

tornitura - turning - tournage - drehen - torneado




FASTURN

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 External turning

 Tournage extérieur

 Aussenbearbeitung

 Torneado exterior



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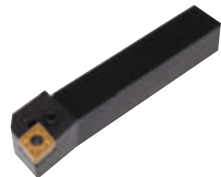
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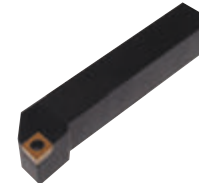
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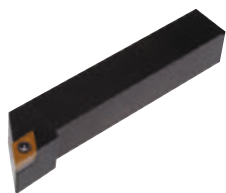


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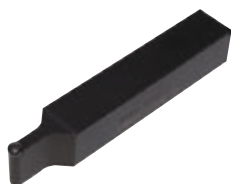
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Tornitura esterna

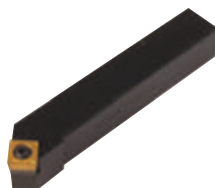
-  External turning
-  Tournage extérieur
-  Aussenbearbeitung
-  Torneado exterior



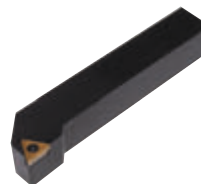
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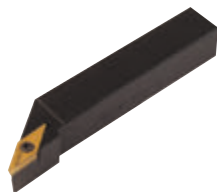
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Tornitura interna

-  Internal turning
-  Tournage intérieur
-  Innenbearbeitung
-  Torneado interior



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Indice Fasturn

Tornitura interna

-  Internal turning
-  Tournage intérieur
-  Innenbearbeitung
-  Torneado interior



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S...SEACL...90°
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S...SEECL...60°
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S...SEDCL...45°
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Filettatura interna / esterna

-  Internal / external threading
-  Filetage intérieur / extérieur
-  Innengewindeschneiden / aussengewindeschneiden
-  Fileteado interior / exterior







SER/L
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A...SIR/L
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Set utensili per tornitura interna

-  Internal turning tools set
-  Jeu d'outils de tournage intérieur
-  Werkzeugset für innenbearbeitung
-  Set de utensilios para torneado interior



SETACL0816R/L
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SETADQ1016R/L
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SETAWU0610R/L
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SETATU0812R/L
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Chiave dei codici degli utensili

Tool code key

Code d'identification des outils

Kennzeichnungscode Werkzeuge

Código de identificación de los utensilios

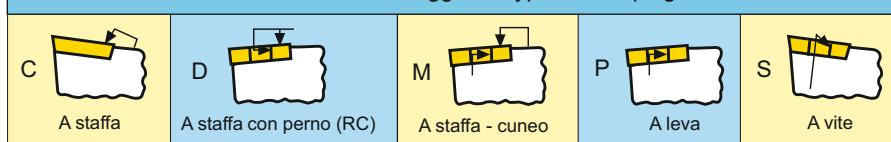
Esterna - External

P	C	L	N	R	25	25	M	12
1	2	3	4	5	6	7	8	9

Interna - Internal

A	25	R	S	C	L	C	R	09
A	B	8	1	2	3	4	5	9

1. Sistema di bloccaggio - Type of clamping



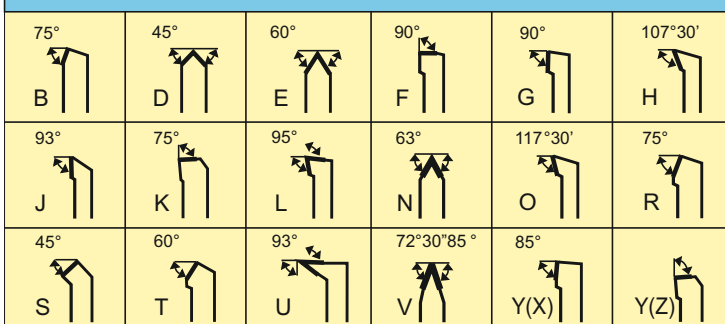
2. Forma dell'inserto - Insert shape



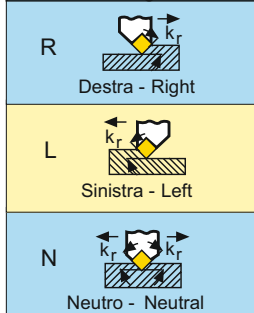
4. Angolo di spoglia inferiore dell'inserto o Rake angles



3. Tipo di attacco - Type of shank



5. Esecuzione Utensile Design



6. Altezza Stelo Shank height

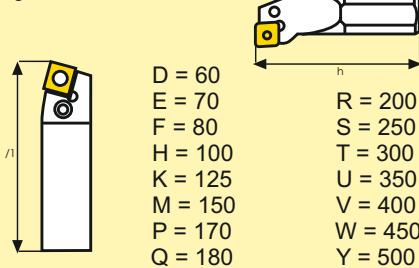


7. Larghezza Stelo Shank width

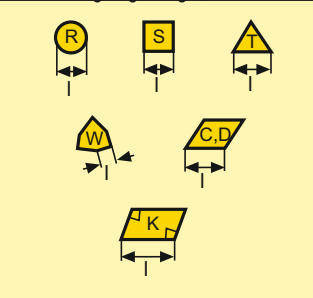


8. Lunghezza dell'utensile - Tool length

Lunghezza utensile = /l in mm



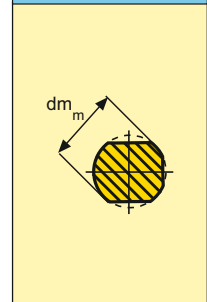
9. Lunghezza del tagliente, l mm Cutting edge length, l mm



