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APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm²

Universal Applications R ≤ 1200 N/mm² - Applications universelles R ≤ 1200 N/mm²



Filettature – Thread – Filetage

M	pag	6 - 7
MF	pag	8 - 9
UNC	pag	10 - 11
UNF	pag	12 - 13
GAS	pag	14 - 15

Materiale – Material – Matériau

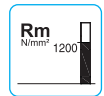
PM3 Acciaio sinterizzato ad alta % di Co & V – Powdered metallurgy with high % Co and V – Acier fritté avec haute % Co & V

Rivestimento – Coating – Revêtement

XP Resistenza all'usura, all'ossidazione e migliora lo scorrimento del truciolo – Oxidation and wear resistance, better chip evacuation – Résistance à l'usure, l'oxydation et facilite le glissement des copeaux

Campo applicativo – Application field – Champs d'applications

1.1 1.2 1.3 1.4 1.5	Acciaio – Steel – Acier
2.1 2.2 2.3	Acciaio inossidabile – Stainless Steel – Acier inoxydable
4.2 4.3	Leghe alluminio Si ≤ 10% – Aluminium alloys Si ≤ 10% – Alliages aluminium Si ≤ 10%
5.2	Leghe di rame a truciolo lungo – Copper alloys long chipping – Alliages de cuivre copeaux longs



Per fori passanti – For through holes – Pour trous débouchants

K24 K25 Imbocco corretto – Spiral pointed – Goujures Droites avec entrée Gun

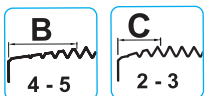
Per fori ciechi – For blind holes – Trous borgnes

K82 K83 Elica 45° dx – Spiral flutes 15° rh – Hélice 15° dx

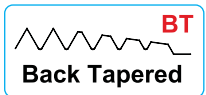
Legenda icone – Icon description – Légende icônes



Filettatura destra – Right thread – Filetage à droite



Tipi di imbocco – Chamfer type – Nombre de filets d'entrée



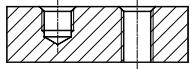
Rastremazione posteriore a botte del filetto – Back tapered thread – Détalonnage arrière



Synchro Rigid, maschiatura rigida sincronizzata – Rigid tapping Synchro – Synchro Rigid, taraudage rigide et synchronisée

TABELLA D'IMPIEGO

APPLICATION TABLE TABLE D'OPÉRATION



Applicazione per foro cieco e passante
Blind and through hole application
Application pour trou borgne et débouchant



Applicazione per foro passante
Through hole application
Application pour trou débouchant



Applicazione per foro cieco
Blind hole application
Application pour trou borgne



- LH** Filettatura sinistra
Left hand thread - Filetage à gauche
- M58** Applicazione specifica per ottone Ms58
Specific application for brass Ms58 - Spécifique pour laiton Ms58
- AZ** Alternatura del filetto
Interrupted threads - Taraud avec filets alternés
- SR** Synchro Rigid, maschiatura rigida sincronizzata
Rigid tapping Synchro - Synchro Rigide, taraudage rigide synchronisée
- XL** Maschi con gambo lungo
Taps with long shank - Tarauds série longue
- BT** Back Tapered, rastremazione posteriore a botte del filetto
Back tapered thread - Détalonnage arrière
- IT** Inox Tapered, rastremazione posteriore orizzontale del filetto
*Horizontal back tapered for inox application
INOX Tapered, détalonné conique horizontale pour application Inox*
- con1:16** Maschi con filettatura conica
Taps with tapered thread - Tarauds à filetage conique
- Al** Applicazione specifica per alluminio e leghe d'alluminio
*Specific application for aluminium and aluminium alloys
Application spécifique pour l'aluminium et alliages d'aluminium*
- Cu** Applicazione specifica per rame e leghe rame
Specific application for cooper and cooper alloys - Application spécifique pour le cuivre et ses alliages
- Ti** Applicazione specifica per titanio e leghe di titanio
Specific application for titanium and titanium alloys - Application spécifique pour titane et alliages de titane
- Ni** Applicazione specifica per nichel e leghe di nichel
Specific application for nickel and nickel alloys - Application spécifique pour le nickel et ses alliages

Indicazione numero di pagina
Page number
Numéro de page

- Utilizzo raccomandato - velocità di taglio m/min
- Utilizzo accettabile - velocità di taglio m/min
- Recommended Use - cutting speed m/min
- Acceptable Use - cutting speed m/min
- Utilisation-Recommandée - vitesse de coupe m/min
- Utilisation acceptable - vitesse de coupe m/min

