



Ti

New MJ - MJF

DIAMETRO ESTERNO ARROTONDATO



WITH ROUNDED CREST
DIAMETRE ESTERIEUR ARRONDI



... follow me!



TITANIO
Titanium - Titane



Ti

TITANIO

Titanium - Titane

Campo di applicazione

Application field - Champ d'application



Materiale

Material - Matériau

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.

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.

Elica

Flutes - Hélice

Elica a 15° destra, geometria di taglio specifica per lavorare Titanio e sue leghe.

Spiral flutes 15°, specific cutting geometry to work Titanium and it's alloys.

Goujures 15° avec géométrie spécifique pour Titane et ses alliages.

Rivestimento

Coating - Revêtement

TiCN resistenza all'usura, indicato per la lavorazione delle leghe di Titanio 6.2 e 6.3.

TiCN wear resistance, suitable for work Titanium alloys 6.2 and 6.3.

TiCN résistance à l'usure, approprié pour l'usinage des alliages de Titane 6.2 et 6.3.

Lunghezza filetto ridotta

Thread length reduced

Longueur de filetage réduit

Comporta una riduzione degli sforzi torsionali dovuta alla riduzione dell'attrito. Facilita l'evacuazione del calore.

Short thread for reduced friction and low torque. Better heat evacuation.

Réduit les efforts de torsion et la friction. Facilite l'évacuation de la chaleur.

K42/K43...V

Elica a 15° destra, trattamento superficiale di vaporizzazione.

Spiral flutes 15°, steam tempering treatment.

Goujures 15°, vaporisation.



K28/K29...AZ-V

Elica a 25° destra, filetto alternato con trattamento superficiale di vaporizzazione.

Spiral flutes 25°, interrupted threads and steam tempering treatment.

Goujures 25°, filets alternés et vaporisation.



Filettature – Thread – Filetage

M MJ	pag	4 - 5
MF MJF	pag	6 - 7
UNC	pag	8 - 9
UNF	pag	10 - 11

Materiale – Material – Matériau

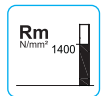
PM3 Acciaio sinterizzato ad alta % di Co & V – Powdered metallurgy with high % Co & V – Acier fritté avec haute % Co et V

Rivestimento – Coating – Revêtement

V	Scorrimento del truciolo – Chip evacuation – Évacuation des copeaux
TiCN	Resistenza all'usura – Wear resistance – Résistance à l'usure

Campo applicativo – Application field – Champs d'applications

6.1 6.2 6.3	Titanio e leghe di titanio – Titanium and titanium alloys – Titane et alliages de Titane
7.2	Leghe di Nichel – Nickel alloys – Alliages de Nickel
2.4	Leghe Cr Ni resistenti alle alte temperature – Cr Ni alloys high temperatures resistant Alliage Cr Ni résistant a des températures élevées



Per fori passanti – For through holes – Pour trous débouchants

K52 K53 Elica 15° sinistra per Ti – Spiral flutes 15° left for Ti – Goujures 15° à gauche pour Ti

Fori ciechi – For Blind holes – Trous borgnes

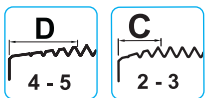
K42 K43 Elica 15° destra per Ti – Spiral flutes 15° right for Ti – Goujures 15° à droite pour Ti

K28 K29 Elica 25° destra filetto alternato AZ – Spiral flutes 25° right interrupted threads AZ – Goujures 25° avec filets alternés AZ

Legenda icone – Icon description – Légende icônes



Filettatura destra – Right thread – Filetage à droite



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



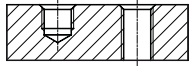
Per applicazioni aeronautiche – For aeronautical applications – Pour les applications aéronautiques



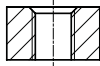
NOVITÀ per filettature M e MF – For M and MF thread – Pour filetage M et MF

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
- Recommended Use - cutting speed m/min
- Utilisation-Recommandée - vitesse de coupe m/min
- Utilizzo accettabile - velocità di taglio m/min
- Acceptable Use - cutting speed 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	ISO2/6H	
	ISO1/4H	
MJ	ISO3/6G	
	7G	6H+0,1
MF	ISO2/6H	
	ISO1/4H	
MJF	ISO3/6G	
	7G	6H+0,1
UNC	2B	3BX
UNF	2B	3BX
UNEF	2B	
UNS	2B	
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. filetto / Thread depth / Profondeur fil		