A. Tipo di stelo Type of shank

- A Stelo di acciaio con adduzione interna di liquido refrigerante
Steel shank with coolant hole
- E Stelo di metallo duro
Carbide shank
- F Stelo antivibrante
Shank with anti vibration device
- S Stelo in acciaio integrale
Steel shank

B. Diametro stelo Shank diameter

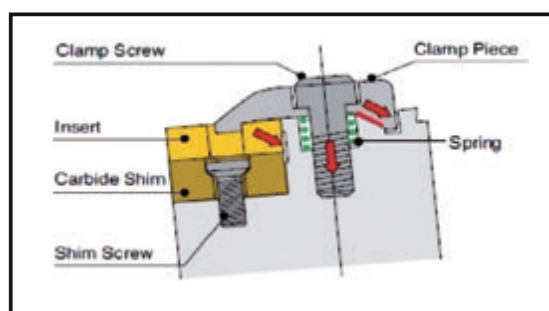


“D” SYSTEM

by COMAND since 1995



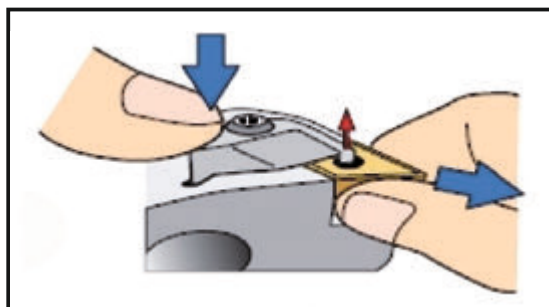
Sistema “D” - “D” System



Il sistema a doppio bloccaggio, spinge l'inserto simultaneamente verso il basso e verso la parete della sede inserto, ottenendo così uno staffaggio sicuro e rigido.

The double-clamping system simultaneously pushes an insert downward and draws it into the contact faces to achieves secure and rigid clamping.

Cambiare gli inserti è facile - Easy to change the insert



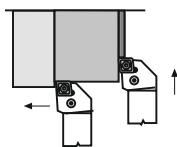
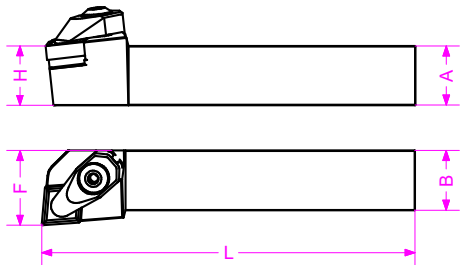
Allentando di un giro la vite, la staffa viene sollevata automaticamente da una molla permettendo la sostituzione veloce e facile dell'inserto.

Loosen clamp screw by one turn and push the spring-loaded clamp. This will automatically lift the opposite edge of the clamp for fast and easy insert replacement.

DCLNR/L

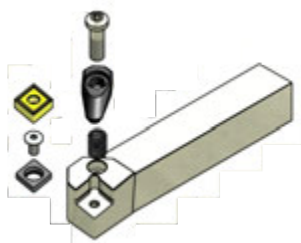
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DCLNR/L2020 K 12	25	20	20	20	125	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30
DCLNR/L2525 M 12	32	25	25	25	150	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30
DCLNR/L3232 P 12	40	32	32	32	170	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30
DCLNR/L3232 P 19	40	32	32	32	170	CNM..1906	DT04N	V6020	M6210	S8019P	VD0610	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	110		150
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	90	80		100
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					110
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3					
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					
NON METALLICI - PLASTICS		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,2	1-2					30
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,15	1-2					40



A x 6



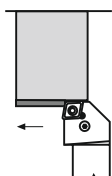
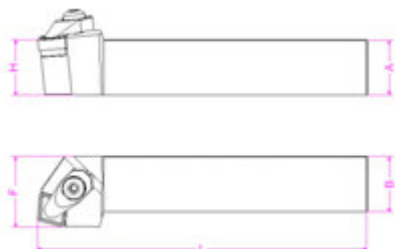
H2 - H7



DCBNR/L

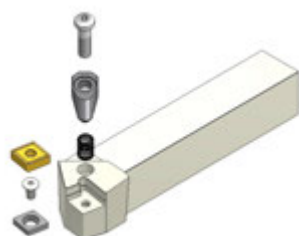
External turning tools
 Outils de tournage extérieur
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Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DCBNR/L 2020 K 12	25	20	20	20	125	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30
DCBNR/L 2525 M 12	32	25	25	25	150	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125	CT4135	PT2320	PT4320		
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	280	180	140		250		
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	110		150	
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	90	80		100	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180			
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130		
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						
	NON METALLICI - PLASTICS		0,15	1-3						
S TITANIO E SUE LEGHE - TITANIUM		200-320	0,2	1-2				30		
		400-1050	0,15	1-2				40		