Descrizione Description - Description		
Tipi di foro Hole Types - Type de trous		
CODICE - CODE - CODE		
Linea - Product line - Ligne		
Elica / NOTE Flute Type / Notes - Hélice / Notes		
M MJ	ISO2/6H	
	ISO1/4H	
MF MJF	ISO3/6G	
	7G	6H+0,1
UNC	2B	3BX
	UNF	2B
UNEF	2B	
	UNS	
8-12-16 UN		2B
20-28-32 UN		2B
G, (Rp)		
NPSM		
NPSF		
Rc		
NPT		
NPTF		
BSW		
PG, Tr, Rd		
EG-M		
Imbocco / Chamfer / Entrée		
Materiale / Steel tap / Matériel		
Rivestimenti / Coating / Revêtements		
Classe appl. / Appl. Class. / Classe d'appl.		
Prof. filett. / Thread depth / Profondeur fil		

				HB < 120	Rm N/mm² < 400
1. Acciaio Steel Acier	1.1 Acciaio dolce magnetico	Magnetic soft steel	Acier doux magnétique		
	1.2 Acciaio da costruzione, cementazione, automatico	Structural, case carburizing and free cutting steel	Acier de construction, trempé et automatique	< 200	< 700
	1.3 Acciaio al carbonio	Plain carbon steel	Acier au carbone	< 250	< 850
	1.4 Acciaio legato - Bonificato, fusioni d'acciaio	Alloyed steel - Tempered steel, steel castings	Acier allié, trempé et revenu, moulages d'acier	< 250	< 850
	1.5 Acciaio legato - Bonificato	Alloyed steel - Tempered steel	Acier allié, trempé et revenu	250÷350	850÷1200
	1.6 Acciaio legato - Alta resistenza	Alloyed steel - High strength steel	Acier allié, haute résistance	38÷45 HRC	1200÷1400
	1.7 Acciaio legato - Alta resistenza	Alloyed steel - High strength steel	Acier allié, haute résistance	45÷49 HRC	1400÷1600
	1.8 Acciaio legato - Temprato	Hardened steel	Acier trempé	49÷62 HRC	
2. Acciaio INOX Stainless Steel Acier inoxydable	2.1 Acciaio inox automatico	Free machining stainless steel	Acier inoxydable, automatique	< 250	< 850
	2.2 Austenitico	Austenitic	Austénitique	< 250	< 850
	2.3 Ferritico, Ferritico + Austenitico, Martensitico	Ferritic, Ferritic + Austenitic, Martensitic	Ferritique, austénitique + ferritiques, martensitiques	< 320	< 1100
	2.4 Leghe Cr-Ni resistenti alle alte temperature	Cr-Ni alloys high temperatures resistant	Alliage Cr-Ni résistant à des températures élevées	330÷410	1100÷1400
3. Ghisa Cast iron Fonte	3.1 Ghisa grigia lamellare	Lamellar grey cast iron	Fonte grise lamellaire	< 180	< 600
	3.2 Ghisa grigia lamellare	Lamellar grey cast iron	Fonte grise lamellaire	180÷300	600÷1000
	3.3 Ghisa sferoidale	Nodular cast iron	Fonte ductile	< 300	< 1000
	3.4 Ghisa malleabile	Malleable cast iron	Fonte malleable	< 210	< 700
	3.5 Ghisa vermicolare a grafite compatta	Compacted cast iron with vermicular graphite	Fonte vermiculaire à graphite compacté	200÷300	700÷1000
4. Alluminio, Magnesio Al, Mg	4.1 Alluminio / Magnesio non legato	Aluminium / Magnesium unalloyed	Aluminium / Magnésium non allié	< 100	< 350
	4.2 Leghe di Al, Si < 0,5% - Truciolo lungo	Al alloys, Si < 0.5% - Long chipping	Alliage Al, Si < 0.5% copeaux longs	< 150	< 500
	4.3 Leghe di Al, Si < 10% - Truciolo medio	Al alloys, Si < 10% - Medium chipping	Alliage Al, Si < 10% copeaux moyens	< 150	< 500
	4.4 Leghe Al, Si > 10% - Truciolo corto	Al alloys, Si > 10% - Short chipping	Alliage Al, Si > 10% copeaux courts	< 180	< 600
	4.5 Leghe standard di magnesio	Magnesium standard alloys	Alliages de magnésium standards		120÷300
5. Rame Cooper Cuivre	4.6 Leghe di magnesio ad alta resistenza	High strength magnesium alloys	Alliages de magnésium de haute résistance	70÷120	240÷400
	5.1 Rame puro, Rame elettrolitico - Truciolo lungo	Cooper unalloyed - Long chipping	Cuivre pur, cuivre électrolytique, copeaux longs	< 100	< 350
	5.2 Leghe di rame, α-ottone - Truciolo lungo	Cooper alloys, soft brass - Long chipping	Alliages de cuivre, α-laiton copeaux longs	< 200	< 700
	5.3 Leghe di rame, β-ottone, Bronzo - Truciolo corto	Cooper alloys, hard brass, bronze - Short chipping	Alliages de cuivre, β-laiton, bronze copeaux courts	< 200	< 700
6. Titanio Titanium Titane	5.4 Bronzo ad alta resistenza	High strength bronze	Bronze haute résistance	< 440	< 1500
	6.1 Titanio non legato	Titanium unalloyed	Titane non allié	< 200	< 700
	6.2 Leghe di titanio	Titanium alloys	Alliages de titane	< 270	< 900
7. Nichel Nickel	6.3 Leghe di titanio	Titanium alloys	Alliages de titane	< 410	< 1400
	7.1 Nichel non legato	Nickel unalloyed	Nickel non allié	< 150	< 500
	7.2 Leghe di Nichel	Nickel alloys	Alliages de nickel	< 270	< 900
8. Materie plastiche Synthetic Material Matériaux Plastiques	7.3 Leghe di Nichel	Nickel alloys	Alliages de nickel	< 470	< 1600
	8.1 Materiali termoplastici - Truciolo extralungo	Thermoplastics - Extra long chipping	Matériaux thermoplastique copeaux extra-longues		< 80
	8.2 Materiali termoindurenti - Truciolo corto	Thermosetting plastics - Short chipping	Matériaux thermodurcissables copeaux courts		< 110
9. Materiali speciali Special materials Matériaux spéciaux	8.3 Materie plastiche con fibre di rinforzo	Reinforced plastic materials	Plastiques avec fibres de renfort	240÷440	800÷1500
	9.1 Materiali metallo - Ceramic (Cermets)	TIC - Hard materials	Matériaux métalliques, céramiques (Cermet)	< 51 HRC	< 1700
	9.2 Leghe a base cobalto	Alloys on cobalt base	Alliages à base de cobalt	< 350	< 1200
10. Grafite / Graphite	9.3 Leghe di tungsteno	Tungsten alloys	Alliages de tungstène	< 52 HRC	< 1800
	10.1 Grafite	Graphite	Graphite		< 100