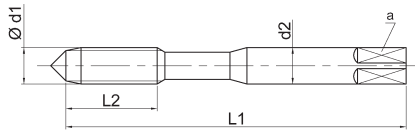
				HB < 120	Rm N/mm² < 400
1. Acciaio Steel Acier	1.1 Acciaio dolce magnetico	Magnetic soft steel	Acier doux magnétique		
	1.2 Acciaio da costruzione, cementazione, automatico	Structural, case carburizing and free cutting steel	Acier de construction, trempé et automatique	< 200	< 700
	1.3 Acciaio al carbonio	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
	4.6 Leghe di magnesio ad alta resistenza	High strength magnesium alloys	Alliages de magnésium de haute résistance	70÷120	240÷400
5. Rame Cooper Cuivre	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
	5.4 Bronzo ad alta resistenza	High strength bronze	Bronze haute résistance	< 440	< 1500
6. Titanio Titanium Titane	6.1 Titanio non legato	Titanium unalloyed	Titane non allié	< 200	< 700
	6.2 Leghe di titanio	Titanium alloys	Alliages de titane	< 270	< 900
	6.3 Leghe di titanio	Titanium alloys	Alliages de titane	< 410	< 1400
7. Nichel Nickel	7.1 Nichel non legato	Nickel unalloyed	Nickel non allié	< 150	< 500
	7.2 Leghe di Nichel	Nickel alloys	Alliages de nickel	< 270	< 900
	7.3 Leghe di Nichel	Nickel alloys	Alliages de nickel	< 470	< 1600
8. Materie plastiche Synthetic Material Matériaux Plastiques	8.1 Materiali termoplastici - Truciolo extralungo	Thermoplastics - Extra long chipping	Matériaux thermoplastique coupeaux extra-longues		< 80
	8.2 Materiali termoindurenti - Truciolo corto	Thermosetting plastics - Short chipping	Matériaux thermodurcissables coupeaux courts		< 110
	8.3 Materie plastiche con fibre di rinforzo	Reinforced plastic materials	Plastiques avec fibres de renfort	240÷440	800÷1500
9. Materiali speciali Special materials Matériaux spéciaux	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
	9.3 Leghe di tungsteno	Tungsten alloys	Alliages de tungstène	< 52 HRC	< 1800
10. Grafite / Graphite	10.1 Grafite	Graphite	Graphite		< 100

	Maschi elica 15° sin Helix 15° left Hélice 15° a gauche		Maschi elicoidali 15° Titanio Spiral flutes taps 15° - Titanium Hélice 15° - Titane		25° Titanio 25° - Titanium 25° - Titane
					
	K52/K53...V	K52/K53...CT	K42/K43...V	K42/K43...CT	K28/K29...AZ-V
	TOP	TOP	TOP	TOP	TOP
					
	Ti	Ti	Ti	Ti	Ti-AZ
	L15°	L15°	R15°	R15°	R25°
	4	4	5	5	5
	4 (MJ)	4 (MJ)	5 (MJ)		
	6	6	7	7	
	6		7		
	8	8	9	9	
	10	10	11	11	
	D (4-5)	D (4-5)	C (2-3)	C (2-3)	C (2-3)
	PM3	PM3	PM3	PM3	PM3
	V	TiCN	V	TiCN	V
	Ti	Ti	Ti	Ti	Ti
	3xD	3xD	1,5xD	1,5xD	2,5xD
1.1					
1.2					
1.3					
1.4					
1.5					
1.6		■ 5-8		■ 5-8	
1.7					
1.8					
2.1					
2.2					
2.3					
2.4		■ 6-8		■ 6-8	
3.1					
3.2					
3.3		■ 15-20		■ 15-20	
3.4		■ 20-25		■ 20-25	
3.5					
4.1					
4.2					
4.3					
4.4		○ 25-30		○ 25-30	
4.5					
4.6					
5.1					
5.2					
5.3		■ 25-30		■ 25-30	
5.4		○ 5-8		○ 5-8	
6.1	■ 5-10		■ 5-10		■ 5-10
6.2		■ 4-8		■ 4-8	■ 4-8
6.3		■ 2-4		■ 2-4	
7.1					
7.2		■ 2-4		■ 2-4	
7.3					
8.1					
8.2					
8.3					
9.1					
9.2		■ 1-2		■ 1-2	
9.3					
10.1					