A x 6



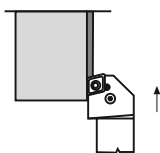
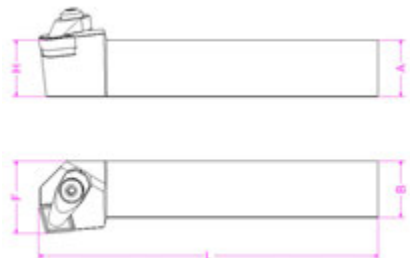
H 2 - H 7



DCKNR/L

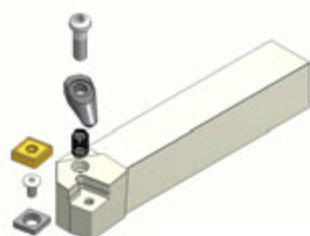
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Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DCKNR/L2020 K 12	25	20	20	20	125	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30
DCKNR/L2525 M 12	32	25	25	25	150	CNM..1204	DT01N	V6020	M6210	S8012P	VD0408	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	110		150
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	90	80		100
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					110
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3					
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					
NON METALLICI - PLASTICS		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,2	1-2					30
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,15	1-2					40



A x 6



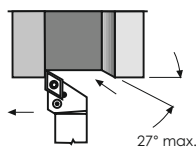
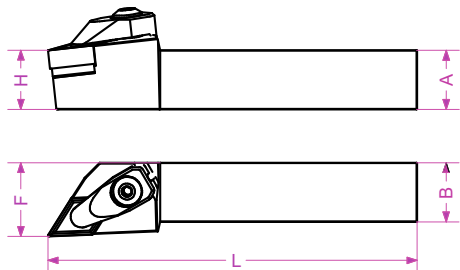
H 2 - H 7



DDJNR/L

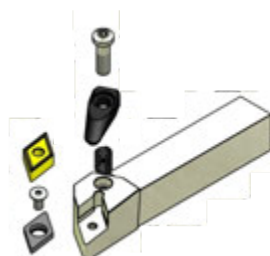
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Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DDJNR/L2020 K 15	25	20	20	20	125	DNM..1506	DT02N	V6020	M6210	S5515D	VD0408	CBR30
DDJNR/L2525 M 15	32	25	25	25	150	DNM..1506	DT02N	V6020	M6210	S5515D	VD0408	CBR30
DDJNR/L3232 P 15	40	32	32	32	170	DNM..1506	DT02N	V6020	M6210	S5515D	VD0408	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		220
	180-350	0,15	1-3	180	120	110		180
	300-330	0,15	1-3	110	90	80		120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180
	160-250	0,2	1-3					150
	130-230	0,2	1-3					120
N RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-3					30
	400-1050	0,15	1-3					40



A x 8



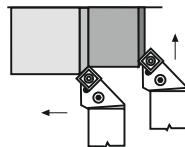
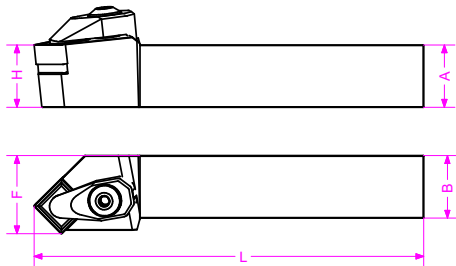
H2 - H7



DSSNR/L

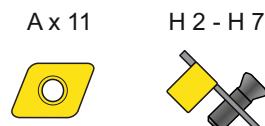
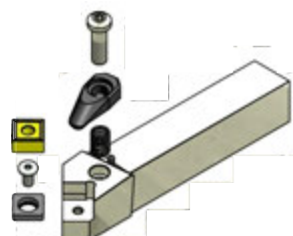
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	F	H	B	A	L							
DSSNR/L2020 K 12	25	20	20	20	125	SNM..1204	DT01N	V6020	M6210	S9012P	VD0408	CBR30
DSSNR/L2525 M 12	32	25	25	25	150	SNM..1204	DT01N	V6020	M6210	S9012P	VD0408	CBR30
DSSNR/L3232 P 12	40	32	32	32	170	SNM..1204	DT01N	V6020	M6210	S9012P	VD0408	CBR30
DSSNR/L3232 P 19	40	32	32	32	170	SNM..1906	DT04N	V6020	M6210	S9019P	VD0610	CBR30

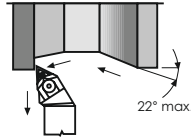
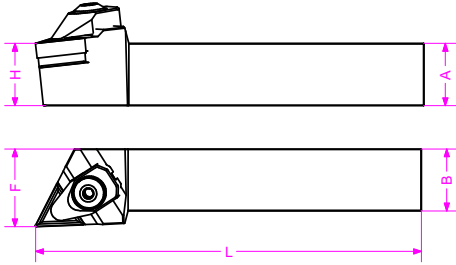
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125	CT4135	PT2320	PT4320	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	280	180	140	250		
	180-350	0,15	1-3	180	120	110	150		
	300-330	0,15	1-3	100	90	80	100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				170		
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3				150		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3				130		
	130-230	0,2	1-3				110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15	1-3						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,15 0,15	1-2				30 40		