Série K24/K25

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



Anello colorato

Colored ring - Bague de couleur

Identifica in maniera molto pratica il campo di applicazione del maschio.

The colored ring allows to identify the practical destination of the tap.

Sert à identifier de façon rapide le champ d'application du taraud.

Materiale

Material - Matériel

PM3 Acciaio super rapido sinterizzato ad alto contenuto di vanadio e cobalto

PM3 Powdered metallurgy high speed steel with high contents of vanadium and cobalt.

Acier super rapide fritté PM3 à haute teneur en vanadium et cobalt.

Rivestimento

Coating - Revêtement

XP Doppio rivestimento, conferisce resistenza all'usura e favorisce lo scorrimento del truciolo.

XP Double coating with good properties of wear resistance and chip evacuation.

Double revêtement XP qui garantit la résistance à l'usure et facilite le glissement des copeaux.

Geometria di taglio

Cutting geometry

Géométrie de coupe

Imbocco corretto per fori passanti fino a 3xD

Spiral pointed for through holes thread depth 3xD.

Entrée Gun pour trous débouchants jusqu'à 3xD.

A richiesta – On request - Sur demande

FORY

Lubrificazione interna con uscita radiale.

Through coolant, radial flow.

Lubrification interne à sortie radiale.



U APPLICAZIONI UNIVERSALI $R \leq 1200 \text{ N/mm}^2$
 Universal $R \leq 1200 \text{ N/mm}^2$ - Universal $R \leq 1200 \text{ N/mm}^2$



Anello colorato

Colored ring - Bague de couleur

Identifica in maniera molto pratica il campo di applicazione del maschio.

The colored ring allows to identify the practical destination of the tap.

Sert à identifier de façon rapide le champ d'application du taraud.

Materiale

Material - Matériel

PM3 Acciaio super rapido sinterizzato ad alto contenuto di vanadio e cobalto

PM3 Powdered metallurgy high speed steel with high contents of vanadium and cobalt.

Acier super rapide fritté PM3 à haute teneur en vanadium et cobalt.

Elica

Flutes - Hélice

Scanalature elicoidali a 45° per facilitare l'evacuazione del truciolo su fori ciechi profondi fino a 3xD.

Spiral flutes 45° for a better evacuation of the chip. For blind holes up to 3xD.