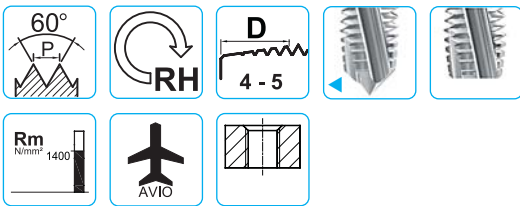
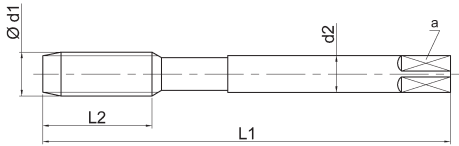
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



TOP



L15°

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

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	

CODICE - CODE			
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DIN 376	Ød1 M	P mm	L ₁	L ₂	d ₂ h9	a h12	Z	
12	1,75	110	25	9	7	3	*10,3	
16	2	110	28	12	9	3	*14	

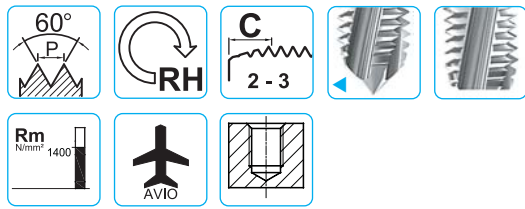
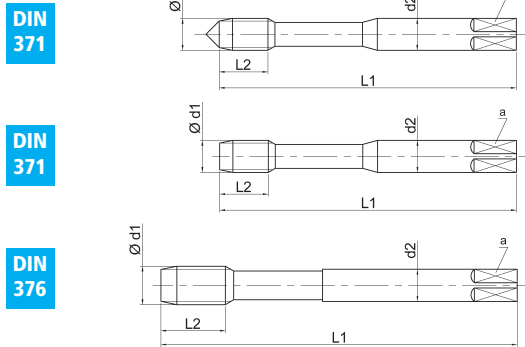
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Per MJ vedi tabella di foratura pag. 12
 * Drills' diameters for MJ: table page 12
 * Pour MJ voir le tableau de perçage page 12

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			

Ti **TITANIO**
Titanium - Titane

MASCHI A MACCHINA
MACHINE TAPS - TARAUDS MACHINE



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	4H	6HX
Treatmento superficiale - Surface treatment - Revêtement	V	TiCN	V	V
Numero gruppi materiali Material's groups number Nombre de groupes du matériau	6.1	1.6 2.4 3.3 3.4 4.4 5.3 5.4 6.2 6.3 7.2 9.2	6.1	6.1 6.2

DIN 371	Ød1 M	P mm	L ₁	L ₂ 10xP	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
◀	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			
K42M...V	K42M...CT	*K42MJ...V	
○	○	○	
○	○	○	
○	○	○	
○	○	○	
○	○	○	
○	○	○	
-	-	-	K28M...AZ-V
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○
-	-	-	○

DIN 376	Ød1 M	P mm	L ₁	L ₂ 10xP	d ₂ h9	a h12	Z	
	12	1,75	110	18	9	7	4	*10,3
	16	2	110	20	12	9	4	*14
	12	1,75	110	25	9	7	4	*10,3
	16	2	110	28	12	9	4	*14

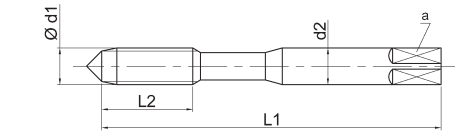
CODICE - CODE			
K43M...V	K43M...CT	*K43MJ...V	
○	○	○	
○	○	○	
-	-	-	K29M...AZ-V
-	-	-	○
-	-	-	○

Confezione / Box / Colis: M3 - M10: 10 pezzi / pcs M12 - M16: 5 pezzi / pcs	€ Pag. listino - Price list - Liste des prix	25	25	25	26
● Standard	○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier			★ Solo a richiesta Only on request / Sur demande	

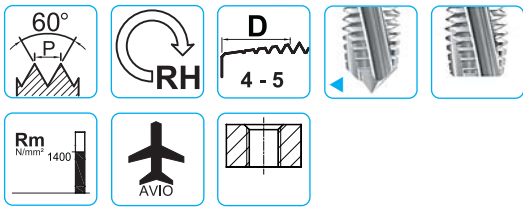
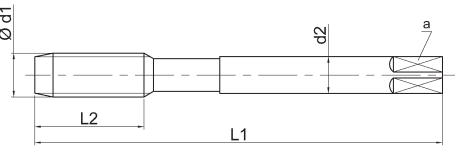
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



