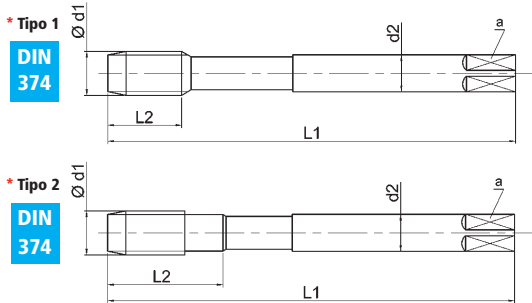
INOX

ACCIAIO INOSSIDABILE

Stainless steel - Acier inoxydable

MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE



TOP



Tipo 1  
R48°

TOP



Tipo 2  
R48°

TOP



Tipo 2  
R48°

60° P.V. RH C 2-3 Rm Nimm 1200 ONLY FOR TYPE 2 SR

Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3,5xD	3,5xD	3,5xD
HSSV3	PM3	PM3
6HX	6HX	6HX
TXC	TXC	TXC
1.3 1.4 1.5	1.3 1.4 1.5	1.3 1.4 1.5
2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4

DIN 374	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	Z
	8	1	90	13	6	4,9	3	7
	10	1	90	15	7	5,5	3	9
	10	1,25	100	15	7	5,5	3	8,75
	12	1	100	13	9	7	4	11
	12	1,25	100	13	9	7	4	10,75
	12	1,5	100	13	9	7	4	10,5
	14	1,5	100	15	11	9	4	12,5
	16	1,5	100	15	12	9	4	14,5
	18	1,5	110	17	14	11	4	16,5
	20	1,5	125	17	16	12	4	18,5
	22	1,5	125	18	18	14,5	4	20,5
	24	1,5	140	20	18	14,5	4	22,5
	8	1	90	18	6	4,9	3	7
	10	1	90	15	7	5,5	3	9
	10	1,25	100	20	7	5,5	3	8,75
	12	1	100	22	9	7	4	11
	12	1,25	100	22	9	7	4	10,75
	12	1,5	100	22	9	7	4	10,5
	14	1,5	100	22	11	9	4	12,5
	16	1,5	100	22	12	9	4	14,5

\* Tipo 1: Non rastremato / Not tapered / Sans Détalonnage  
 \* Tipo 2: Rastremato secondo dis:  
 Back tapered according picture / Détalonnage selon dessin:

CODICE - CODE		
V83MF...TXC		
•		
○		
•		
○		
•		
•		
•		
○		
○		
○		
○		
K83MF...X-TXC	K83MF...XFOR-TXC	
○	○	
○	○	
○	○	
○	○	
○	○	
○	○	
○	○	
○	○	
○	○	
○	○	

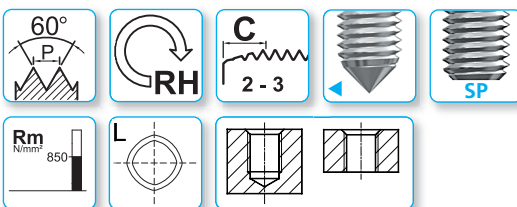
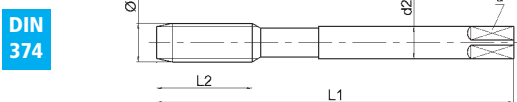
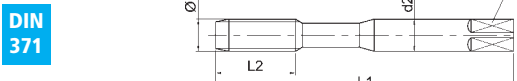
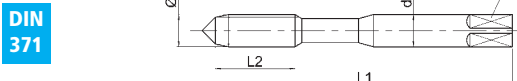
RACCOMANDATO per filettatura rigida  
 We recommend Syncro rigid threading  
 Recommandé pour le taraudage rigide

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	66	66	66
	• Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande

**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

MF



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD
HSSP	HSSP	HSSP
6HX	6HX	6HX
BR	V	TiN
1.1 1.2 1.3	1.1 1.2	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	2.1 2.2 2.3
	5.1 5.2	4.1 4.2 4.3
		5.1 5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	0,5	63	13	4,5	3,4	-	3,80
◀	5	0,5	70	13	6	4,9	-	4,80
◀	6	0,75	80	16	6	4,9	-	5,65
◀	8	0,75	90	18	8	6,2	-	7,65
◀	8	1	90	18	8	6,2	-	7,55
◀	10	1	90	15	10	8	-	9,55
◀	10	1,25	100	20	10	8	-	9,40
	8	1	90	18	8	6,2	-	7,55
	10	1	90	15	10	8	-	9,55
	10	1,25	100	20	10	8	-	9,40

CODICE - CODE		
P2SCMF...	P2SCMF...V	P2SCMF...T
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
●	○	○
●	○	○
●	○	○
P2SCMF...SP	P2SCMF...SP-V	P2SCMF...SP-T
○	○	○
○	○	○
○	○	○

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1	100	22	9	7	-	11,55
	12	1,25	100	22	9	7	-	11,40
	12	1,5	100	22	9	7	-	11,30
	14	1,25	100	22	11	9	-	13,45
	14	1,5	100	22	11	9	-	13,30
	16	1,5	100	22	12	9	-	15,30

CODICE - CODE		
P2SCMF...	P2SCMF...V	P2SCMF...T
○	○	○
○	○	○
●	○	○
●	○	○
○	○	○
○	○	○
●	○	○
●	○	○

Confezione / Box / Colis:  
 M3 – M10: 10 pezzi / pcs  
 M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

66

○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

67

67

★ Solo a richiesta  
 Only on request / Sur demande







# MF Filettatura metrica ISO passo fine DIN 13

## ISO metric fine thread DIN13

Metrisches ISO-Feingewinde DIN 13 – Maschinengewindebohrer  
 Filetage métrique ISO à pas fin DIN 13 – Tarauds machine  
 Rosca ISO métrica fina DIN 13 – Machos de rosca a máquina



P - SERIES

MASCHI A RULLARE

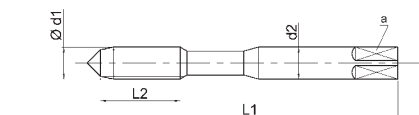
Roll form taps - Tarauds à refolder

### MASCHI A MACCHINA

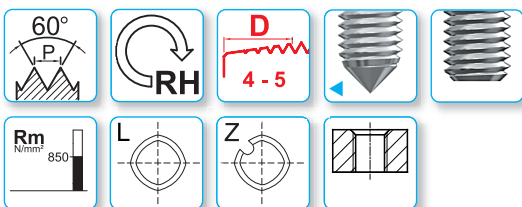
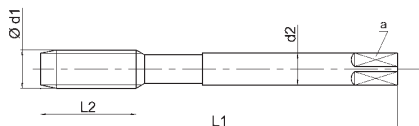
MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 374



LINE



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSP	HSSP	HSSP	HSSP
6HX	6HX	6HX	6HX
BR	TiN	BR	TiN
1.1 1.2 1.3	1.1 1.2 1.3 1.4	1.1 1.2 1.3	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 2.3	4.1 4.2	2.1 2.2 2.3
	4.1 4.2 4.3		4.1 4.2 4.3
	5.1 5.2		5.1 5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	8	1	90	18	8	6,2	5	7,55
◀	10	1	90	15	10	8	5	9,55
◀	10	1,25	100	20	10	8	5	9,40

CODICE - CODE			
P2SCMF...FP	P2SCMF...FP-T	P2CCMF...FP	P2CCMF...FP-T
*	*	*	*
*	*	*	*
*	*	*	*

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1	100	22	9	7	6	11,55
	12	1,5	100	22	9	7	6	11,30
	14	1,5	100	22	11	9	6	13,30
	16	1,5	100	22	12	9	6	15,30
	18	1,5	110	25	14	11	6	17,30
	20	1,5	125	25	16	12	8	19,30

CODICE - CODE			
P2SCMF...FP	P2SCMF...FP-T	P2CCMF...FP	P2CCMF...FP-T
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

Confezione / Box / Colis:  
 M3 – M10: 10 pezzi / pcs  
 M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

69

69

69

69

● Standard

○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande

P - SERIES

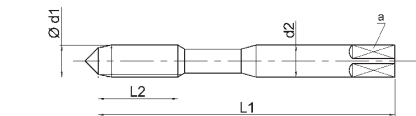
MASCHI A RULLARE

Roll form taps - Tarauds à refouler

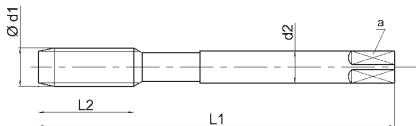
MASCHI A MACCHINA, FILETTATURA SINISTRA

LEFT THREAD MACHINE TAPS - TARAUDS MACHINE GAUCHE

DIN 371



DIN 374



LINE



LINE



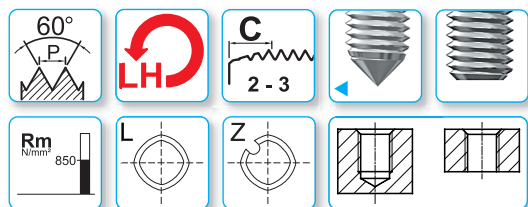
LINE



LINE



MF



Profond. di filettatura - Thread depth - Profond. de filetage	3xD
Materiale - Material - Matériau	HSSP
Tolleranza - Tolerance - Tolérance	6HX
Trattamento superficiale - Surface treatment - Revêtement	BR / TiN
Numero gruppi materiali - Material's groups number - Nombre de groupes du matériau	1.1 1.2 1.3 / 1.1 1.2 1.3 1.4 / 1.1 1.2 1.3 / 1.1 1.2 1.3 1.4
	4.1 4.2 / 2.1 2.2 2.3 / 4.1 4.2 / 2.1 2.2 2.3
	4.1 4.2 4.3 / 4.1 4.2 4.3
	5.1 5.2 / 5.1 5.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	8	1	90	18	8	6,2	5	7,55
◀	10	1	90	15	10	8	5	9,55
◀	10	1,25	100	20	10	8	5	9,40

CODICE - CODE			
P2SCMF...LH	P2SCMF...LH-T	P2CCMF...LH	P2CCMF...LH-T
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1	100	22	9	7	6	11,55
	12	1,5	100	22	9	7	6	11,30
	14	1,5	100	22	11	9	6	13,30
	16	1,5	100	22	12	9	6	15,30
	18	1,5	110	25	14	11	6	17,30
	20	1,5	125	25	16	12	8	19,30

CODICE - CODE			
P2SCMF...LH	P2SCMF...LH-T	P2CCMF...LH	P2CCMF...LH-T
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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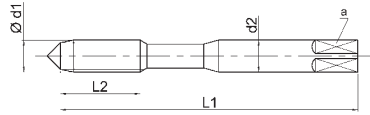


MASCHI A MACCHINA

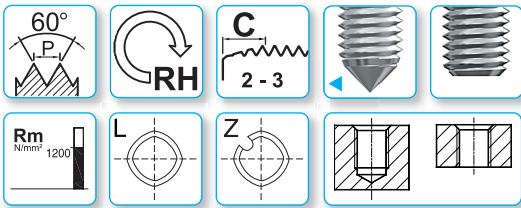
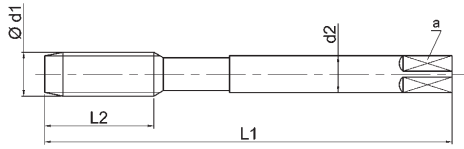
MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

TOP



TOP



TOP



TOP



3xD	3xD	3xD	3xD
PM3	PM3	PM3	PM3
6HX	6GX	6HX	6GX
TiN-G	TiN-G	TiN-G	TiN-G
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4
4.1 4.2 4.3	4.1 4.2 4.3	4.1 4.2 4.3	4.1 4.2 4.3
5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	0,5	63	13	4,5	3,4	4	3,75
◀	5	0,5	70	13	6	4,9	5	4,75
◀	6	0,75	80	16	6	4,9	5	5,65
◀	8	1	90	18	8	6,2	5	7,55
◀	10	1	90	15	10	8	5	9,55
◀	10	1,25	100	20	10	8	5	9,45

CODICE - CODE			
X2SCMF...TG	X3SCMF...TG	X2CCMF...TG	X3CCMF...TG
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1	100	22	9	7	6	11,55
	12	1,25	100	22	9	7	6	11,45
	12	1,5	100	22	9	7	6	11,30
	14	1,25	100	22	11	9	6	13,45
	14	1,5	100	22	11	9	6	13,30
	16	1,5	100	22	12	9	6	15,30

CODICE - CODE			
X2SCMF...TG	X3SCMF...TG	X2CCMF...TG	X3CCMF...TG
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	70	70	70	70
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			★ Solo a richiesta Only on request / Sur demande	

X - SERIES

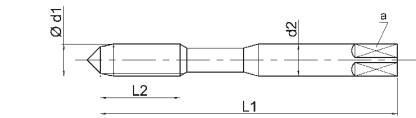
MASCHI A RULLARE

Roll form taps - Tarauds à refouler

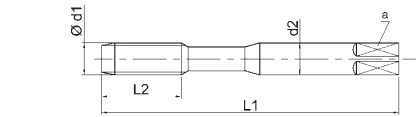
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

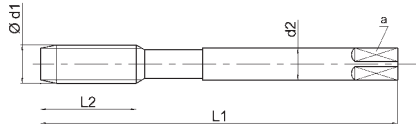
DIN 371



DIN 371



DIN 374



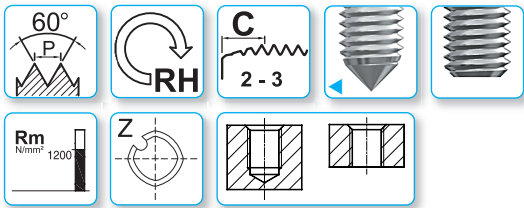
TOP



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD
PM3	PM3	PM3
6HX	6HX	6HX
TXC	TiN-G	TiN-G
1.1 1.2	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
4.1 4.2 4.3	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4
5.1 5.2	4.1 4.2 4.3	4.1 4.2 4.3
	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2

DIN 371	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
◀	8	1	90	18	8	6,2	5	7,55
◀	10	1	90	15	10	8	5	9,55
◀	10	1,25	100	20	10	8	5	9,45
	8	1	90	18	8	6,2	5	7,55
	10	1	90	15	10	8	5	9,55
	10	1,25	100	20	10	8	5	9,45
◀	8	1	90	18	8	6,2	2	7,55
◀	10	1	90	15	10	8	2	9,55
◀	10	1,25	100	20	10	8	2	9,45

CODICE - CODE		
X2CCMF...TXC		
○		
○		
○		
	X2CCMF...FOR-TG	
-	○	
-	○	
-	○	
		X2CCMF...FORY-TG
-	-	○ 4L/Z2
-	-	○ 4L/Z2
-	-	○ 4L/Z2

DIN 374	Ød1 MF	P mm	L1	L2	d2 h9	a h12	Z	
	12	1	100	22	9	7	6	11,55
	12	1,25	100	22	9	7	6	11,45
	12	1,5	100	22	9	7	6	11,30
	14	1,5	100	22	11	9	6	13,30
	16	1,5	100	22	12	9	6	15,30
	12	1	100	22	9	7	3	11,55
	12	1,25	100	22	9	7	3	11,45
	12	1,5	100	22	9	7	3	11,30
	14	1,5	100	22	11	9	3	13,30
	16	1,5	100	22	12	9	3	15,30

CODICE - CODE		
X2CCMF...TXC	X2CCMF...FOR-TG	
○	○	
○	○	
○	○	
○	○	
○	○	
		X2CCMF...FORY-TG
-	-	○ 6L/Z3
-	-	○ 6L/Z3
-	-	○ 6L/Z3
-	-	○ 6L/Z3
-	-	○ 6L/Z3

Confezione / Box / Colis: M3 – M10: 10 pezzi / pcs M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

● Standard

○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier

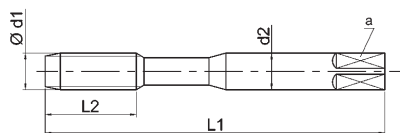
★ Solo a richiesta Only on request / Sur demande

**MASCHI A MACCHINA**

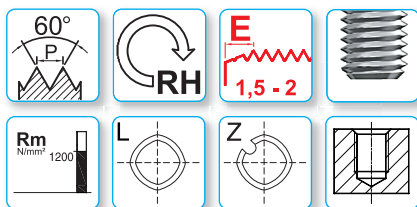
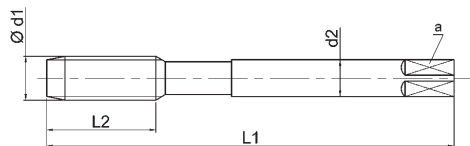
MACHINE TAPS - TARAUDS MACHINE

MF

DIN 371



DIN 374



TOP



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

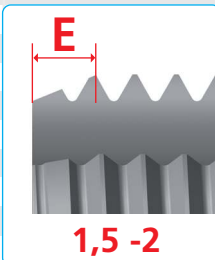
3xD	3xD	3xD
PM3	PM3	PM3
6HX	6HX	6HX
<b>TiN-G</b>	<b>TiN-G</b>	<b>TiN-G</b>
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4
4.1 4.2 4.3	4.1 4.2 4.3	4.1 4.2 4.3
5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2

DIN 371	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	8	1	90	18	8	6,2	5	7,55
	10	1	90	15	10	8	5	9,55
	10	1,25	100	20	10	8	5	9,45

CODICE - CODE		
X2SCEMF...TG	X2CCEMF...TG	X2CCEMF...FOR-TG
○	○	○
○	○	○
○	○	○

DIN 374	Ød1 MF	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	12	1	100	22	9	7	6	11,55
	12	1,25	100	22	9	7	6	11,45
	12	1,5	100	22	9	7	6	11,30
	14	1,5	100	22	11	9	6	13,30
	16	1,5	100	22	12	9	6	15,30

CODICE - CODE		
X2SCEMF...TG	X2CCEMF...TG	X2CCEMF...FOR-TG
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○



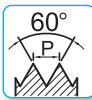
UNI 5870 - ISO 1502

LINE

**Calibri a tampone filettati passa / non passa**

Thread plug gauges go/no-go

Calibres de filetage entre/n'entre pas



Tolleranza - Tolerance - Tolérance

**6H**

Trattamento superficiale - Surface treatment - Revêtement

**BR**

Ød1 MF	P mm	CODICE - CODE P-NPMF...
4	0,5	○
5	0,5	○
6	0,75	○
7	0,75	○
8	0,75	○
8	1	○
9	1	○
10	0,75	○
10	1	○
10	1,25	○
12	1	○
12	1,25	○
12	1,5	○
14	1	○
14	1,25	○
14	1,5	○
16	1	○
16	1,5	○
18	1	○
18	1,5	○
18	2	○
20	1	○
20	1,5	○
20	2	○
22	1	○
22	1,5	○
24	1	○
24	1,5	○
24	2	○
25	1	○
25	1,5	○
25	2	○
26	1,5	○
26	2	○

Segue diametri  
Diameters, to be continued / Diamètres à suivre ▶ Pag. 148

## CALIBRI FILETTATI

### THREAD GAUGES - CALIBRES DE FILETAGE

UNI 5870 - ISO 1502

### Calibri a tampone filettati passa / non passa

Thread plug gauges go/no-go

Calibres de filetage entre/n'entre pas



Tolleranza - Tolerance - Tolérance

**6H**

Trattamento superficiale - Surface treatment - Revêtement

**BR**

Ød1 MF	P mm	CODICE - CODE P-NPMF...
27	1	○
27	1,5	○
28	1,5	○
28	2	○
30	1	○
30	1,5	○
30	2	○
32	1	○
32	1,5	○
32	2	○
33	2	○
35	1,5	○
35	2	○
36	1,5	○
36	2	○
36	3	○
38	1,5	○
39	2	○
40	1,5	○
40	2	○
40	3	○
42	1,5	○
42	2	○
42	3	○
45	1,5	○
45	2	○
45	3	○
48	1,5	○
48	2	○
48	3	○
50	1,5	○
50	2	○
50	3	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

**108**

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

UNC

UNC



Partner certo per collaborazioni serie e durature  
*Partner for a reliable and lasting cooperation*  
*Partenaire fiable pour des collaborations durables*

DURABLE









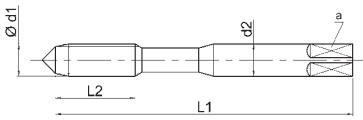




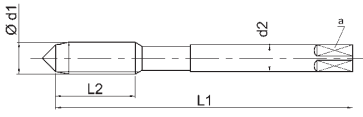
**N** **USO GENERALE**  
 General purpose

**MASCHI A MACCHINA MACHINE TAPS**

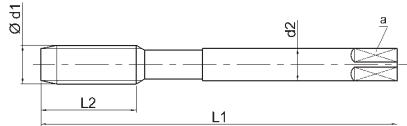
**DIN 371**



**DIN 376**



**DIN 376**



LINE



LINE



LINE



LINE



UNC

Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
2B	2B	2B	2B
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
	6.1 7.1	5.1 5.2	5.2

DIN 371	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	32	3,505	56	11	4	3	3	2,85
◀	8	32	4,166	63	13	4,5	3,4	3	3,5
◀	10	24	4,826	70	13	6	4,9	3	3,9
◀	12	24	5,486	80	16	6	4,9	3	4,5
◀	1/4	20	6,350	80	16	7	5,5	3	5,1
◀	5/16	18	7,938	90	18	8	6,2	3	6,6
◀	3/8	16	9,525	100	20	10	8	3	8

CODICE - CODE			
E24UNC...	E24UNC...V	E24UNC...T	E24UNC...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○

DIN 376	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	20	6,350	80	16	4,5	3,4	3	5,1
◀	5/16	18	7,938	90	18	6	4,9	3	6,6
◀	3/8	16	9,525	100	20	7	5,5	3	8
	7/16	14	11,113	100	20	8	6,2	3	9,4
	1/2	13	12,700	110	25	9	7	3	10,8
	9/16	12	14,288	110	28	11	9	3	12,2
	5/8	11	15,875	110	28	12	9	3	13,5
	3/4	10	19,050	125	32	14	11	4	16,5
	7/8	9	22,225	140	32	18	14,5	4	19,5
	1"	8	25,400	160	36	18	14,5	4	22,25
	1 1/8	7	28,575	180	46	22	18	4	25
	1 1/4	7	31,750	180	46	22	18	4	28
	1 3/8	6	34,925	200	50	28	22	4	30,75
	1 1/2	6	38,100	200	50	28	22	4	34
■	1 3/4	5	44,450	220	60	36	29	5	39,5
■	2"	4 1/2	50,800	250	65	40	32	5	45

CODICE - CODE			
E25UNC...	E25UNC...V	E25UNC...T	E25UNC...XP
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

■ = Acciaio HSS / HSS Steel / Acier HSS  
 Confezione / Box / Colis:  
 6 – 7/16: 10 pezzi / pcs  
 1/2 – 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

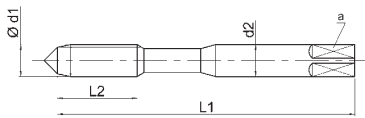
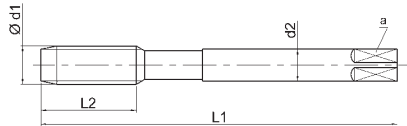
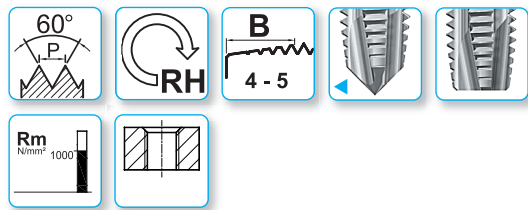
€ Pag. listino - Price list - Liste des prix

74	74	74	74
• Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	★ Solo a richiesta Only on request / Sur demande	



**INOX ACCIAIO INOSSIDABILE**  
 Stainless steel - Acier inoxydable

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

**DIN 371**

**DIN 376**

**TOP**


Profond. di filettatura - Thread depth - Profond. de filetage **3xD**

Materiale - Material - Matériau **HSSV3**

Tolleranza - Tolerance - Tolérance **2BX**

Trattamento superficiale - Surface treatment - Revêtement **TXC**

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1.3 1.4 1.5  
2.1 2.2 2.3 2.4

DIN 371	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	32	3,505	56	11	4	3	3	2,85
◀	8	32	4,166	63	13	4,5	3,4	3	3,5
◀	10	24	4,826	70	13	6	4,9	3	3,9
◀	1/4	20	6,350	80	16	7	5,5	3	5,1
◀	5/16	18	7,938	90	18	8	6,2	3	6,6
◀	3/8	16	9,525	100	20	10	8	3	8

CODICE - CODE	
V24UNC...TXC	
○	
○	
○	
○	
○	
○	

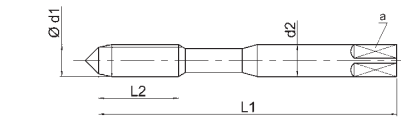
DIN 376	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	7/16	14	11,113	100	20	8	6,2	3	9,4
	1/2	13	12,700	110	25	9	7	4	10,8
	9/16	12	14,288	110	28	11	9	4	12,2
	5/8	11	15,875	110	28	12	9	4	13,5
	3/4	10	19,050	125	32	14	11	4	16,5
	7/8	9	22,225	140	32	18	14,5	4	19,5
	1"	8	25,400	160	36	18	14,5	4	22,25

CODICE - CODE	
V25UNC...TXC	
○	
○	
○	
○	
○	
○	

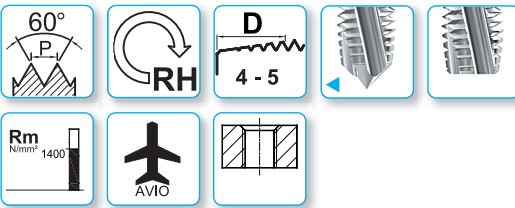
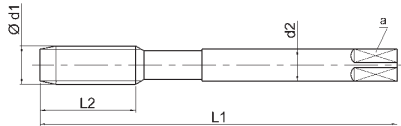
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

TOP



L15°

TOP



L15°

TOP



L15°

3xD	3xD	3xD
PM3	PM3	PM3
2BX	2BX	3BX
V	TiCN	V
6.1	1.6 2.4	6.1
	3.3 3.4	
	4.4 5.3 5.4 6.2 6.3	
	7.2 9.2	

DIN 371	$\varnothing d1$ UNC	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
◀	6	32	3,505	56	11	4	3	3	*2,85
◀	8	32	4,166	63	13	4,5	3,4	3	*3,5
◀	10	24	4,826	70	13	6	4,9	3	*3,9
◀	1/4	20	6,350	80	16	7	5,5	3	*5,1
◀	5/16	18	7,938	90	18	8	6,2	3	*6,6
◀	3/8	16	9,525	100	20	10	8	3	*8

CODICE - CODE		
K52UNC...V	K52UNC...CT	K52UNC...V-3BX
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

DIN 376	$\varnothing d1$ UNC	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
new	7/16	14	11,113	100	20	8	6,2	3	*9,4
	1/2	13	12,700	110	25	9	7	3	*10,8
	5/8	11	15,875	110	28	12	9	3	*13,5
	3/4	10	19,050	125	32	14	11	4	*16,5

CODICE - CODE		
K53UNC...V	K53UNC...CT	K53UNC...V-3BX
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

\* Per UNJC vedi tabella di foratura pag. 254  
 \* Drills' diameters for UNJC: table page 254  
 \* Pour UNJC voir le tableau de perçage page 254

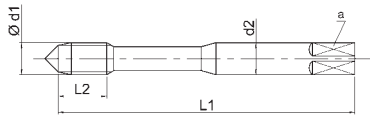




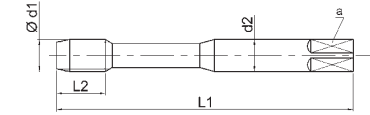
### MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

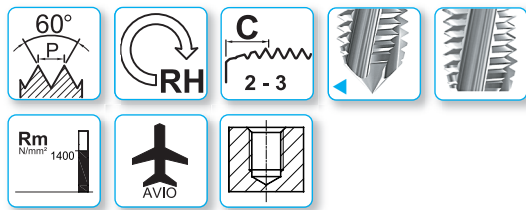
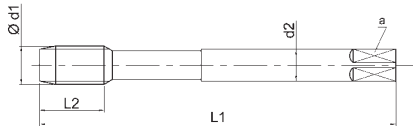
DIN 371



DIN 371



DIN 376



TOP



R15°

TOP



R15°

TOP



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1,5xD	1,5xD	1,5xD
PM3	PM3	PM3
2BX	2BX	3BX
V	TiCN	V
6.1	1.6 2.4	6.1
	3.3 3.4	
	4.4 5.3 5.4 6.2 6.3	
	7.2 9.2	

DIN 371	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
6	32	3,505	56	7	4	3	3	*2,85	
8	32	4,166	63	7	4,5	3,4	3	*3,5	
10	24	4,826	70	8	6	4,9	3	*3,9	
1/4	20	6,350	80	10	7	5,5	3	*5,1	
5/16	18	7,938	90	13	8	6,2	3	*6,6	
3/8	16	9,525	100	15	10	8	3	*8	

CODICE - CODE		
K42UNC...V	K42UNC...CT	K42UNC...V-3BX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DIN 376	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
new 7/16	14	11,113	100	15	8	6,2	4	*9,4	
1/2	13	12,700	110	18	9	7	4	*10,8	
5/8	11	15,875	110	20	12	9	4	*13,5	
3/4	10	19,050	125	25	14	11	4	*16,5	

CODICE - CODE		
K43UNC...V	K43UNC...CT	K43UNC...V-3BX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Per UNJC vedi tabella di foratura pag. 254  
 \* Drills' diameters for UNJC: table page 254  
 \* Pour UNJC voir le tableau de perçage page 254

Confezione / Box / Colis:  
 6 - 7/16: 10 pezzi / pcs  
 1/2 - 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

77

77

77

● Standard

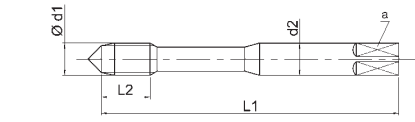
○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande

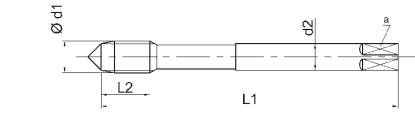
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

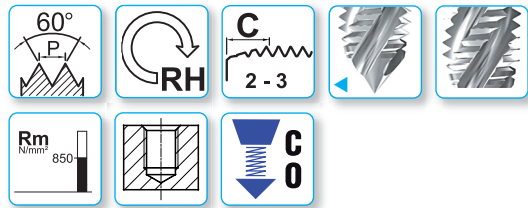
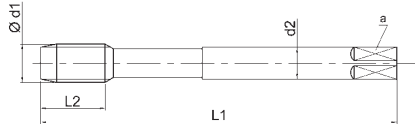
**DIN 371**



**DIN 376**



**DIN 376**



R40°



R40°



R40°



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

**2,5xD**

**2,5xD**

**2,5xD**

**2,5xD**

Materiale - Material - Matériau

**HSSE**

**HSSE**

**HSSE**

**HSSE**

Tolleranza - Tolerance - Tolérance

**2B**

**2B**

**2B**

**2B**

Trattamento superficiale - Surface treatment - Revêtement

**BR**

**V**

**TiN**

**XP**

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

5.1 5.2

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	32	3,505	56	7	4	3	3	2,85
◀	8	32	4,166	63	7	4,5	3,4	3	3,5
◀	10	24	4,826	70	8	6	4,9	3	3,9
◀	12	24	5,486	80	10	6	4,9	3	4,5
◀	1/4	20	6,350	80	10	7	5,5	3	5,1
	5/16	18	7,938	90	13	8	6,2	3	6,6
	3/8	16	9,525	100	15	10	8	3	8

CODICE - CODE			
E60UNC...	E60UNC...V	E60UNC...T	E60UNC...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○

DIN 376	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	20	6,350	80	10	4,5	3,4	3	5,1
	5/16	18	7,938	90	13	6	4,9	3	6,6
	3/8	16	9,525	100	15	7	5,5	3	8
	7/16	14	11,113	100	15	8	6,2	3	9,4
	1/2	13	12,700	110	18	9	7	3	10,8
	9/16	12	14,288	110	20	11	9	4	12,2
	5/8	11	15,875	110	20	12	9	4	13,5
	3/4	10	19,050	125	25	14	11	4	16,5
	7/8	9	22,225	140	25	18	14,5	4	19,5
	1"	8	25,400	160	30	18	14,5	4	22,25
	1" 1/8	7	28,575	180	35	22	18	4	25
	1" 1/4	7	31,750	180	35	22	18	4	28
	1" 3/8	6	34,925	200	40	28	22	4	30,75
	1" 1/2	6	38,100	200	40	28	22	4	34
■	1" 3/4	5	44,450	220	50	36	29	5	39,5
■	2"	4 1/2	50,800	250	55	40	32	5	45

CODICE - CODE			
E61UNC...	E61UNC...V	E61UNC...T	E61UNC...XP
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
6 - 7/16: 10 pezzi / pcs  
1/2 - 9/16: 5 pezzi / pcs  
>9/16: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**77**

**78**

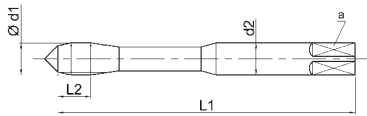
**78**

**78**

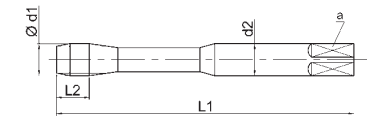
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

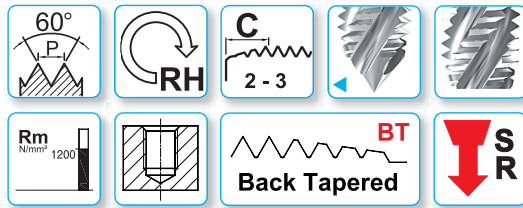
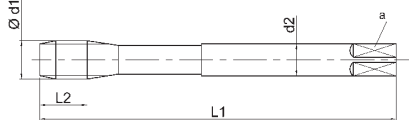
DIN 371



DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 371	$\varnothing d_1$ UNC	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
◀	4	40	2,845	56	5	3,5	2,7	3	2,35
◀	5	40	3,175	56	5	3,5	2,7	3	2,65
◀	6	32	3,505	56	7	4	3	3	2,85
◀	8	32	4,166	63	7	4,5	3,4	3	3,5
◀	10	24	4,826	70	8	6	4,9	3	3,9
◀	1/4	20	6,350	80	10	7	5,5	3	5,1
	5/16	18	7,938	90	13	8	6,2	3	6,6
	3/8	16	9,525	100	15	10	8	3	8