Goujures hélicoïdales à 45° pour faciliter l'évacuation des copeaux dans des trous borgnes profonds allant jusqu'à 3xD.

Rastremazione posteriore

Back tapered - Conicité arrière

Facilita l'evacuazione del truciolo, riduce il rischio di scheggiatura sugli ultimi filetti del maschio, in particolare nella fase di inversione.

It improves the chip evacuation, reduces the risk of damage on the last threads, especially in the phase of inversion of the tap.

Elle facilite l'évacuation des copeaux et réduit le risque de détérioration des derniers filets du taraud, notamment lors de l'inversion.

Rivestimento

Coating - Revêtement

XP Doppio rivestimento, conferisce resistenza all'usura e favorisce lo scorrimento del truciolo.

XP Double coating with good properties of wear resistance and chip evacuation.

Double revêtement XP qui garantit la résistance à l'usure et facilite le glissement des copeaux.

A richiesta – On request - Sur

FOR

Lubrificazione interna con uscita assiale.

Through coolant, axial flow.

Lubrification interne à sortie axiale.



FORY

Lubrificazione interna con uscita radiale.

Through coolant, radial flow.

Lubrification interne à sortie radiale.



MASCHI A MACCHINA

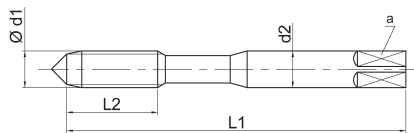
MACHINE TAPS - TARAUDS MACHINE

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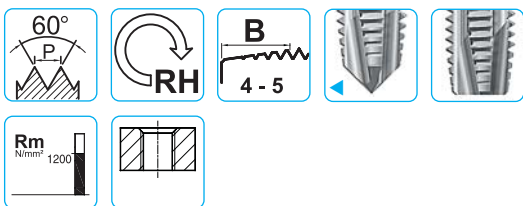
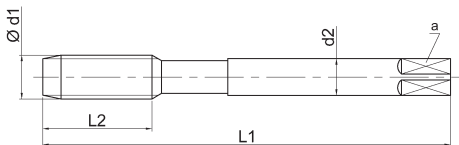
APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm²

Universal R ≤ 1200 N/mm² - Universal R ≤ 1200 N/mm²

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

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

3xD	3,5xD
PM3	PM3
6HX	6HX
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 M	P mm	L ₁	L ₂	d ₂ 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	

CODE - CODE	
K24M...XP	K24M...FORY-XP
•	-
•	-
•	-
•	○
•	○
•	○

DIN 376	Ød1 M	P mm	L ₁	L ₂	d ₂ 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	

CODE - CODE	
K25M...XP	K25M...FORY-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

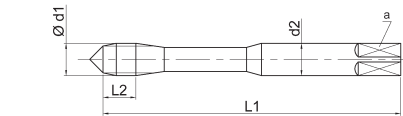
★ Solo a richiesta
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U **APPLICAZIONI UNIVERSALI $R \leq 1200 \text{ N/mm}^2$**
 Universal $R \leq 1200 \text{ N/mm}^2$ - Universal $R \leq 1200 \text{ N/mm}^2$

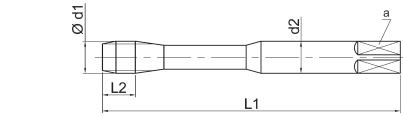
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

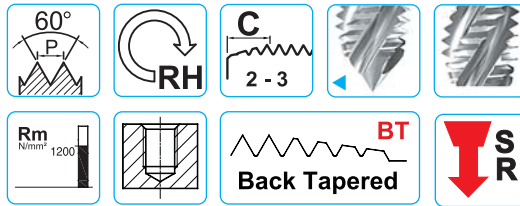
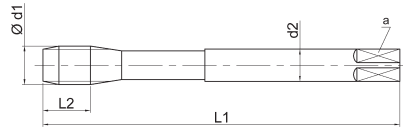
DIN 371



DIN 371



DIN 376



top



BT
R45°

top



BT
R45°

top



BT
R45°

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

3xD	3,5xD	3,5xD
PM3	PM3	PM3
6HX	6HX	6HX
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

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

DIN 371	Ød1 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	

CODE - CODE		
K82M...XP	K82M...FOR-XP	K82M...FORY-XP
●	-	-
●	-	-
●	-	-
●	○	○
●	○	○
●	○	○

DIN 376	Ød1 M	P mm	L ₁	L ₂	d ₂ 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	

CODE - CODE		
K83M...XP	K83M...FOR-XP	K83M...FORY-XP
●	○	○
●	○	○
●	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○