TOP



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
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	Ød1	P	L ₁	L ₂	d ₂	a	Z	
371	MF	mm			h9	h12		
◀	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	Ød1	P	L ₁	L ₂	d ₂	a	Z	
374	MF	mm			h9	h12		
	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

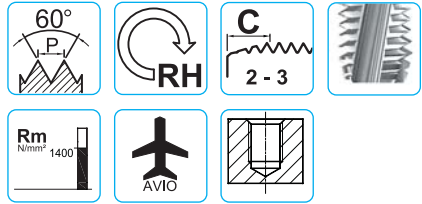
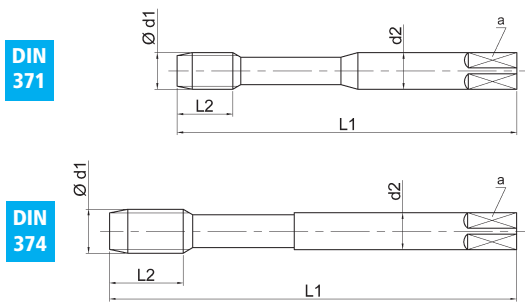
CODICE - CODE		
K53MF...V	K53MF...CT	*K53MJF...V
○	○	○
○	○	○
○	○	○
○	○	○

* Per MJ vedi tabella di foratura pag. 12
* Drills' diameters for MJ: table page 12
* Pour MJ voir le tableau de perçage page 12

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

Ti **TITANIO**
 Titanium - Titane

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
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 ₁	L ₂	d ₂ h9	a h12	Z	
	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="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 ₁	L ₂	d ₂ h9	a h12	Z	
	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="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 MJ vedi tabella di foratura pag. 12
 * Drills' diameters for MJ: table page 12
 * Pour MJ voir le tableau de perçage page 12

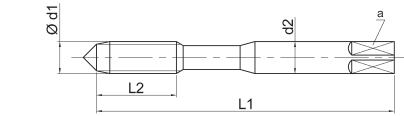
* Rivestimento TiCN a richiesta
 * TiCN coating on request
 * Revêtement TiCN sur demande

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

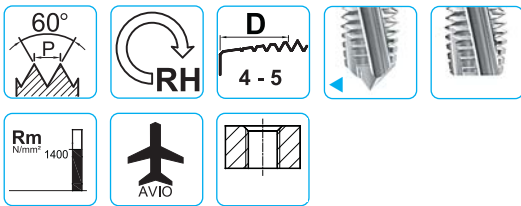
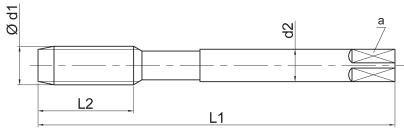
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 376



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 UNC	P TPI	Ø 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	Ød1 UNC	P TPI	Ø mm	L ₁	L ₂	d ₂ h9	a h12	Z	
7/16	13	11,113	100	20	8	6,2	3	*9,4	
1/2	14	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. 12
 * Drills' diameters for UNJC: table page 12
 * Pour UNJC voir le tableau de perçage page 12

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

75
 ○ Disponibilità da richiedere, prezzo a listino
 On enquiry, standard price-list / Stock à vérifier

76
 ★ Solo a richiesta
 Only on request / Sur demande

Ti

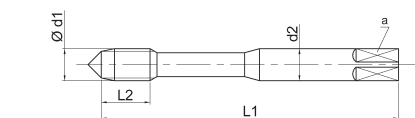
TITANIO

Titanium - Titane

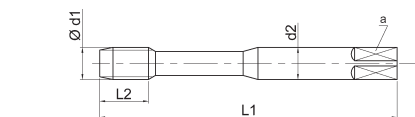
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 371



DIN 376



TOP



R15°

TOP



R15°

TOP



R15°

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

1,5xD

1,5xD

1,5xD

Materiale - Material - Matériau

PM3

PM3

PM3

Tolleranza - Tolerance - Tolérance

2BX

2BX

3BX

Trattamento superficiale - Surface treatment - Revêtement

V

TiCN

V

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

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 ₁	L ₂	d ₂ h ₉	a h ₁₂	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

K42UNC...V	CODICE - CODE	
	K42UNC...CT	K42UNC...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"/>
<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 ₁	L ₂	d ₂ h ₉	a h ₁₂	Z	
	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