DIN 376	$\varnothing d_1$ UNC	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
	7/16	14	11,113	100	15	8	6,2	3	9,4
	1/2	13	12,700	110	18	9	7	4	10,8
	9/16	12	14,288	110	20	11	9	4	12,2
	5/8	11	15,875	110	20	12	9	4	13,5
	3/4	10	19,050	125	25	14	11	4	16,5
	7/8	9	22,225	140	25	18	14,5	4	19,5
	1"	8	25,400	160	30	18	14,5	4	22,25

Confezione / Box / Colis:  
 6 – 7/16: 10 pezzi / pcs  
 1/2 – 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

● Standard

79

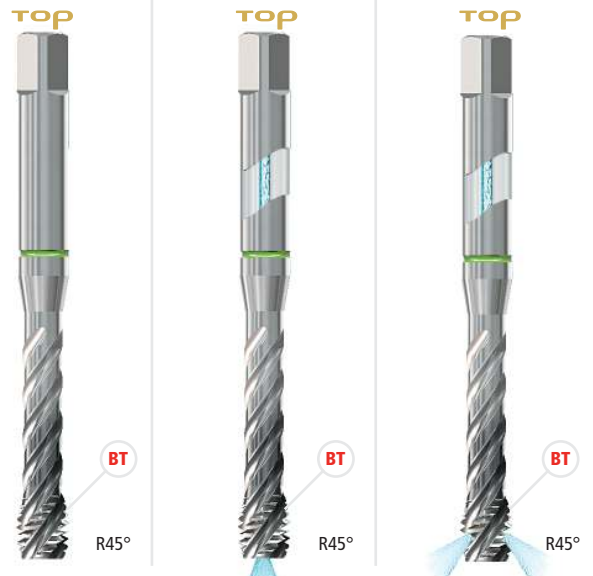
○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

79

79

★ Solo a richiesta  
 Only on request / Sur demande

**U** APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm<sup>2</sup>  
 Universal R ≤ 1200 N/mm<sup>2</sup> - Universal R ≤ 1200 N/mm<sup>2</sup>



3xD	3,5xD	3,5xD
PM3	PM3	PM3
2BX	2BX	2BX
XP	XP	XP
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3	2.1 2.2 2.3	2.1 2.2 2.3
3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3
5.2	5.2	5.2

K82UNC...XP	CODICE - CODE	
	K82UNC...FOR-XP	K82UNC...FORY-XP
○	-	-
○	-	-
○	-	-
○	-	-
○	○	○
○	○	○
○	○	○

K83UNC...XP	CODICE - CODE	
	K83UNC...FOR-XP	K83UNC...FORY-XP
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○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

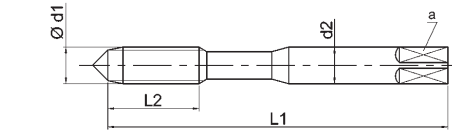
RACCOMANDATO per filettatura rigida  
 We recommend Syncro rigid threading  
 Recommandé pour le taraudage rigide



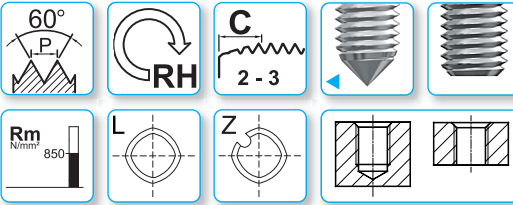
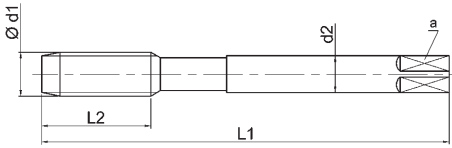
### MASCHI A MACCHINA

#### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

LINE



LINE



LINE



LINE



3xD	3xD	3xD	3xD
HSSP	HSSP	HSSP	HSSP
2BX	2BX	2BX	2BX
BR	TiN	BR	TiN
1.1 1.2 1.3	1.1 1.2 1.3 1.4	1.1 1.2 1.3	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 2.3	4.1 4.2	2.1 2.2 2.3
	4.1 4.2 4.3		4.1 4.2 4.3
	5.1 5.2		5.1 5.2

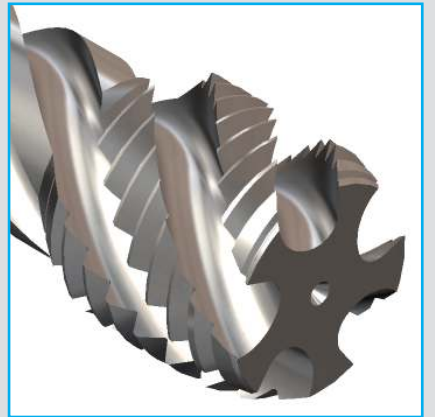
DIN 371	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
6	32	3,505	56	11	4	3	2	3,15	
8	32	4,166	63	13	4,5	3,4	4	3,8	
10	24	4,826	70	13	6	4,9	4	4,3	
12	24	5,486	80	16	6	4,9	5	5	
1/4	20	6,350	80	16	7	5,5	5	5,75	
5/16	18	7,938	90	18	8	6,2	5	7,25	
3/8	16	9,525	100	20	10	8	5	8,75	

CODICE - CODE			
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 376	Ød1 UNC	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
7/16	14	11,113	100	20	8	6,2	5	10,3	
1/2	13	12,700	110	25	9	7	5	11,8	
9/16	12	14,288	110	28	11	9	6	13,3	
5/8	11	15,875	110	28	12	9	6	14,8	
3/4	10	19,050	125	32	14	11	6	17,9	

CODICE - CODE			
P2SCUNC...	P2SCUNC...T	P2CCUNC...	P2CCUNC...T
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>







UNF



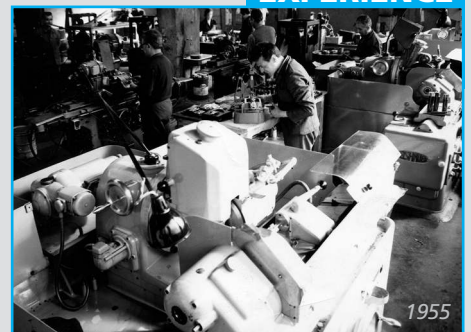
UNF

Costruiamo utensili per filettare dal 1947

*We have been manufacturing threading tools since 1947*

*Nous Fabriquons des outils pour Tarauder depuis 1947*

EXPERIENCE



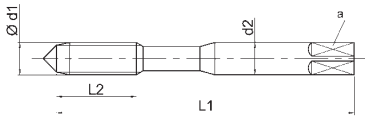
1955



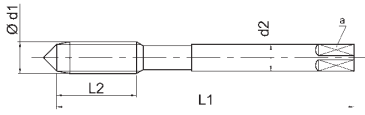
**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

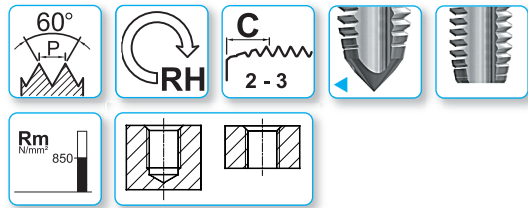
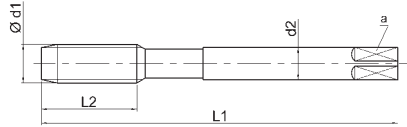
**DIN 371**



**DIN 374**



**DIN 374**



**Profond. di filettatura - Thread depth - Profond. de filetage**

**Materiale - Material - Matériau**

**Tolleranza - Tolerance - Tolérance**

**Trattamento superficiale - Surface treatment - Revêtement**

**Numero gruppi materiali**  
 Material's groups number  
 Nombre de groupes du matériau

<b>1,5xD</b>	<b>1,5xD</b>
<b>HSSE</b>	<b>HSSE</b>
<b>2B</b>	<b>2B</b>
<b>BR</b>	<b>TiN</b>
1.1 1.2 1.3 1.4 3.4	1.1 1.2 1.3 1.4 3.4
4.2 4.3 5.2 5.3	4.2 4.3 5.2 5.3
<b>8.2</b>	<b>8.2</b>

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	11	4	3	3	2,95
◀	8	36	4,166	63	13	4,5	3,4	3	3,5
◀	10	32	4,826	70	13	6	4,9	3	4,1
◀	12	28	5,486	80	16	6	4,9	3	4,6
◀	1/4	28	6,350	80	16	7	5,5	3	5,5

CODICE - CODE	
E20UNF...	E20UNF...T
•	○
•	○
•	○
○	○
•	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	28	6,350	80	16	4,5	3,4	3	5,5
◀	5/16	24	7,938	90	18	6	4,9	3	6,9
◀	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	20	8	6,2	3	9,9
	1/2	20	12,700	100	20	9	7	3	11,5
	9/16	18	14,288	100	22	11	9	4	12,9
	5/8	18	15,875	100	22	12	9	4	14,5
	3/4	16	19,050	110	25	14	11	4	17,5
	7/8	14	22,225	125	25	18	14,5	4	20,4
	1"	12	25,400	140	28	18	14,5	4	23,25
	1" 1/8	12	28,575	150	28	22	18	4	26,5
	1" 1/4	12	31,750	150	28	22	18	5	29,5
	1" 3/8	12	34,925	170	30	28	22	5	32,75
	1" 1/2	12	38,100	170	30	28	22	6	36

CODICE - CODE	
E21UNF...	E21UNF...T
○	○
•	○
•	○
•	○
•	○
○	○
•	○
•	○
○	○
•	○
○	○
•	○

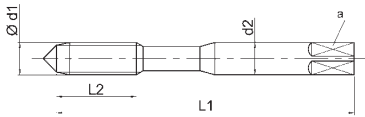




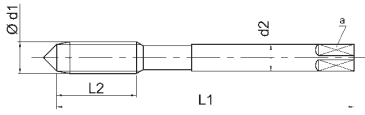
**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

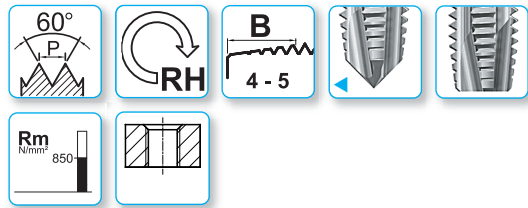
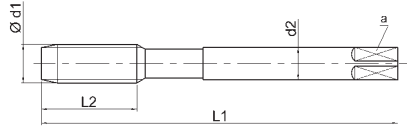
**DIN 371**



**DIN 374**



**DIN 374**



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

3xD	3xD	3xD	3xD
HSSE	HSSE	HSSE	HSSE
2B	2B	2B	2B
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
	6.1 7.1	5.1 5.2	5.2

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	11	4	3	3	2,95
◀	8	36	4,166	63	13	4,5	3,4	3	3,5
◀	10	32	4,826	70	13	6	4,9	3	4,1
◀	12	28	5,486	80	16	6	4,9	3	4,6
◀	1/4	28	6,350	80	16	7	5,5	3	5,5

CODICE - CODE			
E24UNF...	E24UNF...V	E24UNF...T	E24UNF...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	28	6,350	80	16	4,5	3,4	3	5,5
◀	5/16	24	7,938	90	18	6	4,9	3	6,9
◀	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	20	8	6,2	3	9,9
	1/2	20	12,700	100	20	9	7	3	11,5
	9/16	18	14,288	100	22	11	9	4	12,9
	5/8	18	15,875	100	22	12	9	4	14,5
	3/4	16	19,050	110	25	14	11	4	17,5
	7/8	14	22,225	125	25	18	14,5	4	20,4
	1"	12	25,400	140	28	18	14,5	4	23,25
	1" 1/8	12	28,575	150	28	22	18	4	26,5
	1" 1/4	12	31,750	150	28	22	18	5	29,5
	1" 3/8	12	34,925	170	30	28	22	5	32,75
	1" 1/2	12	38,100	170	30	28	22	6	36

CODICE - CODE			
E25UNF...	E25UNF...V	E25UNF...T	E25UNF...XP
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

Confezione / Box / Colis: 6 - 7/16: 10 pezzi / pcs  
 1/2 - 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

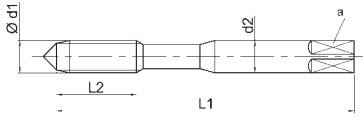
€ Pag. listino - Price list - Liste des prix **83** **83** **83** **83**

• Standard ○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier ★ Solo a richiesta  
 Only on request / Sur demande

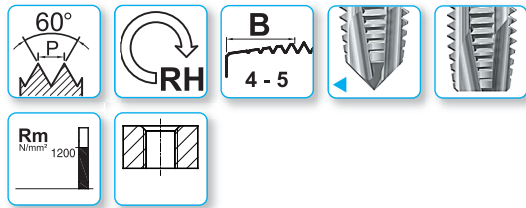
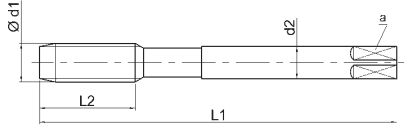
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



TOP



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3xD	3xD
PM3	PM3
2BX	2BX
XP	XP
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3	2.1 2.2 2.3
3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3
5.2	5.2

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	48	2,845	56	10	3,5	2,7	3	2,4
◀	6	40	3,505	56	11	4	3	3	2,95
◀	8	36	4,166	63	13	4,5	3,4	3	3,5
◀	10	32	4,826	70	13	6	4,9	3	4,1
◀	1/4	28	6,350	80	16	7	5,5	3	5,5

CODICE - CODE	
K24UNF...XP	K24UNF...FORY-XP
○	-
○	-
○	-
○	-
○	○

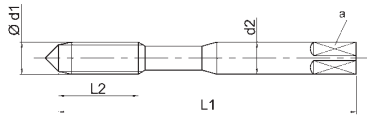
DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	5/16	24	7,938	90	18	6	4,9	3	6,9
	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	20	8	6,2	3	9,9
	1/2	20	12,700	100	20	9	7	4	11,5
	9/16	18	14,288	100	22	11	9	4	12,9
	5/8	18	15,875	100	22	12	9	4	14,5
	3/4	16	19,050	110	25	14	11	4	17,5
	7/8	14	22,225	125	25	18	14,5	4	20,4
	1"	12	25,400	140	28	18	14,5	4	23,25

CODICE - CODE	
K25UNF...XP	K25UNF...FORY-XP
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○

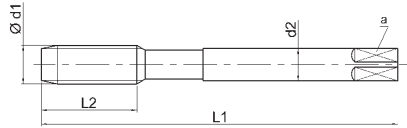
**INOX** ACCIAIO INOSSIDABILE  
 Stainless steel - Acier inoxydable

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

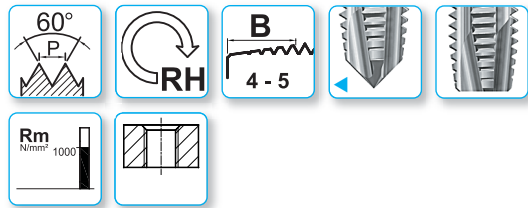
**DIN 371**



**DIN 374**



TOP



Profond. di filettatura - Thread depth - Profond. de filetage **3xD**

Materiale - Material - Matériau **HSSV3**

Tolleranza - Tolerance - Tolérance **2BX**

Trattamento superficiale - Surface treatment - Revêtement **TXC**

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1.3 1.4 1.5  
 2.1 2.2 2.3 2.4

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	11	4	3	3	2,95
◀	8	36	4,166	63	13	4,5	3,4	3	3,5
◀	10	32	4,826	70	13	6	4,9	3	4,1
◀	1/4	28	6,350	80	16	7	5,5	3	5,5

CODICE - CODE	
V24UNF...TXC	○
	○
	○
	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	5/16	24	7,938	90	18	6	4,9	3	6,9
	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	20	8	6,2	3	9,9
	1/2	20	12,700	100	20	9	7	4	11,5
	9/16	18	14,288	100	22	11	9	4	12,9
	5/8	18	15,875	100	22	12	9	4	14,5
	3/4	16	19,050	110	25	14	11	4	17,5
	7/8	14	22,225	125	25	18	14,5	4	20,4
	1"	12	25,400	140	28	18	14,5	4	23,25

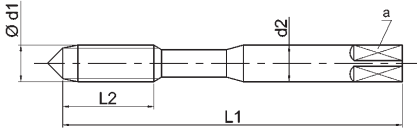
CODICE - CODE	
V25UNF...TXC	○
	○
	○
	○
	○
	○
	○
	○



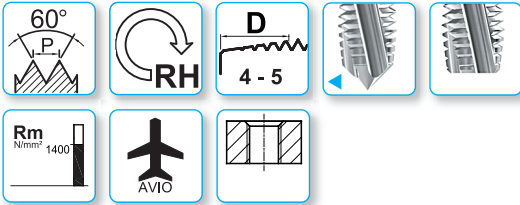
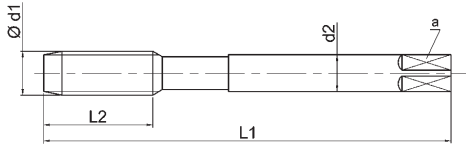
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



TOP



L15°

TOP



L15°

TOP



L15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD	3xD	3xD
PM3	PM3	PM3
2BX	2BX	3BX
V	TiCN	V
6.1	1.6 2.4	6.1
	3.3 3.4	
	4.4 5.3 5.4 6.2 6.3	
	7.2 9.2	

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
6	40	3,505	56	11	4	3	3	*2,95	
8	36	4,166	63	13	4,5	3,4	3	*3,5	
10	32	4,826	70	13	6	4,9	3	*4,1	
1/4	28	6,350	80	16	7	5,5	3	*5,5	
5/16	24	7,938	90	18	8	6,2	3	*6,9	
3/8	24	9,525	100	20	10	8	3	*8,5	

CODICE - CODE		
K52UNF...V	K52UNF...CT	K52UNF...V-3BX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
7/16	20	11,113	100	20	8	6,2	3	*9,9	
1/2	20	12,700	100	20	9	7	3	*11,5	
5/8	18	15,875	100	22	12	9	3	*14,5	
3/4	16	19,050	110	25	14	11	4	*17,5	

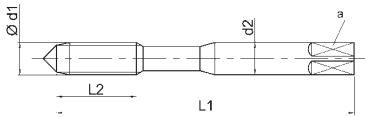
CODICE - CODE		
K53UNF...V	K53UNF...CT	K53UNF...V-3BX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Per UNF vedi tabella di foratura pag. 255  
 \* Drills' diameters for UNF: table page 255  
 \* Pour UNF voir le tableau de perçage page 255

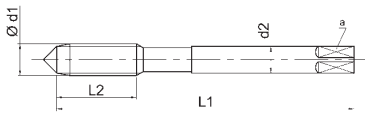
**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

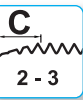
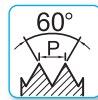
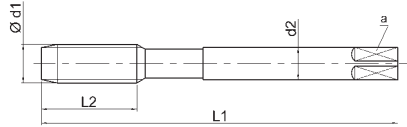
**DIN 371**



**DIN 374**



**DIN 374**



R15°



R15°



R15°



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

<b>1,5xD</b>	<b>1,5xD</b>	<b>1,5xD</b>	<b>1,5xD</b>
<b>HSSE</b>	<b>HSSE</b>	<b>HSSE</b>	<b>HSSE</b>
<b>2B</b>	<b>2B</b>	<b>2B</b>	<b>2B</b>
<b>BR</b>	<b>V</b>	<b>TiN</b>	<b>XP</b>
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
	6.1 7.1	5.1 5.2	5.2

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	11	4	3	3	2,95
◀	8	36	4,166	63	13	4,5	3,4	3	3,5
◀	10	32	4,826	70	13	6	4,9	3	4,1
◀	12	28	5,486	80	16	6	4,9	3	4,6
◀	1/4	28	6,350	80	16	7	5,5	3	5,5

E40UNF...	CODICE - CODE		
	E40UNF...V	E40UNF...T	E40UNF...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	28	6,350	80	16	4,5	3,4	3	5,5
◀	5/16	24	7,938	90	18	6	4,9	3	6,9
◀	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	20	8	6,2	3	9,9
	1/2	20	12,700	100	20	9	7	3	11,5
	9/16	18	14,288	100	22	11	9	3	12,9
	5/8	18	15,875	100	22	12	9	3	14,5
	3/4	16	19,050	110	25	14	11	4	17,5
	7/8	14	22,225	125	25	18	14,5	4	20,4
	1"	12	25,400	140	28	18	14,5	4	23,25
	1" 1/8	12	28,575	150	28	22	18	4	26,5
	1" 1/4	12	31,750	150	28	22	18	5	29,5
	1" 3/8	12	34,925	170	30	28	22	5	32,75
	1" 1/2	12	38,100	170	30	28	22	6	36

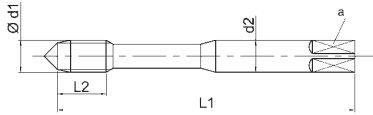
E41UNF...	CODICE - CODE		
	E41UNF...V	E41UNF...T	E41UNF...XP
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

Confezione / Box / Colis: 6 - 7/16: 10 pezzi / pcs 1/2 - 9/16: 5 pezzi / pcs >9/16: singoli / single pcs	€ Pag. listino - Price list - Liste des prix	<b>85</b>	<b>85</b>	<b>85</b>	<b>85</b>
• Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			★ Solo a richiesta Only on request / Sur demande	

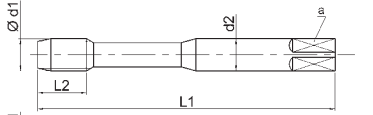
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

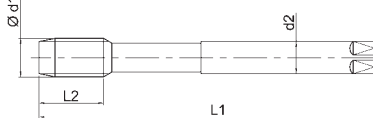
DIN 371



DIN 371



DIN 374



TOP



R15°

TOP



R15°

TOP



R15°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1,5xD

1,5xD

1,5xD

PM3

PM3

PM3

2BX

2BX

3BX

V

TiCN

V

6.1

1.6 2.4

6.1

3.3 3.4

4.4 5.3 5.4 6.2 6.3

7.2 9.2

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	7	4	3	3	*2,95
◀	8	36	4,166	63	7	4,5	3,4	3	*3,5
◀	10	32	4,826	70	8	6	4,9	3	*4,1
◀	1/4	28	6,350	80	10	7	5,5	3	*5,5
	5/16	24	7,938	90	13	8	6,2	3	*6,9
	3/8	24	9,525	100	15	10	8	3	*8,5

CODICE - CODE		
K42UNF...V	K42UNF...CT	K42UNF...V-3BX
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	7/16	20	11,113	100	15	8	6,2	3	*9,9
	1/2	20	12,700	100	13	9	7	4	*11,5
	5/8	18	15,875	100	15	12	9	4	*14,5
	3/4	16	19,050	110	17	14	11	4	*17,5

CODICE - CODE		
K43UNF...V	K43UNF...CT	K43UNF...V-3BX
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* Per UNFJ vedi tabella di foratura pag. 255  
 \* Drills' diameters for UNFJ: table page 255  
 \* Pour UNFJ voir le tableau de perçage page 255

Confezione / Box / Collis:  
 6 - 7/16: 10 pezzi / pcs  
 1/2 - 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

86

86

86

● Standard

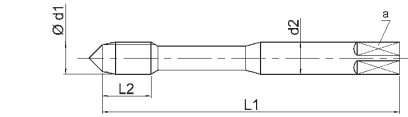
○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande

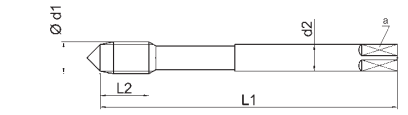
**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

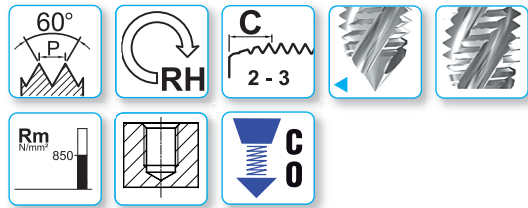
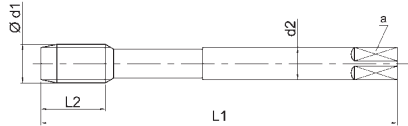
**DIN 371**



**DIN 374**



**DIN 374**



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement

2,5xD	2,5xD	2,5xD	2,5xD
HSSE	HSSE	HSSE	HSSE
2B	2B	2B	2B
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
		5.1 5.2	5.2

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	7	4	3	3	2,95
◀	8	36	4,166	63	7	4,5	3,4	3	3,5
◀	10	32	4,826	70	8	6	4,9	3	4,1
◀	12	28	5,486	80	10	6	4,9	3	4,6
◀	1/4	28	6,350	80	10	7	5,5	3	5,5

CODICE - CODE			
E60UNF...	E60UNF...V	E60UNF...T	E60UNF...XP
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/4	28	6,350	80	10	4,5	3,4	3	5,5
	5/16	24	7,938	90	13	6	4,9	3	6,9
	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	15	8	6,2	3	9,9
	1/2	20	12,700	100	13	9	7	3	11,5
	9/16	18	14,288	100	15	11	9	4	12,9
	5/8	18	15,875	100	15	12	9	4	14,5
	3/4	16	19,050	110	17	14	11	4	17,5
	7/8	14	22,225	125	18	18	14,5	4	20,4
	1"	12	25,400	140	22	18	14,5	4	23,25
	1" 1/8	12	28,575	150	22	22	18	4	26,5
	1" 1/4	12	31,750	150	22	22	18	5	29,5
	1" 3/8	12	34,925	170	24	28	22	5	32,75
	1" 1/2	12	38,100	170	24	28	22	6	36

CODICE - CODE			
E61UNF...	E61UNF...V	E61UNF...T	E61UNF...XP
○	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
•	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis: 6 - 7/16: 10 pezzi / pcs  
 1/2 - 9/16: 5 pezzi / pcs  
 >9/16: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

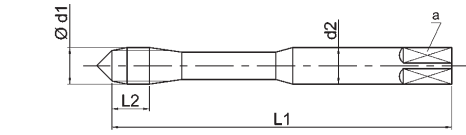
86	86	86	87
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• Standard      ○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier      ★ Solo a richiesta  
 Only on request / Sur demande

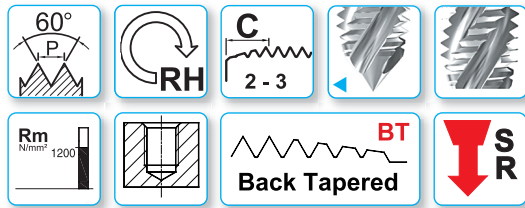
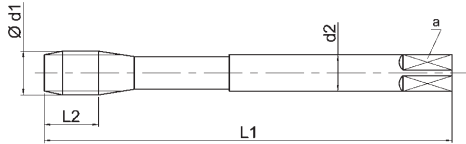
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	4	48	2,845	56	5	3,5	2,7	3	2,4
◀	6	40	3,505	56	7	4	3	3	2,95
◀	8	36	4,166	63	7	4,5	3,4	3	3,5
◀	10	32	4,826	70	8	6	4,9	3	4,1
◀	1/4	28	6,350	80	10	7	5,5	3	5,5

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	5/16	24	7,938	90	13	6	4,9	3	6,9
	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	15	8	6,2	3	9,9
	1/2	20	12,700	100	13	9	7	4	11,5
	9/16	18	14,288	100	15	11	9	4	12,9
	5/8	18	15,875	100	15	12	9	4	14,5
	3/4	16	19,050	110	17	14	11	4	17,5
	7/8	14	22,225	125	18	18	14,5	4	20,4
	1"	12	25,400	140	22	18	14,5	4	23,25

Confezione / Box / Colis:  
6 - 7/16: 10 pezzi / pcs  
1/2 - 9/16: 5 pezzi / pcs  
>9/16: singoli / single pcs

€ Pagina listino - Price list page

● Standard

87

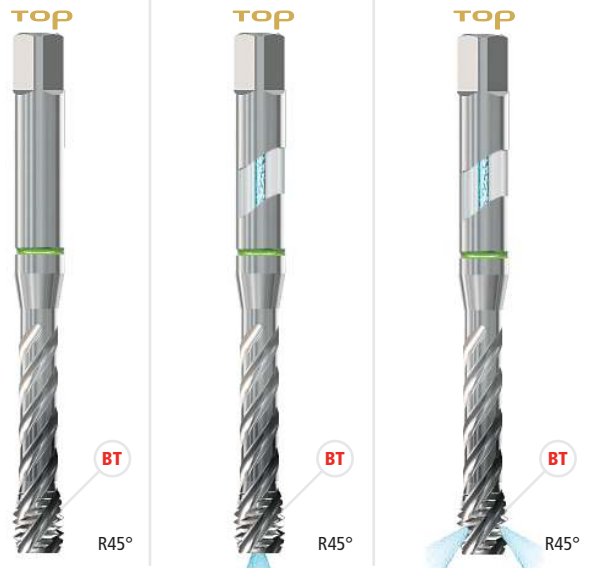
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

87

87

★ Solo a richiesta  
Only on request / Sur demande

**U** APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm<sup>2</sup>  
Universal R ≤ 1200 N/mm<sup>2</sup> - Universal R ≤ 1200 N/mm<sup>2</sup>



3xD	3,5xD	3,5xD
PM3	PM3	PM3
2BX	2BX	2BX
XP	XP	XP
1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
2.1 2.2 2.3	2.1 2.2 2.3	2.1 2.2 2.3
3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3	3.3 3.4 4.2 4.3
5.2	5.2	5.2

K82UNF...XP	CODICE - CODE	
	K82UNF...FOR-XP	K82UNF...FORY-XP
○	-	-
○	-	-
○	-	-
○	-	-
○	○	○

K83UNF...XP	CODICE - CODE	
	K83UNF...FOR-XP	K83UNF...FORY-XP
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

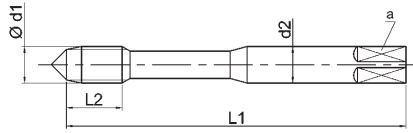
RACCOMANDATO  
per filettatura rigida  
We recommend  
Syncro rigid  
threading  
Recommandé  
pour le  
taraudage rigide



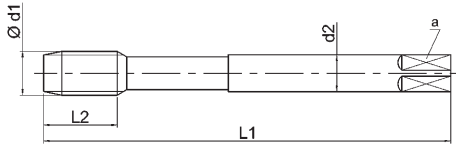
**INOX** ACCIAIO INOSSIDABILE  
 Stainless steel - Acier inoxydable

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



TOP



R48°

Profond. di filettatura - Thread depth - Profond. de filetage: **3,5xD**

Materiale - Material - Matériau: **HSSV3**

Tolleranza - Tolerance - Tolérance: **2BX**

Trattamento superficiale - Surface treatment - Revêtement: **TXC**

Numero gruppi materiali / Material's groups number / Nombre de groupes du matériau: **1.3 1.4 1.5**

**2.1 2.2 2.3 2.4**

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	7	4	3	3	2,95
◀	8	36	4,166	63	7	4,5	3,4	3	3,5
◀	10	32	4,826	70	8	6	4,9	3	4,1
◀	1/4	28	6,350	80	10	7	5,5	3	5,5

CODICE - CODE	
V82UNF...TXC	○
○	
○	
○	

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	5/16	24	7,938	90	13	6	4,9	3	6,9
	3/8	24	9,525	90	15	7	5,5	3	8,5
	7/16	20	11,113	100	15	8	6,2	3	9,9
	1/2	20	12,700	100	13	9	7	4	11,5
	9/16	18	14,288	100	15	11	9	4	12,9
	5/8	18	15,875	100	15	12	9	4	14,5
	3/4	16	19,050	110	17	14	11	4	17,5
	7/8	14	22,225	125	18	18	14,5	4	20,4
	1"	12	25,400	140	22	18	14,5	4	23,25

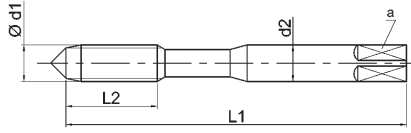
CODICE - CODE	
V83UNF...TXC	○
○	
○	
○	
○	
○	
○	
○	
○	

RACCOMANDATO per filettatura rigida  
 We recommend Syncro rigid threading  
 Recommandé pour le taraudage rigide

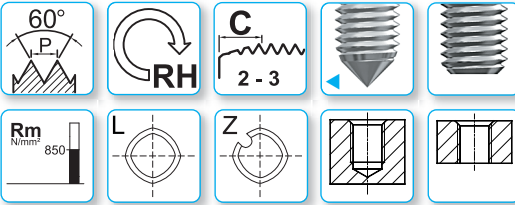
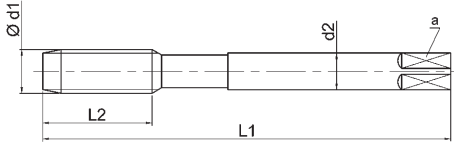
### MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

LINE



LINE



LINE



LINE



3xD

3xD

3xD

3xD

HSSP

HSSP

HSSP

HSSP

2BX

2BX

2BX

2BX

BR

TiN

BR

TiN

1.1 1.2 1.3

1.1 1.2 1.3 1.4

1.1 1.2 1.3

1.1 1.2 1.3 1.4

4.1 4.2

2.1 2.2 2.3

4.1 4.2

2.1 2.2 2.3

4.1 4.2 4.3

4.1 4.2 4.3

5.1 5.2

5.1 5.2

DIN 371	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	6	40	3,505	56	11	4	3	2	3,2
◀	8	36	4,166	63	13	4,5	3,4	4	3,85
◀	10	32	4,826	70	13	6	4,9	4	4,45
◀	1/4	28	6,350	80	16	7	5,5	5	5,9
◀	5/16	24	7,938	90	18	8	6,2	5	7,45
◀	3/8	24	9,525	90	15	10	8	5	9

CODICE - CODE			
P2SCUNF...	P2SCUNF...T	P2CCUNF...	P2CCUNF...T
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

DIN 374	Ød1 UNF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	7/16	20	11,113	100	20	8	6,2	5	10,5
	1/2	20	12,700	100	20	9	7	6	12,1
	9/16	18	14,288	100	22	11	9	6	13,7
	3/4	16	19,050	110	25	14	11	8	18,4
	1"	12	25,400	140	28	18	14,5	8	24,45

CODICE - CODE			
P2SCUNF...	P2SCUNF...T	P2CCUNF...	P2CCUNF...T
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M12 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

88

88

88

88

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande





# FILETTATURA AMERICANA UN

AMERICAN UNIFIED THREAD UN - FILETAGE AMÉRICAIN UN

UNF

Ø	PASSO - PITCH																						
	8	9	10	11	12	13	14	16	18	20	24	27	28	32	36	40	44	48	56	60	64	72	80
0																							UNF
1																					UNC	UNF	
2																			UNC		UNF		
3																		UNC	UNF				
4																UNC		UNF					
5															UNC	UNF							
6														UNC	UNF								
9/64																							
8														UNC	UNF								
11/64																							
10											UNC			UNF		UNS		UNS	UNS				
12											UNC		UNF	UNEF	UNS								
15/64																							
1/4										UNC	UNS		UNF	UNEF	UNS	UNS				UNS			
9/32																							
5/16									UNC		UNF			UNEF		UNS							
3/8								UNC	UNS	UN20	UNF	UNS	UN28	UNEF		UNS							
7/16							UNC			UNF	UNS	UNS	UNEF	UN32									
1/2						UNC				UNF	UNS	UNS	UNEF	UN32									
9/16					UNC					UNF		UNEF											
5/8				UNC				UN16	UNF	UN20	UNEF	UNS	UN28										
11/16								UN16	UNS		UNEF												
3/4			UNC					UNF	UNS	UNEF		UNS	UN28										
13/16								UN16		UNEF													
7/8		UNC			UN12			UNF	UN16	UNS	UNEF	UNS											
15/16								UN16	UNS														
1	UNC				UNF		UNS	UN16	UNS	UNEF	UNS			UN32									
1-1/16					UN12			UN16	UNEF	UN20													
1-1/8	UN8				UNF			UN16	UNEF	UN20													
1-3/16	UN8				UN12			UN16	UNEF														
1-1/4	UN8				UNF		UNS	UN16	UNEF	UN20													
1-5/16					UN12		UNS	UN16															
1-3/8	UN8				UNF			UNEF	UN20														
1-7/16					UN12			UNEF															
1-1/2	UN8				UNF			UN16	UNEF														
1-9/16																							
1-5/8	UN8				UN12																		
1-11/16																							
1-3/4	UN8				UN12																		
1-13/16																							
1-7/8	UN8				UN12					UN20													
1-15/16																							
2	UN8				UN12			UN16															
2-1/8																							
2-1/4	UN8																						
2-3/8																							
2-1/2	UN8				UN12																		
2-3/4																							
2-7/8	UN8																						
3	UN8																						

UNEF-UNS-UN...