DTJNR/L

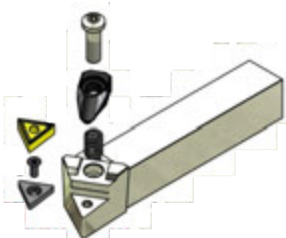
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Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DTJNR/L 2020 K 16	25	20	20	20	125	TNM..1604	DT03N	V6020	M6210	S6016D	VD0308	CBR30
DTJNR/L 2525 M 16	32	25	25	25	150	TNM..1604	DT03N	V6020	M6210	S6016D	VD0308	CBR30
DTJNR/L 3232 P 16	40	32	32	32	170	TNM..1604	DT03N	V6020	M6210	S6016D	VD0308	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min							
				CT4115	CT4125	CT4135	PT2320	PT4320			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		270			
	180-350	0,15	1-3	180	120	110		180			
	300-330	0,15	1-3	110	90	80		120			
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180				
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180			
	160-250	0,2	1-3					160			
	130-230	0,2	1-3					140			
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3								
	90-110	0,15	1-3								
		0,15	1-3								
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-2					30			
	400-1050	0,15	1-2					40			



A x 13



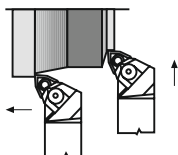
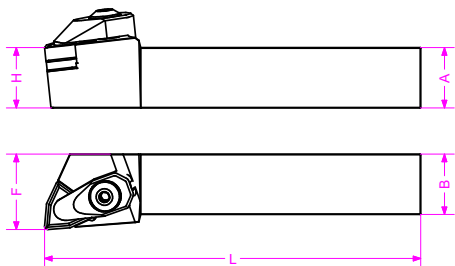
H 2 - H 7



DWLNR/L

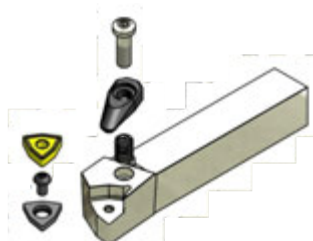
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
DWLNR/L2020 K 08	25	20	20	20	125	WNM..0804	DT01N	V6020	M6210	S8008P	VD0408B	CBR30
DWLNR/L2525 M 08	32	25	25	25	150	WNM..0804	DT01N	V6020	M6210	S8008P	VD0408B	CBR30
DWLNR/L3232 P 08	40	32	32	32	170	WNM..0804	DT01N	V6020	M6210	S8008P	VD0408B	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
	180-350	0,15	1-3	180	120	110		150
	300-330	0,15	1-3	120	90	80		100
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					150
	160-250	0,2	1-3					130
	130-230	0,2	1-3					110
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-2					30
	400-1050	0,15	1-2					40



A x 15

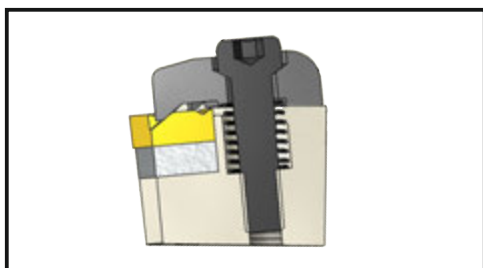


H 2 - H 7



Tipi di bloccaggio

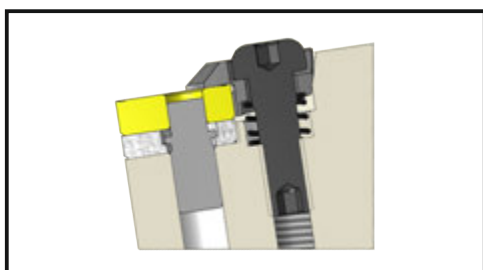
Sistema "C" - "C" System



Il sistema a staffa "C" spinge l'inserto verso il basso, utilizzato per inserti positivi per la finitura e la filettatura.

The clamping "C" System pushes the insert downward and it is recommended for positive inserts, finishing and threading.

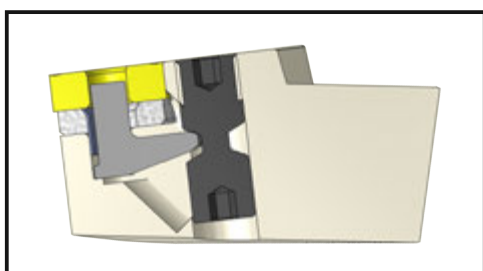
Sistema "M" - "M" System



Il sistema a cuneo "M" spinge l'inserto verso il basso e verso il perno centrale, ottenendo uno staffaggio rigido, senza però garantire un'elevata ripetibilità.

The wedge-shaped "M" System pushes the insert downward and toward the central linchpin to achieve a secure and rigid clamping avoiding a high repeatability.