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

* Per UNJC vedi tabella di foratura pag. 12
 * Drills' diameters for UNJC: table page 12
 * Pour UNJC voir le tableau de perçage page 12

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

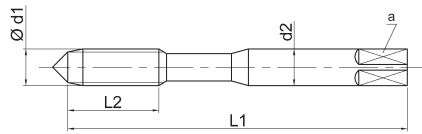
○ Disponibilità da richiedere, prezzo a listino
 On enquiry, standard price-list / Stock à vérifier

★ Solo a richiesta
 Only on request / Sur demande

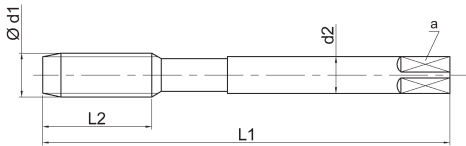
MASCHI A MACCHINA

MACHINE TAPS - TARAUDS MACHINE

DIN 371



DIN 374



60°
P

RH

D
4-5

Rm
Nimnt 1400

AVIO

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 ₁	L ₂	d ₂ 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

K52UNF...V	CODICE - CODE	
	K52UNF...CT	K52UNF...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"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

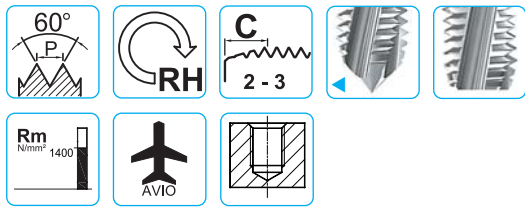
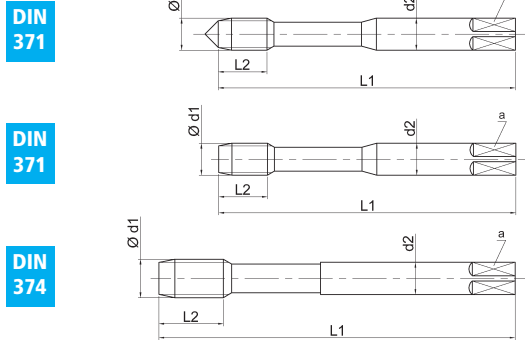
K53UNF...V	CODICE - CODE	
	K53UNF...CT	K53UNF...V-3BX
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Per UNFJ vedi tabella di foratura pag. 12
* Drills' diameters for UNFJ: table page 12
* Pour UNFJ voir le tableau de perçage page 12

<p>Confezione / Box / Collis: 6 - 7/16: 10 pezzi / pcs 1/2 - 9/16: 5 pezzi / pcs > 9/16: singoli / single pcs</p>	<p>€ Pag. listino - Price list - Liste des prix</p> <p>● Standard</p>	<p>84</p> <p>○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier</p>	<p>84</p>	<p>85</p> <p>★ Solo a richiesta Only on request / Sur demande</p>
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Ti **TITANIO**
Titanium - Titane

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

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	

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

DIN 371	Ød1 UNF	P TPI	Ø mm	L ₁	L ₂	d ₂ 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="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"/>

DIN 374	Ød1 UNF	P TPI	Ø mm	L ₁	L ₂	d ₂ 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="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 UNJF vedi tabella di foratura pag. 12
 * Drills' diameters for UNJF: table page 12
 * Pour UNJF voir le tableau de perçage page 12

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	86 ○ Disponibilità da richiedere, prezzo a listino On enquiry, standard price-list / Stock à vérifier	86 ○ Solo a richiesta Only on request / Sur demande	86 ○ Solo a richiesta Only on request / Sur demande
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PREFORI DI MASCHIATURA PER MASCHI AD ASPORTAZIONE PER FILETTATURA "J"

TAPPING DRILL SIZES FOR CUTTING TAPS FOR "J" THREAD

PERÇAGE POUR TARAUDAGE "J"