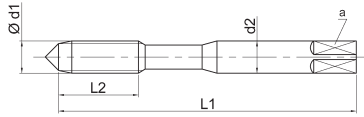
RACCOMANDATO per filettatura rigida
 We recommend Syncro rigid threading
 Recommandé pour le taraudage rigide

Confezione / Box / Colis: M3 - M10: 10 pezzi / pcs M12 - M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	35	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	

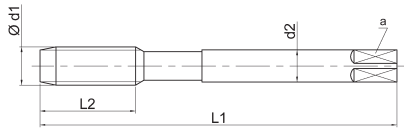
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



TOP



TOP



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

Materiale - Material - Matériau

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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 UNC	P TPI	Ø mm	L ₁	L ₂	d ₂ h ₉	a h ₁₂	Z	
4	40	2,845	56	10	3,5	2,7	3	2,35	
5	40	3,175	56	10	3,5	2,7	3	2,65	
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	

CODE - CODE	
K24UNC...XP	K24UNC...FORY-XP
○	-
○	-
○	-
○	-
○	-
○	○
○	○
○	○
○	○
○	○

DIN 376	Ød1 UNC	P TPI	Ø mm	L ₁	L ₂	d ₂ h ₉	a h ₁₂	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	

CODE - CODE	
K25UNC...XP	K25UNC...FORY-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

75

75

● Standard

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

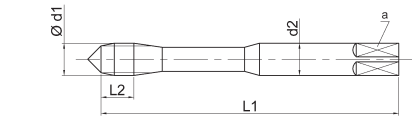
★ Solo a richiesta
Only on request / Sur demande

U APPLICAZIONI UNIVERSALI $R \leq 1200 \text{ N/mm}^2$
 Universal $R \leq 1200 \text{ N/mm}^2$ - Universal $R \leq 1200 \text{ N/mm}^2$

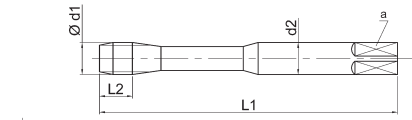
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

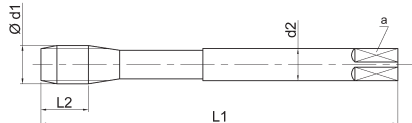
DIN 371



DIN 371



DIN 376



60°
P

RH

C
2-3

Rm
N/mm²
1200

BT
Back Tapered

SR

TOP



BT

R45°

TOP



BT

R45°

TOP



BT

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	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

DIN 371	Ød1 UNC	P TPI	Ø 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	

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

DIN 376	Ød1 UNC	P TPI	Ø 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	

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

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

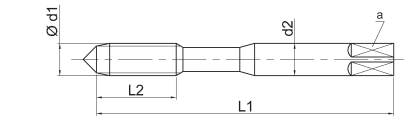


Confezione / Box / Colis: 6 - 7/16: 10 pezzi / pcs 1/2 - 9/16: 5 pezzi / pcs >9/16: singoli / single pcs	€ Pag. listino - Price list - Liste des prix	79	79	79
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	○	○	○ Solo a richiesta Only on request / Sur demande

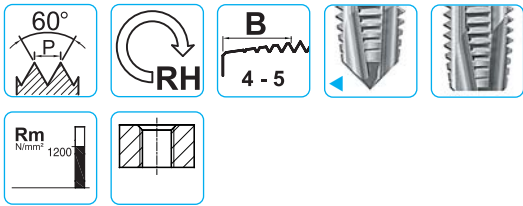
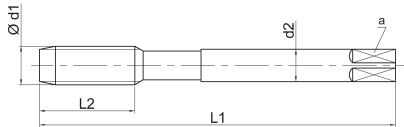
MASCHI A MACCHINA

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

TOP



TOP



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	$\varnothing d1$ UNF	P TPI	\varnothing mm	L_1	L_2	d_2 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

CODE - CODE	
K24UNF...XP	K24UNF...FORX-XP
○	-
○	-
○	-
○	-
○	○

DIN 374	$\varnothing d1$ UNF	P TPI	\varnothing mm	L_1	L_2	d_2 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

CODE - CODE	
K25UNF...XP	K25UNF...FORX-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

84

84

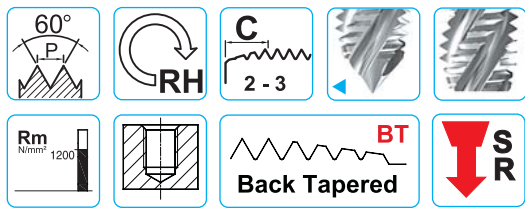
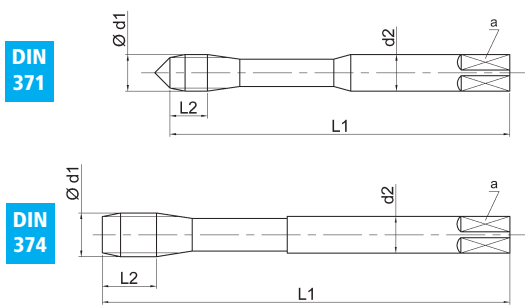
• Standard