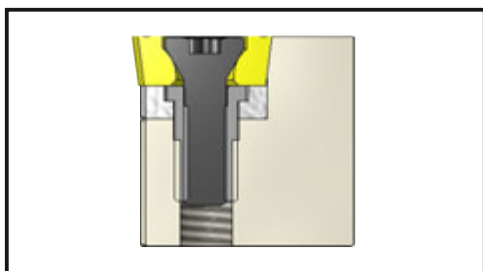
Sistema "P" - "P" System



Il sistema a leva "P" rappresenta la scelta prioritaria per la tornitura interna con inserto negativo, garantendo una buona evacuazione del truciolo e facile sostituzione dell'inserto. Per la tornitura esterna risulta essere un'alternativa ai sistemi "D" e "M".

The "S" System is the first choice for internal turning with negative insert. It guarantees a good chip removal process and an easy insert change. It represents an alternative to "D" and "M" Systems for the external turning.

Sistema "S" - "S" System



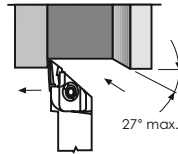
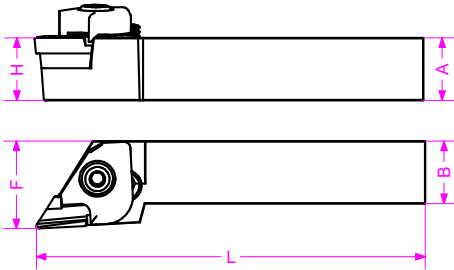
Il sistema a vite "S" blocca l'inserto verso il basso e la parete dell'utensile. Utilizzato esclusivamente per inserti positivi, garantisce una buona evacuazione del truciolo e lavorazione di tornitura di profili.

The screw "C" System clamps the insert downward and towards the walls of the insert pocket. It is recommended for positive insert only. It guarantees a good chip removal process and outline turning machining.

CKJNR/L

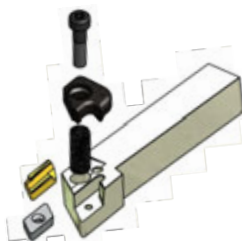
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts						
	F	H	B	A	L								
CKJNR/L2020 K 16	30	20	20	20	125	KNUX16	CKN16R/L	SKN16R/L	S311	V60CK	M428	SC510	CBR40
CKJNR/L2525 M 16	32	25	25	25	150	KNUX16	CKN16R/L	SKN16R/L	S311	V60CK	M428	SC510	CBR40
CKJNR/L3225 P 16	32	32	25	32	170	KNUX16	CKN16R/L	SKN16R/L	S311	V60CK	M428	SC510	CBR40

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min			
				CT4125		PT4320	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160		160	
	180-350	0,15	1-3	120		140	
	300-330	0,15	1-3	80		120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	130		140	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3				
	160-250	0,2	1-3			200	
	130-230	0,2	1-3				
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3				
	90-110	0,15	1-3				
		0,15	1-3				
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3				
	400-1050	0,1	1-3				



A x 9



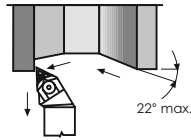
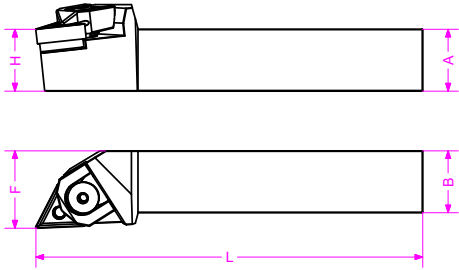
H 2 - H 7



MTJNR/L

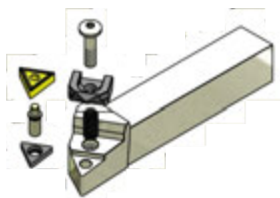
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	F	H	B	A	L							
MTJNR/L2020 K 16	25	20	20	20	125	TNM..1604	C6016N	V6016	S6016P	P0502	VB312	CBR25
MTJNR/L2525 M 16	32	25	25	25	150	TNM..1604	C6016N	V6016	S6016P	P0502	VB312	CBR25
MTJNR/L3232 P 16	32	32	32	32	170	TNM..1604	C6016N	V6016	S6016P	P0502	VB312	CBR25

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min							
				CT4115	CT4125	CT4135	PT2320	PT4320			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		230			
	180-350	0,15	1-3	180	120	110		180			
	300-330	0,15	1-3	110	90	80		120			
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180				
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180			
	160-250	0,2	1-3					160			
	130-230	0,2	1-3					140			
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3								
	90-110	0,15	1-3								
		0,15	1-3								
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-2					30			
	400-1050	0,15	1-2					40			



A x 13



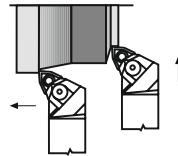
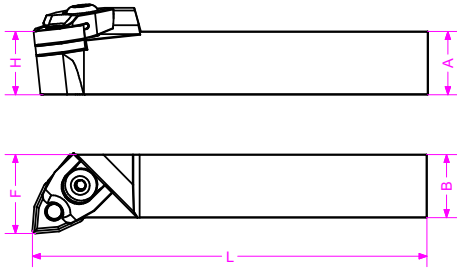
H 2 - H 7