UNEF UNS UN...

Costante innovazione: R&D in UFS Technology

*Steady innovation: R&D in UFS Technology*

*L'innovation constante:*

*R&D dans la technologie de l'UFS*







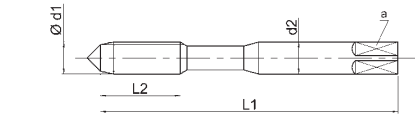




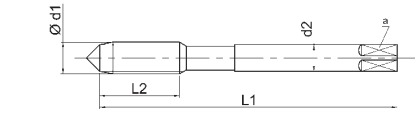
**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE

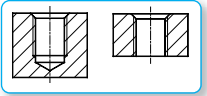
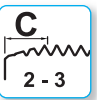
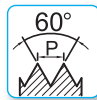
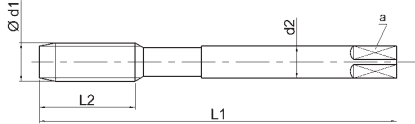
UFS norm



UFS norm



UFS norm



Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

1,5xD

Materiale - Material - Matériau

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

2B

2B

Trattamento superficiale - Surface treatment - Revêtement

BR

TiN

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4 3.4

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

4.2 4.3 5.2 5.3

8.2

8.2

UFS norm	Ød1 UNS	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	10	40	4,826	70	13	6	4,9	3	4,2
◀	10	48	4,826	70	13	6	4,9	3	4,3
◀	12	36	5,486	80	16	6	4,9	3	4,8
◀	1/4	24	6,350	80	16	7	5,5	3	5,3
◀	1/4	36	6,350	80	16	7	5,5	3	5,6
◀	1/4	40	6,350	80	16	7	5,5	3	5,7

CODICE - CODE	
E20-...UNS...	E20-...UNS...T
○	○
○	○
○	○
○	○
○	○
○	○

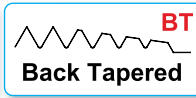
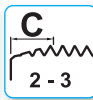
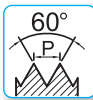
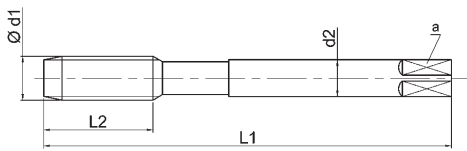
UFS norm	Ød1 UNS	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	5/16	40	7,938	90	18	6	4,9	3	7,3
◀	3/8	18	9,525	100	20	7	5,5	3	8,1
◀	3/8	27	9,525	90	15	7	5,5	3	8,6
◀	3/8	40	9,525	90	15	7	5,5	3	8,9
	7/16	24	11,113	100	20	8	6,2	3	10,05
	7/16	27	11,113	100	20	8	6,2	3	10,2
	1/2	24	12,700	100	20	9	7	3	11,6
	1/2	27	12,700	100	20	9	7	3	11,75
	5/8	27	15,875	100	22	12	9	4	14,9
	11/16	18	17,462	110	25	14	11	4	16,05
	3/4	18	19,050	110	25	14	11	4	17,6
	7/8	18	22,225	125	25	18	14,5	4	20,8
	7/8	24	22,225	125	25	18	14,5	4	21,2
	15/16	18	23,813	140	25	18	14,5	4	22,4
	1"	14	25,400	140	28	18	14,5	4	23,6
	1"	18	25,400	140	28	18	14,5	4	24
	1"	24	25,400	140	28	18	14,5	4	24,3
	1"1/4	14	31,750	150	28	22	18	5	29,9
	1"5/16	14	33,338	170	30	28	22	5	31,5

CODICE - CODE	
E21-...UNS...	E21-...UNS...T
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
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○	○
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○	○
○	○
○	○
○	○
○	○



MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE



BT

Profond. di filettatura - Thread depth - Profond. de filetage	1,5xD	1,5xD	2,5xD
Materiale - Material - Matériau	HSSE	HSSE	HSSE
Tolleranza - Tolerance - Tolérance	2B	2B	2B
Trattamento superficiale - Surface treatment - Revêtement	BR	BR	BR
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	1.1 1.2 1.3 1.4 3.4 4.2 4.3 5.2 5.3 8.2	1.1 1.2 1.3 1.4 3.4 4.2 4.3 5.2 5.3 8.2	1.1 1.2 1.3 1.4 3.4 4.2 4.3 5.2 5.3 8.2

DIN 2184-1	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
8-UN	TPI	mm				h9	h12		
1" 1/8	8	28,575	180	40	22	18	4	25,4	
1" 1/4	8	31,750	180	40	22	18	4	28,6	
1" 3/8	8	34,925	200	50	28	22	4	31,75	
1" 1/2	8	38,100	200	50	28	22	4	34,9	
1" 5/8	8	41,275	200	50	32	24	5	38,1	
1" 3/4	8	44,450	200	50	36	29	5	41,3	
1" 7/8	8	47,625	225	60	36	29	6	44,45	
2"	8	50,800	225	60	40	32	6	47,6	
2" 1/4	8	57,150	250	65	45	35	6	54	
2" 1/2	8	63,500	275	70	50	39	6	60,3	

UFS norm	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
12-UN	TPI	mm				h9	h12		
7/8	12	22,225	125	25	18	14,5	4	20,1	
1" 1/16	12	26,988	140	25	20	16	4	24,9	
1" 3/16	12	30,163	150	28	22	18	4	28	
1" 5/16	12	33,338	170	30	28	22	5	31,2	
1" 7/16	12	36,513	170	30	28	22	6	34,4	
1" 5/8	12	41,275	170	30	32	24	6	39,2	
1" 3/4	12	44,450	180	32	36	29	6	42,3	
2"	12	50,8	190	32	40	32	6	48,7	

UFS norm	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
16-UN	TPI	mm				h9	h12		
1"	16	25,400	140	28	18	14,5	4	23,8	
1" 1/8	16	28,575	150	28	22	18	4	27	
1" 1/4	16	31,750	150	28	22	18	5	30,15	
1" 1/2	16	38,100	170	30	28	22	6	36,5	
2"	16	50,8	190	32	40	32	6	49,2	

CODICE - CODE		
E21-8UN...	E41-8UN...	E81-8UN...
○	○	○
○	○	○
○	○	○
○	○ (Z=5)	○ (Z=5)
○	○	○
○	○	○
○	○	○
○	○	○
○ new	○	○
○ new	○	○

RACCOMANDATO per filettatura rigida  
We recommend Syncro rigid threading  
Recommandé pour le taraudage rigide

CODICE - CODE		
E21-12UN...		
○		
○		
○		
○		
○		
○		
○		
○		

CODICE - CODE		
E21-16UN...		
○		
○		
○		
○		
○		

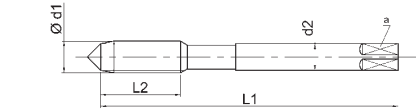
■ = Acciaio HSS / HSS Steel / Acier HSS

Confezione: Singola Box: Single Colis: Unique	€ Pag. listino - Price list - Liste des prix	91	91	91
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	★ Solo a richiesta Only on request / Sur demande	

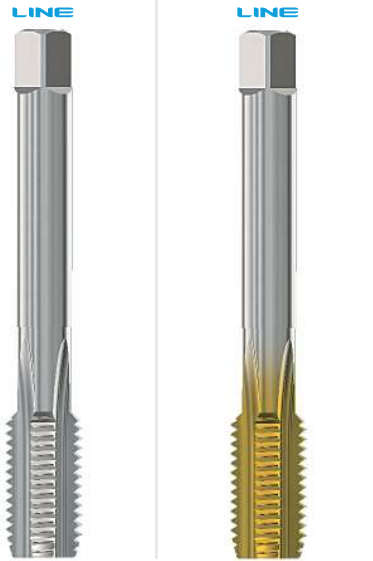
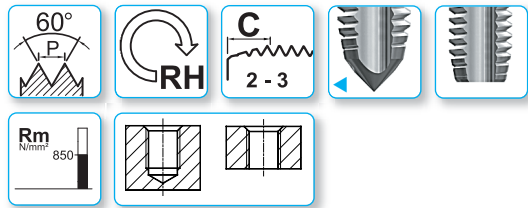
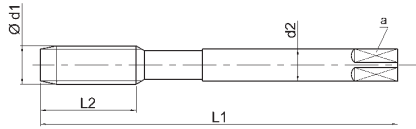
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

UFS norm



UFS norm



Profond. di filettatura - Thread depth - Profond. de filetage  
 Materiale - Material - Matériau  
 Tolleranza - Tolerance - Tolérance  
 Trattamento superficiale - Surface treatment - Revêtement  
 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

1,5xD	1,5xD
HSSE	HSSE
2B	2B
BR	TiN
1.1 1.2 1.3 1.4 3.4	1.1 1.2 1.3 1.4 3.4
4.2 4.3 5.2 5.3	4.2 4.3 5.2 5.3
8.2	8.2

UFS norm	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
	20-UN	TPI	mm			h9	h12		
◀	3/8	20	9,525	100	20	7	5,5	3	8,3
	5/8	20	15,875	100	22	12	9	4	14,6
	1" 1/16	20	26,988	140	25	20	16	4	25,7
	1" 1/8	20	28,575	150	28	22	18	4	27,3
	1" 1/4	20	31,750	150	28	22	18	5	30,5
	1" 3/8	20	34,925	170	30	28	22	5	33,7

CODICE - CODE	
E21-20UN...	E21-20UN...T
○	○
○	○
○	○
○	○
○	○

UFS norm	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
	28-UN	TPI	mm			h9	h12		
◀	3/8	28	9,525	90	15	7	5,5	3	8,6
	5/8	28	15,875	100	22	12	9	4	15

CODICE - CODE	
E21-28UN...	E21-28UN...T
○	○
○	○

UFS norm	Ød1	P	Ø	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub>	a	Z	
	32-UN	TPI	mm			h9	h12		
	7/16	32	11,113	100	20	8	6,2	3	10,3
	1/2	32	12,700	100	20	9	7	3	11,9

CODICE - CODE	
E21-32UN...	E21-32UN...T
○	○
○	○

Confezione: Singola  
 Box: Single  
 Colis: Unique

€ Pag. listino - Price list - Liste des prix **91** **91**

• Standard ○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande



# GAS-Rp-NPSM-NPSF



GAS Rp NPSM NPSF

Il prodotto: preciso, affidabile, curato e tutto by UFS

*The product: precise, reliable, accurate, all made by UFS*

*Le produit : précis, fiable et tout par UFS*

**PRECISION**

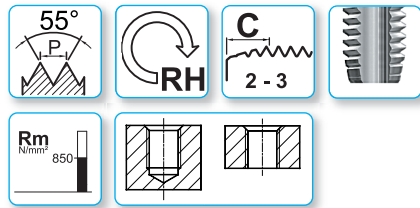
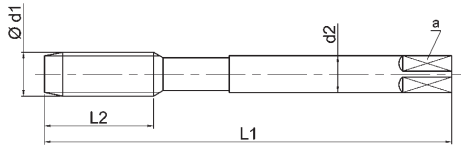




**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

**DIN 5156**



**Profond. di filettatura - Thread depth - Profond. de filetage**

**Materiale - Material - Matériau**

**Tolleranza - Tolerance - Tolérance**

**Trattamento superficiale - Surface treatment - Revêtement**

**Numero gruppi materiali**  
Material's groups number  
Nombre de groupes du matériau

<b>1,5xD</b>	<b>1,5xD</b>
<b>HSSE</b>	<b>HSSE</b>
<b>ISO 228</b>	<b>ISO 228</b>
<b>BR</b>	<b>TiN</b>
1.1 1.2 1.3 1.4 3.4	1.1 1.2 1.3 1.4 3.4
4.2 4.3 5.2 5.3	4.2 4.3 5.2 5.3
8.2	8.2

DIN 5156	Ød1 GAS	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	1/8	28	9,73	90	15	7	5,5	3	8,8
	1/4	19	13,16	100	22	11	9	3	11,8
	3/8	19	16,66	100	22	12	9	3	15,25
	1/2	14	20,96	125	25	16	12	4	19
	5/8	14	22,91	125	25	18	14,5	4	21
	3/4	14	26,44	140	25	20	16	4	24,5
	7/8	14	30,20	150	28	22	18	4	28,25
	1"	11	33,25	160	30	25	20	5	30,75
	1" 1/8	11	37,90	170	30	28	22	6	35,5
	1" 1/4	11	41,91	170	30	32	24	6	39,5
■	1" 1/2	11	47,8	190	32	36	29	6	45,25
■	1" 3/4	11	53,75	190	32	40	32	6	51,1
■	2"	11	59,61	220	40	45	35	6	57,2
■	2" 1/2	11	75,18	250	50	45	35	8	72,6

CODICE - CODE	
E21G...	E21G...T
●	○
●	○
●	○
●	○
○	○
●	○
●	○
●	○
●	○
●	★
●	★
○	★

■ = Acciaio HSS / HSS Steel / Acier HSS









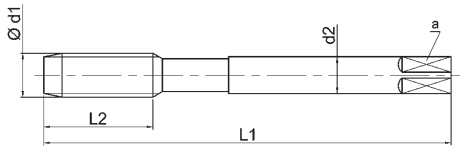




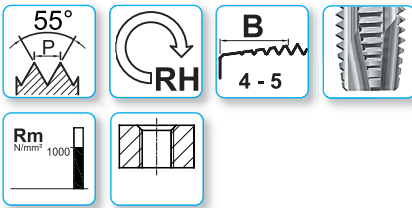
### MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

**DIN 5156**



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

**3xD**

**HSSV3**

**ISO 228X**

**TXC**

1.3 1.4 1.5

2.1 2.2 2.3 2.4

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

DIN 5156	$\varnothing d_1$ GAS	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
	<b>1/8</b>	<b>28</b>	9,73	90	15	7	5,5	3	8,8
	<b>1/4</b>	<b>19</b>	13,16	100	22	11	9	4	11,8
	<b>3/8</b>	<b>19</b>	16,66	100	22	12	9	4	15,25
	<b>1/2</b>	<b>14</b>	20,96	125	25	16	12	4	19
	<b>3/4</b>	<b>14</b>	26,44	140	25	20	16	4	24,5

CODICE - CODE

V25G...TXC

○

○

○

○

○

Confezione / Box / Colis:  
 1/8 G: 10 pezzi / pcs  
 1/4 G - 3/8 G: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

**94**

● Standard

○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande







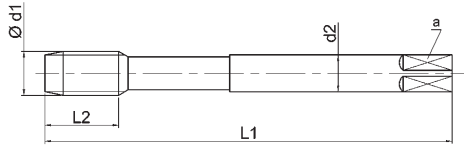




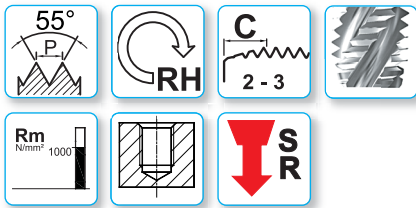
**INOX**
**ACCIAIO INOSSIDABILE**  
 Stainless steel - Acier inoxydable

**MASCHI A MACCHINA**

MACHINE TAPS - TARAUDS MACHINE

**DIN 5156**

**TOP**


R48°



Profond. di filettatura - Thread depth - Profond. de filetage

**3,5xD**

Materiale - Material - Matériau

**HSSV3**

Tolleranza - Tolerance - Tolérance

**ISO 228X**

Trattamento superficiale - Surface treatment - Revêtement

**TXC**

 Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

**1.3 1.4 1.5**
**2.1 2.2 2.3 2.4**

DIN 5156	Ød1 GAS	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	<b>1/8</b>	<b>28</b>	9,73	90	15	7	5,5	3	8,8
	<b>1/4</b>	<b>19</b>	13,16	100	15	11	9	3	11,8
	<b>3/8</b>	<b>19</b>	16,66	100	15	12	9	4	15,25
	<b>1/2</b>	<b>14</b>	20,96	125	18	16	12	4	19
	<b>3/4</b>	<b>14</b>	26,44	140	20	20	16	4	24,5
	<b>1"</b>	<b>11</b>	33,25	160	24	25	20	5	30,75

CODICE - CODE

**V83G...TXC**

 ○  
○  
○  
○  
○  
○

 RACCOMANDATO per filettatura rigida  
 We recommend Synco rigid threading  
 Recommandé pour le taraudage rigide

 Confezione / Box / Colis:  
 6 – 7/16: 10 pezzi / pcs  
 1/2 – 9/16: 5 pezzi / pcs  
 Oltre / up: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

**96**

● Standard

 ○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

 ★ Solo a richiesta  
 Only on request / Sur demande

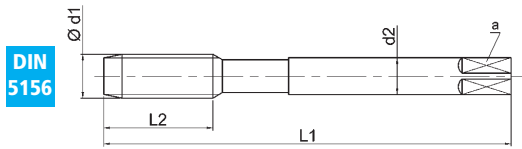
### MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

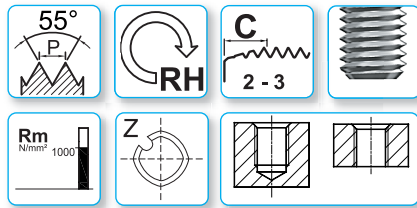
### P - SERIES

### MASCHI A RULLARE

Roll form taps - Tarauds à refolder



DIN 5156



LINE

LINE

TOP

TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
 Material's groups number  
 Nombre de groupes du matériau

3xD	3xD	3xD	3xD
HSSP	HSSP	PM3	PM3
ISO 228X	ISO 228X	ISO 228X	ISO 228X
BR	TiN	TiN-G	TiN-G
1.1 1.2 1.3	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4 1.5	1.1 1.2 1.3 1.4 1.5
4.1 4.2	2.1 2.2 2.3	2.1 2.2 2.3 2.4	2.1 2.2 2.3 2.4
	4.1 4.2 4.3	4.1 4.2 4.3	4.1 4.2 4.3
	5.1 5.2	5.1 5.2 7.1 7.2	5.1 5.2 7.1 7.2

DIN 5156	$\varnothing d1$ GAS	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	Z	
	1/8	28	9,73	90	15	7	5,5	5	9,25
	1/4	19	13,16	100	22	11	9	6	12,5
	3/8	19	16,66	100	22	12	9	6	16
	1/2	14	20,96	125	25	16	12	8	20
	3/4	14	26,44	140	25	20	16	8	25,5

P2CCG...	CODICE - CODE		
	P2CCG...T	X2CCG...TG	X2CCG...FOR-TG
•	○	•	○
•	○	•	○
•	○	•	○
•	○	•	○
○	○	○	○

Confezione: Singola  
 Box: Single  
 Colis: Unique

€ Pag. listino - Price list - Liste des prix

96

96

96

96

• Standard

○ Disponibilità da richiedere, prezzo a listino  
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
 Only on request / Sur demande



N

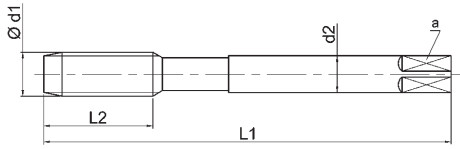
USO GENERALE

General purpose - Usage Général

### MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

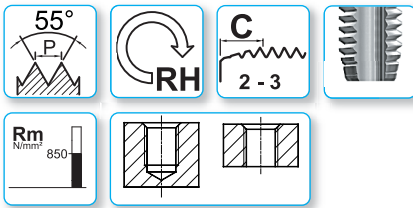
DIN 5156



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

1,5xD

1,5xD

HSSE

HSSE

ISO 5969

ISO 5969

BR

TiN

1.1 1.2 1.3 1.4 3.4

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

4.2 4.3 5.2 5.3

8.2

8.2

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

DIN 5156	Ød1 GAS	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	1/8	28	9,73	90	15	7	5,5	3	8,6
	1/4	19	13,16	100	22	11	9	3	11,5
	3/8	19	16,66	100	22	12	9	3	15
	1/2	14	20,96	125	25	16	12	4	18,5
	3/4	14	26,44	140	25	20	16	4	24
	1"	11	33,25	160	30	25	20	5	30,25
	1"1/4	11	41,91	170	30	32	24	6	39
■	1"1/2	11	47,8	190	32	36	29	6	45
■	2"	11	59,61	220	40	45	35	6	56,5

■ = Acciaio HSS / HSS Steel / Acier HSS

Per accoppiamento a tenuta sul filetto.

Where pressure-tight joints are made on the threads.

Pour une tolérance serrée sur le filet.

Für im Gewinde dichtende Verbindungen.

Para conexiones herméticas en la rosca.

CODICE - CODE

E21RP...

E21RP...T

○

○

○

○

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○

○

○

○

○

○

# NPSM NPSF



N

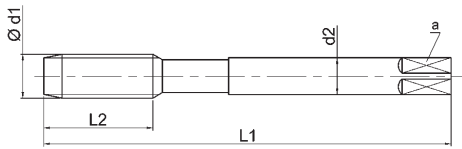
USO GENERALE

General purpose - Usage Général

### MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 5156



LINE

LINE



Profond. di filettatura - Thread depth - Profond. de filetage

1,5xD

1,5xD

Materiale - Material - Matériau

HSSE

HSSE

Tolleranza - Tolerance - Tolérance

-

-

Trattamento superficiale - Surface treatment - Revêtement

BR

TiN

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1.1 1.2 1.3 1.4 3.4

1.1 1.2 1.3 1.4 3.4

4.2 4.3 5.2 5.3

4.2 4.3 5.2 5.3

8.2

8.2

DIN 5156	$\varnothing d1$	P TPI	$\varnothing$ mm	$L_1$	$L_2$	$d_2$ h9	a h12	F	NPSM	NPSC
1/8	27	10,1	90	15	7	5,5	9,10	8,8		
1/4	18	13,404	100	22	11	9	12	11,4		
3/8	18	16,843	100	22	12	9	15,5	14,8		
1/2	14	20,949	125	25	16	12	19	18,5		
3/4	14	26,296	140	25	20	16	24,5	23,8		
1"	11,5	32,895	160	30	25	20	30,5	29,9		

CODICE - CODE  
E21NPSM... E21NPSM...T

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<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Filettatura gas meccanica, ex NPS. Utilizzabile anche per NPSC.  
For mechanical joints, previously NPS. Can also be used for NPSC thread.  
Filetage gaz mécanique, ancien NPS. Il peut également être utilisé pour NPSC.  
Mechanisches Rohrgewinde, früher NPS. Auch für NPSC verwendbar.  
Rosca gas mecánica, antes NPS. También utilizable para NPSC.

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

97

97

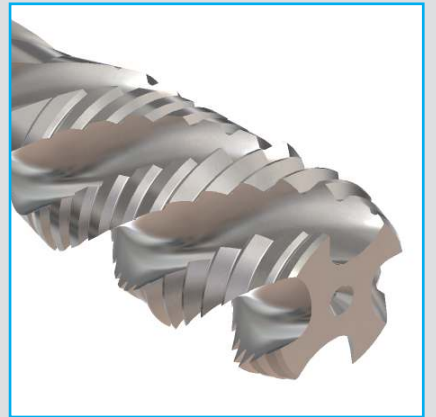
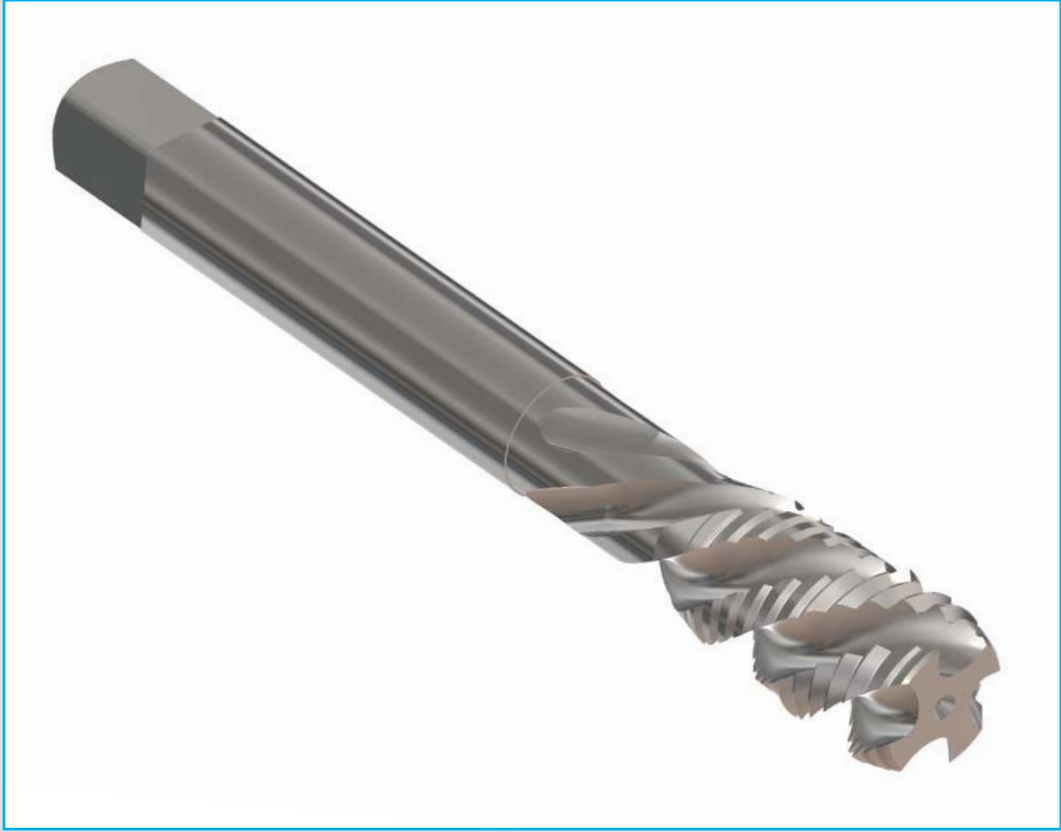
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande







Rc-NPT-NPTF



Rc NPT NPTF

Forte espansione sui mercati esteri

*Great expansion in export markets*

*Forte expansion sur les marchés étrangers*

INTERNATIONAL



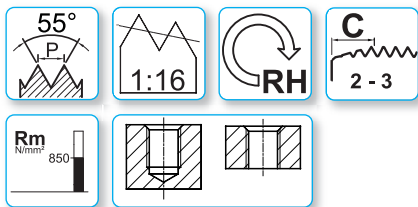
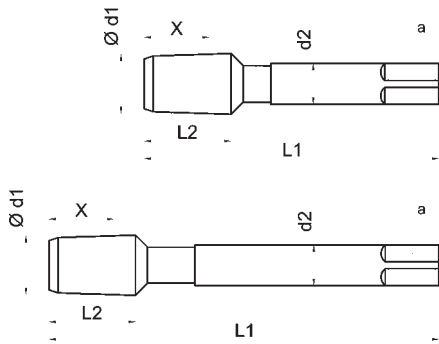
N

USO GENERALE

General purpose - Usage Général

### MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE



LINE

LINE

LINE

LINE



New

R15°



New

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

-	-	-	-
HSSE	HSSE	HSSE	HSSE
-	-	-	-
BR	V	BR	TXC
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
3.3 3.4 4.2 4.3	2.1 2.2 2.3	3.3 3.4 4.2 4.3	2.1 2.2 2.3
5.3	3.1 3.2 3.3 3.4	5.3	3.1 3.2 3.3 3.4
	4.2 4.3 4.4 5.2 5.3		4.2 4.3 4.4 5.2 5.3

Rc

Ød1 Rc	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/8	28	9,728	63	13	7	5,5	10,1	8,20
1/4	19	13,157	63	20	11	9	15,0	11
3/8	19	16,662	70	20	12	9	15,4	14,5
1/2	14	20,955	80	26	16	12	20,4	18
3/4	14	26,441	100	28	20	16	21,7	23,5
1"	11	33,249	110	34	25	20	26	29,5
1 1/4"	11	41,910	125	36	32	24	28,3	38
1 1/2"	11	47,803	140	36	36	29	28,3	44
2"	11	59,614	160	40	45	35	32,6	55,5

CODICE - CODE	
E21CRC...	E41CRC...V
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Ød1 Rc	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/8	28	9,728	90	13	7	5,5	10,1	8,20
1/4	19	13,157	100	20	11	9	15,0	11
3/8	19	16,662	110	20	12	9	15,4	14,5
1/2	14	20,955	125	26	16	12	20,4	18
3/4	14	26,441	140	28	20	16	21,7	23,5
1"	11	33,249	160	34	25	20	26	29,5
1 1/4"	11	41,910	160	36	32	24	28,3	38
1 1/2"	11	47,803	190	36	36	29	28,3	44
2"	11	59,614	200	40	45	35	32,6	55,5

CODICE - CODE	
E21LRC...	E21LRC...TXC
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

■ = Acciaio HSS / HSS Steel

Per accoppiamento a tenuta sul filetto.  
Where pressure-tight joints are made on the threads.  
Pour une tolérance serrée sur le filet.  
Für im Gewinde dichtende Verbindungen.  
Para conexiones herméticas en la rosca.