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

★ Solo a richiesta
 Only on request / Sur demande

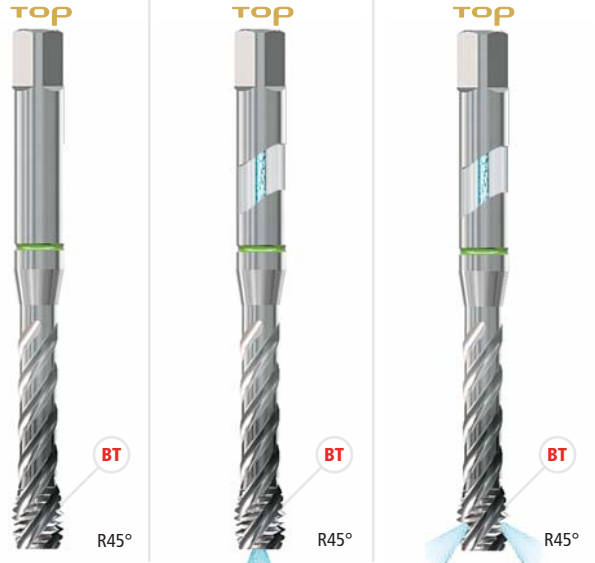
U APPLICAZIONI UNIVERSALI $R \leq 1200 \text{ N/mm}^2$
Universal $R \leq 1200 \text{ N/mm}^2$ - Universal $R \leq 1200 \text{ N/mm}^2$

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	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

DIN 371	Ød1 UNF	P TPI	Ø mm	L ₁	L ₂	d ₂ 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

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

DIN 374	Ød1 UNF	P TPI	Ø mm	L ₁	L ₂	d ₂ 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

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

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

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	87	87	87
● 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

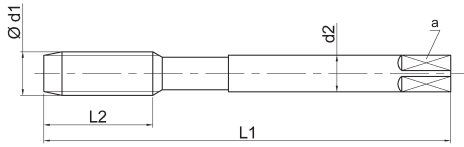
MACHINE TAPS - TARAUDS MACHINE

U

APPLICAZIONI UNIVERSALI R ≤ 1200 N/mm²

Universal R ≤ 1200 N/mm² - Universal R ≤ 1200 N/mm²

DIN 5156



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

PM3

PM3

ISO 228X

ISO 228X

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 5156	Ød1 GAS	P TPI	Ø mm	L ₁	L ₂	d ₂ 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	4	11,8
	3/8	19	16,66	100	22	12	9	4	15,25
	1/2	14	20,96	125	25	16	12	4	19
	3/4	14	26,44	140	25	20	16	4	24,5