MWLNRL

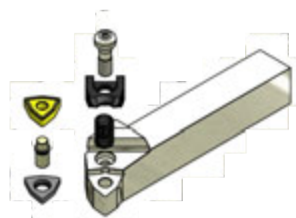
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
MWLNRL2020 K 08	25	20	20	20	125	WNM..0804	C8008N	V8008	S8008P	P0602	CBR30
MWLNRL2525 M 08	32	25	25	25	150	WNM..0804	C8008N	V8008	S8008P	P0602	CBR30
MWLNRL3232 P 08	32	32	32	32	170	WNM..0804	C8008N	V8008	S8008P	P0602	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125	CT4135	PT2320	PT4320		
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	280	180	140		250		
	180-350	0,15	1-3	180	130	110		150		
	300-330	0,15	1-3	120	90	80		100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180			
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					150		
	160-250	0,2	1-3					130		
	130-230	0,2	1-3					110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3							
	90-110	0,15	1-3							
		0,15	1-3							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-2					30		
	400-1050	0,15	1-2					40		



A x 15



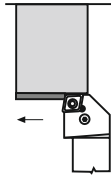
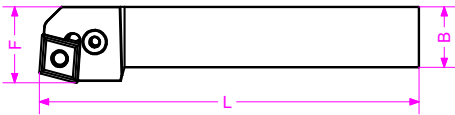
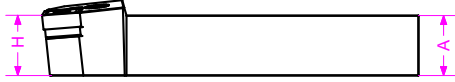
H 2 - H 7



PCBNR/L

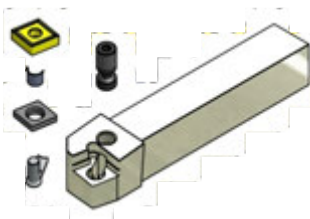
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PCBNR/L2020 K 12	25	20	20	20	125	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCBNR/L2525 M 12	32	25	25	25	150	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCBNR/L3232 P 12	40	32	32	32	170	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCBNR/L4040 S 19	50	40	40	40	250	CNM..1906	LV09	V1019	S990	S8019N	CBR40
PCBNR/L4040 S 25	50	40	40	40	250	CNM..2509	LV25	V1225	S1225	S8025N	CBR50
PCBNR/L5050 T 25	60	50	50	50	300	CNM..2509	LV25	V1225	S1225	S8025N	CBR50

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125	CT4135	PT2320	PT4320	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140	250		
	180-350	0,15	1-3	180	120	110	200		
	300-330	0,15	1-3	100	90	80	120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180		
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3				150		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3				130		
	130-230	0,2	1-3				110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15	1-3						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,15 0,15	1-2 1-2				30 40		



A x 6



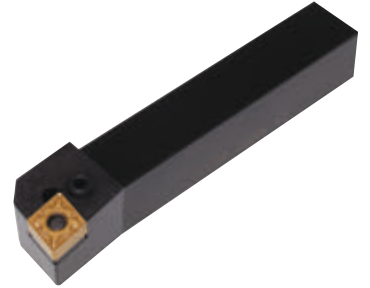
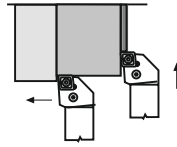
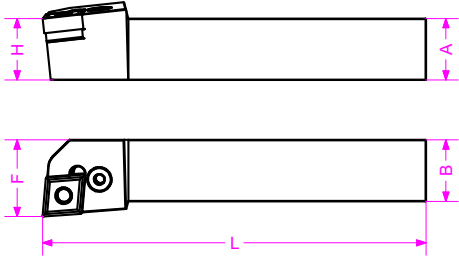
H 2 - H 7



PCLNR/L

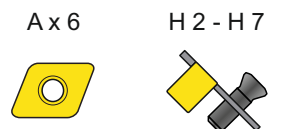
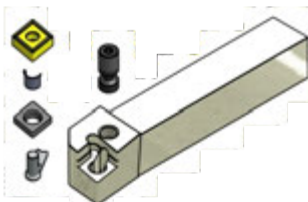
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PCLNR/L2020 K 12	25	20	20	20	125	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCLNR/L2525 M 12	32	25	25	25	150	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCLNR/L3232 P 12	32	32	32	32	170	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCLNR/L3232 P 16	40	32	32	32	170	CNM..1606	LV06	V0802	S840	S8016N	CBR30
PCLNR/L3232 P 19	40	32	32	32	170	CNM..1906	LV09	V1019	S990	S8019N	CBR40
PCLNR/L4040 S 19	50	40	40	40	250	CNM..1906	LV09	V1019	S990	S8019N	CBR40
PCLNR/L4040 S 25	50	40	40	40	250	CNM..2509	LV25	V1225	S1225	S8025N	CBR50
PCLNR/L5050 T 25	60	50	50	50	300	CNM..2509	LV25	V1225	S1225	S8025N	CBR50