\* Diametri di foratura cilindrici.  
Per alesatura conica vedi tabella pag. 258  
\* Cylindric hole.  
For conic hole see on page 258  
\* Diamètres de perçage cylindrique.  
Pour alésage conique voir tableau page 258

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix  
● Standard

97  
○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

98  
★ Solo a richiesta  
Only on request / Sur demande



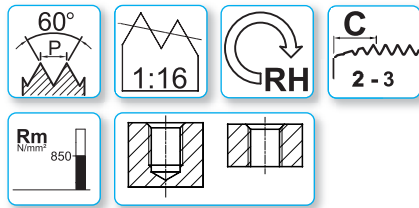
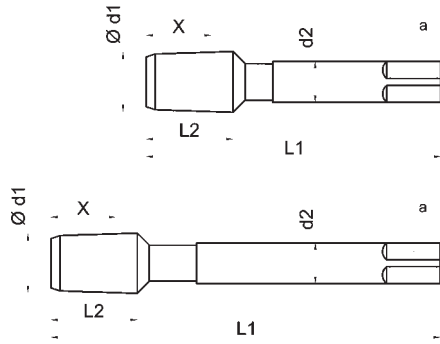
N

USO GENERALE

General purpose - Usage Général

## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE



LINE

LINE

LINE

LINE



R15°



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

-	-	-	-
HSSE	HSSE	HSSE	HSSE
-	-	-	-
BR	V	BR	TXC
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
3.3 3.4 4.2 4.3	2.1 2.2 2.3	3.3 3.4 4.2 4.3	2.1 2.2 2.3
5.3	3.1 3.2 3.3 3.4	5.3	3.1 3.2 3.3 3.4
	4.2 4.3 4.4 5.2 5.3		4.2 4.3 4.4 5.2 5.3

NPT

Ød1 NPT	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	63	13	6	4,9	9,3	6,2
1/8	27	10,287	63	13	7	5,5	9,3	8,5
1/4	18	13,716	63	20	11	9	13,5	11
3/8	18	17,145	70	20	12	9	13,9	14,5
1/2	14	21,336	80	26	16	12	18,1	17,9
3/4	14	26,670	100	26	20	16	18,6	23,2
1"	11,5	33,401	110	32	25	20	22,3	29
1 1/4	11,5	42,164	125	32	32	24	22,8	37,8
1 1/2	11,5	48,260	140	32	36	29	22,8	44
2"	11,5	60,325	160	36	45	35	23,2	56

CODICE - CODE	
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<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Ød1 NPT	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	90	13	6	4,9	9,3	6,2
1/8	27	10,287	90	13	7	5,5	9,3	8,5
1/4	18	13,716	100	20	11	9	13,5	11
3/8	18	17,145	110	20	12	9	13,9	14,5
1/2	14	21,336	125	26	16	12	18,1	17,9
3/4	14	26,670	140	26	20	16	18,6	23,2
1"	11,5	33,401	160	32	25	20	22,3	29
1 1/4	11,5	42,164	160	32	32	24	22,8	37,8
1 1/2	11,5	48,260	190	32	36	29	22,8	44
2"	11,5	60,325	200	36	45	35	23,2	56

CODICE - CODE	
E21LNPT...	E21LNPT...TXC
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<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

\* Diametri di foratura cilindrici.  
Per alesatura conica vedi tabella pag. 258  
\* Cylindric hole.  
For conic hole see on page 258  
\* Diamètres de perçage cylindrique.  
Pour alésage conique voir tableau page 258

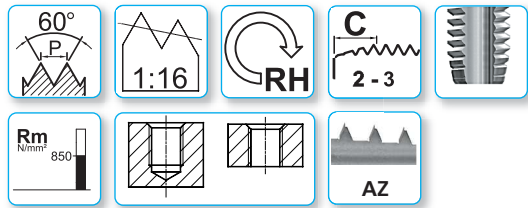
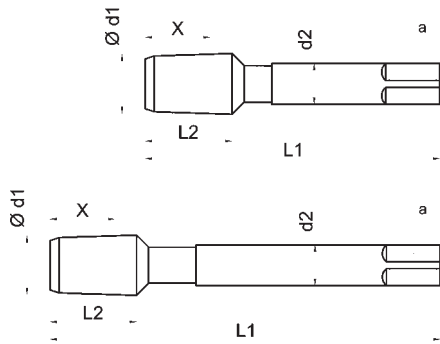
■ = Acciaio HSS / HSS Steel / Acier HSS

Confezione: Singola Box: Single Colis: Unique	€ Pag. listino - Price list - Liste des prix	98	98	98	98
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande	



**N** **USO GENERALE**  
 General purpose - Usage Général

**MASCHI A MACCHINA**  
 MACHINE TAPS - TARAUDS MACHINE



Profond. di filettatura - Thread depth - Profond. de filetage	-	-
Materiale - Material - Matériau	<b>HSSE</b>	<b>HSSE</b>
Tolleranza - Tolerance - Tolérance	-	-
Trattamento superficiale - Surface treatment - Revêtement	<b>BR</b>	<b>BR</b>
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	<b>1.1</b>	<b>1.1</b>
	<b>2.1 2.2</b>	<b>2.1 2.2</b>
	<b>4.1 4.2 5.1 5.2</b>	<b>4.1 4.2 5.1 5.2</b>

Ød1 NPT	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	63	13	6	4,9	9,3	6,2
1/8	27	10,287	63	13	7	5,5	9,3	8,5
1/4	18	13,716	63	20	11	9	13,5	11
3/8	18	17,145	70	20	12	9	13,9	14,5
1/2	14	21,336	80	26	16	12	18,1	17,9
3/4	14	26,670	100	26	20	16	18,6	23,2
1"	11,5	33,401	110	32	25	20	22,3	29
1 1/4"	11,5	42,164	125	32	32	24	22,8	37,8
1 1/2"	11,5	48,260	140	32	36	29	22,8	44
2"	11,5	60,325	160	36	45	35	23,2	56

CODICE - CODE	
E21CNPT...AZ	
○	
○	
○	
○	
○	
○	
○	
○	
○	
○	

Ød1 NPT	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	90	13	6	4,9	9,3	6,2
1/8	27	10,287	90	13	7	5,5	9,3	8,5
1/4	18	13,716	100	20	11	9	13,5	11
3/8	18	17,145	110	20	12	9	13,9	14,5
1/2	14	21,336	125	26	16	12	18,1	17,9
3/4	14	26,670	140	26	20	16	18,6	23,2
1"	11,5	33,401	160	32	25	20	22,3	29
1 1/4"	11,5	42,164	160	32	32	24	22,8	37,8
1 1/2"	11,5	48,260	190	32	36	29	22,8	44
2"	11,5	60,325	200	36	45	35	23,2	56

CODICE - CODE	
E21LNPT...AZ	
★	
○	
○	
○	
○	
○	
○	
○	
○	
○	

■ = Acciaio HSS / HSS Steel / Acier HSS

\* Diametri di foratura cilindrici.  
Per alesatura conica vedi tabella pag. 258  
 \* Cylindric hole.  
For conic hole see on page 258  
 \* Diamètres de perçage cylindrique.  
Pour alésage conique voir tableau page 258

Confezione: Singola Box: Single Colis: Unique	€ Pag. listino - Price list - Liste des prix	<b>98</b>	<b>99</b>
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	★ Solo a richiesta Only on request / Sur demande	



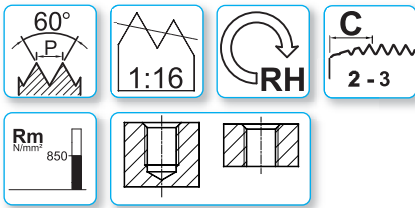
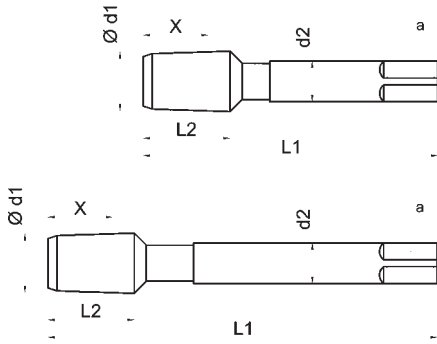
N

USO GENERALE

General purpose - Usage Général

## MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE



LINE

LINE

LINE

LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

-	-	-	-
HSSE	HSSE	HSSE	HSSE
-	-	-	-
BR	V	BR	TXC
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
3.3 3.4 4.2 4.3	2.1 2.2 2.3	3.3 3.4 4.2 4.3	2.1 2.2 2.3
5.3	3.1 3.2 3.3 3.4	5.3	3.1 3.2 3.3 3.4
	4.2 4.3 4.4 5.2 5.3		4.2 4.3 4.4 5.2 5.3

NPTF

Ød1 NPTF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	63	13	6	4,9	9,3	6,1
1/8	27	10,287	63	13	7	5,5	9,3	8,45
1/4	18	13,716	63	20	11	9	13,5	10,9
3/8	18	17,145	70	20	12	9	13,9	14,3
1/2	14	21,336	80	26	16	12	18,1	17,6
3/4	14	26,670	100	26	20	16	18,6	23,0
1"	11,5	33,401	110	32	25	20	22,3	28,75
1 1/4"	11,5	42,164	125	32	32	24	22,8	37,5
1 1/2"	11,5	48,260	140	32	36	29	22,8	43,75
2"	11,5	60,325	160	36	45	35	23,2	55,75

CODICE - CODE	
E21CNPTF...	E41CNPTF...V
*	*
o	o
o	o
o	o
o	o
o	o
o	o
o	o
o	o
o	o

Ød1 NPTF	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	X	F*
1/16	27	7,938	90	13	6	4,9	9,3	6,1
1/8	27	10,287	90	13	7	5,5	9,3	8,45
1/4	18	13,716	100	20	11	9	13,5	10,9
3/8	18	17,145	110	20	12	9	13,9	14,3
1/2	14	21,336	125	26	16	12	18,1	17,6
3/4	14	26,670	140	26	20	16	18,6	23,0
1"	11,5	33,401	160	32	25	20	22,3	28,75
1 1/4"	11,5	42,164	160	32	32	24	22,8	37,5
1 1/2"	11,5	48,260	190	32	36	29	22,8	43,75
2"	11,5	60,325	200	36	45	35	23,2	55,75

CODICE - CODE	
E21LNPTF...	E21LNPTF...TXC
*	*
o	o
o	o
o	o
o	o
o	o
o	o
o	o
o	o
o	o

\* Diametri di foratura cilindrici.  
Per alesatura conica vedi tabella pag. 258

\* Cylindric hole.  
For conic hole see on page 258

\* Diamètres de perçage cylindrique.  
Pour alésage conique voir tableau page 258

■ = Acciaio HSS / HSS Steel / Acier HSS

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

99

99

99

99

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande





# BSW-PG-Tr-Rd



BSW PG Tr Rd

Qualità certificata... ma non solo dal Certificatore  
*Certified quality... but not only by the certifier*  
*Qualité certifiée...*

**QUALITY**



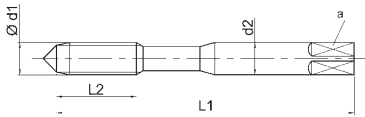




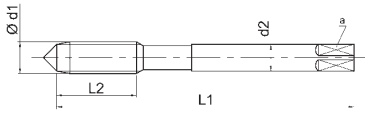
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

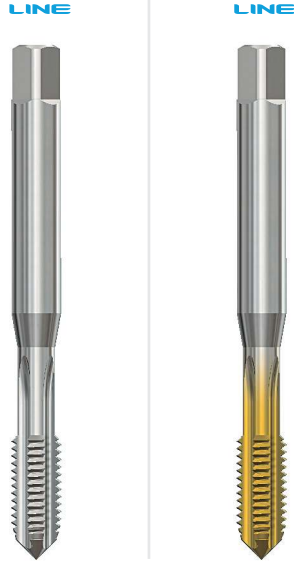
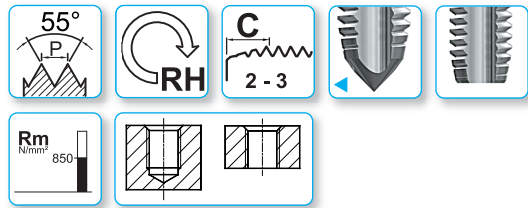
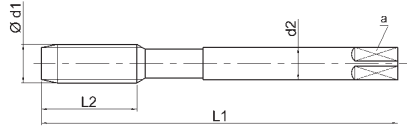
**DIN 371**



**DIN 376**



**DIN 376**



**Profond. di filettatura - Thread depth - Profond. de filetage**  
**Materiale - Material - Matériau**  
**Tolleranza - Tolerance - Tolérance**  
**Trattamento superficiale - Surface treatment - Revêtement**

**Numero gruppi materiali**  
Material's groups number  
Nombre de groupes du matériau

<b>1,5xD</b>	<b>1,5xD</b>
<b>HSSE</b>	<b>HSSE</b>
<b>med.</b>	<b>med.</b>
<b>BR</b>	<b>TiN</b>
1.1 1.2 1.3 1.4 3.4	1.1 1.2 1.3 1.4 3.4
4.2 4.3 5.2 5.3	4.2 4.3 5.2 5.3
8.2	8.2

DIN 371	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/8	40	3,175	56	10	3,5	2,7	3	2,5
◀	3/16	24	4,762	70	13	6	4,9	3	3,6
◀	1/4	20	6,350	80	16	7	5,5	3	5
◀	5/16	18	7,938	90	18	8	6,2	3	6,5
◀	3/8	16	9,525	100	20	10	8	3	7,9

CODICE - CODE	
E20W...	E20W...T
○	○
○	○
○	○
○	○
○	○

DIN 376	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	5/16	18	7,938	90	18	6	4,9	3	6,5
◀	3/8	16	9,525	100	20	7	5,5	3	7,9
	7/16	14	11,113	100	20	8	6,2	3	9,2
	1/2	12	12,700	110	25	9	7	3	10,5
	9/16	12	14,288	110	28	11	9	3	12
	5/8	11	15,876	110	28	12	9	3	13,4
	3/4	10	19,051	125	32	14	11	4	16,4
	7/8	9	22,226	140	32	18	14,5	4	19,25
	1"	8	25,401	160	36	18	14,5	4	22
	1" 1/8	7	28,576	180	46	22	18	4	24,75
	1" 1/4	7	31,751	180	46	22	18	4	27,5
	1" 3/8	6	34,926	200	50	28	22	4	30,5
	1" 1/2	6	38,101	200	50	28	22	4	33,5

CODICE - CODE	
E21W...	E21W...T
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○
○	○

N

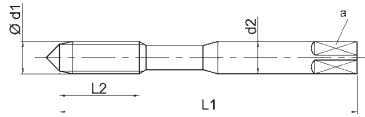
USO GENERALE

General purpose - Usage Général

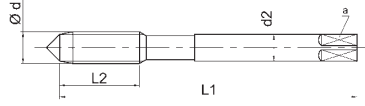
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

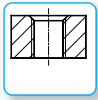
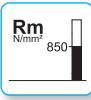
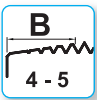
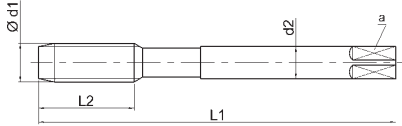
DIN 371



DIN 376



DIN 376



LINE



LINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

3xD

HSSE

med.

BR

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

med.

V

1.1 1.2 1.3 1.4

4.1 4.2

5.1 5.2

3xD

HSSE

med.

TiN

1.1 1.2 1.3 1.4

3.3 3.4

4.1 4.2 4.3

3xD

HSSE

med.

XP

1.1 1.2 1.3 1.4

2.1 2.2 3.3 3.4

4.2 4.3

5.2

DIN 371	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/8	40	3,175	56	10	3,5	2,7	3	2,5
◀	3/16	24	4,762	70	13	6	4,9	3	3,6
◀	1/4	20	6,350	80	16	7	5,5	3	5
◀	5/16	18	7,938	90	18	8	6,2	3	6,5
◀	3/8	16	9,525	100	20	10	8	3	7,9

DIN 376	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	5/16	18	7,938	90	18	6	4,9	3	6,5
◀	3/8	16	9,525	100	20	7	5,5	3	7,9
	7/16	14	11,113	100	20	8	6,2	3	9,2
	1/2	12	12,700	110	25	9	7	3	10,5
	9/16	12	14,288	110	28	11	9	3	12
	5/8	11	15,876	110	28	12	9	3	13,4
	3/4	10	19,051	125	32	14	11	4	16,4
	7/8	9	22,226	140	32	18	14,5	4	19,25
	1"	8	25,401	160	36	18	14,5	4	22
	1"1/8	7	28,576	180	46	22	18	4	24,75
	1"1/4	7	31,751	180	46	22	18	4	27,5
	1"3/8	6	34,926	200	50	28	22	4	30,5
	1"1/2	6	38,101	200	50	28	22	4	33,5

E24W...	CODICE - CODE			E24W...XP
	E24W...V	E24W...T		
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	

E25W...	CODICE - CODE			E25W...XP
	E25W...V	E25W...T		
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	
○	○	○	○	

Confezione / Box / Collis:  
1/8 – 7/16: 10 pezzi / pcs  
1/2 – 5/8: 5 pezzi / pcs  
>5/8: singoli / single pcs

€ Pag. listino - Price list - Liste des prix

● Standard

101

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

101

101

★ Solo a richiesta  
Only on request / Sur demande

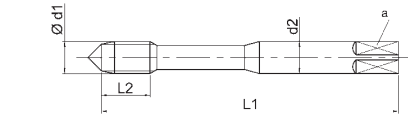
102



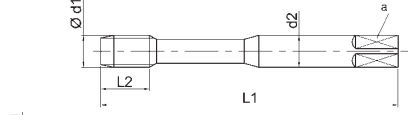
**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE

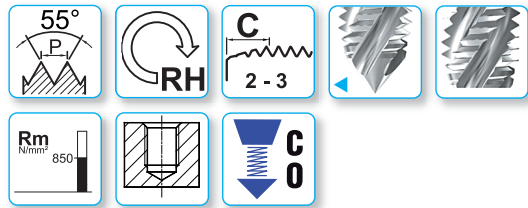
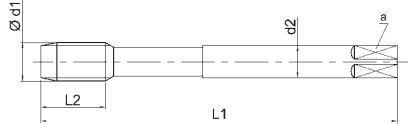
**DIN 371**



**DIN 371**



**DIN 376**



LINE



R40°

LINE



R40°

LINE



R40°

LINE



R40°

Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

2,5xD	2,5xD	2,5xD	2,5xD
HSSE	HSSE	HSSE	HSSE
med.	med.	med.	med.
BR	V	TiN	XP
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	4.1 4.2	3.3 3.4	2.1 2.2 3.3 3.4
5.1 5.2	5.1 5.2	4.1 4.2 4.3	4.2 4.3
		5.1 5.2	5.2

DIN 371	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	1/8	40	3,175	56	5	3,5	2,7	3	2,5
◀	3/16	24	4,762	70	8	6	4,9	3	3,6
◀	1/4	20	6,350	80	10	7	5,5	3	5
	5/16	18	7,938	90	13	8	6,2	3	6,5
	3/8	16	9,525	100	15	10	8	3	7,9

CODICE - CODE			
E60W...	E60W...V	E60W...T	E60W...XP
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

DIN 376	Ød1 BSW	P TPI	Ø mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
	5/16	18	7,938	90	13	6	4,9	3	6,5
	3/8	16	9,525	100	15	7	5,5	3	7,9
	7/16	14	11,113	100	15	8	6,2	3	9,2
	1/2	12	12,700	110	18	9	7	3	10,5
	9/16	12	14,288	110	20	11	9	3	12
	5/8	11	15,876	110	20	12	9	3	13,4
	3/4	10	19,051	125	25	14	11	4	16,4
	7/8	9	22,226	140	25	18	14,5	4	19,25
	1"	8	25,401	160	30	18	14,5	4	22
	1" 1/8	7	28,576	180	35	22	18	4	24,75
	1" 1/4	7	31,751	180	35	22	18	4	27,5
	1" 3/8	6	34,926	200	40	28	22	4	30,5
	1" 1/2	6	38,101	200	40	28	22	4	33,5

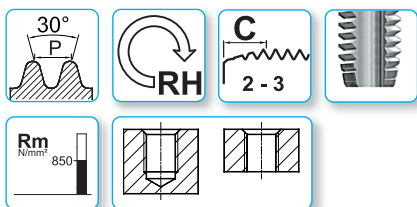
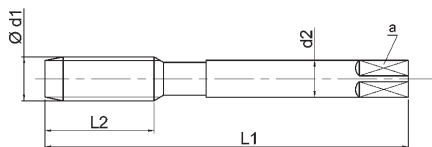
CODICE - CODE			
E61W...	E61W...V	E61W...T	E61W...XP
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○





## MASCHI A FILETTATURA TONDA

### ROUND THREAD TAPS - TARAUD AVEC FILETS RONDS



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Numero gruppi materiali

Material's groups number

Nombre de groupes du matériau

1xD

1xD

HSSE

HSSE

7H

7H

BR

TiN

1.1 1.2 1.3 1.4

1.1 1.2 1.3 1.4

4.1 4.2

3.1 3.2 3.3 3.4

5.1 5.2

4.2 4.3 4.4

5.2 5.3

Ød1 Rd	P TPI	L	L <sub>1</sub>	d <sub>2</sub> h <sub>9</sub>	a <sub>2</sub> h <sub>12</sub>	Z	
8	10	70	22	8	6,2	3	6
9	10	70	22	8	6,2	3	7
10	10	70	22	8	6,2	3	8
11	10	70	22	8	6,2	3	9
12	10	75	25	9	7	3	10
14	8	80	26	11	9	3	11,5
16	8	80	27	12	9	3	13,5
18	8	95	32	14	11	4	15,5
20	8	95	32	16	12	4	17,5
22	8	100	32	18	14,5	4	19,5
24	8	110	36	18	14,5	4	21,5
26	8	110	36	20	16	4	23,5
28	8	125	34	22	18	4	25,5
30	8	125	34	22	18	4	27,5

Altri diametri disponibili a richiesta.  
Other diameters available on request.  
Autres diamètres disponibles sur demande.

A richiesta:  
Filettatura tonda per il settore minerario DIN 20400  
Filettatura tonda per il settore del trasporto su rotaia DIN 264

On request:  
Round thread for mining industries DIN 20400  
Round thread for rail vehicles DIN 264

Sur demande:  
Filetage rond selon DIN 20400

CODICE - CODE

E21RD...

E21RD...T

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Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

104

104

• Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande



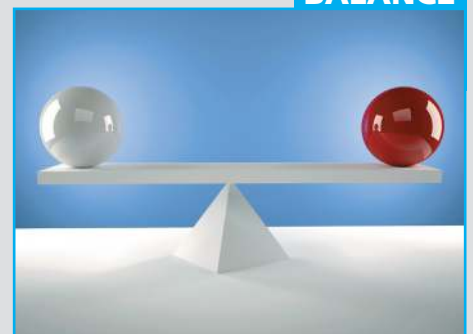
# ISO529-EG M-KOMBI



ISO529 EGM KOMBI

Il prezzo è importante... e lo sappiamo!  
*The price is important... and we know it!*  
*Excellent rapport qualité Prix*

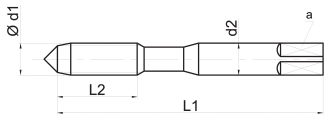
**BALANCE**



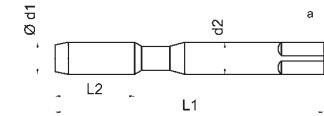
## MASCHI A MACCHINA

### MACHINE TAPS - TARAUDS MACHINE

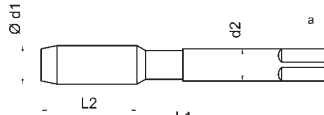
ISO 529



ISO 529



ISO 529



LINE



TOP



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

Al Si > 10%,  
Ottone / Brass / Laiton  
Bronzo / Bronze / Bronze  
truciolo corto / short chip /  
coupeaux courts

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

3XD

3xD

HSSE

PM3

6HX

6HX

TiCN

TXC

3.1 3.2 3.3 3.4 3.5

1.5 1.6

4.3 4.4 4.5 4.6 5.3

3.1 3.2 3.3 3.4 3.5

8.2 10.1

4.4 5.3 5.4

8.2 8.3 10.1

ISO 529	Ød1 M	P mm	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
◀	3	0,5	48	11	3,15	2,5	3	2,5
◀	4	0,7	53	13	4	3,15	3	3,3
◀	5	0,8	58	16	5	4	3	4,2
◀	6	1	66	19	6,3	5	3	5
◀	6	1	66	19	6,3	5	4	5
	8	1,25	72	22	8	6,3	4	6,8
	10	1,5	80	24	10	8	4	8,5
	12	1,75	89	29	9	7,1	4	10,30
	14	2	95	30	11,2	9	4	12
	16	2	102	32	12,5	10	4	14
	18	2,5	112	37	14	11,20	4	15,5
	20	2,5	112	37	14	11,20	4	17,5

CODICE - CODE

529E26M...CT

\*529K26M...TXC

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Confezione / Box / Colis:  
M3 – M10: 10 pezzi / pcs  
M312 – M16: 5 pezzi / pcs

€ Pag. listino - Price list - Liste des prix

104

104

• Standard

o Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande







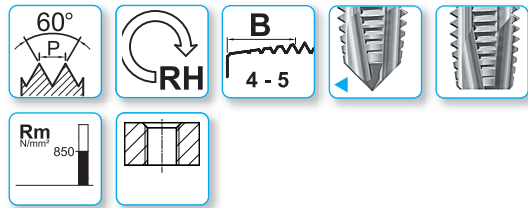
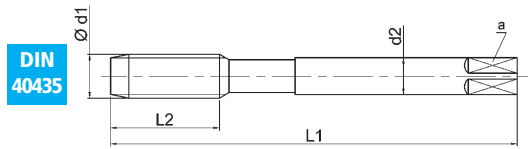
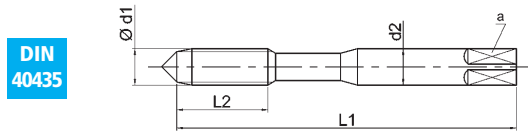
# EG M





**N** **USO GENERALE**  
General purpose - Usage Général

**MASCHI A MACCHINA**  
MACHINE TAPS - TARAUDS MACHINE



LINE



LINE



Profond. di filettatura - Thread depth - Profond. de filetage

Materiale - Material - Matériau

Tolleranza - Tolerance - Tolérance

Trattamento superficiale - Surface treatment - Revêtement

<b>3xD</b>	<b>3xD</b>
<b>HSSE</b>	<b>HSSE</b>
<b>6H mod</b>	<b>6H mod</b>
<b>BR</b>	<b>XP</b>
1.1 1.2 1.3 1.4	1.1 1.2 1.3 1.4
4.1 4.2	2.1 2.2 3.3 3.4
5.1 5.2	4.2 4.3
	5.2

Numero gruppi materiali  
Material's groups number  
Nombre de groupes du matériau

DIN 40435	EG M	P mm	Ød1	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
3	0,5	3,65	63	13	4,5	3,4	3	3,15	
4	0,7	4,91	70	13	6	4,9	3	4,20	
5	0,8	6,04	80	16	6	4,9	3	5,25	
6	1	7,3	90	18	8	6,2	3	6,30	
8	1,25	9,624	100	20	10	8	3	8,40	

CODICE - CODE	
E24EGM...	E24EGM...XP
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

DIN 40435	EG M	P mm	Ød1	L <sub>1</sub>	L <sub>2</sub>	d <sub>2</sub> h9	a h12	Z	
10	1,5	11,948	100	22	9	7	3	10,5	
12	1,75	14,274	110	28	11	9	3	12,5	
14	2	16,598	110	28	12	9	3	14,5	
16	2	18,598	125	33	14	11	4	16,5	
18	2,5	21,248	140	33	18	14,5	4	18,75	
20	2,5	23,248	160	39	18	14,5	4	20,75	

CODICE - CODE	
E25EGM...	E25EGM...XP
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>



# KOMBI









Alla data prevista il corriere consegna!

*Goods are delivered punctually on the given date*

*Livraison rapide ! Stock important*

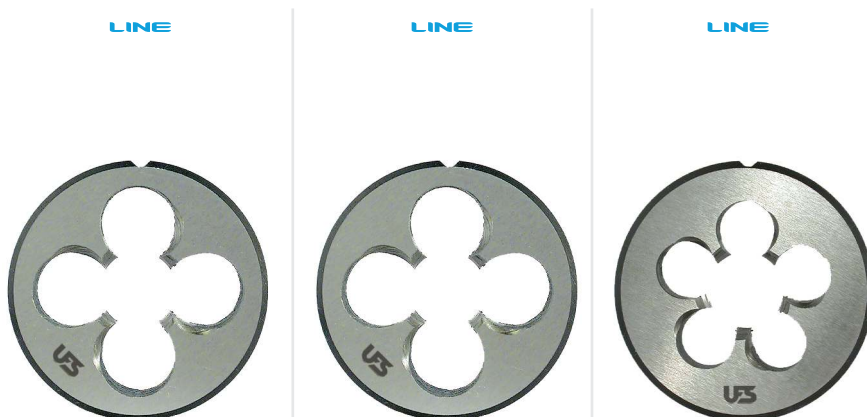
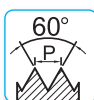
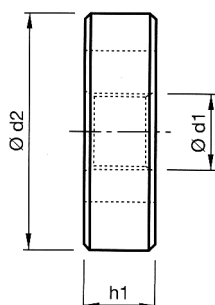
**ON TIME**



## FILIERE TONDE IMBOCCO CORRETTO

ROUND SPLIT DIES WITH SPIRAL POINTED - FILIÈRES RONDES, ENTRÉE GUN

DIN - EN 22568



Filettatura sinistra - LH  
Left hand  
Filetage Gauche - LH

Inox  
Stainless Steel

Materiale - Material - Matériau

HSS

HSS

HSSE

Imbocco - Chamfer - Entrée

1,75xP

1,75xP

1,75xP

Tolleranza - Tolerance - Tolérance

ISO / 6g

ISO / 6g

ISO / 6g

Trattamento superficiale - Surface treatment - Revêtement

BR

BR

BR

Ød <sub>1</sub> M	P mm	Ød <sub>2</sub>	h <sub>1</sub>	100-99M...	CODICE - CODE 100S99M...	100E99XM...
2	0,4	16	5	○	-	-
2,2	0,45	16	5	○	-	-
2,3	0,4	16	5	○	-	-
2,5	0,45	16	5	○	-	-
2,6	0,45	16	5	○	-	-
3	0,5	20	5	○	○	○
3,5	0,6	20	5	○	-	-
4	0,7	20	5	○	○	○
4,5	0,75	20	7	○	-	-
5	0,8	20	7	○	○	○
6	1	20	7	○	○	○
7	1	25	9	○	○	-
8	1,25	25	9	○	○	○
9	1,25	25	9	○	○	-
10	1,5	30	11	○	○	-
11	1,5	30	11	○	○	-
12	1,75	38	14	○	○	○
14	2	38	14	○	○	○
16	2	45	18	○	○	○
18	2,5	45	18	○	○	○
20	2,5	45	18	○	○	○
22	2,5	55	22	○	○	○
24	3	55	22	○	○	○
27	3	65	25	○	○	○
30	3,5	65	25	○	○	○
33	3,5	65	25	○	○	○
36	4	65	25	○	○	○
39	4	75	30	○	○	○
42	4,5	75	30	○	○	○
45	4,5	90	36	○	○	○
48	5	90	36	○	○	○
52	5	90	36	○	○	○

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

111

111

111

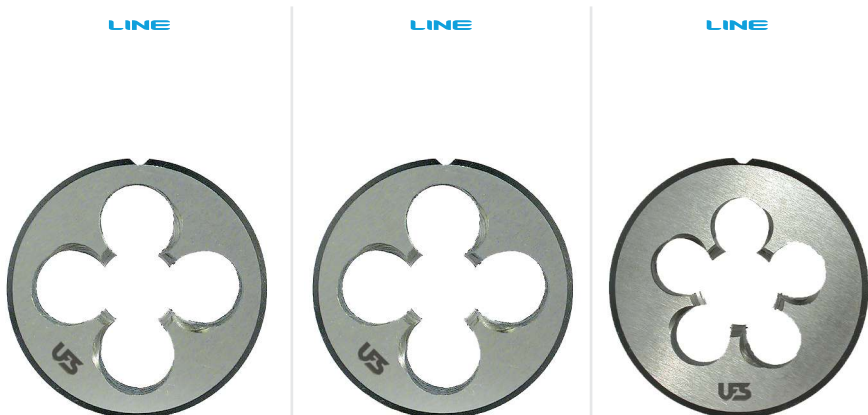
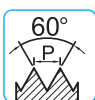
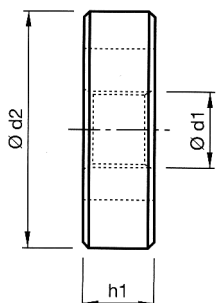
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

**FILIERE TONDE IMBOCCO CORRETTO**  
 ROUND SPLIT DIES WITH SPIRAL POINTED - FILIÈRES RONDES, ENTRÉE GUN

DIN - EN 22568



Filettatura sinistra - LH  
 Left hand  
 Filetage Gauche - LH

Inox  
 Stainless Steel

Materiale - Material - Matériau	HSS	HSS	HSSE
Imbocco - Chamfer - Entrée	1,75xP	1,75xP	1,75xP
Tolleranza - Tolerance - Tolérance	ISO / 6g	ISO / 6g	ISO / 6g
Trattamento superficiale - Surface treatment - Revêtement	BR	BR	BR

Ød <sub>1</sub> MF	P mm	Ød <sub>2</sub>	h <sub>1</sub>	CODICE - CODE		
				110-99M...	110S99M...	110E99XM...
2	0,25	16	5	○	*	-
2,2	0,25	16	5	○	*	-
2,5	0,35	16	5	○	*	-
3	0,35	20	5	○	*	*
4	0,5	20	5	○	○	○
5	0,5	20	5	○	○	○
6	0,75	20	7	○	○	○
7	0,75	25	9	○	○	*
8	0,75	25	9	○	○	*
8	1	25	9	○	○	○
9	0,75	25	9	○	○	*
9	1	25	9	○	○	*
10	0,75	30	11	○	○	○
10	1	30	11	○	○	○
10	1,25	30	11	○	○	*
11	1	30	10	○	○	*
12	1	38	10	○	○	○
12	1,25	38	10	○	○	○
12	1,5	38	10	○	○	○
13	1	38	10	○	*	*
13	1,5	38	10	○	*	*
14	1	38	10	○	○	○
14	1,25	38	10	○	○	○
14	1,5	38	10	○	○	○
15	1	38	10	○	○	*
15	1,5	38	10	○	○	*
16	1	45	14	○	○	○
16	1,25	45	14	○	○	*
16	1,5	45	14	○	○	○
18	1	45	14	○	○	○
18	1,5	45	14	○	○	○

Segue diametri  
 Diameters, to be continued - Diamètres à suivre ▶ Pag. 238-239

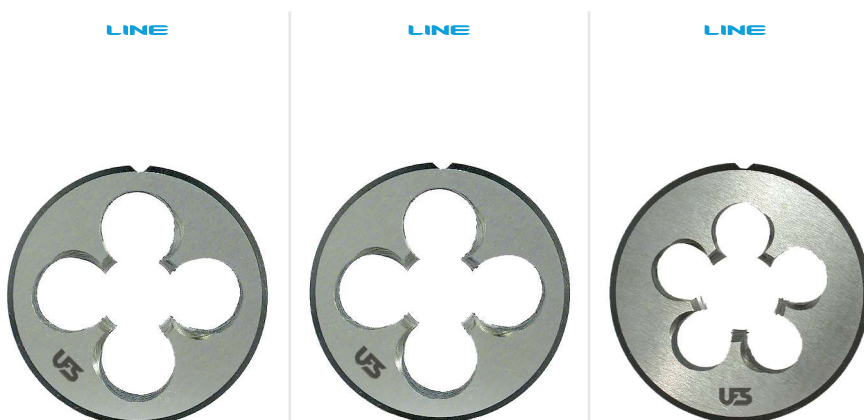
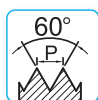
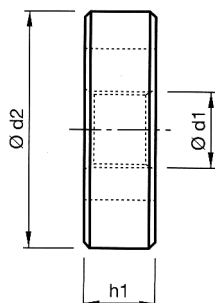
Confezione: Singola Box: Single Colis: Unique	€ Pag. listino - Price list - Liste des prix	112	113	113
	● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier		★ Solo a richiesta Only on request / Sur demande



## FILIERE TONDE IMBOCCO CORRETTO

ROUND SPLIT DIES WITH SPIRAL POINTED - FILIÈRES RONDES, ENTRÉE GUN

DIN - EN 22568



Filettatura sinistra - LH  
Left hand  
Filetage Gauche - LH

Inox  
Stainless Steel

Materiale - Material - Matériau	HSS	HSS	HSSE
Imbocco - Chamfer - Entrée	1,75xP	1,75xP	1,75xP
Tolleranza - Tolerance - Tolérance	ISO / 6g	ISO / 6g	ISO / 6g
Trattamento superficiale - Surface treatment - Revêtement	BR	BR	BR

Ød <sub>1</sub> MF	P mm	Ød <sub>2</sub>	h <sub>1</sub>	110-99M...	CODICE - CODE 110S99M...	110E99XM...
18	2	45	14	○	○	○
20	1	45	14	○	○	○
20	1,5	45	14	○	○	○
20	2	45	14	○	○	○
22	1	55	16	○	-	-
22	1,5	55	16	○	-	-
22	2	55	16	○	-	-
24	1	55	16	○	-	-
24	1,5	55	16	○	-	-
24	2	55	16	○	-	-
25	1	55	16	○	-	-
25	1,5	55	16	○	-	-
25	2	55	16	○	-	-
26	1	55	16	○	-	-
26	1,5	55	16	○	-	-
26	2	55	16	○	-	-
27	1	65	18	○	-	-
27	1,5	65	18	○	-	-
27	2	65	18	○	-	-
28	1	65	18	○	-	-
28	1,5	65	18	○	-	-
28	2	65	18	○	-	-
30	1	65	18	○	-	-
30	1,5	65	18	○	-	-
30	2	65	18	○	-	-
32	1	65	18	○	-	-
32	1,5	65	18	○	-	-
32	2	65	18	○	-	-
33	1	65	18	○	-	-
33	1,5	65	18	○	-	-
33	2	65	18	○	-	-

Segue diametri  
Diameters, to be continued - Diamètres à suivre ▶ Pag. 239

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

112

113

113

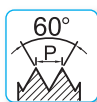
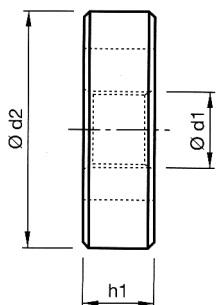
● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande

DIN - EN 22568

LINE



Materiale - Material - Matériau

HSS

Imbocco - Chamfer - Entrée

1,75xP

Tolleranza - Tolerance - Tolérance

ISO / 6g

Trattamento superficiale - Surface treatment - Revêtement

BR

Ød <sub>1</sub> MF	P mm	Ød <sub>2</sub>	h <sub>1</sub>	CODICE - CODE	
				110-99M...	
34	1	65	18	○	
34	1,5	65	18	○	
35	1	65	18	○	
35	1,5	65	18	○	
35	2	65	18	○	
36	1,5	65	18	○	
36	2	65	18	○	
36	3	65	25	○	
38	1	75	20	○	
38	1,5	75	20	○	
38	2	75	20	○	
39	1,5	75	20	○	
39	2	75	20	○	
39	3	75	30	○	
40	1,5	75	20	○	
40	2	75	20	○	
40	3	75	30	○	
42	1,5	75	20	○	
42	2	75	20	○	
42	3	75	30	○	
45	1,5	90	22	○	
45	2	90	22	○	
45	3	90	36	○	
48	1,5	90	22	○	
48	2	90	22	○	
48	3	90	36	○	
50	1,5	90	22	○	
50	2	90	22	○	
50	3	90	36	○	
52	1,5	90	22	○	
52	2	90	22	○	
52	3	90	36	○	

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

112

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande









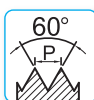
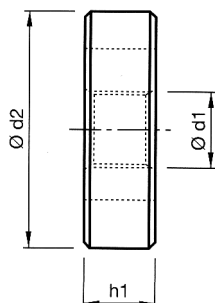


## FILIERE TONDE IMBOCCO CORRETTO

ROUND SPLIT DIES WITH SPIRAL POINTED - FILIÈRES RONDES, ENTRÉE GUN

DIN - EN 22568

LINE



Materiale - Material - Matériau

HSS

Imbocco - Chamfer - Entrée

1,75xP

Tolleranza - Tolerance - Tolérance

-

Trattamento superficiale - Surface treatment - Revêtement

BR

Ød <sub>1</sub> * NPT	TPI	Ød <sub>2</sub>	h <sub>1</sub>
1/16	27	25	10
1/8	27	38	10
1/8	27	30	10
1/4	18	38	15
3/8	18	45	15,3
1/2	14	45	20
3/4	14	65	20,2
3/4	14	55	20,2
1"	11,5	65	25
1" 1/4	11,5	75	25,6
1" 1/2	11,5	90	26
2"	11,5	105	26,9

\*ANSI/ASME B1.20.1

Ød <sub>1</sub> * NPTF	TPI	Ød <sub>2</sub>	h <sub>1</sub>
1/16	27	25	11
1/8	27	38	10
1/4	18	38	15
3/8	18	45	15
1/2	14	45	20
3/4	14	65	20,2
3/4	14	55	20,2
1"	11,5	65	25

\*ANSI/ASME B1.20.3

CODICE - CODE

420-99NPT...