K25G...XP

CODE - CODE
K25G...FORY-XP

○

○

○

○

○

○

○

○

○

○

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

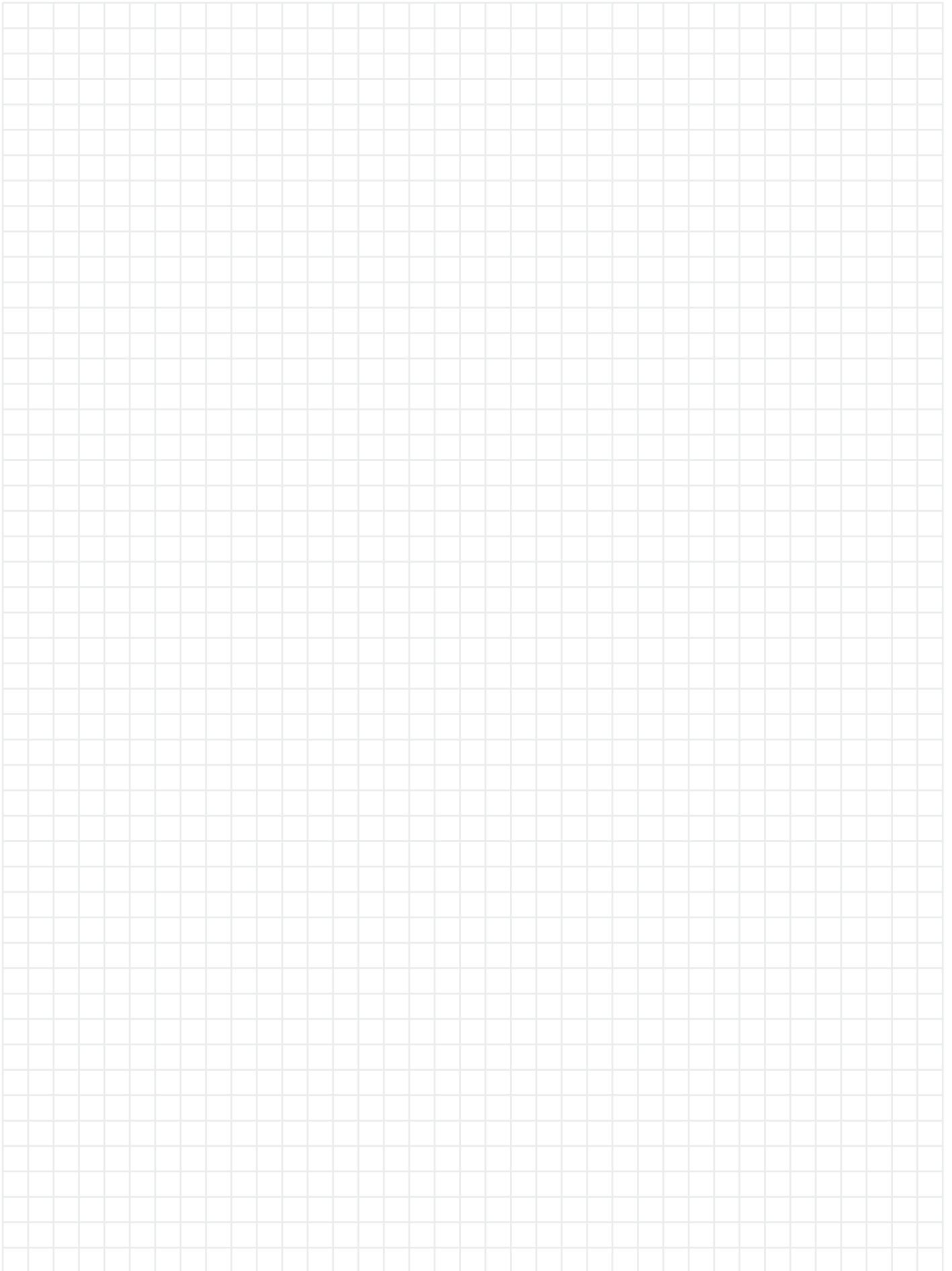
94

● Standard

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

★ Solo a richiesta
Only on request / Sur demande

Note



1	Acciaio - Steel - Acier		
1.1	Acciaio dolce magnetico Rm < 400 N/mm², < 120 HB		
	<i>Magnetic soft steel - Acier doux magnétique</i>		
	W-Nr.	DIN - Germany	UNI - Italy
	1.1013	RFe100	-
	1.1014	Rfe80	-
	1.1015	Rfe60	-
1.2	Acciaio da costruzione, da cementazione, automatico Rm < 700 N/mm², < 200 HB		
	<i>Structural steel, case carburizing steel, free cutting steel - Acier de construction, en acier trempé</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Acciaio da costruzione <i>Structural steel</i> <i>Acier de construction</i>	1.0037	St37-2	Fe360B
	1.0044	St44-2	Fe430B
	1.0050	St50-2	Fe490
	1.0060	St60-2	Fe590
	1.0070	St70-2	Fe690
	1.0570	St52-3	Fe510B, C, D
Acciaio da cementazione Case carburizing steel <i>Acier trempé</i>	1.0301	C10	C10
	1.0401	C15	C15
	1.0402	C22	C20, C21
	1.0406	C25	C25
	1.7131	16MnCr5	16MnCr5
	1.7147	20MnCr5	20MnCr5
	1.5919	15CrNi6	16CrNi4
	1.6523	21NiCrMo2	20NiCrMo2
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	3S520	CF35SMn10
	1.0736	9SMn36	CF9SMn36
	1.0737	9SMnPb36	CF9SMnPb36
1.3	Acciaio al carbonio Rm < 850 N/mm², < 250 HB		
	<i>Plain carbon steel - Acier au carbone</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Da bonifica <i>Heat-treatable steel</i> <i>De revenu</i>	1.0528	C30	-
	1.0501	C35	C35
	1.0511	C40	C40
	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
Acciaio legato <i>Alloyed steel</i> <i>Acier allié</i>	1.4	Acciaio legato - bonificato, fusioni d'acciaio Rm < 850 N/mm², < 250 HB <i>Alloyed steel, tempered steel, steel castings - Acier allié, trempé et revenu, fusion d'acier</i>	
	1.5	Acciaio legato - bonificato Rm 850 ÷ 1200 N/mm², 250 ÷ 350 HB <i>Alloyed steel, tempered steel - Acier allié, trempé et revenu</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
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	-
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