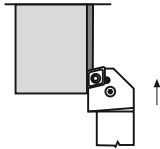
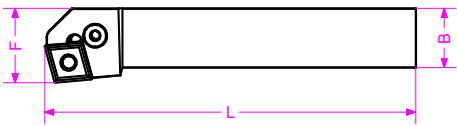
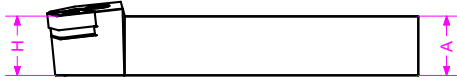
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140	250	
	180-350	0,15	1-3	180	120	120	180	
	300-330	0,15	1-3	100	90	80	120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3			180		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3				150 130 110	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,15 0,15	1-2 1-2				30 40	



PCKNR/L

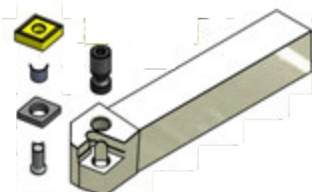
External turning tools
Outils de tournage extérieur
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Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PCKNR/L2020 K 12	25	20	20	20	125	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCKNR/L2525 M 12	32	25	25	25	150	CNM..1204	LV02	V0802	S635	S8012N	CBR30
PCKNR/L3232 P 12	32	32	32	32	170	CNM..1204	LV02	V0802	S635	S8012N	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	260	180	140		250
P ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	120		180
P ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	90	80		120
M INOXAUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130
K GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					110
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3					
N RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					
N NON METALLICI - PLASTICS		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,15	1-2					30
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,15	1-2					40



A x 6



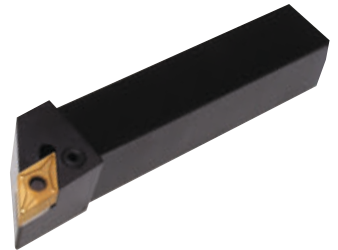
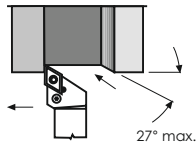
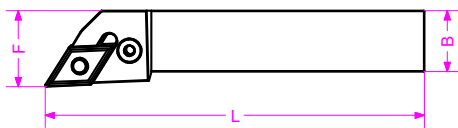
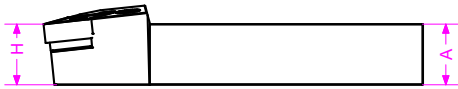
H 2 - H 7



PDJNR/L

External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PDJNR/L2020 K 15	25	20	20	20	125	DNM..1506	LV05	V0805	S635	S5515N	CBR30
PDJNR/L2525 M 15	32	25	25	25	150	DNM..1506	LV05	V0805	S635	S5515N	CBR30
PDJNR/L3232 P 15	32	32	32	32	170	DNM..1506	LV05	V0805	S635	S5515N	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		240
	180-350	0,15	1-3	180	120	110		180
	300-330	0,15	1-3	110	90	80		120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180
	160-250	0,2	1-3					150
	130-230	0,2	1-3					120
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-3					30
	400-1050	0,1	1-3					40



A x 8



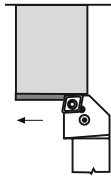
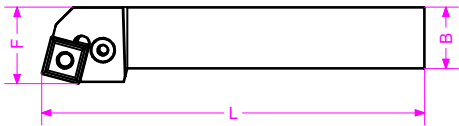
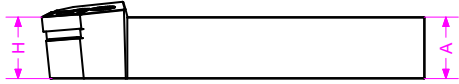
H 2 - H 7



PSBNR/L

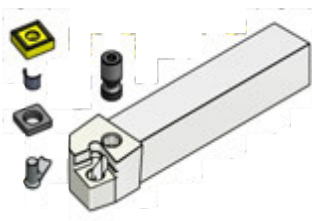
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PSBNR/L2020 K 12	25	20	20	20	125	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSBNR/L2525 M 12	32	25	25	25	150	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSBNR/L3232 P 12	40	32	32	32	170	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSBNR/L4040 S 19	50	40	40	40	250	SNM..1906	LV09	V1019	S990	S9019N	CBR40
PSBNR/L4040 S 25	50	40	40	40	250	SNM..2509	LV25	V1225	S1225	S9025N	CBR50
PSBNR/L5050 T 25	60	50	50	50	300	SNM..2509	LV25	V1225	S1225	S9025N	CBR50

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
	180-350	0,15	1-3	180	120	110		160
	300-330	0,15	1-3	110	90	80		100
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				170	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					150 130 110
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,15 0,15	1-2 1-2					30 40



A x 11



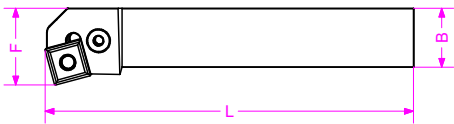
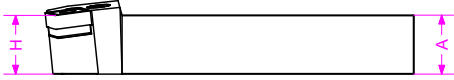
H 2 - H 7



PSKNR/L

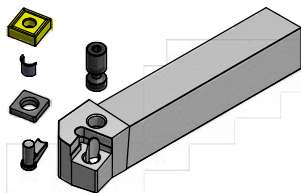
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PSKNR/L2020 K 12	25	20	20	20	125	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSKNR/L2525 M 12	32	25	25	25	150	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSKNR/L3232 P 12	40	32	32	32	170	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSKNR/L4040 S 19	50	40	40	40	250	SNM..1906	LV09	V1019	S990	S9019N	CBR40
PSKNR/L4040 S 25	50	40	40	40	250	SNM..2509	LV25	V1225	S1225	S9025N	CBR50
PSKNR/L5050 T 25	60	50	50	50	300	SNM..2509	LV25	V1225	S1225	S9025N	CBR50