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o

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o

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o

CODICE - CODE

430-99NPTF...

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o

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o

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\*

o

Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

115

• Standard

o Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

\* Solo a richiesta  
Only on request / Sur demande

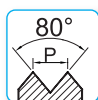
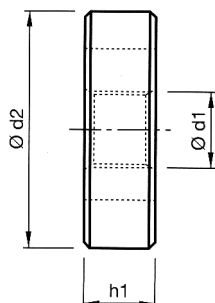


## FILIERE TONDE IMBOCCO CORRETTO

ROUND SPLIT DIES WITH SPIRAL POINTED - FILIÈRES RONDES, ENTRÉE GUN

DIN - EN 22568

LINE



Materiale - Material - Matériau

HSS

Imbocco - Chamfer - Entrée

1,75xP

Tolleranza - Tolerance - Tolérance

-

Trattamento superficiale - Surface treatment - Revêtement

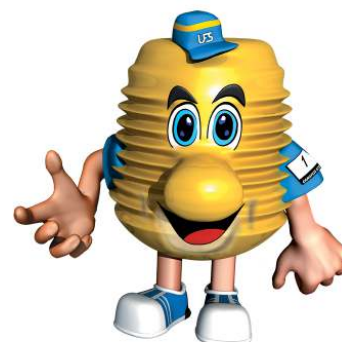
BR

Ød <sub>1</sub> PG	TPI	Ød <sub>2</sub>	h <sub>1</sub>	CODICE - CODE	
				700-99PG...	
7	20	38	14	○	
9	18	38	14	○	
11	18	45	14	○	
13,5	18	45	14	○	
16	18	55	16	○	
21	16	65	18	○	
29	16	65	18	○	
36	16	90	22	○	
42	16	105	22	★	
48	16	105	22	★	

Le tre Linee Prodotto UFS:  
dallo standard HSSE fino al metallo duro integrale

The three UFS product lines:  
from the standard HssE to the solid carbide

Les trois gammes de UFS:  
à partir du standard HSSE jusqu'au Carbure



Confezione: Singola  
Box: Single  
Colis: Unique

€ Pag. listino - Price list - Liste des prix

116

● Standard

○ Disponibilità da richiedere, prezzo a listino  
On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta  
Only on request / Sur demande



Il cliente UFS non è mai lasciato solo  
*UFS customers are never left alone*  
Le client UFS n'est jamais laissé seul

ASSISTANCE





# L'AZIENDA E I SUOI PRODOTTI

THE COMPANY AND ITS PRODUCTS - LA SOCIÉTÉ ET SES PRODUITS

## Materiali impiegati - Used material - Matériaux utilisés

La resa di un utensile è determinata da un insieme di fattori, ma alla base di tutto vi è il materiale con cui è stato costruito l'utensile stesso. La UFS si avvale dei migliori acciai super rapidi ad alto contenuto di cobalto (5% ed oltre, oppure ad alta percentuale di Vanadio) e di acciai da polveri sinterizzate (PM, PM1, PM3 con alte % di Co e Co + Vanadio). Questi ultimi presentano una struttura molto più omogenea, con distribuzione finissima dei carburi, con corrispondente minor pericolo di scheggiatura, minor usura e ottime prestazioni sui materiali ad alta resistenza.

- Acciaio HSSE con 5% di Cobalto impiegato per materiali da lavorare con  $R < 850 \text{ N/mm}^2$
- Acciaio HSSP con più alta percentuale di Cobalto impiegato per materiali da lavorare con  $R < 1000 \text{ N/mm}^2$
- Acciaio HSSV3 con alta percentuale di Vanadio impiegato per INOX
- Acciai PM sinterizzati ad alto contenuto di Cobalto e Vanadio impiegato per materiali da lavorare con  $R > 1000 \text{ N/mm}^2$

*The tool yield is determined by several factors, but most fundamental is the material. UFS uses the best high speed steels of high cobalt content (5% and over, or a high percentage of vanadium) and steels made from sintered powders (PM, PM1, PM3 high % of Co and Co + Va). This materials show a more homogeneous structure, with low carbide content, and with a correspondingly reduced risk of splintering, less wear and better performance on materials of high resistance.*

- HSSE steel with 5% of Cobalt used for materials to work with  $R < 850 \text{ N/mm}^2$
- HSSP steels with higher Cobalt percentage (or vanadium) used for materials to work with  $R < 1000 \text{ N/mm}^2$
- HSSV3 steel with high percentage of Vanadium, for Inox
- Sintered PM steels of a high cobalt and vanadium content used for materials to work with  $R > 1000 \text{ N/mm}^2$

*La performance d'un outil est déterminée par un certain nombre de facteurs, mais derrière tout cela il y a le matériau avec lequel il a été fabriqué. La société UFS fait usage des meilleurs aciers super rapide riches en cobalt (5 % et plus, ou avec un pourcentage élevé de vanadium) également des aciers fritté (PM, PM1, PM3 élevé en % de Co et Co + vanadium). Ces derniers ont une structure beaucoup plus homogène avec une concentration très fine de carbures, ce qui diminue considérablement les risques d'écaillage, diminue l'usure et acquièrent d'excellentes performances sur des matériaux de haute résistance.*

- Acier HSSE avec 5 % de cobalt pour les matériaux avec une résistance  $R < 850 \text{ N/mm}^2$
- Acier HSSP avec pourcentage plus élevé de Cobalt utilisé pour les matériaux avec une résistance  $R < 1000 \text{ N/mm}^2$
- HSSV3 acier avec un pourcentage de Vanadium utilisé pour l'acier inoxydable
- Aciers frittés PM avec un fort pourcentage de Cobalt Vanadium utilisés pour les matériaux avec une résistance  $R > 1000 \text{ N/mm}^2$



## Trattamenti termici - Heat Treatments - Traitements thermiques

Il trattamento termico è un fattore determinante per la resa dell'utensile e consiste in: **preiscaldi - tempra - rinvenimenti**. I preiscaldi sono graduali e la tempra è assistita da accuratissimi controlli della temperatura e dei tempi di austenitizzazione. Seguono 4-5 rinvenimenti per la trasformazione completa della struttura. Il controllo del grano austenitico avviene dopo l'austenitizzazione ed il controllo della durezza e della struttura dopo i rinvenimenti. Il trattamento termico viene eseguito in forni "sottovuoto" che garantiscono una tempra di alta qualità.

*Heat treatment is a conclusive factor for the yield of the tool and consists of **preheating - hardening - tempering**. The preheating is gradual and the tempering is assisted by very accurate controls of the temperature and the times of austenitisation. Then 4-5 recoveries follow for the complete transformation of the structure. The check of the austenitic grain occurs after the austenitisation and the hardness and the structure check after tempering. Heat treatment are performed in vacuum ovens, which guarantee high quality tempering.*

*Le traitement thermique est un facteur déterminant pour la performance de l'outil et se compose de: **Préchauffe-trempe-revenu**. Le préchauffage est progressif et le durcissement est secondé par des contrôles précis de la température. Suivent 4-5 revenus pour la transformation de la structure. Le Traitement thermique est effectué dans des fours sous « vide » de dernière génération qui garantissent une haute qualité.*

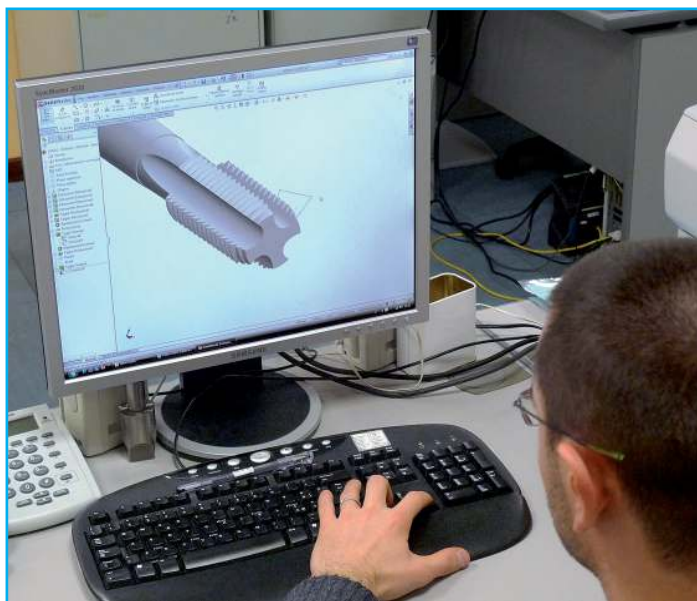


## Qualità dei prodotti - Products quality - Qualité des produits

I nostri controlli si basano da sempre su analisi metallografiche e dimensionali. Con la nuova realtà definita UFS Technology il prodotto, a campione, viene sottoposto a test di durata e a miglioramenti, specie per prodotti studiati su materiali particolari, a richiesta della Clientela. Il personale dedicato lavora a tempo pieno sia sull'avanzamento prodotto UFS sia nella definizione delle nuove forme di utensili adatti a materiali nuovi o di dichiarato interesse in Progetti di Ricerca Europei, in collaborazione con il Politecnico di Torino - Facoltà di Scienza dei Materiali - e di altre simili ed importanti Facoltà Europee, tra cui Aachen e Bilbao. Questo ci dà modo di sperimentare materiali di indubbia difficoltà, come le leghe ceramiche, ghise particolari, leghe aeronautiche e spaziali, per citarne alcune; i processi migliorativi definiti su tali materiali ci aiutano ad innalzare il livello qualitativo della normale produzione standard.

*Our checks have always been based on metallographic and dimensional tests. Thanks to the new UFS Technology, the sample product subjected is tested for durability and improved, especially with products designed using special materials at the customer's request. The staff appointed to these operations work full time both in UFS product improvement and in defining new tool shapes suitable for new materials or materials required for European Research Projects, together with Polytechnic University of Turin, Faculty of Materials Science as well as other important European Universities, including Aachen and Bilbao. This allows us to test undoubtedly difficult materials, like ceramic alloys, special cast iron, aeronautical and space alloys, among others; the improvement processes established for these materials help us to raise the quality level of the standard production.*

*Nos contrôles s'appuient toujours sur l'analyse métallographique et dimensionnelle. Avec la nouvelle structure D'UFS Technology le produit est testé pour une durabilité optimale. Le personnel travaille à plein temps sur des projets de recherche européens, en collaboration avec l'Université de Turin- la Faculté Polytechnique de science des matériaux- et d'autres institutions européennes importantes, dont Aachen et Bilbao. Cela nous donne une façon d'expérimenter des difficultés incontestables, des matériaux tels que céramiques, alliages, alliages de fer et alliage spéciaux pour l'aviation et l'espace.*



## Obiettivi - Purposes - Objectifs

Gli obiettivi definiti nel precedente catalogo sono stati ampiamente raggiunti e nel corso di questi ultimi anni i processi di produzione stabilizzati ci hanno dato modo di innalzare la qualità e la ripetibilità del prodotto.

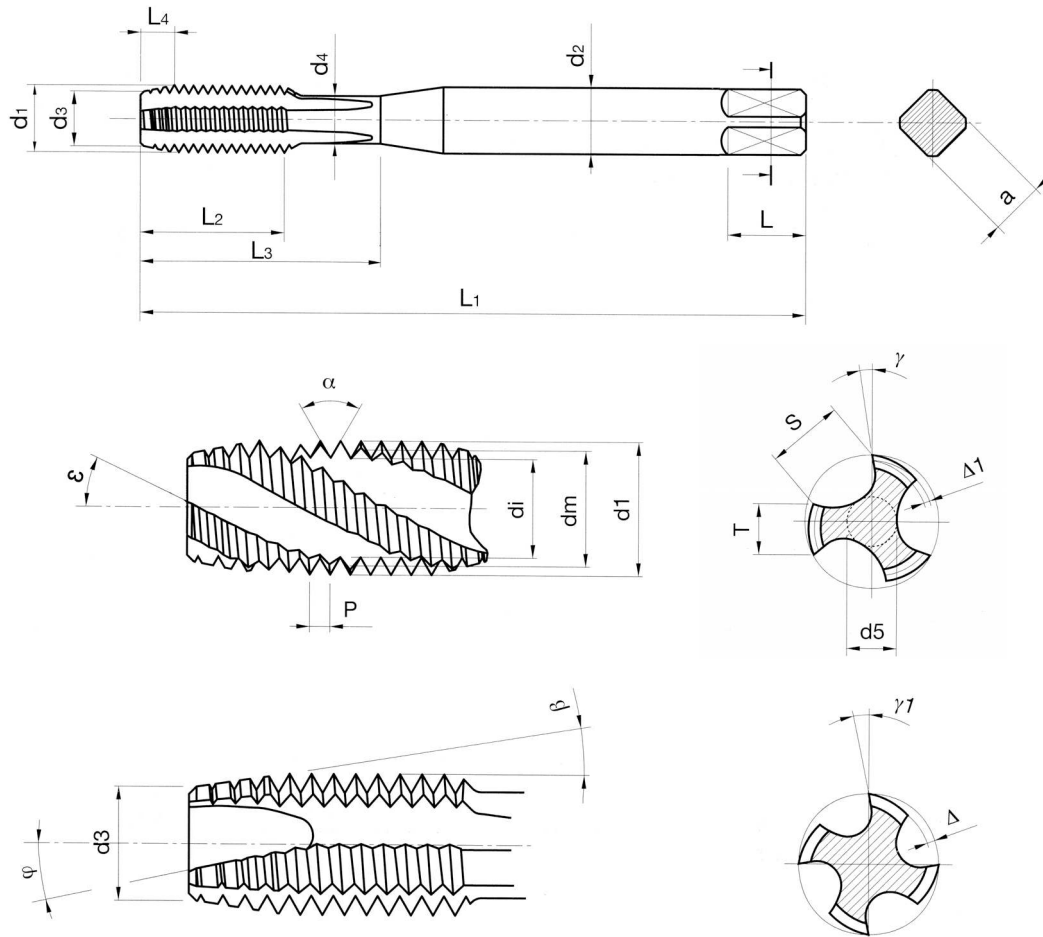
Non ci resta che confermare la rotta nella stessa direzione di miglioramento continuo, con la caparbia che ci accompagna.

*The aims set out in our previous catalogue have been widely achieved and during these last few years the consolidated production processes have allowed us to increase product quality and repeatability. We only have to continue in this quest for continuous improvement, with our characteristic determination.*

*Les objectifs définis dans la liste précédente ont été largement atteints, et ces dernières années, les procédés de production stabilisés nous ont permis d'améliorer la qualité et la reproductibilité des outils.*

# TERMINOLOGIA DEI MASCHI

## TAPS TERMINOLOGY - TERMINOLOGIE DES TARAUDS



## LEGENDA

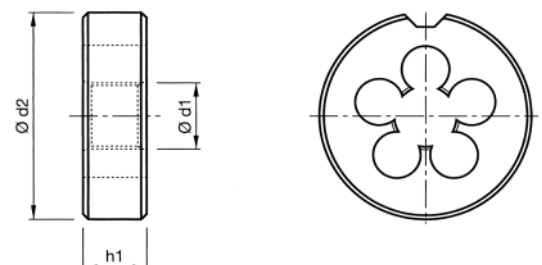
### LEGEND - LÉGENDE

- L1:** Lunghezza totale – Total length - Longueur totale  
**L2:** Lunghezza filetto – Thread length - Longueur du filet  
**L4:** Lunghezza imbocco – Chamfer length - Longueur de l'entrée  
**L3:** Lunghezza utile – Useful length - Longueur utile  
**L:** Lunghezza quadro – Length of square - Longueur du cadre  
**P:** Passo – Pitch - Pas  
**S:** Larghezza scanalatura – Flute width - Largeur de la goujure  
**d1:** Diametro est. nominale – Major diameter - Diamètre extérieur nominal  
**d2:** Diametro del gambo – Shank diameter - Diamètre de queue  
**d4:** Diametro del collarino – Neck diameter - Diamètre du cou  
**d3:** Diametro di imbocco – Chamfer diameter - Diamètre de l'entrée  
**dm:** Diametro medio – Pitch diameter - Diamètre moyen  
**di:** Diametro interno – Minor diameter - Diamètre intérieur  
**d5:** Diametro nucleo – Core diameter - Diamètre du noyau  
**T:** Larghezza del dente – Width of land - Largeur de la dent  
**alpha:** Angolo del profilo – Included angle of thread - Angle du profil  
**gamma1:** Angolo di taglio frontale – Rake angle - Angle de coupe avant  
**gamma:** Angolo di taglio sull'imbocco corretto – Rake angle of spiral point - Angle de coupe sur l'entrée  
**beta:** Angolo di imbocco – Chamfer angle - Angle de l'entrée  
**e:** Inclinazione dell'elica – Spiral flute angle - Angle d'hélice  
**Delta:** Spoglia sull'imbocco – Chamfer relief - Dépouille de l'entrée  
**Delta1:** Spoglia sul filetto – Pitch diameter relief - Dépouille sur le filet  
**a:** Quadro – Square - Carré  
**phi:** Angolo inclinazione imbocco corretto – Spiral point angle - Angle d'inclinaison de l'entrée GUN

## TERMINOLOGIA FILIERE

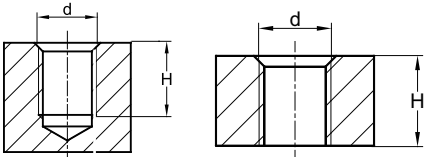

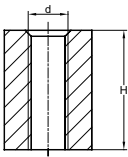

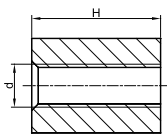

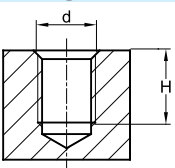

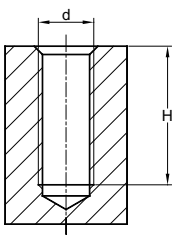



### DIES TERMINOLOGY - TERMINOLOGIE FILIERE

- d1:** Diametro nominale – Nominal diameter - Diamètre nominal  
**d2:** Diametro esterno – External diameter - Diamètre extérieur  
**h1:** Spessore – Thickness - Épaisseur



# TIPI DI FORO E RELATIVI MASCHI CONSIGLIATI

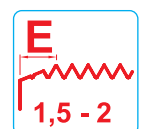
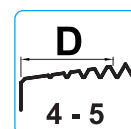
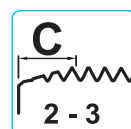
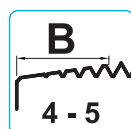
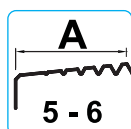
HOLE TYPES AND RECOMMENDED TAPS - TYPES DE TROU ET TARAUDS RECOMMANDÉS

Fori ciechi e passanti <i>Blind and through holes - Trous borgnes et débouchant</i>				
	$H < 1,5 d$	<b>E20</b>		
Fori passanti <i>Through holes - Trous débouchant</i>				
	$H < 3 d$	<b>E24</b>		
	$H < 3 d$	<b>E50</b>		
Fori ciechi <i>Blind holes - Trous borgnes</i>				
	$H < 1,5 d$	<b>E40</b>		
	$H < 2,5 d$	<b>E60</b>		
	$H 2,5 \div 3 d$	<b>E80</b>	 BT = Back Tapered Rastremazione posteriore del filetto Détalonnage arrière	
	$H > 3 d$	<b>E82</b>		

# TIPI DI IMBOCCO

CHAMFER TYPE - TYPES D'ENTRÉES

Lunghezza  
Length - Longueur  
n° x P




# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE

TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL


## Filettatura metrica ISO DIN 13

ISO Metric coarse thread DIN 13 - Filetage métrique ISO DIN13

M	P mm		Ø di foratura 6H - drill sizes - perçage	
			min	max
*M 1	0,25	<b>0,75</b>	0,729	0,785
*M 1,1	0,25	<b>0,85</b>	0,829	0,885
*M 1,2	0,25	<b>0,95</b>	0,929	0,985
*M 1,4	0,30	<b>1,10</b>	1,075	1,142
M 1, 6	0,35	<b>1,25</b>	1,221	1,321
M 1,70	,35	<b>1,35</b>	1,321	1,421
M 1,8	0,35	<b>1,45</b>	1,421	1,521
M 2	0,40	<b>1,60</b>	1,567	1,679
M 2,2	0,45	<b>1,75</b>	1,713	1,838
M 2,3	0,4	<b>1,90</b>	1,813	1,938
M 2,5	0,45	<b>2,05</b>	2,013	2,138
M 2,6	0,45	<b>2,10</b>	2,113	2,238
M 3	0,50	<b>2,50</b>	2,459	2,599
M 3,5	0,60	<b>2,90</b>	2,850	3,010
M 4	0,70	<b>3,30</b>	3,242	3,422
M 4, 5	0,75	<b>3,70</b>	3,688	3,878
M 5	0,80	<b>4,20</b>	4,134	4,334
M 6	1,00	<b>5,00</b>	4,917	5,153
M 7	1,00	<b>6,00</b>	5,917	6,153
M 8	1,25	<b>6,80</b>	6,647	6,912
M 9	1,25	<b>7,80</b>	7,647	7,912
M 10	1,50	<b>8,50</b>	8,376	8,676
M 11	1,50	<b>9,50</b>	9,376	9,676
M 12	1,75	<b>10,30</b>	10,106	10,441
M 14	2,00	<b>12,00</b>	11,835	12,210
M 16	2,00	<b>14,00</b>	13,835	14,210
M 18	2,50	<b>15,50</b>	15,294	15,744
M 20	2,50	<b>17,50</b>	17,294	17,744
M 22	2,50	<b>19,50</b>	19,294	19,744
M 24	3,00	<b>21,00</b>	20,752	21,252
M 27	3,00	<b>24,00</b>	23,752	24,252
M 30	3,50	<b>26,50</b>	26,211	26,771
M 33	3,50	<b>29,50</b>	29,211	29,771
M 36	4,00	<b>32,00</b>	31,670	32,270
M 39	4,00	<b>35,00</b>	34,670	35,270
M 42	4,50	<b>37,50</b>	37,129	37,799
M 45	4,50	<b>40,50</b>	40,129	40,799
M 48	5,00	<b>43,00</b>	42,587	43,297
M 52	5,00	<b>47,00</b>	46,587	47,297
M 56	5,50	<b>50,50</b>	50,046	50,796
M 60	5,50	<b>54,50</b>	54,046	54,796
M 64	6,00	<b>58,00</b>	57,505	58,308
M 68	6,00	<b>62,00</b>	61,505	62,305

## Filettatura MJ, MJ thread

DIN ISO 5855 - Filetage MJ

MJ	P mm		Ø di foratura 5H - drill sizes - perçage	
			min	max
*MJ 3	0,50	<b>2,60</b>	2,513	2,653
*MJ 4	0,70	<b>3,40</b>	3,318	3,498
*MJ 5	0,80	<b>4,30</b>	4,221	4,421
MJ 6	1	<b>5,10</b>	5,026	5,216
MJ 8	1	<b>7,10</b>	7,026	7,216
MJ 8	1,25	<b>6,90</b>	6,782	6,994
MJ 10	1	<b>9,10</b>	9,026	9,216
MJ 10	1,25	<b>8,90</b>	8,782	8,994
MJ 10	1,5	<b>8,60</b>	8,539	8,775
MJ 12	1,25	<b>10,90</b>	10,782	10,994
MJ 12	1,5	<b>10,60</b>	10,539	10,775
MJ 12	1,75	<b>10,40</b>	10,295	10,560
MJ 14	1,5	<b>12,60</b>	12,539	12,775
MJ 14	2	<b>12,20</b>	12,051	12,351
MJ 16	1,5	<b>14,60</b>	14,539	14,775
MJ 16	2	<b>14,20</b>	14,051	14,351

\* Tolleranza - Tolerance - Tolérance: 6H



Importante: fate attenzione al diametro di foratura  
Important: pay attention to the drills diameter  
Important : faites attention au diamètre de perçage

\* Tolleranza - Tolerance - Tolérance: 5H


# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE

TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL


## Filettatura metrica ISO passo fine DIN 13

ISO metric fine thread DIN 13 - Filetage métrique ISO pas fin DIN13

MF	P mm		Ø di foratura 6H - drill sizes - perçage	
			min	max
M 4	0,5	<b>3,50</b>	3,459	3,599
M 4,5	0,5	<b>4,00</b>	3,959	4,099
M 5	0,5	<b>4,50</b>	4,459	4,599
M 6	0,5	<b>5,50</b>	5,459	5,599
M 6	0,75	<b>5,25</b>	5,188	5,378
M 7	0,75	<b>6,25</b>	6,188	6,378
M 8	0,5	<b>7,50</b>	7,459	7,599
M 8	0,75	<b>7,25</b>	7,188	7,378
M 8	1	<b>7,00</b>	6,917	7,153
M 9	0,75	<b>8,25</b>	8,188	8,378
M 9	1	<b>8,00</b>	7,917	8,153
M 10	0,5	<b>9,50</b>	9,459	9,599
M 10	0,75	<b>9,25</b>	9,188	9,378
M 10	1	<b>9</b>	8,917	9,153
M 10	1,25	<b>8,75</b>	8,647	8,912
M 11	1	<b>10</b>	9,917	10,153
M 12	0,5	<b>11,5</b>	11,459	11,599
M 12	0,75	<b>11,25</b>	11,188	11,378
M 12	1	<b>11</b>	10,917	11,153
M 12	1,25	<b>10,75</b>	10,647	10,912
M 12	1,5	<b>10,5</b>	10,376	10,676
M 13	1	<b>12</b>	11,917	12,153
M 14	1	<b>13</b>	12,917	13,153
M 14	1,25	<b>12,75</b>	12,647	12,912
M 14	1,5	<b>12,5</b>	12,376	12,676
M 15	1	<b>14</b>	13,917	14,153
M 15	1,5	<b>13,5</b>	13,376	13,676
M 16	1	<b>15</b>	14,917	15,153
M 16	1,25	<b>14,8</b>	14,647	14,912
M 16	1,5	<b>14,5</b>	14,376	14,676
M 17	1	<b>16</b>	15,917	16,153
M 17	1,5	<b>15,5</b>	15,376	15,676
M 18	1	<b>17</b>	16,917	17,153
M 18	1,5	<b>16,5</b>	16,376	16,676
M 18	2	<b>16</b>	15,835	16,210
M 20	1	<b>19</b>	18,917	19,153
M 20	1,5	<b>18,5</b>	18,376	18,676
M 20	2	<b>18</b>	17,835	18,210
M 22	1	<b>21</b>	20,917	21,153
M 22	1,5	<b>20,5</b>	20,376	20,676
M 22	2	<b>20</b>	19,835	20,210
M 24	1	<b>23</b>	22,917	23,153
M 24	1,5	<b>22,5</b>	22,376	22,676
M 24	2	<b>22</b>	21,835	22,210
M 25	1	<b>24</b>	23,917	24,153
M 25	1,5	<b>23,5</b>	23,376	23,676
M 25	2	<b>23</b>	22,835	23,210
M 26	1,5	<b>24,5</b>	24,376	24,676
M 27	1	<b>26</b>	25,917	26,153
M 27	1,5	<b>25,5</b>	25,376	25,676
M 27	2	<b>25</b>	24,835	25,210

## Filettatura metrica ISO passo fine DIN 13

ISO metric fine thread DIN 13 - Filetage métrique ISO pas fin DIN13

MF	P mm		Ø di foratura 6H - drill sizes - perçage	
			min	max
M 28	1	<b>27</b>	26,917	27,153
M 28	1,5	<b>26,5</b>	26,376	26,676
M 28	2	<b>26</b>	25,835	26,210
M 30	1	<b>29</b>	28,917	29,153
M 30	1,5	<b>28,5</b>	28,376	28,676
M 30	2	<b>28</b>	27,835	28,210
M 30	3	<b>27</b>	26,752	27,252
M 32	1,5	<b>30,5</b>	30,376	30,676
M 32	2	<b>30</b>	29,835	30,210
M 33	1,5	<b>31,5</b>	31,376	31,676
M 33	2	<b>31</b>	30,835	31,210
M 33	3	<b>30</b>	29,752	30,252
M 34	1,5	<b>32,5</b>	32,376	32,676
M 35	1,5	<b>33,5</b>	33,376	33,676
M 36	1,5	<b>34,5</b>	34,376	34,676
M 36	2	<b>34</b>	33,835	34,210
M 36	3	<b>33</b>	32,752	33,252
M 38	1,5	<b>36,5</b>	36,376	36,676
M 39	1,5	<b>37,5</b>	37,376	37,676
M 39	2	<b>37</b>	36,835	37,210
M 39	3	<b>36</b>	35,752	36,252
M 40	1,5	<b>38,5</b>	38,376	38,676
M 40	2	<b>38</b>	37,835	38,210
M 40	3	<b>37</b>	36,752	37,252
M 42	1,5	<b>40,5</b>	40,376	40,676
M 42	2	<b>40</b>	39,835	40,210
M 42	3	<b>39</b>	38,752	39,252
M 42	4	<b>38</b>	37,670	38,270
M 45	1,5	<b>43,5</b>	43,376	43,676
M 45	2	<b>43</b>	42,835	43,210
M 45	3	<b>42</b>	41,752	42,252
M 45	4	<b>41</b>	40,670	41,270
M 48	1,5	<b>46,5</b>	46,376	46,676
M 48	2	<b>46</b>	45,835	46,210
M 48	3	<b>45</b>	44,752	45,252
M 48	4	<b>44</b>	43,670	44,270
M 50	1,5	<b>48,5</b>	48,376	48,676
M 50	2	<b>48</b>	47,835	48,210
M 50	3	<b>47</b>	46,752	47,252
M 52	1,5	<b>50,5</b>	50,376	50,676
M 52	2	<b>50</b>	49,835	50,210
M 52	3	<b>47</b>	46,587	47,087
M 52	4	<b>48</b>	47,670	48,270
M 55	1,5	<b>53,5</b>	53,376	53,676
M 55	2	<b>53</b>	52,835	53,210
M 55	3	<b>52</b>	51,752	52,252
M 55	4	<b>51</b>	50,670	51,270
M 56	1,5	<b>54,5</b>	54,376	54,676
M 56	2	<b>54</b>	53,835	54,210
M 56	3	<b>53</b>	52,752	53,252
M 56	4	<b>52</b>	51,670	52,270




# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE

TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL


## Filettatura metrica ISO passo fine DIN 13

ISO metric fine thread DIN 13 - Filetage métrique ISO pas fin DIN13

MF	P mm		Ø di foratura 6H - drill sizes - perçage	
			min	max
M 58	1,5	<b>56,5</b>	56,376	56,676
M 58	2	<b>56</b>	55,835	56,210
M 58	3	<b>55</b>	54,752	55,252
M 58	4	<b>54</b>	53,670	54,270
M 60	1,5	<b>58,5</b>	58,376	58,676
M 60	2	<b>58</b>	57,835	58,210
M 60	3	<b>57</b>	56,752	57,252
M 60	4	<b>56</b>	55,670	56,270
M 62	1,5	<b>60,5</b>	60,376	60,676
M 62	2	<b>60</b>	59,835	60,210
M 62	3	<b>59</b>	58,752	59,252
M 62	4	<b>58</b>	57,670	58,270
M 64	1,5	<b>62,5</b>	62,376	62,676
M 64	2	<b>62</b>	61,835	62,210
M 64	3	<b>61</b>	60,752	61,252
M 64	4	<b>60</b>	59,670	60,270
M 65	1,5	<b>63,5</b>	63,376	63,676
M 65	2	<b>63</b>	62,835	63,210
M 65	3	<b>62</b>	61,752	62,252
M 65	4	<b>61</b>	60,670	61,270
M 68	1,5	<b>66,5</b>	66,376	66,676
M 68	2	<b>66</b>	65,835	66,210
M 68	3	<b>65</b>	64,752	65,252
M 68	4	<b>64</b>	63,670	64,270
M 70	1,5	<b>68,5</b>	68,376	68,676
M 70	2	<b>68</b>	67,835	68,210
M 70	3	<b>67</b>	66,752	67,252
M 70	4	<b>66</b>	65,670	66,270
M 70	6	<b>64</b>	63,505	64,305
M 72	1,5	<b>70,5</b>	70,376	70,676
M 72	2	<b>70</b>	69,835	70,210
M 72	3	<b>69</b>	68,752	69,252
M 72	4	<b>68</b>	67,670	68,270
M 72	6	<b>66</b>	65,505	66,305
M 75	1,5	<b>73,5</b>	73,376	73,676
M 75	2	<b>73</b>	72,835	73,210
M 75	3	<b>72</b>	71,752	72,252
M 75	4	<b>71</b>	70,670	71,270
M 76	1,5	<b>74,5</b>	74,376	74,676
M 76	2	<b>74</b>	73,835	74,210
M 76	3	<b>73</b>	72,752	73,252
M 76	4	<b>72</b>	71,670	72,270
M 76	6	<b>70</b>	69,505	70,305
M 80	1,5	<b>78,5</b>	78,376	78,676
M 80	2	<b>78</b>	77,835	78,210
M 80	3	<b>77</b>	76,752	77,252
M 80	4	<b>76</b>	75,670	76,270
M 80	6	<b>74</b>	73,505	74,305
M 85	2	<b>83</b>	82,835	83,210
M 85	3	<b>82</b>	81,752	82,252
M 85	4	<b>81</b>	80,670	81,270
M 85	6	<b>79</b>	78,505	79,305


## Filettatura americana UNC ASME B1.1

UNC coarse thread ASME B1.1 - Filetage américain UNC ASME B1.1

UNC	P TPI		Ø di foratura 2B - drill sizes - perçage	
			min	max
Nr. 6	32	<b>2,85</b>	2,642	2,896
Nr. 8	32	<b>3,50</b>	3,302	3,531
Nr. 10	24	<b>3,90</b>	3,683	3,937
Nr. 12	24	<b>4,50</b>	4,343	4,597
1/4	20	<b>5,10</b>	4,978	5,258
5/16	18	<b>6,60</b>	6,401	6,731
3/8	16	<b>8,00</b>	7,798	8,153
7/16	14	<b>9,40</b>	9,144	9,550
1/2	13	<b>10,80</b>	10,592	11,024
9/16	12	<b>12,20</b>	11,989	12,446
5/8	11	<b>13,50</b>	13,386	13,868
3/4	10	<b>16,50</b>	16,307	16,840
7/8	9	<b>19,50</b>	19,177	19,761
1"	8	<b>22,25</b>	21,971	22,606
1"-1/8	7	<b>25,00</b>	24,638	25,349
1"-1/4	7	<b>28,00</b>	27,813	28,524
1"-3/8	6	<b>30,75</b>	30,353	31,155
1"-1/2	6	<b>34,00</b>	33,528	34,290
1"-3/4	5	<b>39,50</b>	38,938	39,802
2"	4,5	<b>45,00</b>	44,679	45,593

## Filettatura UNJC ASME B1.15,

UNJC thread ASME B1.15 - Filetage UNJC ASME B1.15

UNJC	P TPI		Ø di foratura 3B - drill sizes	
			min	max
Nr. 6	32	<b>2,80</b>	2,733	2,939
Nr. 8	32	<b>3,50</b>	3,393	3,599
Nr. 10	24	<b>3,90</b>	3,795	4,064
Nr. 12	24	<b>4,60</b>	4,455	4,704
1/4	20	<b>5,20</b>	5,113	5,387
5/16	18	<b>6,70</b>	6,563	6,833
3/8	16	<b>8,10</b>	7,978	8,255
7/16	14	<b>9,50</b>	9,347	9,639
1/2	13	<b>10,90</b>	10,798	11,095
9/16	12	<b>12,35</b>	12,228	12,482
5/8	11	<b>13,80</b>	13,627	13,904
3/4	10	<b>16,70</b>	16,576	16,881


# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE

TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL


## Filettatura americana UNF ASME B1.1

UNF fine thread ASME B1.1 - Filetage américain UNF ASME B1.1

UNF	P TPI		Ø di foratura 2B - drill sizes - perçage	
			min	max
Nr. 6	40	<b>2,95</b>	2,819	3,023
Nr. 8	36	<b>3,50</b>	3,404	3,607
Nr. 10	32	<b>4,10</b>	3,962	4,166
Nr. 12	28	<b>4,60</b>	4,469	4,724
1/4	28	<b>5,50</b>	5,359	5,588
5/16	24	<b>6,90</b>	6,782	7,036
3/8	24	<b>8,50</b>	8,382	8,636
7/16	20	<b>9,90</b>	9,728	10,033
1/2	20	<b>11,50</b>	11,328	11,608
9/16	18	<b>12,90</b>	12,751	13,081
5/8	18	<b>14,50</b>	14,351	14,681
3/4	16	<b>17,50</b>	17,323	17,678
7/8	14	<b>20,40</b>	20,269	20,676
1"	12	<b>23,25</b>	23,114	23,571
1"-1/8	12	<b>26,50</b>	26,289	26,746
1"-1/4	12	<b>29,50</b>	29,464	29,921
1"-3/8	12	<b>32,75</b>	32,639	33,096
1 -1/2	12	<b>36,00</b>	35,814	36,271


## Filettatura americana UNEF ASME B1.1

UNEF extra fine thread ASME B1.1 - Filetage américain UNEF ASME B1.1

UNEF	P TPI		Ø di foratura 2B - drill sizes - perçage	
			min	max
1/4	32	<b>5,55</b>	5,487	5,690
5/16	32	<b>7,15</b>	7,087	7,264
3/8	32	<b>8,7</b>	8,662	8,865
7/16	28	<b>10,2</b>	10,135	10,338
1/2	28	<b>11,8</b>	11,710	11,938
9/16	24	<b>13,2</b>	13,132	13,386
5/8	24	<b>14,8</b>	14,732	14,986
11/16	24	<b>16,4</b>	16,307	16,561
3/4	20	<b>17,8</b>	17,679	17,958
13/16	20	<b>19,4</b>	19,254	19,558
7/8	20	<b>20,95</b>	20,854	21,133
15/16	20	<b>22,50</b>	22,429	22,733
1"	20	<b>24,15</b>	24,029	24,308
1"-1/16	18	<b>25,6</b>	25,451	25,781
1"-1/8	18	<b>27,15</b>	27,051	27,381
1"-3/16	18	<b>28,75</b>	28,626	28,956
1"-1/4	18	<b>30,3</b>	30,226	30,556
1"-3/8	18	<b>33,5</b>	33,401	33,731
1"-7/16	18	<b>35,1</b>	34,976	35,306
1"-1/2	18	<b>36,7</b>	36,576	36,881


## Filettatura UNJC ASME B1.15,

UNJC thread ASME B1.15 - Filetage UNJC ASME B1.15

UNJF	P TPI		Ø di foratura 3B - drill sizes - perçage	
			min	max
Nr. 6	40	<b>2,95</b>	2,888	3,053
Nr. 8	36	<b>3,6</b>	3,480	3,663
Nr. 10	32	<b>4,15</b>	4,054	4,255
Nr. 12	28	<b>4,7</b>	4,602	4,816
1/4	28	<b>5,6</b>	5,466	5,662
5/16	24	<b>7</b>	6,906	7,109
3/8	24	<b>8,6</b>	8,494	8,679
7/16	20	<b>10</b>	9,876	10,084
1/2	20	<b>11,55</b>	11,463	11,661
9/16	18	<b>13</b>	12,913	13,122
5/8	18	<b>14,6</b>	14,501	14,702
3/4	16	<b>17,6</b>	17,506	17,722

## Filettatura americana 8-UN ASME B1.1

8-UN thread ASME B1.1 - Filetage américain 8-UN ASME B1.1

8-UN	P TPI		Ø di foratura 2B - drill sizes - perçage	
			min	max
1"-1/8	8	<b>25,4</b>	25,146	25,781
1"-1/4	8	<b>28,6</b>	28,321	28,956
1"-3/8	8	<b>31,75</b>	31,496	32,131
1"-1/2	8	<b>34,9</b>	34,671	35,306
1"-5/8	8	<b>38,1</b>	37,846	38,481
1"-3/4	8	<b>41,3</b>	41,021	41,656
1"-7/8	8	<b>44,45</b>	44,196	44,831
2"	8	<b>47,6</b>	47,371	48,006
2"-1/4	8	<b>54</b>	53,721	54,356
2"-1/2	8	<b>60,30</b>	60,071	60,706



# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE


TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL

## Filettatura GAS Whitworth DIN EN ISO 228

Whitworth pipe thread DIN EN ISO 228


Filetage Gaz cylindrique Whitworth DIN EN ISO 228

GAS	P TPI		Ø di foratura - drill sizes	
			min	max
1/8	28	<b>8,8</b>	8,566	8,848
1/4	19	<b>11,8</b>	11,445	11,890
3/8	19	<b>15,25</b>	14,950	15,395
1/2	14	<b>19</b>	18,631	19,172
5/8	14	<b>21</b>	20,587	21,128
3/4	14	<b>24,5</b>	24,117	24,658
7/8	14	<b>28,25</b>	27,877	28,418
1"	11	<b>30,75</b>	30,291	30,931
1" 1/8	11	<b>35,5</b>	34,939	35,579
1" 1/4	11	<b>39,5</b>	38,952	39,592
1" 1/2	11	<b>45,25</b>	44,845	45,485
1" 3/4	11	<b>51,10</b>	50,788	51,428
2"	11	<b>57</b>	56,656	57,296
2" 1/4	11	<b>63,10</b>	62,752	63,392
2" 1/2	11	<b>72,6</b>	72,226	72,866
2" 3/4	11	<b>79</b>	78,576	79,216
3"	11	<b>85,3</b>	84,926	85,566

## Filettatura gas cilindrica americana sec. ANSI B1.20.1

American Standard straight pipe thread acc. ANSI B1.20.1


Filetage Gaz cylindrique américain ANSI B 1.20.1

NPSM (NPSC)	P TPI		Ø di foratura - drill sizes	
			NPSM	NPSC
1/8	27		9,10	8,8
1/4	18		12	11,40
3/8	18		15,5	14,8
1/2	14		19	18,5
3/4	14		24,5	23,8
1"	11,5		30,5	29,9

## Filettatura gas cilindrica americana sec. ANSI B1.20.3

American Standard straight pipe thread acc. ANSI B1.20.3


Filetage Gaz cylindrique américain ANSI B 1.20.3

NPSF	P TPI		Ø di foratura - drill sizes	
			min	max
1/8	27	<b>8,7</b>	8,651	
1/4	18	<b>11,30</b>	11,232	
3/8	18	<b>14,7</b>	14,671	
1/2	14	<b>18,2</b>	18,118	
3/4	14	<b>23,50</b>	23,465	
1"	11,5	<b>29,50</b>	29,464	

## Filettatura interna GAS cilindrica Whitworth ISO 7-1

Cylindrical Whitworth internal pipe thread ISO 7-1


Filetage Gaz interne cylindrique Whitworth ISO 7-1

Rp	P TPI		Ø di foratura - drill sizes	
			min	max
1/8	28	<b>8,6</b>	8,495	8,637
1/4	19	<b>11,5</b>	11,341	11,549
3/8	19	<b>15</b>	14,846	15,054
1/2	14	<b>18,5</b>	18,489	18,773
3/4	14	<b>24</b>	23,975	24,259
1"	11	<b>30,25</b>	30,111	30,471
1" 1/4	11	<b>39</b>	38,772	39,132
1" 1/2	11	<b>45</b>	44,665	45,025
2"	11	<b>56,5</b>	56,476	56,836

## Filettatura GAS Whitworth DIN EN ISO 228

Whitworth pipe thread DIN EN ISO 228

Filetage Gaz cylindrique Whitworth DIN EN ISO 228

BSW	P TPI		Ø di foratura - drill sizes	
			min	max
1/8	40	<b>2,5</b>	2,362	2,591
3/16	24	<b>3,6</b>	3,407	3,745
1/4	20	<b>5</b>	4,724	5,156
5/16	18	<b>6,5</b>	6,130	6,590
3/8	16	<b>7,9</b>	7,492	7,987
7/16	14	<b>9,2</b>	8,789	9,330
1/2	12	<b>10,5</b>	9,989	10,591
9/16	12	<b>12</b>	11,577	12,179
5/8	11	<b>13,4</b>	12,918	13,558
3/4	10	<b>16,4</b>	15,797	16,483
7/8	9	<b>19,25</b>	18,611	19,353
1"	8	<b>22</b>	21,334	22,147
1" 1/8	7	<b>24,75</b>	23,928	24,832
1" 1/4	7	<b>27,5</b>	27,103	28,007
1" 1/2	6	<b>33,5</b>	32,679	33,703


# PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE

TAPPING DRILL SIZES FOR CUTTING TAPS

PERÇAGE POUR TARAUDAGE NORMAL


## Filettatura per tubi corazzati DIN 40430

Steel conduit thread DIN 40430 - Filetage pour tube blindés DIN 40430

PG	P TPI		Ø di foratura - drill sizes	
			min	max
PG 7	20	<b>11,4</b>	11,28	11,43
PG 9	18	<b>14</b>	13,86	14,01
PG 11	18	<b>17,25</b>	17,26	17,41
PG 13,5	18	<b>19</b>	19,06	19,21
PG 16	18	<b>21,25</b>	21,16	21,31
PG 21	16	<b>27</b>	26,78	27,03
PG 29	16	<b>35,5</b>	35,48	35,73
PG 36	16	<b>45,5</b>	45,48	45,73
PG 42	16	<b>52,5</b>	52,48	52,73
PG 48	16	<b>58</b>	57,78	58,03

## Filettatura tonda DIN 405


Round thread DIN 405 - Filetage rond DIN 405

Rd	P TPI		Ø di foratura - drill sizes	
			min	max
8	10	<b>6</b>	5,714	6,274
9	10	<b>7</b>	6,714	7,274
10	10	<b>8</b>	7,714	8,274
11	10	<b>9</b>	8,714	9,274
12	10	<b>10</b>	9,714	10,274
14	8	<b>11,5</b>	11,142	11,812
16	8	<b>13,5</b>	13,142	13,812
18	8	<b>15,5</b>	15,142	15,812
20	8	<b>17,5</b>	17,142	17,812
22	8	<b>19,5</b>	19,142	19,812
24	8	<b>21,5</b>	21,142	21,812
26	8	<b>23,5</b>	23,142	23,812
28	8	<b>25,5</b>	25,142	25,812
30	8	<b>27,5</b>	27,142	27,812

## Filettatura ISO metrica trapezoidale DIN 103

ISO Metric trapezoidal thread DIN 103


Filetage ISO métrique trapézoïdal DIN 103

TR	P mm		Ø di foratura - drill sizes	
			min	max
10	2	<b>8,2</b>	8,000	8,236
10	3	<b>7,5</b>	-	-
12	2	<b>10,2</b>	10,000	10,236
12	3	<b>9,25</b>	9,000	9,315
14	3	<b>11,25</b>	11,000	11,315
14	4	<b>10,5</b>	-	-
16	4	<b>12,25</b>	12,000	12,375
18	4	<b>14,25</b>	14,000	14,375
20	4	<b>16,25</b>	16,000	16,375
22	5	<b>17,25</b>	17,000	17,450
24	5	<b>19,25</b>	19,000	19,450
26	5	<b>21,25</b>	21,000	21,450
28	5	<b>23,25</b>	23,000	23,450
30	6	<b>24,25</b>	24,000	24,500
32	6	<b>26,25</b>	26,000	26,500
36	6	<b>30,25</b>	30,000	30,500

## Filettatura ISO metrica DIN 8140-2 per filetti riportati

ISO Metric coarse thread DIN 8140-2 for wire thread inserts (STI)

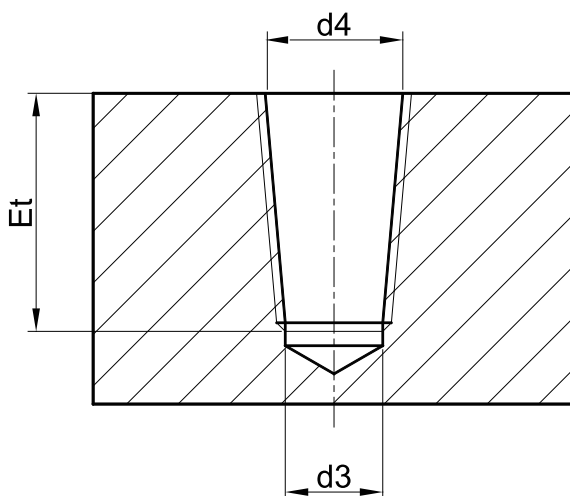
Filetage métrique ISO DIN8140-2 pour HELICOIL (filet-rapporté)

EGM	P mm		Ø di foratura - drill sizes	
			min	max
2	0,4	<b>2,10</b>	2,087	2,177
2,5	0,45	<b>2,65</b>	2,597	2,697
3	0,5	<b>3,15</b>	3,108	3,22
3,5	0,6	<b>3,70</b>	3,630	3,755
4	0,7	<b>4,20</b>	4,152	4,292
5	0,8	<b>5,25</b>	5,174	5,344
6	1	<b>6,30</b>	6,217	6,407
7	1	<b>7,30</b>	7,217	7,407
8	1,25	<b>8,40</b>	8,217	8,483
9	1,25	<b>9,40</b>	9,217	9,483
10	1,5	<b>10,50</b>	10,324	10,560
11	1,5	<b>11,50</b>	11,324	11,560
12	1,75	<b>12,50</b>	12,379	12,644
14	2	<b>14,50</b>	14,433	14,733
16	2	<b>16,50</b>	16,433	16,733
18	2,5	<b>18,75</b>	18,541	18,986
20	2,5	<b>20,75</b>	20,541	20,896

# PREFORI PER MASCHIATURA CONICA

TAPPING DRILL SIZES FOR CONICAL THREADING

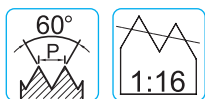
PERÇAGE POUR LE TARAUDAGE CONIQUE



Filettatura gas conica americana, conicità 1:16 sec. ANSI/ASME B1.20.1

American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.1 - Filetage gaz conique américain, à cône 01:16 ANSI/ASME B 1.20.1

## NPT

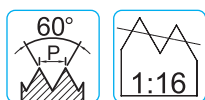


Ød1	P TPI	d3 cil./cyl. mm	d4 con./taper mm	Et = X
<b>1/16</b>	27	6,20	6,39	9,30
<b>1/8</b>	27	8,50	8,74	9,30
<b>1/4</b>	18	11	11,36	13,50
<b>3/8</b>	18	14,50	14,80	13,90
<b>1/2</b>	14	17,9	18,32	18,10
<b>3/4</b>	14	23,2	23,67	18,60
<b>1"</b>	11,5	29,00	29,69	22,30
<b>1 1/4"</b>	11,5	37,8	38,45	22,80
<b>1 1/2"</b>	11,5	44	44,52	22,80
<b>2"</b>	11,5	56	56,56	23,20

Filettatura gas conica americana, conicità 1:16 sec. ANSI/ASME B1.20.3

American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.3 - Filetage gaz conique American, à cône 01:16 ANSI/ASME B 1.20.3

## NPTF

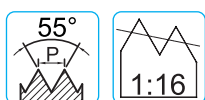


Ød1	P TPI	d3 cil./cyl. mm	d4 con./taper mm	Et = X
<b>1/16</b>	27	6,10	6,41	9,30
<b>1/8</b>	27	8,45	8,76	9,30
<b>1/4</b>	18	10,9	11,4	13,50
<b>3/8</b>	18	14,3	14,84	13,90
<b>1/2</b>	14	17,6	18,33	18,10
<b>3/4</b>	14	23,0	23,68	18,60
<b>1"</b>	11,5	28,75	29,72	22,30
<b>1 1/4"</b>	11,5	37,5	38,48	22,80
<b>1 1/2"</b>	11,5	43,75	44,55	22,80
<b>2"</b>	11,5	55,75	56,59	23,20

Filettatura gas conica Whitworth, conicità 1:16, ISO 7-1

Tapered Whitworth pipe thread, taper 1:16, ISO 7-1 - Filetage gaz conique Whitworth, à cône 01:16 ISO 7-1

## Rc



Ød1	P TPI	d3 cil./cyl. mm	d4 con./taper mm	Et = X
<b>1/8</b>	28	8,20	8,57	10,1
<b>1/4</b>	19	11	11,45	15,0
<b>3/8</b>	19	14,5	14,95	15,4
<b>1/2</b>	14	18	18,63	20,4
<b>3/4</b>	14	23,5	24,12	21,7
<b>1"</b>	11	29,5	30,29	26
<b>1 1/4"</b>	11	38	38,95	28,3
<b>1 1/2"</b>	11	44	44,85	28,3
<b>2"</b>	11	55,5	56,66	32,6


# PREFORI DI MASCHIATURA PER MASCHI A RULLARE

TAPPING DRILL SIZES FOR ROLLING TAPS

PERÇAGE POUR LES TARAUDS À REFOULER


## Filettatura metrica ISO DIN 13

ISO metric coarse thread DIN 13 - Filetage métrique ISO DIN13

M	P mm		Toll.
2	0,4	<b>1,82</b>	± 0,02
2,2	0,45	<b>2,00</b>	± 0,02
2,3	0,4	<b>2,1</b>	± 0,02
2,5	0,45	<b>2,30</b>	± 0,02
2,6	0,45	<b>2,40</b>	± 0,02
3	0,5	<b>2,8</b>	± 0,03
3,5	0,6	<b>3,25</b>	± 0,03
4	0,7	<b>3,70</b>	± 0,03
5	0,8	<b>4,65</b>	± 0,03
6	1	<b>5,55</b>	± 0,05
8	1,25	<b>7,40</b>	± 0,05
10	1,5	<b>9,30</b>	± 0,05
12	1,75	<b>11,20</b>	± 0,05
14	2	<b>13,10</b>	± 0,05
16	2	<b>15,10</b>	± 0,05
18	2,5	<b>16,90</b>	± 0,05
20	2,5	<b>18,90</b>	± 0,05
22	2,5	<b>20,90</b>	± 0,05
24	3	<b>22,70</b>	± 0,05

## Filettatura metrica ISO passo fine DIN 13

ISO metric fine thread DIN 13 - Filetage métrique ISO pas fin DIN13

MF	P mm		Toll.
4	0,5	<b>3,80</b>	±0,03
5	0,5	<b>4,80</b>	±0,03
6	0,5	<b>5,80</b>	±0,03
6	0,75	<b>5,65</b>	±0,03
8	1	<b>7,55</b>	±0,05
10	1	<b>9,55</b>	±0,05
10	1,25	<b>9,40</b>	±0,05
12	1	<b>11,55</b>	±0,05
12	1,25	<b>11,40</b>	±0,05
12	1,5	<b>11,30</b>	±0,05
14	1	<b>13,55</b>	±0,05
14	1,25	<b>13,40</b>	±0,05
14	1,5	<b>13,30</b>	±0,05
16	1	<b>15,55</b>	±0,05
16	1,25	<b>15,40</b>	±0,05
16	1,5	<b>15,30</b>	±0,05
18	1	<b>17,55</b>	±0,05
18	1,25	<b>17,40</b>	±0,05
18	1,5	<b>17,30</b>	±0,05
20	1	<b>19,55</b>	±0,05
20	1,25	<b>19,40</b>	±0,05
20	1,5	<b>19,30</b>	±0,05
20	2	<b>19,10</b>	±0,05
22	1	<b>21,55</b>	±0,05
22	1,25	<b>21,40</b>	±0,05
22	1,5	<b>21,30</b>	±0,05
22	2	<b>21,10</b>	±0,05
24	1	<b>23,55</b>	±0,05
24	1,25	<b>23,40</b>	±0,05
24	1,5	<b>23,30</b>	±0,05
24	2	<b>23,10</b>	±0,05
26	1,5	<b>25,30</b>	±0,05
26	2	<b>25,10</b>	±0,05
27	1,5	<b>26,30</b>	±0,05
27	2	<b>26,10</b>	±0,05
28	1,5	<b>27,30</b>	±0,05
28	2	<b>27,10</b>	±0,05
30	1,5	<b>29,30</b>	±0,05
30	2	<b>29,10</b>	±0,05



Attenzione! I diametri di foratura per rullare sono diversi da quelli standard!

Attention! Drills' diameters for roll taps are different from standard ones!

Attention ! Les Diamètres de perçage pour le refolement sont différents du standard !


# PREFORI DI MASCHIATURA PER MASCHI A RULLARE

TAPPING DRILL SIZES FOR ROLLING TAPS

PERÇAGE POUR LES TARAUDS À REFOULER


## Filettatura americana UNC ASME B1.1

UNC coarse thread ASME B1.1 - Filetage américain UNC ASME B1.1

UNC	P TPI		Toll.
6	32	<b>3,15</b>	±0,03
8	32	<b>3,80</b>	±0,03
10	24	<b>4,30</b>	±0,05
12	24	<b>5,00</b>	±0,05
1/4	20	<b>5,75</b>	±0,05
5/16	18	<b>7,25</b>	±0,05
3/8	16	<b>8,75</b>	±0,05
7/16	14	<b>10,30</b>	±0,05
1/2	13	<b>11,80</b>	±0,05
9/16	12	<b>13,30</b>	±0,05
5/8	11	<b>14,80</b>	±0,05
3/4	10	<b>17,9</b>	±0,05
7/8	9	<b>21</b>	±0,05
1'	8	<b>24</b>	±0,05

## Filettatura americana UNF ASME B1.1


UNF fine thread ASME B1.1 - Filetage américain UNF ASME B1.1

UNF	P TPI		Toll.
6	40	<b>3,20</b>	±0,03
8	36	<b>3,85</b>	±0,03
10	32	<b>4,45</b>	±0,03
12	28	<b>5,05</b>	±0,05
1/4	28	<b>5,90</b>	±0,05
5/16	24	<b>7,45</b>	±0,05
3/8	24	<b>9,00</b>	±0,05
7/16	20	<b>10,50</b>	±0,05
1/2	20	<b>12,10</b>	±0,05
9/16	18	<b>13,70</b>	±0,05
5/8	18	<b>15,25</b>	±0,05
3/4	16	<b>18,40</b>	±0,05
7/8	14	<b>21,40</b>	±0,05
1'	12	<b>24,45</b>	±0,05
1'-1/8	12	<b>27,60</b>	±0,05
1'-1/4	12	<b>30,80</b>	±0,05
1'-3/8	12	<b>34,00</b>	±0,05
1'-1/2	12	<b>37,15</b>	±0,05

## Filettatura GAS Whitworth DIN EN ISO 228

Whitworth pipe thread DIN EN ISO 228

Filetage Gaz cylindrique Whitworth DIN EN ISO 228

GAS	P TPI		Toll.
1/16	28	<b>7,25</b>	±0,05
1/8	28	<b>9,25</b>	±0,05
1/4	19	<b>12,5</b>	±0,05
3/8	19	<b>16</b>	±0,05
1/2	14	<b>20</b>	±0,05
5/8	14	<b>22</b>	±0,05
3/4	14	<b>25,5</b>	±0,05
7/8	14	<b>29,25</b>	±0,05
1'	11	<b>32</b>	±0,05
1'-1/8	11	<b>36,70</b>	±0,05
1'-1/4	11	<b>40,70</b>	±0,05

# CLASSI DI TOLLERANZA DEI MASCHI-EN22857

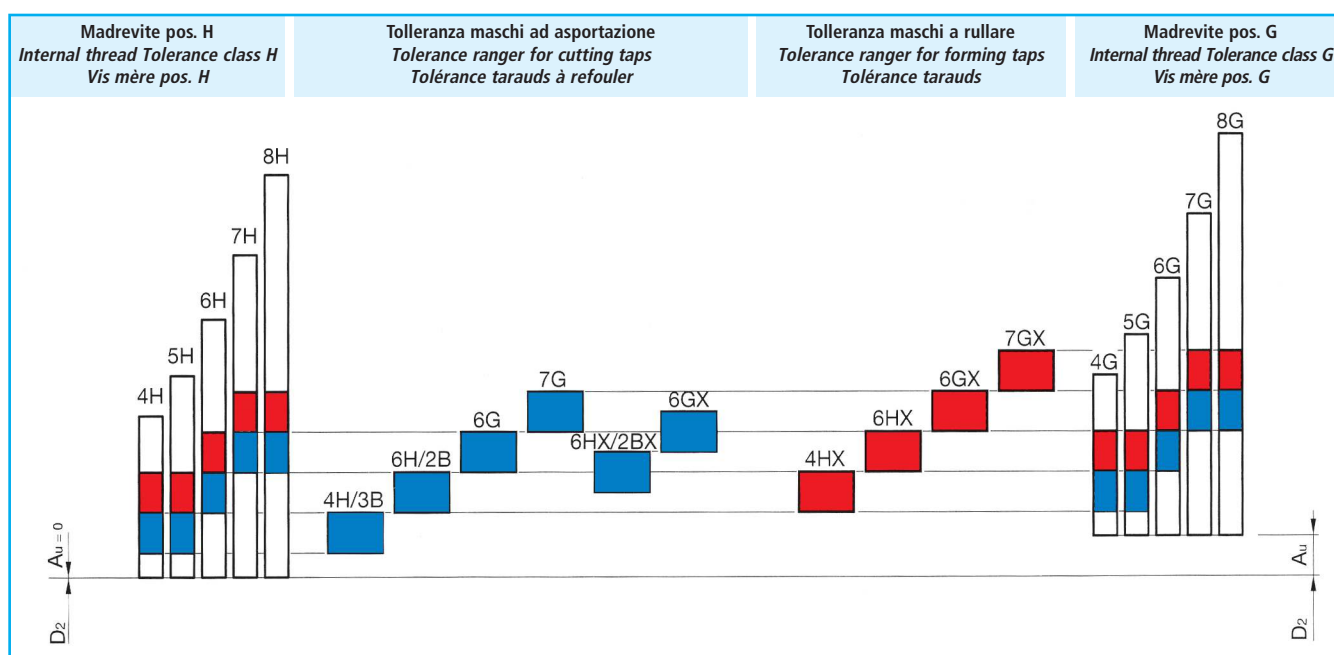
TOLERANCE CLASSES OF TAPS - EN 22857

CLASSES DE TOLÉRANCE DES TARAUDS - EN 22857

ISO	Maschio - Tap - Taraud		Madrevite				Accoppiamento	
	DIN	ANSI/ASME	Internal thread, nut - Vis-Mère					
ISO 1	4H	3B	4H	5H			Senza gioco <i>Fit without allowance - Sans jeu</i>	
ISO 2	6H	2B	4G	5G	6H		Con gioco standard <i>Standard fit - Avec jeu standard</i>	
ISO 3	6G	1B			6G	7H	8H	Con gioco speciali <i>Special fit with allowance - Avec jeu spécial</i>
	7G					7G	8G	Largo per successivi rivestimenti <i>Loose fit, for subsequent coating</i> <i>Large pour les revêtements subséquents</i>

## Posizione della tolleranza

Tolerance classes - Emplacement de la tolérance



L'accoppiamento più comunemente utilizzato è quello relativo alle classe ISO 2, 6H o 2B. Per accoppiamenti più precisi, senza gioco tra i fianchi del filetto, deve essere utilizzato un accoppiamento "più stretto" di classe ISO 1, 4H o 3B. Le tolleranze ISO 3, 6G o 1B sono utilizzate per accoppiamenti grossolani, applicate nel caso di ricoprimenti superficiali successivi al processo di filettatura.

*Standard fit for a thread is according tolerance ISO 2, 6H or 2B and so, for more precise fit, without any allowance on thread flanks, You have to choose ISO 1, 4H and 3B, for American threading. For following coatings to be applied after threading You have to use ISO 3, 6G, 1B.*

*Le couplage plus couramment utilisé est lié à la classe ISO 2, 6H ou 2B. Pour les assemblages plus précis sans jeu entre les côtés du filet, doit être utilisé un « resserrement » ISO classe 1, 4H ou 3B. Tolérances ISO 3, 6G ou 1B sont utilisés pour les pas grossiers, appliqués dans le cas des revêtements de surface suite au processus de taraudage.*

Vengono inoltre realizzate tolleranze intermedie 6HX e 6GX applicate su tipologie di maschi che lavorano materiali abrasivi, come la ghisa, per aumentare la durata. Un'altra applicazione delle tolleranze intermedie X è quella relativa ai maschi a rullare, che realizzano la filettatura mediante processo di deformazione plastica; in questo caso, ad esempio, per ottenere una filettatura 6H il maschio viene realizzato in tolleranza 6HX per compensare il ritorno elastico del materiale lavorato.