Continua Acciaio legato / Continue Alloyed steel / Acier allié à suivre ➤

	W-Nr.	DIN - Germany	UNI - Italy
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
	1.2581	X30WCrV9-3	X30WCrV9-3KU
Per lavorazioni a freddo <i>Cold work tool steel</i> <i>Travail à froid</i>	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
	1.2842	90MnCrV8	90MnVCr8KU
Acciaio rapido HSS, HSS-E <i>High speed steel</i> <i>Acier rapide</i>	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)
	1.3348	S 2-9-2	HS 2-9-2 (M7)
Acciaio rapido sinterizzato HSS-PM <i>Sintered high speed steel</i> <i>Acier fritté</i>	-	HS 6-5-3-8	(ASP2030, ASP30)
	-	HS 10-2-5-8	(ASP2052, ASP52)
	-	HS 6-7-6-10	(ASP2060, ASP60)

2

Acciaio INOX - Stainless Steel - Acier inoxydable

2.1

Acciaio INOX automatico Rm < 850 N/mm², < 250 HB

Free machining stainless steel - Automatique acier inoxydable

W-Nr.	DIN - Germany	UNI - Italy
1.4104	X14CrMoS17	X10CrS17 (AISI 430F)
1.4305	X8CrNiS18-9	X10CrNiS18-9 (AISI 303)

2.2

Austenitico Rm < 850 N/mm², < 250 HB

Austenitic stainless steel - Austénitique

W-Nr.	DIN - Germany	UNI - Italy
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)

Continua Acciaio INOX / Continue Stainless Steel / Acier inoxydable à suivre ►

2.3	Ferritico, Ferritico + Austenitico, Martensitico Rm < 1100 N/mm², < 320 HB		
	<i>Ferritic, ferritic + austenitic, martensitic - Ferritique, ferritique + austénitique, martensitique</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Ferritico <i>Ferritic</i> Ferritique	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> Ferritique+austénitique, (biphásique)	1.4462	X2CrNiMoN22-5-3	X2CrNiMoN22-5-3
	1.4501	X2CrNiMoCuWN25-7-4	X2CrNiMoCuWN25-7-4
Martensitico <i>Martensitic</i> Martensitique	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)
3	Ghisa - Cast Iron - Fonte		
3.3	Ghisa sferoidale Rm < 1000 N/mm², < 300 HB		
	<i>Nodular cast iron - Fonte ductile</i>		
	W-Nr.	DIN - Germany	UNI - Italy
	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	Ghisa malleabile Rm < 700 N/mm², < 210 HB	
<i>Malleable cast iron - Fonte malléable</i>			
	W-Nr.	DIN - Germany	UNI - Italy
	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	-

4	Alluminio, Magnesio - Aluminium, Magnesium - Alliage, Magnésium		
4.2	Leghe di Al, Si < 0,5% - truciolo lungo Rm < 500 N/mm², < 150 HB		
	<i>Al alloys, long chipping - Alliage, coupeaux longs</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Si < 0,5% Leghe da deformazione plastica <i>Al wrought alloys</i> <i>Alliages par déformation plastique</i>	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)
	Si < 0,5% Leghe da getti <i>Al casting alloys</i> <i>Tarauds pour alliages coulée</i>	3.4365	AlZnMgCu1.5
3.1371		G-AlCu4TiMg	-
3.3241		G-AlMg3Si	-
3.3261		G-AlMg5Si	-
3.3541		G-AlMg3	-
4.3	Leghe di Al, Si < 10% - truciolo medio Rm < 500 N/mm², < 150 HB		
	<i>Al alloys, medium chipping - Alliage Al - coupeaux moyens</i>		
	W-Nr.	DIN - Germany	UNI - Italy
Si < 10% Leghe da getti <i>Al casting alloys</i> <i>Tarauds pour alliages coulée</i>	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
5	RAME - Cooper - Cuivre		
5.2	Leghe di rame, α ottone - truciolo lungo Rm < 700 N/mm², < 200 HB		
	<i>Cooper alloys, soft brass, long chipping - Alliages de cuivre, αlaiton, coupeaux longs</i>		
	W-Nr.	DIN - Germany	Denom. comm./Trade name/Nom comm.
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	-



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The "TOP" line was created as a specific answer to the market evolution needs, and represents the highest quality expression of the UFS products. Excellent for application on difficult materials and on high automatized productions. See all the technical information and practical use on the specific brochures.

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