Filettatura MJ DIN ISO 5855


MJ thread - Filetage MJ

MJ	P mm		Ø di foratura 5H - drill sizes	
			min	max
*MJ 3	0,50	2,60	2,513	2,653
*MJ 4	0,70	3,40	3,318	3,498
*MJ 5	0,80	4,30	4,221	4,421
MJ 6	1	5,10	5,026	5,216
MJ 8	1	7,10	7,026	7,216
MJ 8	1,25	6,90	6,782	6,994
MJ 10	1	9,10	9,026	9,216
MJ 10	1,25	8,90	8,782	8,994
MJ 10	1,5	8,60	8,539	8,775
MJ 12	1,25	10,90	10,782	10,994
MJ 12	1,5	10,60	10,539	10,775
MJ 12	1,75	10,40	10,295	10,560
MJ 14	1,5	12,60	12,539	12,775
MJ 14	2	12,20	12,051	12,351
MJ 16	1,5	14,60	14,539	14,775
MJ 16	2	14,20	14,051	14,351

* Tolleranza, tolerance: 6H


Filettatura UNJC ASME B1.15

UNJC thread - Filetage UNJC

UNJC	P TPI		Ø di foratura 3B - drill sizes	
			min	max
Nr. 6	32	2,80	2,733	2,939
Nr. 8	32	3,50	3,393	3,599
Nr. 10	24	3,90	3,795	4,064
Nr. 12	24	4,60	4,455	4,704
1/4	20	5,20	5,113	5,387
5/16	18	6,70	6,563	6,833
3/8	16	8,10	7,978	8,255
7/16	14	9,50	9,347	9,639
1/2	13	10,90	10,798	11,095
9/16	12	12,35	12,228	12,482
5/8	11	13,80	13,627	13,904
3/4	10	16,70	16,576	16,881

Filettatura UNJF ASME B1.15

UNJF thread - Filetage UNJF

UNJF	P TPI		Ø di foratura 3B - drill sizes	
			min	max
Nr. 6	40	2,95	2,888	3,053
Nr. 8	36	3,6	3,480	3,663
Nr. 10	32	4,15	4,054	4,255
Nr. 12	28	4,7	4,602	4,816
1/4	28	5,6	5,466	5,662
5/16	24	7	6,906	7,109
3/8	24	8,6	8,494	8,679
7/16	20	10	9,876	10,084
1/2	20	11,55	11,463	11,661
9/16	18	13	12,913	13,122
5/8	18	14,6	14,501	14,702
3/4	16	17,6	17,506	17,722



Importante: fate attenzione al diametro di foratura

Important: pay attention to the drills diameter

Important: faites attention au diamètre de perçage

6	Titanio - Titanium - Titane		
6.1	Titanio non legato Rm < 700 N/mm², < 200 HB <i>Titanium unalloyed - Titane non allié</i>		
	W-Nr.	DIN - Germany	Altro / Other / Autres
	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	Leghe di titanio Rm < 900 N/mm², < 270 HB <i>Titanium alloys - Alliages de titane</i>		
6.3	Leghe di titanio Rm < 1400 N/mm², < 410 HB <i>Titanium alloys - Alliages de titane</i>		
	W-Nr.	DIN - Germany	Altro / Other / Autres
	3.7124	TiCu2	-
	3.7154	TiAl6Zr5	-
	3.7164, 3.7165	TiAl6V4	Grade 5
	3.7174	TiAl6V6Sn2	-
	3.7184	TiAl4Mo4Sn2	-
7	Nichel - Nickel - Nickel		
7.2	Leghe di Nichel Rm < 900 N/mm², < 270 HB <i>Nickel alloys - Alliages de Nickel</i>		
	W-Nr.	DIN - Germany	Denom. comm./Trade name/Nom comm.
	1.3912	X2Ni36	Invar
	2.4360	NiCu30Fe	Monel 400
	2.4375	NiCu30Al	Monel K500
	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
2.4	Leghe Cr-Ni resistenti alle alte temperature Rm 1100 ÷ 1400 N/mm², 330 ÷ 410 HB <i>Cr-Ni alloys high temperatures resistant - Alliages Cr-Ni résistant à des températures élevées</i>		
	W-Nr.	DIN - Germany	UNI - Italy
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	



La linea di utensili, definita "TOP" è stata creata come risposta alle esigenze evolutive del mercato e rappresenta la più alta espressione qualitativa dei prodotti UFS. Ottima per applicazioni in tutte le lavorazioni di materiali difficili e per alte produzioni automatizzate. Le caratteristiche e gli impieghi sono sviluppati nelle brochure specifiche.

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.

La ligne d'outils "TOP" a été créée pour répondre aux exigences d'évolution du marché et représente la meilleure qualité des produits UFS. Une ligne d'excellence pour les applications sur matériaux difficiles et production automatisée. Voir caractéristiques techniques et utilisations sur les brochures spécifiques.