*Taps'manufacturers produce taps with tolerance 6HX and 6GX and not only 6H and 6G. These taps are used for cast iron, to increase tools'life or for forming taps. In those cases You have to use 6HX tap to compensate the elastic return of the material.*

*Il a également les 6GX 6HX tolérances intermédiaire appliquées et sur les types de tarauds travaillant les matériaux abrasifs, comme la fonte, pour une durabilité accrue. Une autre application de tolérances intermédiaire X sont les tarauds à refouler, effectuant le filetage à travers les processus de déformation plastique; dans ce cas, par exemple, pour obtenir un 6H le taraud est en tolérance 6HX pour compenser le retour élastique du matériau travaillé.*

Nelle pagine successive sono riportati gli scostamenti standard (6H e 2B) per le filettature M, MF,UNC, UNF e GAS. ➤

*In the following pages shows the standard fit (6H and 2B) for threads M, MF, UNC, UNF and GAS ➤*

*Dans les pages qui suivent sont les écarts-types (6H et 2B) pour les filetages M, MF, UNC, UNF et GAZ ➤*

# TOLLERANZE DI FABBRICAZIONE SUI DIAMETRI MEDI DEI MASCHI

MANUFACTURING TOLERANCES ON PITCH DIAMETER

TOLÉRANCES DE LA FABRICATION SUR LES DIAMÈTRES MOYENS DES TARAUDS

## M - ISO Passo GROSSO - ISO Metric Coarse Thread - M-ISO pas gros

Ød1	P mm	Diametri medi 6H Pitch diameter 6H - Diamètres moyens 6H	
		Min	Max
2	0,4	1,761	1,776
2,5	0,45	2,231	2,246
3	0,5	2,699	2,715
3,5	0,6	3,137	3,155
4	0,7	3,574	3,593
4,5	0,75	4,042	4,061
5	0,8	4,510	4,530
6	1	5,385	5,409
7	1	6,385	6,409
8	1,25	7,226	7,251
9	1,25	8,226	8,251
10	1,5	9,068	9,096
11	1,5	10,068	10,096
12	1,75	10,911	10,943
14	2	12,752	12,786
16	2	14,752	14,786
18	2,5	16,430	16,466
20	2,5	18,430	18,466
22	2,5	20,430	20,466
24	3	22,115	22,157
27	3	25,115	25,157
30	3,5	27,794	27,839
33	3,5	30,794	30,839
36	4	33,473	33,520
39	4	36,473	36,520
42	4,5	39,152	39,202
45	4,5	42,152	42,202
48	5	44,832	44,885
52	5	48,832	48,885
56	5,5	52,512	52,568
60	5,5	56,512	56,568
64	6	60,193	60,253
68	6	64,193	64,253

## M, MF, UNC, UNF

Dimensioni in mm  
Dimensions in mm

$$H = 0,866\ 03\ P$$

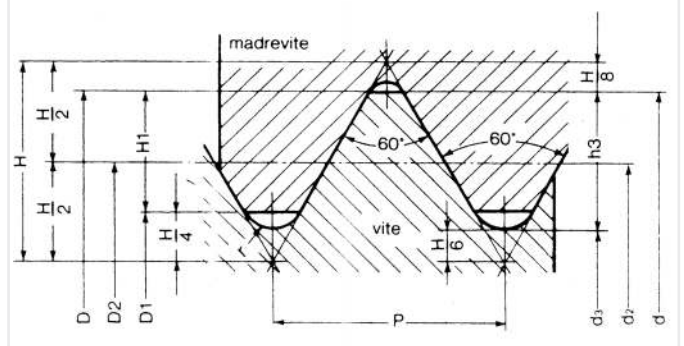
$$H_1 = \frac{5}{8} H = 0,541\ 27\ P$$

$$h_3 = \frac{17}{24} H = 0,613\ 43\ P$$

$$d_2 = D_2 = d - \frac{3}{4} H = d - 0,649\ 52\ P$$

$$d_3 = d - 2\ h_3 = d - 1,223\ 87\ P$$

$$r = \frac{H}{6} = 0,144\ 34\ P$$



## MF - ISO Passo FINE - ISO Metric Fine Thread - MF-ISO pas fin

Ød1	P mm	Diametri medi 6H Pitch diameter 6H - Diamètres moyens 6H	
		Min	Max
2,5	0,35	2,293	2,307
3	0,35	2,794	2,809
3,5	0,35	3,294	3,309
4	0,5	3,699	3,715
4,5	0,5	4,199	4,215
5	0,5	4,699	4,715
5,5	0,5	5,199	5,215
6	0,75	5,545	5,566
7	0,75	6,545	6,566
8	1	7,385	7,409
9	1	8,385	8,409
10	1	9,385	9,409
10	1,25	9,226	9,251
12	1,25	11,230	11,258
12	1,5	11,071	11,101
14	1,25	13,230	13,258
15	1,5	14,071	14,101
16	1,5	15,071	15,101
17	1,5	16,071	16,101
18	1,5	17,071	17,101
18	2	16,752	16,786
20	1,5	19,071	19,101
20	2	18,752	18,786
22	1,5	21,071	21,101
22	2	20,752	20,786
24	1,5	23,074	23,106
24	2	22,755	22,791
25	1,5	24,074	24,106
25	2	23,755	23,791
27	1,5	26,074	26,106
27	2	25,755	25,791
28	1,5	27,074	27,106
28	2	26,755	26,791
30	1,5	29,074	29,106
30	2	28,755	28,791
30	3	28,115	28,157
32	1,5	31,074	31,106
32	2	30,755	30,791
33	1,5	32,074	32,106
33	2	31,755	31,791
33	3	31,115	31,157

Ød1	P mm	Diametri medi 6H Pitch diameter 6H - Diamètres moyens 6H	
		Min	Max
35	1,5	34,074	34,106
36	1,5	35,074	35,106
36	2	34,755	34,791
36	3	34,115	34,157
39	1,5	38,074	38,106
39	2	37,755	37,791
39	3	37,115	37,157
40	1,5	39,074	39,106
40	2	38,755	38,791
40	3	38,115	38,157
42	1,5	41,074	41,106
42	2	40,755	40,791
42	3	40,115	40,157
42	4	39,473	39,520
45	1,5	44,074	44,106
45	2	43,755	43,791
45	3	43,115	43,157
45	4	42,473	42,520
48	1,5	47,077	47,111
48	2	46,758	46,796
48	3	46,118	46,163
48	4	45,477	45,527
50	1,5	49,077	49,111
50	2	48,758	48,796
50	3	48,118	48,163
52	1,5	51,077	51,111
52	2	50,758	50,796
52	3	50,118	50,163
55	4	52,477	52,527
55	1,5	54,077	54,111
55	2	53,758	53,796
55	3	53,118	53,163
55	4	52,477	52,527
56	1,5	55,077	55,111
56	2	54,758	54,796
56	3	54,118	54,163
56	4	53,477	53,527



# TOLLERANZE DI FABBRICAZIONE SUI DIAMETRI MEDI DEI MASCHI

MANUFACTURING TOLERANCES ON PITCH DIAMETER

TOLÉRANCES DE LA FABRICATION SUR LES DIAMÈTRES MOYENS DES TARAUDS

## Filettatura **UNC** (ASME B1.1) - UNC Coarse Thread - Filetage UNC

Ød1	P TPI	Diametri medi 2B	
		Pitch diameter 2B - Diamètres moyens 2B Min	Max
Nr. 1	64	1,611	1,626
Nr. 2	56	1,904	1,919
Nr. 3	48	2,186	2,201
Nr. 4	40	2,447	2,462
Nr. 5	40	2,777	2,792
Nr. 6	32	3,009	3,029
Nr. 8	32	3,670	3,690
Nr. 10	24	4,158	4,178
Nr. 12	24	4,818	4,838
1/4	20	5,570	5,590
5/16	18	7,066	7,086
3/8	16	8,538	8,558
7/16	14	9,979	9,999
1/2	13	11,475	11,495
9/16	12	12,957	12,977
5/8	11	14,425	14,445
3/4	10	17,450	17,470
7/8	9	20,452	20,472
1	8	23,397	23,417
1-1/8	7	26,292	26,317
1-1/4	7	29,467	29,492
1-3/8	6	32,249	32,274
1-1/2	6	35,424	35,449
1-3/4	5	41,240	41,270
2	5	47,223	47,253
2-1/4	5	53,583	53,603
2-1/2	4	59,475	59,495
2-3/4	4	65,826	65,846
3	4	72,176	72,196

## Filettatura **UNF** (ASME B1.1) - UNF Fine Thread - Filetage UNC

Ød1	P TPI	Diametri medi 2B	
		Pitch diameter 2B - Diamètres moyens 2B Min	Max
Nr. 0	80	1,333	1,348
Nr. 1	72	1,640	1,655
Nr. 2	64	1,941	1,956
Nr. 3	56	2,235	2,250
Nr. 4	48	2,516	2,531
Nr. 5	44	2,815	2,830
Nr. 6	40	3,107	3,122
Nr. 8	36	3,727	3,747
Nr. 10	32	4,330	4,350
Nr. 12	28	4,916	4,936
1/4	28	5,800	5,820
5/16	24	7,290	7,310
3/8	24	8,877	8,897
7/16	20	10,333	10,353
1/2	20	11,920	11,940
9/16	18	13,416	13,436
5/8	18	15,004	15,024
3/4	16	18,064	18,084
7/8	14	21,097	21,127
1	12	24,075	24,105
1-1/8	12	27,250	27,280
1-1/4	12	30,425	30,455
1-3/8	12	33,600	33,630
1-1/2	12	36,775	36,805

## GAS

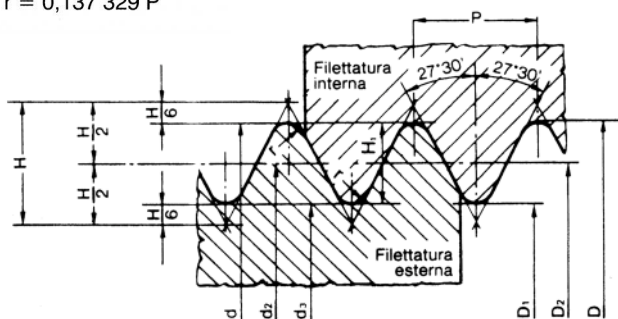
Dimensioni in mm  
Dimensions in mm

$$P = \frac{25,4}{z}$$

$$H = 0,960 491 P$$

$$H_1 = 0,640 327 P$$

$$r = 0,137 329 P$$



## Filettatura **GAS** Cilindrica

Whitworth pipe Thread - Filetage GAZ cylindrique

Ød1	P TPI	Diametri medi 2B	
		Pitch diameter - Diamètres moyens Min	Max
1/8	28	9,189	9,209
1/4	19	12,349	12,369
3/8	19	15,849	15,869
1/2	14	19,848	19,868
5/8	14	21,798	21,818
3/4	14	25,328	25,348
7/8	14	29,088	29,108
1	11	31,831	31,851
1-1/8	11	36,481	36,501
1-1/4	11	40,491	40,511
1-3/8	11	42,901	42,921
1-1/2	11	46,391	46,411
1-3/4	11	52,351	52,371
2	11	58,211	58,231
2-1/4	11	64,321	64,341
2-3/8	11	68,011	68,031
2-1/2	11	73,791	73,811
2-3/4	11	80,151	80,171
3	11	86,501	86,521
3-1/4	11	92,601	92,621
3-1/2	11	98,951	98,971
3-3/4	11	105,301	105,321
4	11	111,651	111,671

# RIVESTIMENTI E TRATTAMENTI SUPERFICIALI

COATINGS AND SURFACE TREATMENTS

REVÊTEMENTS ET TRAITEMENTS DE SURFACE

	Codice UFS	Microdurezza HV 0,05	Coefficiente di attrito	Temperatura di massima lavorazione	Proprietà	Applicazione
	UFS Code	Micro hardness Micro - dureté	Friction coefficient Coefficient frottement	Max working temperature Température travail max.	Propriétés Propriétés	Applications Application
<b>TiN</b>	T	2300	0,4	600	◇	Rivestimento di base per applicazioni generali e lavorazione degli acciai basso e medio legati. <i>Coating for general applications and machining low and medium alloy steels.</i> <i>Revêtement de base pour les applications générales et le traitement de bas- et moyen des aciers alliés.</i>
<b>TiN-G</b>	TG	2300	0,2	600	◇	Applicazioni generali per maschiatura a rullare ad alto rendimento, UFS TOP serie X2 ed X3. <i>General applications for high-performance former taps, UFS TOP series X2 and X3.</i> <i>Applications générales pour taraudage à refouler à haut rendement, UFS TOP série X2 et X3.</i>
<b>TiCN</b>	CT	3000	0,4	400	◇	Applicazione su materiali abrasivi come la ghisa, leghe di nichel e titanio. <i>Application on abrasive materials (ex. cast iron), nickel and titanium alloys.</i> <i>Application sur les matériaux abrasifs tels que fonte, alliages de nickel et de titane.</i>
<i>new</i> <b>CrN</b> Nitrato di cromo Chromium nitride Nitrure de chrome	NC	3000	0,25	850	◆ *	Applicazione su acciaio di medio - bassa resistenza. Particolarmente indicato per rame, ottone, bronzo e zama. <i>Application on medium - low resistance steel. Particularly suitable for copper, brass, bronze and zamak.</i> <i>Application sur acier de moyenne- faible résistance. Particulièrement adapté pour le cuivre, laiton, Laiton et zamak.</i>
<b>TiAlN</b> Tinalox	TX	3500	0,4	900	◆	Applicazione per materiali abrasivi (ghisa), a secco e per alte velocità di taglio. Lavorazioni su acciai ad alta resistenza legati e temprati. <i>Application for abrasive materials (cast iron), dry machining and for high speed cutting. Working on high-strength alloy steel and hardened.</i> <i>Application pour matériaux abrasifs (fonte), Usinage a sec et haute vitesses. Travaillant sur les aciers à haute résistance et prés-traités.</i>
<b>ZrN</b> Nitrato di zirconio Zirconium nitride Nitrure de zirconium	TZ	1600	-	-	*	Ad esaurimento scorte o su richiesta. Applicazione per alluminio e sue leghe. <i>Exhausted for standard item or on request.</i> <i>Application for aluminium and its alloys.</i> <i>Sur demande épaissement des stocks.</i> <i>Application pour l'aluminium et ses alliages.</i>
<i>new</i> <b>VS</b> Vaporizzazione Super Super steam tempering Vaporisation Super	VS	1600	0,15	380	*	Nuovo rivestimento di ultima generazione, evoluzione della classica vaporizzazione. Trova applicazione su alluminio a basso contenuto di silicio, acciai dolci e materiali teneri con tendenza ad incollare. <i>New coating, latest generation, evolution of the classic steam tempering for low % Si aluminium, low resistance steel and soft materials with a tendency to stick.</i> <i>Nouvelle génération de revêtement, évolution de la vaporisation classique.</i> <i>Application sur l'aluminium à faible pourcentage de silicium, aciers doux et matériaux tendre avec tendance de soudures a froid.</i>
<i>new</i> <b>XP</b> TiN-X Plus	XP	2300	0,15	600	◇ *	Nuovo rivestimento per acciai di medio bassa resistenza, particolarmente consigliato per maschiatura compensata. <i>New coating for medium-low resistance steel, recommended for tapping with axial compensation.</i> <i>Nouveau revêtement pour les aciers de moyenne - faible Résistance, particulièrement recommandée pour Taraudage compensé.</i>
<b>TXC</b> Tinalox + Carbon	TXC	3500	0,15	850	◆ *	Combinazione di un rivestimento 3500 HV ed uno strato autolubrificante, consigliato per maschiatura di fori ciechi profondi. Applicazione su INOX ed Alluminio con alto contenuto di Si. <i>Combination of a coating 3500 HV and a lubricating layer, recommended for tapping blind deep holes. Application on stainless steel and aluminium with a high % of Si.</i> <i>Combinaison d'un revêtement de 3500 HV et une couche autolubrifiant recommandé pour exploiter des trous borgnes profonds.</i> <i>Application pour acier inoxydable et aluminium à haute teneur de Si.</i>

# RIVESTIMENTI E TRATTAMENTI SUPERFICIALI

COATINGS AND SURFACE TREATMENTS

REVÊTEMENTS ET TRAITEMENTS DE SURFACE

	Codice UFS	Microdurezza HV 0,05	Coefficiente di attrito	Temperatura di massima lavorazione	Proprietà	Applicazione
	UFS Code	Micro hardness Micro - dureté	Friction coefficient Coefficient frottement	Max working temperature Température travail max.	Properties Propriétés	Applications Application
<b>V</b> Vaporizzazione Steam Tempering Vaporisation	V	400	-	-	*	Trattamento superficiale di base indicato per la lavorazione degli acciai dolci o basso legati, acciai automatici (AVP) e alluminio puro o con basso contenuto di silicio. <i>Basic surface treatment suited for machining soft steel, low alloy steels, automatic steel (AVP), pure aluminium and aluminium low % Si.</i> <i>Traitement de surface base propres à la transformation des aciers doux ou faiblement alliés, Acier de décolletage (AVP) et aluminium pur ou à faible composition de silicium.</i>
<b>NQ</b> Nitrurazione NQ Nitriding NQ Nituration NQ	NQ	1300	-	-	◇	Trattamento superficiale di tipo tradizionale utilizzato per lavorazioni della ghisa e del bronzo a truciolo corto. <i>Traditional surface treatment used for machining cast iron and short chip bronze.</i> <i>Traitement de surface traditionnel Utilisé pour l'usinage de la fonte et bronze copeaux courts.</i>
<b>TXS</b>	TXS	3200	0,25	1100	*	Applicazione su ghisa ed elevata resa produttiva. <i>Application for cast iron and high yield.</i> <i>Application sur la fonte et à haut rendement.</i>

◇ Resistenza all'usura

*Wear resistance - Résistance à l'usure*

◆ Resistenza all'usura e all'ossidazione

*Oxidation and wear resistance - Résistance à l'usure et l'oxydation*

\* Facilita lo scorrimento del truciolo

*Chip evacuation - Fluage du copeau*

\* Resistenza all'usura, stabilità termica, durezza a caldo

*Wear resistance, thermal shock stability and hot hardness - Résistance à l'usure, stabilité thermique, dureté chaude*

## VAPORIZZAZIONE

STEAM TEMPERING - VAPORISATION

## TiN

TiN

Tanti sono i trattamenti superficiali specifici per i materiali da filettare, ma volendo semplificare al massimo, 2 sono quelli che si dividono la maggior percentuale d'impiego e, quindi, di vendita.

*There are so many specific surface treatments for threaded materials, but to simplify it as much as possible, most applications use two different types.*

*Il existe de nombreux traitements de surface spéciaux pour les matériaux à fileter, mais pour vouloir simplifier au maximum, 2 sont ceux qui divisent le plus grand pourcentage d'utilisation et de vente.*



# COMPARAZIONE DUREZZE

## HARDNESS COMPARISON TABLE

## COMPARAISON DE DURETÉ

HV Vickers Durezza <i>Hardness - Dureté</i>	HRC Rockwell Durezza <i>Hardness - Dureté</i>	HB Brinell Durezza <i>Hardness - Dureté</i>	Resistenza <i>Tensile Strength - Résistance</i>	
			N/mm <sup>2</sup>	Tons/sq. in.
940	68			
900	67			
864	66			
829	65			
800	64			
773	63			
745	62			
720	61			
698	60			
675	59			
655	58		2200	142
650		618	2180	141
640		608	2145	139
639	57	607	2140	138
630		599	2105	136
620		589	2070	134
615	56	584	2050	133
610		580	2030	131
600		570	1995	129
596	55	567	1980	128
590		561	1955	126
580		551	1920	124
578	54	549	1910	124
570		542	1880	122
560	53	532	1845	119
550		523	1810	117
544	52	517	1790	116
540		513	1775	115
530		504	1740	113
527	51	501	1730	112
520		494	1700	110
514	50	488	1680	109
510		485	1665	108
500		475	1630	105
497	49	472	1620	105
490		466	1595	103
484	48	460	1570	102
480		456	1555	101
473	47	449	1530	99
470		447	1520	98
460		437	1485	96
458	46	435	1480	96
450		428	1455	94
446	45	424	1440	93
440		418	1420	92

HV Vickers Durezza <i>Hardness - Dureté</i>	HRC Rockwell Durezza <i>Hardness - Dureté</i>	HB Brinell Durezza <i>Hardness - Dureté</i>	Resistenza <i>Tensile Strength - Résistance</i>	
			N/mm <sup>2</sup>	Tons/sq. in.
434	44	416	1400	91
423	43	402	1360	88
413	42	393	1330	86
403	41	383	1300	84
392	40	372	1260	82
382	39	363	1230	80
373	38	354	1200	78
364	37	346	1170	76
355	36	337	1140	74
350		333	1125	73
345	35	328	1110	72
340		323	1095	71
336	34	319	1080	70
330		314	1060	69
327	33	311	1050	68
320		304	1030	67
317	32	301	1020	66
310	31	295	995	64
302	30	287	970	63
300		285	965	62
295		280	950	61
293	29	278	940	61
290		276	930	60
287	28	273	920	60
285		271	915	59
280	27	266	900	58
275		261	880	57
272	26	258	870	56
270		257	865	56
268	25	255	860	56
265		252	850	55
260	24	247	835	54
255	23	242	820	53
250	22	238	800	52
245		233	785	51
243	21	231	780	50
240		228	770	50
235		223	755	49
230		219	740	48
225		214	720	47
220		209	705	46
215		204	690	45
210		199	675	44
205		195	660	43
200		190	640	41

Secondo norma ISO 18265:2003 per gli acciai (ad esclusione degli acciai rapidi)

According to ISO 18265:2003 for steels (except high speed steels) - Selon la norme ISO 18265:2003 pour les aciers (sauf les aciers rapides)

# GRUPPI MATERIALE

MATERIAL GROUPS

GROUPES DE MATÉRIAUX

## 1 Acciaio

*Steel - Aciers*

268 ÷ 269 ▶

### Acciaio legato – Alta resistenza e Temprato

*Alloyed steel – high strength steel an hardened steel / Aciers allié - haute résistance - acier trempé*

269 ÷ 270 ▶

## 2 Acciaio INOX

*Stainless Steel*

270 ÷ 271 ▶

## 3 Ghisa

*Cast Iron*

272 ▶

## 4 Alluminio, Magnesio

*Aluminum, Magnesium - Aluminium, magnésium*

273 ÷ 274 ▶

## 5 Rame

*Cooper - Cuivre*

274 ÷ 275 ▶

## 6 Titanio

*Titanium - Titane*

275 ▶

## 7 Nichel

*Nickel*

275 ÷ 276 ▶

## 8 Materie plastiche

*Synthetic materials - Plastiques*

276 ▶

## 9 Materiali Speciali

*Special Materials - Matériaux spéciaux*

277 ▶

## 10 Grafite

*Graphite*

277 ▶

<b>1</b>	<b>Acciaio - Steel - Acier</b>			
<b>1.1</b>	<b>Acciaio dolce magnetico Rm &lt; 400 N/mm<sup>2</sup>, &lt; 120 HB</b>			
	<i>Magnetic soft steel - Acier doux magnétique</i>			
	W-Nr.	DIN - Germany	UNI - Italy	
	1.1013	RFe100	-	
	1.1014	Rfe80	-	
	1.1015	Rfe60	-	
<b>1.2</b>	<b>Acciaio da costruzione, da cementazione, automatico Rm &lt; 700 N/mm<sup>2</sup>, &lt; 200 HB</b>			
	<i>Structural steel, case carburizing steel, free cutting steel - Acier de construction, en acier trempé</i>			
	W-Nr.	DIN - Germany	UNI - Italy	
		1.0037	St37-2	
		1.0044	St44-2	
	Acciaio da costruzione <i>Structural steel</i> <i>Acier de construction</i>	1.0050	St50-2	Fe490
		1.0060	St60-2	Fe590
		1.0070	St70-2	Fe690
		1.0570	St52-3	Fe510B, C, D
			1.0301	C10
		1.0401	C15	
		1.0402	C22	
	Acciaio da cementazione <i>Case carburizing steel</i> <i>Acier trempé</i>	1.0406	C25	C25
		1.7131	16MnCr5	16MnCr5
		1.7147	20MnCr5	20MnCr5
		1.5919	15CrNi6	16CrNi4
		1.6523	21NiCrMo2	20NiCrMo2
		1.6587	17CrNiMo6	18NiCrMo7
	Acciaio automatico (AVP) <i>Free cutting steel</i> <i>Acier automatique</i>	1.0711	9S20	CF10S20
1.0715		9SMn28	CF9SMn28	
1.0718		9SMnPb28	CF9SMnPb28	
1.0726		35S20	CF35SMn10	
1.0736		9SMn36	CF9SMn36	
1.0737		9SMnPb36	CF9SMnPb36	
<b>1.3</b>	<b>Acciaio al carbonio Rm &lt; 850 N/mm<sup>2</sup>, &lt; 250 HB</b>			
	<i>Plain carbon steel - Acier au carbone</i>			
	W-Nr.	DIN - Germany	UNI - Italy	
		1.0528	C30	
		1.0501	C35	
		1.0511	C40	
	Da bonifica <i>Heat-treatable steel</i> <i>De revenu</i>	1.0503	C45	C45
		1.0540	C50	-
		1.0535	C55	C55
		1.0601	C60	C60
		1.1178	Ck30	-
		1.1181	Ck35	C35
		1.1191	Ck45	C46

Continua Acciaio al carbonio / Continue Plain carbon steel / Acier au carbone à suivre ►

	W-Nr.	DIN - Germany	UNI - Italy
Per molle <i>Spring steel</i> <i>Pour les ressorts</i>	1.1231	Ck67	C70
	1.1248	Ck75	C75
	1.1269	Ck85	C85
	1.1274	Ck101	C100
Da tempra superficiale <i>Surface hardening</i> <i>De durcissement de surface</i>	1.1183	Cf35	C36, C38
	1.1193	Cf45	C43
	1.1213	Cf53	C53
1.4 1.5 1.6 1.7 1.8 Acciaio legato <i>Alloyed steel - Acier allié</i>	<b>Acciaio legato - bonificato, fusioni d'acciaio Rm &lt; 850 N/mm<sup>2</sup>, &lt; 250 HB</b> <i>Alloyed steel, tempered steel, steel castings - Acier allié, trempé et revenu, fusion d'acier</i>		
	<b>Acciaio legato - bonificato Rm 850 ÷ 1200 N/mm<sup>2</sup>, 250 ÷ 350 HB</b> <i>Alloyed steel, tempered steel - Acier allié, trempé et revenu</i>		
	<b>Acciaio legato - alta resistenza Rm 1200 ÷ 1400 N/mm<sup>2</sup>, 38 ÷ 45 HRC</b> <i>Alloyed steel, high strength steel - Acier allié - haute résistance</i>		
	<b>Acciaio legato - alta resistenza Rm 1400 ÷ 1600 N/mm<sup>2</sup>, 45 ÷ 49 HRC</b> <i>Alloyed steel, high strength steel - Acier allié - haute résistance</i>		
	<b>Acciaio legato - temprato 49 ÷ 62 HRC</b> <i>Hardened steel - Acier trempé</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Da bonifica <i>Heat-treatable steel</i> <i>De revenu</i>	1.7035	41Cr4	41Cr4
	1.8159	50CrV4, 51CrV4	51CrV4
	1.7218	25CrMo4	25CrMo4
	1.7220	34CrMo4	35CrMo4
	1.7225	42CrMo4	42CrMo4
	1.7228	50CrMo4	-
	1.7242	16CrMo4	18CrMo4
	1.6580	30CrNiMo8	30NiCrMo8
	1.6582	34CrNiMo6	35NiCrMo6 (KW)
	1.6511	36CrNiMo4	38NiCrMo4 (KB)
	1.6773	36NiCrMo16	34NiCrMo16
	1.6565	40NiCrMo6	-
Da nitrurazione <i>Nitriding steel</i> <i>De nitruration</i>	1.8515	31CrMo12	31CrMo12
	1.8519	31CrMoV9	-
	1.8507	34CrAlMo7	34CrAlMo7
	1.8509	41CrAlMo7	41CrAlMo7
Da cuscinetti <i>Ball bearing steel</i> <i>Roulements</i>	1.3505	100Cr6	100Cr6
	1.3537	100CrMo7	100CrMo7
Per molle <i>Spring steel</i> <i>Ressorts</i>	1.5025	51Si7	48Si7
	1.5026	56Si7	55Si7
	1.5027	60Si7	-
	1.7108	60SiCr7	60SiCr8
	1.8159	50CrV4	50CrV4
	1.7176	55Cr3	55Cr3
	1.7701	51CrMoV4	-
Fusioni d'acciaio (ghisa acciaiata) <i>Steel castings</i> <i>Acier coulé</i>	1.0446	GS-45	-
	1.0552	GS-52	-
	1.5919	GS-15CrNi6	-
	1.7218	GS-25CrMo4	-
	1.7220	GS-34CrMo4	-
	1.7379	GS-18CrMo9-10	-

Continua Acciaio legato / Continue Alloyed steel / Acier allié à suivre ➤



	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
Per tempra superficiale <i>Surface hardening</i> <i>De durcissement de surface</i>	1.7005	45Cr2	-
	1.7006	46Cr2	46Cr2
	1.7043	38Cr4	-
	1.7034	37Cr4	36CrMn4
	1.7223	41CrMo4	41CrMo4
Per lavorazioni a caldo <i>Hot work tool steel</i> <i>Travail à chaud</i>	1.2767	45NiCrMo16	42NiCrMo 15 7
	1.2713	55NiCrMoV6	-
	1.2714	55NiCrMoV7	55NiCrMoV7KU
	1.2311	40CrMnMo7	35CrMo8KU
	1.2365	X32CrMoV3-3	30CrMoV12-27KU
	1.2343	X38CrMoV5-1	X37CrMoV5-1KU
	1.2344	X40CrMoV5-1	X40CrMoV5-1-1KU
	1.2567	X30WCrV5-3	X30WCrV5-3KU
Per lavorazioni a freddo <i>Cold work tool steel</i> <i>Travail à froid</i>	1.2581	X30WCrV9-3	X30WCrV9-3KU
	1.2080	X210Cr12	X205Cr12KU
	1.2083	X42Cr13	-
	1.2363	X100CrMoV5-1	X100CrMoV5-1KU
	1.2379	X155CrVMo12-1	X155CrVMo12-1KU
	1.2510	100MnCrW4	95MnWCr5KU
	1.2550	60WCrV7	55WCrV8KU
Acciaio rapido HSS, HSS-E <i>High speed steel</i> <i>Acier rapide</i>	1.2842	90MnCrV8	90MnVCr8KU
	1.3202	S 12-1-4-5	(T15)
	1.3207	S 10-4-3-10	HS 10-4-3-10 (T42)
	1.3243	S 6-5-2-5	HS 6-5-2-5 (M35)
	1.3247	S 2-10-1-8	HS 2-9-1-8 (M42)
	1.3343	S 6-5-2	HS 6-5-2 (M2)
	1.3344	S 6-5-3	(M3/2)
Acciaio rapido sinterizzato HSS-PM <i>Sintered high speed steel</i> <i>Acier fritté</i>	1.3348	S 2-9-2	HS 2-9-2 (M7)
	-	HS 6-5-3-8	(ASP2030, ASP30)
	-	HS 10-2-5-8	(ASP2052, ASP52)
1.7 Acciaio speciale Rm<1600 N/mm² <i>Special steel</i> <i>Acier spécial</i>	-	HS 6-7-6-10	(ASP2060, ASP60)
	-	-	HARDOX 400
1.8 Acciaio speciale 49 – 62 HRC <i>Special steel</i> <i>Acier spécial</i>	-	-	HARDOX 450
	-	-	HARDOX 500
			HARDOX 600
<b>2</b>	<b>Acciaio INOX - Stainless Steel - Acier inoxydable</b>		
<b>2.1</b>	<b>Acciaio INOX automatico Rm &lt; 850 N/mm², &lt; 250 HB</b>		
	<i>Free machining stainless steel - Automatique acier inoxydable</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
1.4104	X14CrMoS17	X10CrS17 (AISI 430F)	
1.4305	X8CrNiS18-9	X10CrNiS18-9 (AISI 303)	

Continua Acciaio INOX / Continue Stainless Steel / Acier inoxydable à suivre ➤

<b>2.2 Austenitico Rm &lt; 850 N/mm<sup>2</sup>, &lt; 250 HB</b>			
<i>Austenitic stainless steel - Austénitique</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	1.4301	X5CrNi18-10	X5CrNi18-10 (AISI 304)
	1.4306	X2CrNi19-11	X2CrNi18-11 (AISI 304L)
	1.4401	X5CrNiMo18-10	X5CrNiMo17-12 (AISI 316)
	1.4404	X2CrNiMo17-13-2	X2CrNiMo17-12 (AISI 316L)
	1.4406	X2CrNiMoN17-12-2	X2CrNiMoN17-12 (AISI 316LN)
	1.4435	X2CrNiMo18-14-3	X2CrNiMo17-13
	1.4438	X2CrNiMo18-16-4	X2CrNiMo18-15 (AISI 317L)
	1.4541	X6CrNiTi18-10	X6CrNiTi18-11 (AISI 321)
	1.4550	X6CrNiNb18-10	X8CrNiNb18-11 (AISI 347)
	1.4828	X15CrNiSi20-12	X16CrNi23-14
	1.4841	X15CrNiSi25-20	X16CrNiSi25-20 (AISI 314)
	1.4845	X12CrNi25-21	X6CrNi25-20 (AISI 310S)
<b>2.3 Ferritico, Ferritico + Austenitico, Martensitico Rm &lt; 1100 N/mm<sup>2</sup>, &lt; 320 HB</b>			
<i>Ferritic, ferritic + austenitic, martensitic - Ferritique, ferritique + austénitique, martensitique</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
Ferritico <i>Ferritic</i> <i>Ferritique</i>	1.4002	X6CrAl13	X6CrAl13 (AISI 405)
	1.4003	X2Cr11	X2CrNi12
	1.4016	X6Cr17	X8Cr17 (AISI 430)
	1.4510	X6CrTi17	X6CrTi17 (AISI 430Ti)
	1.4509	X2CrTiNb18	X2CrTiNb18
	1.4512	X5CrTi12	X6CrTi12 (AISI 409)
Ferritico + austenitico (Bifasico) <i>Ferritic + austenitic (Duplex)</i> <i>Ferritique+austénitique, (biphásique)</i>	1.4462	X2CrNiMoN22-5-3	X2CrNiMoN22-5-3
	1.4501	X2CrNiMoCuWN25-7-4	X2CrNiMoCuWN25-7-4
Martensitico <i>Martensitic</i> <i>Martensitique</i>	1.4006	X10Cr13	X12Cr13 (AISI 410)
	1.4005	X12CrS13	X12CrS13 (AISI 416)
	1.4021	X20Cr13	X20Cr13 (AISI 420)
	1.4028	X30Cr13	X30Cr13
	1.4057	X17CrNi16-2	X16CrNi16 (AISI 431)
	1.4125	X105CrMo17	(AISI 440C)
<b>2.4 Leghe Cr-Ni resistenti alle alte temperature Rm 1100 ÷ 1400 N/mm<sup>2</sup>, 330 ÷ 410 HB</b>			
<i>Cr-Ni alloys high temperatures resistant - Alliages Cr-Ni résistant à des températures élevées</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
Indurente per precipitazione <i>Precipitation hardening</i> <i>Durcissement par précipitation</i>	1.4542	X5CrNiCuNb16-4	(AISI 630, 17-4 PH)
	1.4545	X4CrNiCu16-6	(15-5 PH)
	1.4568	X7CrNiAl17-7	(17-7 PH)
	1.4922	X20CrMoV11-1	-
	1.4939	X12CrNiMo12	-
	1.4944	-	(AISI 660)
	1.4980	X6NiCrTiMoVB25-15-2	

<b>3</b>	<b>Ghisa - Cast Iron - Fonte</b>		
3.1	<b>Ghisa grigia lamellare Rm &lt; 600 N/mm<sup>2</sup>, &lt; 180 HB</b>		
	<i>Lamellar grey cast iron - Fonte grise lamellaire</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	0.6010	GG-10	G 10
	0.6015	GG-15	G 15
	0.6020	GG-20	G 20
3.2	<b>Ghisa grigia lamellare Rm 600 ÷ 1000 N/mm<sup>2</sup>, 180 ÷ 300 HB</b>		
	<i>Lamellar grey cast iron - Fonte grise lamellaire</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	0.6025	GG-25	G 25
	0.6030	GG-30	G 30
	0.6035	GG-35	G 35
	0.6040	GG-40	G 40
3.3	<b>Ghisa sferoidale Rm &lt; 1000 N/mm<sup>2</sup>, &lt; 300 HB</b>		
	<i>Nodular cast iron - Fonte ductile</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	0.7033	GGG-35.3	-
	0.7040	GGG-40	GS400-12
	0.7043	GGG-40.3	GSO 42/17
	0.7050	GGG-50	GS500-7
	0.7060	GGG-60	GS600-3
	0.7070	GGG-70	GS700-2
	0.7080	GGG-80	GS800-2
	0.7670	GGG-Ni22	-
	0.7683	GGG-Ni35	-
	0.7660	GGG-NiCr20-2	-
	0.7677	GGG-NiCr30-1	-
0.7685	GGG-NiCr35-3	-	
3.4	<b>Ghisa malleabile Rm &lt; 700 N/mm<sup>2</sup>, &lt; 210 HB</b>		
	<i>Malleable cast iron - Fonte malléable</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	0.8035	GTW-35-04	-
	0.8045	GTW-45-07	-
	0.8145	GTS-45-06	-
	0.8165	GTS-65-02	-
	0.8170	GTS-70-02	-
3.5	<b>Ghisa vermicolare a grafite compatta Rm 700 ÷ 1000 N/mm<sup>2</sup>, 200 ÷ 300 HB</b>		
	<i>Compacted cast iron with vermicular graphite - Fonte vermiculaire à graphite compacté</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
			(CGI)
		(GGV)	
		(GJV)	

<b>4 Alluminio, Magnesio - Aluminium, Magnesium - Alliage, Magnésium</b>			
<b>Alluminio / Magnesio non legato Rm &lt; 350 N/mm<sup>2</sup>, &lt; 100 HB</b>			
<i>Aluminium / Magnesium unalloyed - Aluminium / Magnésium non allié</i>			
<b>4.1</b>	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	3.0205	Al99	3567 (9001/1)
	3.0255	Al99.5	4507 (9001/2)
	3.0285	Al99.8	4509 (9001/4)
	3.0305	Al99.9	-
	3.3208	Al99.9MgSi	-
	3.3308	Al99.9Mg0.5	-
	3.3318	Al99.9Mg1	-
<b>Leghe di Al, Si &lt; 0,5% - truciolo lungo Rm &lt; 500 N/mm<sup>2</sup>, &lt; 150 HB</b>			
<i>Al alloys, long chipping - Alliage, coupeaux longs</i>			
<b>4.2</b>	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	3.0505	AlMn0.5Mg0.5	(AISI 3105)
	3.0915	AlFeSi	(AISI 8011A)
	3.3315	AlMg1	5764 (5005, Peraluman100)
	3.3525	AlMg2Mn0.3	(AISI 5251)
	3.3527	AlMg2Mn0.8	(AISI 5049)
	3.3545	AlMg4Mn	(AISI 5086)
	3.3555	AlMg5	(AISI 5056A)
	3.0615	AlMgSiPb	(AISI 6012)
	3.1255	AlCuSiMn	3581 (AISI2014)
	3.1325	AlCuMg1	3579 (AISI 2017A, Avional 100)
	3.1355	AlCuMg2	3583 (AISI 2024, Avional 150)
	3.3547	AlMg4.5Mn	7790 (AISI 5083, Peraluman 460)
	3.3206	AlMgSi0.5	3569 (AISI 6060, Anticorodal 050)
	3.2315	AlMgSi1	3571 (AISI 6082, Anticorodal 110)
	3.4365	AlZnMgCu1.5	3735 (AISI 7075, Ergal 55)
	3.1371	G-AlCu4TiMg	-
	3.3241	G-AlMg3Si	-
	3.3261	G-AlMg5Si	-
	3.3541	G-AlMg3	-
<b>Leghe di Al, Si &lt; 10% - truciolo medio Rm &lt; 500 N/mm<sup>2</sup>, &lt; 150 HB</b>			
<i>Al alloys, medium chipping - Alliage Al - coupeaux moyen</i>			
<b>4.3</b>	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	3.2134	G-AlSi5Cu1Mg	3600
	3.2161	G-AlSi8Cu3	5075
	3.2162.05	GD-AlSi8Cu3	-
	3.2371	G-AlSi7Mg	7257
	3.2373	G-AlSi9Mg	3051
<b>Leghe Al, Si &gt; 10% - truciolo corto Rm &lt; 600 N/mm<sup>2</sup>, &lt; 180HB</b>			
<i>Al alloys, short chipping - Alliage Al - coupeaux courts</i>			
<b>4.4</b>	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>UNI - Italy</b>
	3.2381	G-AlSi10Mg	3049
	3.2383	G-AlSi10Mg(Cu)	-
	3.2581	G-AlSi12	5079
	3.2583	G-AlSi12(Cu)	3048

Continua leghe di Magnesio / Continue Magnesium alloys / Alliages de Magnésium à suivre ►

4.5	<b>Leghe standard di magnesio Rm 120 ÷ 300 N/mm<sup>2</sup></b>			
	<i>Magnesium standard alloys - Alliages de magnésium standards</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>	
	3.5200	MgMn2	(MAGNUMINIUM 133)	
	3.5312	MgAl3Zn	(AZ31)	
	3.5632	MgAl6Zu3	(AZ63)	
4.6	<b>Leghe di magnesio ad alta resistenza Rm 240 ÷ 400 N/mm<sup>2</sup>, 70 ÷ 120 HB</b>			
	<i>High strength magnesium alloys - Alliages de magnésium de haute résistance</i>			
	3.5161	MgZn6Zr	(ZK60)	
	3.5612	MgAl6Zn1	(AZ61)	
5	<b>RAME - Cooper - Cuivre</b>			
5.1	<b>Rame puro, rame elettrolitico - truciolo lungo Rm &lt; 350 N/mm<sup>2</sup>, &lt; 100 HB</b>			
	<i>Cooper unalloyed, long chipping - Cuivre pur, cuivre électrolytique, coupeaux longs</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>	
	2.0040	OF-Cu	-	
	2.0060	E-Cu57	-	
	2.0065	E-Cu58	-	
	2.0070	Se-Cu	-	
2.0076	SW-Cu	-		
2.0090	SF-Cu	-		
5.2	<b>Leghe di rame, α ottone - truciolo lungo Rm &lt; 700 N/mm<sup>2</sup>, &lt; 200 HB</b>			
	<i>Cooper alloys, soft brass, long chipping - Alliages de cuivre, αlaiton, coupeaux longs</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>	
	Ottone / Brass / Laiton	2.0240	CuZn15, Ms85	-
		2.0250	CuZn20, Ms80	-
		2.0265	CuZn30, Ms70	-
		2.0280	CuZn33, Ms67	-
		2.0321	CuZn37, Ms63	-
		2.0335	CuZn36, Ms64	-
	Bronzo / Bronze	2.1016	CuSn4	-
2.1020		CuSn6	-	
2.1030		CuSn8	-	
2.1080		CuSn6Zn6	-	
5.3	<b>Leghe di rame, β ottone, bronzo - truciolo corto Rm &lt; 700 N/mm<sup>2</sup>, &lt; 200 HB</b>			
	<i>Cooper alloys, hard brass, bronze, short chipping - Alliages de cuivre, βlaiton, bronze, coupeaux courts</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>	
	Ottone / Brass / Laiton	2.0360	CuZn40 (Ms60)	-
		2.0380	CuZn39Pb2 (Ms58)	-
		2.0410	CuZn44Pb2 (Ms56)	-
		2.0510	CuZn37Al1	-
		2.0550	CuZn40Al2	-
		2.0561	CuZn40Al1	-
		2.0580	CuZn40Mn1Pb	-
		2.2140	G-ZnAl4	(ZAMAK)
	Bronzo / Bronze	2.1086	G-CuSn10Zn	-
		2.1093	G-CuSn6ZnNi	-
2.1096		G-CuSn5ZnPb	-	

Continua Bronzo / Continue Bronze / Bronze à suivre ►

5.4	<b>Bronzo ad alta resistenza Rm &lt; 1500 N/mm<sup>2</sup>, &lt; 440 HB</b>		
	<i>High strength bronze - Bronze haute résistance</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	2.0932	CuAl8Fe3	(Ampco12)
	2.0936	CuAl10Fe3Mn2	(Ampco16, Ampco 15)
	2.0940	CuAl10Fe	-
	2.0966	CuAl10Ni5Fe4	(Ampco)
	2.0978	CuAl11Ni6Fe5	-
6	<b>Titanio - Titanium - Titane</b>		
	<b>Titanio non legato Rm &lt; 700 N/mm<sup>2</sup>, &lt; 200 HB</b>		
	<i>Titanium unalloyed - Titane non allié</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Altro / Other / Autres</b>
	3.7024	Ti99.8	T35, Grade 1
	3.7034	Ti99.7	T40, Grade 2
	3.7055	Ti99.6	T50, Grade 3
	3.7064	Ti99.5	T60, Grade 4
6.2	<b>Leghe di titanio Rm &lt; 900 N/mm<sup>2</sup>, &lt; 270 HB</b>		
	<i>Titanium alloys - Alliages de titane</i>		
6.3	<b>Leghe di titanio Rm &lt; 1400 N/mm<sup>2</sup>, &lt; 410 HB</b>		
	<i>Titanium alloys - Alliages de titane</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Altro / Other / Autres</b>
	3.7124	TiCu2	-
	3.7154	TiAl6Zr5	-
	3.7164, 3.7165	TiAl6V4	Grade 5
3.7174	TiAl6V6Sn2	-	
3.7184	TiAl4Mo4Sn2	-	
7	<b>Nichel - Nickel - Nickel</b>		
	<b>Nichel non legato Rm &lt; 500 N/mm<sup>2</sup>, &lt; 150 HB</b>		
	<i>Nickel unalloyed - Nickel non allié</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	1.3911	Rni24	-
	1.3926	Rni12	-
	1.3927	Rni8	-
	2.4061	Ni99,6	Nickel 205
2.4066	Ni99,2	Nickel 200	
2.4068	LC-Ni99	Nickel 201	
7.2	<b>Leghe di Nichel Rm &lt; 900 N/mm<sup>2</sup>, &lt; 270 HB</b>		
<i>Nickel alloys - Alliages de Nickel</i>			
7.3	<b>Leghe di Nichel Rm &lt; 1600 N/mm<sup>2</sup>, &lt; 470 HB</b>		
<i>Nickel alloys - Alliages de Nickel</i>			
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	1.3912	X2Ni36	Invar
	2.4360	NiCu30Fe	Monel 400
	2.4375	NiCu30Al	Monel K500

Continua leghe Nichel / Continue Nickel alloys / Alliages de Nickel à suivre ➤

7.2 – 7.3	W-Nr.	DIN - Germany	Denom. comm./Trade name/Nom comm.
	2.4602	NiCr17Mo17FeW	Hastelloy C
	2.4630	Ni-Cr20Ti	Nimonic 75
	2.4631	NiCr20TiAl	Nimonic 80A
	2.4634	NiCo20Cr15MoAlTi	Nimonic 105
	2.4636	NiCo15Cr15MoAlTi	Udimet 700
	2.4654	NiCr20Co14MoTi	Waspaloy
	2.4662	NiCr13Mo6Ti3	Nimonic 901
	2.4665	NiCr22Fe18Mo	Hastelloy X
	2.4668	NiCr19Fe19NbMo	Inconel 718
	2.4670	G-NiCr13Al6MoNb	Nimocast 713
	2.4674	NiCo15Cr10MoAlTi	Nimocast PK24
	2.4816	NiCr15Fe	Inconel 600
	2.4856	NiCr22Mo9Nb	Inconel 625
<b>8</b>	<b>Materie plastice - <i>Synthetic materials - Matériaux de plastique</i></b>		
<b>8.1</b>	<b>Materiali termoplastici - truciolo extralungo Rm &lt; 80 N/mm<sup>2</sup></b> <i>Thermoplastics, extra long chipping - Matériaux thermoplastique, coupeaux extra-longue</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	-	-	ABS
	PE	Polyethylene	Hostalen
	PP	Polypropylene	Hostalen PP
	PVC	Polyvinyl chloride	Hostalit, Vestolit, Vinoflex
	PS	Polystyrene	Polystyrol
	PMMA	Polymethyle acryle	Plexiglas
	PTFE	Polytetrafluorethylene	Teflon
	PA	Polyamide	Nylon, Ultramid
	PC	Polycarbonate	Makralon
	PI	Thermoplastic polyamide	Kinel
<b>8.2</b>	<b>Materiali termoindurenti - truciolo corto Rm &lt; 110 N/mm<sup>2</sup></b> <i>Thermosetting plastics, short chipping - Matériaux thermodurcissables, coupeaux courts</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	PF	Phenol formaldehyde	Pertinax
	MF	Melamine formaldehyde	Albanit, Resopal
	UF	Urea formaldehyde	Bakelite
<b>8.3</b>	<b>Materie plastice con fibre di rinforzo Rm 800 ÷ 1500 N/mm<sup>2</sup>, 240 ÷ 440 HB</b> <i>Reinforced plastic materials - Plastiques avec fibres de renfort</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
	AFK	Aramid	Kevlar
	BFK	Boron	Boro
	CFK	Carbon fibre	Resine + Fibra di carbonio
	GFK	Glass fibre	Resine + fibre di vetro
	SFK	Synthetic fibre	Resine + fibre sintetiche



<b>9</b>	<b>Materiali Speciali - Special Materials - Matériaux spéciaux</b>		
<b>9.1</b>	<b>Materiali metallo – ceramici (Cermets) Rm &lt; 1700 N/mm<sup>2</sup>, &lt; 51 HRC</b>		
	<i>TIC - Hard materials - Matériaux métalliques, céramiques (Cermet)</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
			Ferritan
			Ferro Titanit
			Ferrotic
<b>9.2</b>	<b>Leghe a base Cobalto Rm &lt; 1200 N/mm<sup>2</sup>, &lt; 350 HB</b>		
	<i>Alloys on cobalt base - Alliages à base de cobalt</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
			AiResist
			Biodur
			Celsit
			Haynes Alloy
			Stellite
<b>9.3</b>	<b>Leghe di tungsteno Rm &lt; 1800 N/mm<sup>2</sup>, &lt; 52 HRC</b>		
	<i>Tungsten alloys - Alliages de tungstène</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
			Anviloy
			Denal
			Densimet
			Mallory
<b>10</b>	<b>Grafite - Graphite</b>		
<b>10.1</b>	<b>Grafite Rm &lt; 100 N/mm<sup>2</sup></b>		
	<i>Graphite</i>		
	<b>W-Nr.</b>	<b>DIN - Germany</b>	<b>Denom. comm./Trade name/Nom comm.</b>
			Graphit R8340
			Technograph 15
			Technograph 30
			R8510
			R8650
			Union Poco EDM1
			Union Poco EDM3

# CONDIZIONI GENERALI DI VENDITA

SALES GENERAL CONDITIONS

CONDITIONS GÉNÉRALES DE VENTE

## Accettazione dell'ordine - Acceptance of the order - Prise en compte de la commande

Sono considerati ordini validi solo quelli scritti. In caso di ordine telefonico dovrà seguire pertanto la conferma scritta.

*Only written orders are considered as valid. Telephone orders must be confirmed in writing.*

*Sont considérés comme ordres valides, les commandes suivies d'une confirmation écrite.*

*Idem pour les commandes Commande téléphoniques.*

## Consegna - Delivery - Livraison

Gli ordini verranno evasi dal nostro magazzino in Sparone (TO) in base alla disponibilità dello stesso. I termini di consegna da noi indicati nelle offerte si intendono validi, salvo imprevisti.

*The orders will be sent from our store in Sparone (TO) depending on the availability of the goods.*

*Our delivery terms shown in the offers are intended as valid, circumstances permitting.*

*Les commandes seront expédiées depuis notre entrepôt de Sparone (TO), sous réserve de disponibilité des produits.*

*Les délais de livraison indiqués dans nos offres sont exacts, sauf « circonstances imprévues ».*

## Spedizione - Shipment - Expédition

La merce viaggia sempre a rischio e pericolo del committente, anche in caso di merce franco destino. Saranno utilizzati i corrieri celeri, giornalieri, ad esclusione del servizio postale, se non richiesto espressamente dal cliente. In tal caso il rischio di mancato recapito, o di mancata rintracciabilità della merce sarà di esclusiva competenza del cliente. I prodotti sono confezionati in contenitori in P.P. singoli o multipli, atti a preservare l'integrità degli utensili durante il trasporto.

*The goods always travels at the buyer's risk, also in the case of goods free at destination. Fast couriers are used which deliver on the same day as ordered, not using the postal service, unless expressly requested by the customer. If the goods do not arrive, or if the goods cannot be traced, it will be the exclusive responsibility of the customer and the goods are shipped after payment. The products are packaged in single or multiple P.P containers, to preserve the integrity of the tools during transport.*

*Les marchandises voyagent toujours aux risques et périls du client, même en cas de marchandise franco de port. Nous utilisons les transports rapides, tous les jours, à l'exclusion de la poste, sauf demande du client. Dans ce cas, le risque de défaut de livraison ou non-traçabilité des marchandises sont sous la seule responsabilité du client. Les produits sont conditionnés dans un emballage en P.P. simples ou multiples, afin de préserver l'intégrité des outils pendant le transport.*

\*\*\*

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<b>QUESTIONARIO TECNICO</b> <b>Maschiatura ad asportazione e rullatura</b>		Compilatore:	Data:
		Prot:	
<input type="checkbox"/> Campionatura / Quantità: _____		<input type="checkbox"/> Ordine / Quantità: _____	<input type="checkbox"/> Reclamo
Cliente:		Tel:	Fax:
Persona di rif:		e-mail:	
<b>1. Filettatura</b> Ø x Passo			
Toll.	Norma:		
Descrizione			
<b>2. Particolare da lavorare:</b>		Materiale:	Sigla:
		resistenza N/mm <sup>2</sup>	Durezza: <input type="checkbox"/> HB <input type="checkbox"/> HRC
Truciolo: <input type="checkbox"/> corto <input type="checkbox"/> medio <input type="checkbox"/> lungo		Caratteristiche particolari del materiale:	
Ø preforo ottenuto per... <input type="checkbox"/> Foratura <input type="checkbox"/> Prefuso <input type="checkbox"/> Prestampato <input type="checkbox"/> Tornitura	<b>Foro passante</b>  ....x D	<b>Foro cieco</b>  ....x D	<b>Foro cieco/passante</b>  ....x D
Alesatura: SI NO			
<b>3. Macchina marca e tipo:</b>		<input type="checkbox"/> Verticale	<input type="checkbox"/> Obliqua
		<input type="checkbox"/> Orizzontale	<input type="checkbox"/> Altro
<b>Avanzamento</b>	<input type="checkbox"/> Patrona <input type="checkbox"/> Manuale	Vc (m/min)	Andata Ritorno
	<input type="checkbox"/> Idraulico <input type="checkbox"/> Meccanico	<b>Parametri di taglio</b>	
<input type="checkbox"/> CNC	Andata Ritorno		N°giri (1/min)
%Prog. avanzamento assiale			
<b>3.1. Mandrino (marca):</b>	N° mandrini	<input type="checkbox"/> Adduzione interna	
		-----	
<b>Maschiatura rigida:</b>		<b>Maschiatura compensata:</b>	
<input type="checkbox"/> In pinza	<input type="checkbox"/> Calettamento	<input type="checkbox"/> Compensazione assiale in rientro e sfilamento <input type="checkbox"/> Solo sfilamento	
<input type="checkbox"/> Micro - compensazione	<input type="checkbox"/> Weldon	<input type="checkbox"/> Altro:	
<input type="checkbox"/> Altro:			
<b>4. Lubrificante:</b>	<input type="checkbox"/> Emulsione	<input type="checkbox"/> Olio intero	<input type="checkbox"/> Lubrificazione
% _____		<input type="checkbox"/> Aria	
		Minimale (MMS)	
<b>5. Problematica:</b>	<b>6. Dati concorrenza:</b>		
	Rivestimento:	Resa:	

# TECHNICAL FORM

## Thread cutting and thread forming

Writer:

Date:

N° Prot:

Sampling / Quantity: \_\_\_\_\_

Order / Quantity: \_\_\_\_\_

Complaint

Customer:

Phone:

Fax:

Reference person:

e-mail:

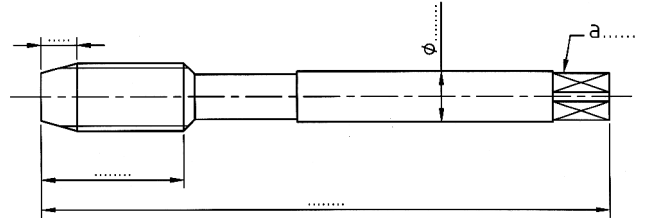
### 1. Thread size

Ø x Pitch

Tolerance

Norm:

Description tap



### 2. Work-Piece:

Material:

Code:

Tensile strength N/mm<sup>2</sup>

Hardness:  HB  
 HRC

Particular characteristic of material:

Chip type:  short  medium  long

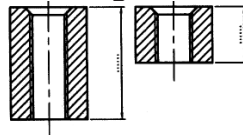


Ø Core hole

Obtained from...

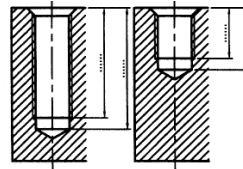
- Drilling  Prefuse  
 Molding  Turning

#### Through hole



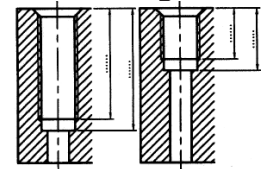
...x D

#### Blind hole



...x D

#### Blind/through hole



...x D

Boring:

YES

NOT

### 3. Machine brand and type:

Vertical

Obliquely

Horizontal

Other

Feed

Leadscrew  Manual

Hydraulic  Mechanic

CNC

Advance

Reverse

%Prog. axial feed

Cutting speed

Vc (m/min)

Advance

Reverse

N°giri (1/min)

#### 3.1. Tool holder (Manufacturer):

N° spindle

Internal coolant supply

-----

#### Rigid tapping:

Collets

Fitting

Micro - compensation

Weldon

Other:

#### Tapping with compensation:

With axial compensation in compression and extension

Extension only

Other:

### 4. Coolant (brand):

Emulsion

Cutting oil

Minimal lubrication

To dry

% \_\_\_\_\_

(MMS)

### 5. Problems:

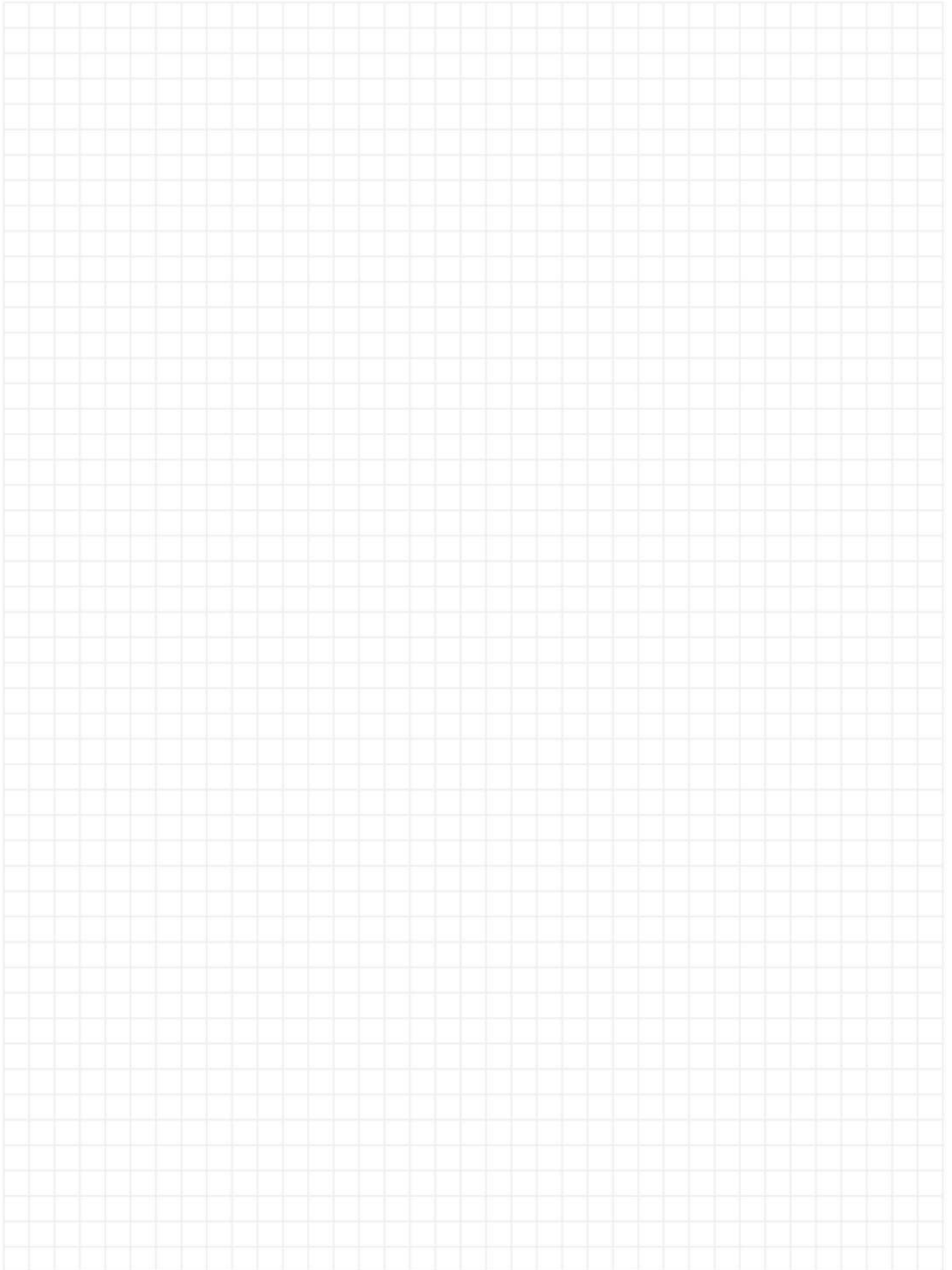
### 6. Competitor's characteristics:

Surface treatment:

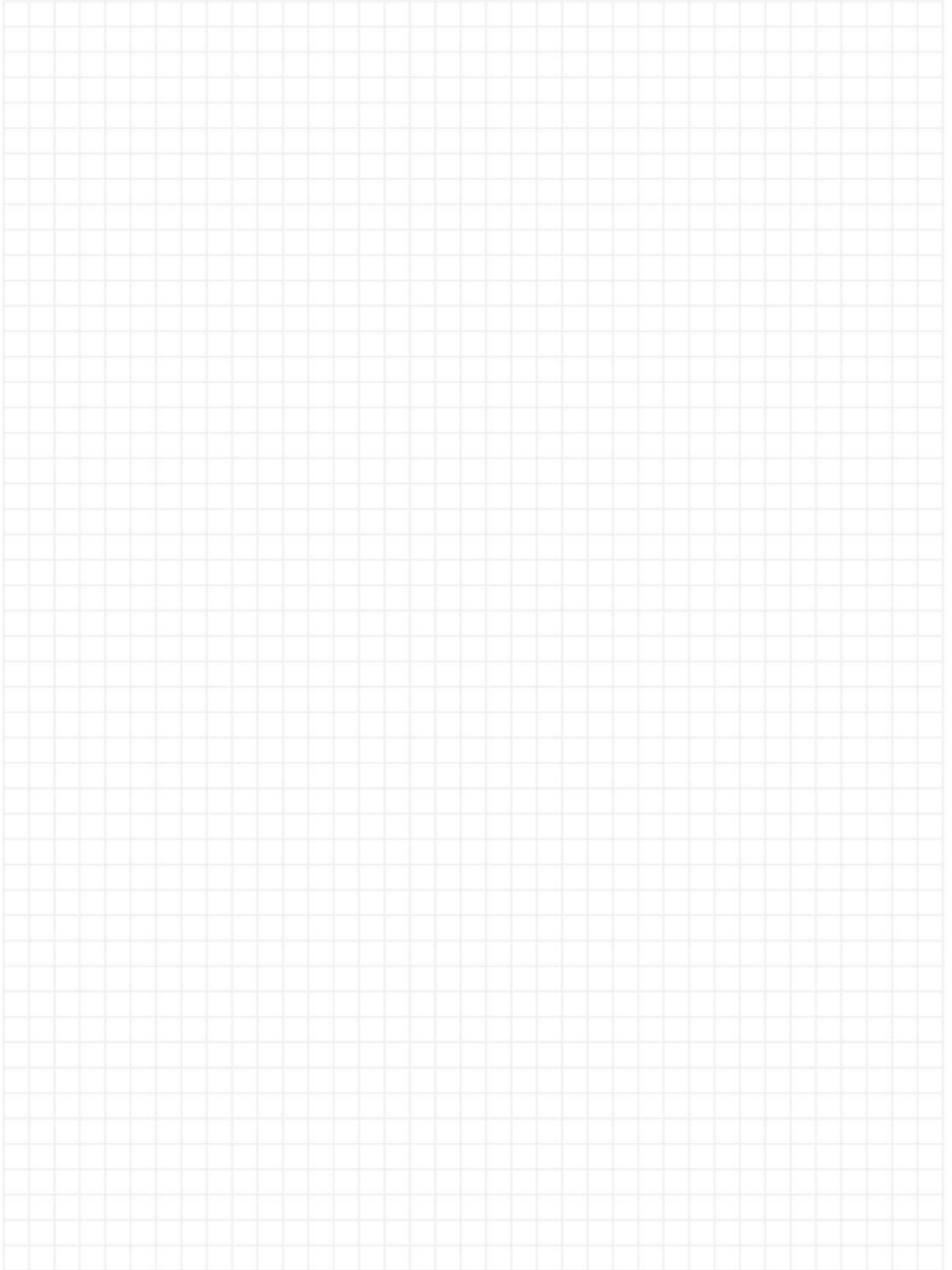
Tool's life:

<b>QUESTIONNAIRE TECHNIQUE</b> <b>Taraudage normal ou par déformation</b>		Compilateur :	Date:
		Protocole:	
<input type="checkbox"/> Échantillonnage/quantité: _____		<input type="checkbox"/> Commande/ Quantité: _____	<input type="checkbox"/> Reclamation
Client: référence client:		Tel:	Fax:
e-mail:			
<b>1. Filetage</b> Ø x Pass			
Tolérance	Norme:		
Description			
<b>2. Pièce à usiner:</b>		Matériau:	Norme:
		Résistance N/mm <sup>2</sup>	Dureté: <input type="checkbox"/> HB <input type="checkbox"/> HRC
Copeau: <input type="checkbox"/> court <input type="checkbox"/> moyen <input type="checkbox"/> long		Particularités de la matière:	
Ø preforo obtenue par... <input type="checkbox"/> Perçage <input type="checkbox"/> Fusion <input type="checkbox"/> Moulage <input type="checkbox"/> Tournage	<b>Trou débouchant</b> 	<b>Trou borgne</b> 	<b>Trou borgne/débouchant</b> 
Alésage: OUI NON	...x D	...x D	...x D
<b>3. Machine marque et type:</b>		<input type="checkbox"/> Vertical	<input type="checkbox"/> Oblique
		<input type="checkbox"/> Horizontal	<input type="checkbox"/> Autres
<b>Avance</b>	<input type="checkbox"/> Patronne <input type="checkbox"/> Manuelle	Vc (m/min)	Aller Retour
	<input type="checkbox"/> Hydraulique <input type="checkbox"/> Mécanique	<b>Paramètres de coupe</b> N ° tours (1/min)	
<input type="checkbox"/> CNC	Aller Retour		
% Prog. avance axiale			
<b>3.1. Broche (marque):</b>		Type de Mandrin	<input type="checkbox"/> lubrification axiale
		-----	
<b>Taraudage rigide :</b>		<b>Taraudage compensé :</b>	
<input type="checkbox"/> Par pinces	<input type="checkbox"/> Bridage -Fixation	<input type="checkbox"/> Compensation axiale en compression et en extension	
<input type="checkbox"/> Micro-compensation	<input type="checkbox"/> Weldon	<input type="checkbox"/> Seulement en extension	
<input type="checkbox"/> Autres:			<input type="checkbox"/> Autres:
<b>4. Lubrifiant:</b>		<input type="checkbox"/> Émulsion	<input type="checkbox"/> Huile Entiere
		% _____	<input type="checkbox"/> Lubrification <input type="checkbox"/> Air
		Minimale (MMS)	
<b>5. Problématique :</b>		<b>6. Données de la concurrence:</b>	
.....		.....	
.....		.....	
.....		Revêtement :	Resa:
.....		.....	

## Note



# Note







UFS S.r.l. - Sparone (TO) - Italy