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
	180-350	0,15	1-3	180	130	110		160
	300-330	0,15	1-3	110	90	80		110
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				170	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					150 130 110
N ALLUMINIO E SUE LEGHE - ALLUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-3 1-3					30 40



A x 11



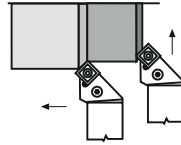
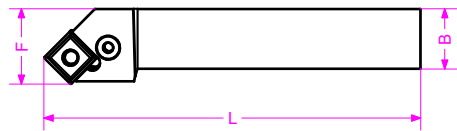
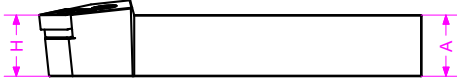
H 2 - H 7



PSSNR/L

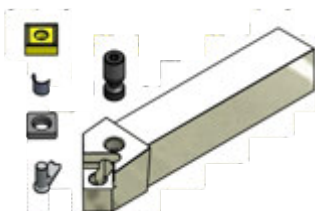
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PSSNR/L2020 K 12	25	20	20	20	125	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSSNR/L2525 M 12	32	25	25	25	150	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSSNR/L3232 P 12	32	32	32	32	170	SNM..1204	LV02	V0802	S635	S9012N	CBR30
PSSNR/L4040 S 19	50	40	40	40	250	SNM..1906	LV09	V1019	S990	S9019N	CBR40
PSSNR/L4040 S 25	50	40	40	40	250	SNM..2509	LV25	V1225	S1225	S9025N	CBR50
PSSNR/L5050 T 25	60	50	50	50	300	SNM..2509	LV25	V1225	S1225	S9025N	CBR50

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	280	180	140		250
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	130	110		180
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	110	90	80		110
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				170	
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					110
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3					
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					
NON METALLICI - PLASTICS		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					30
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2					40



A x 11



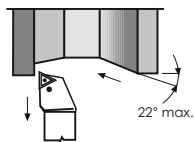
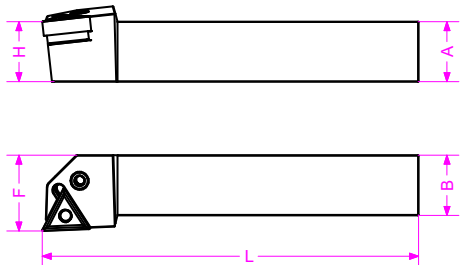
H 2 - H 7



PTGNR/L

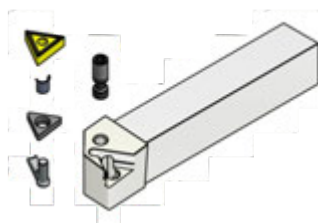
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PTGNR/L2020 K 16	25	20	20	20	125	TNM..1604	LV01	V0601	S535	S6016N	CBR25
PTGNR/L2525 M 16	32	25	25	25	150	TNM..1604	LV01	V0601	S535	S6016N	CBR25

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		230
	180-350	0,15	1-3	180	120	110		180
	300-330	0,15	1-3	110	90	80		120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180
	160-250	0,2	1-3					160
	130-230	0,2	1-3					140
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					30
	400-1050	0,1	1-2					40



A x 13



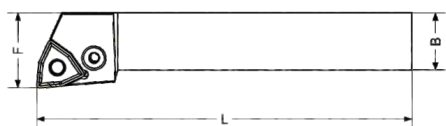
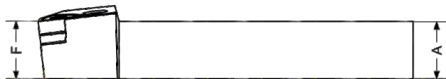
H2 - H7



PWLNR/L

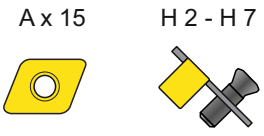
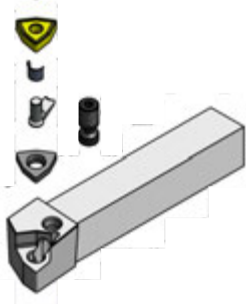
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	F	H	B	A	L						
PWLNR/L2020 K 08	25	20	20	20	125	WNM.08	LV02	V0802	S635	S8008N	CBR30
PWLNR/L2525 M 08	32	25	25	25	150	WNM.08	LV02	V0802	S635	S8008N	CBR30

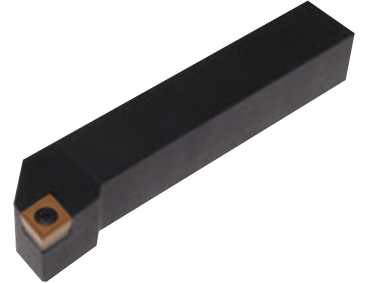
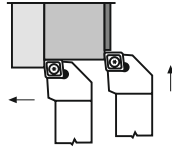
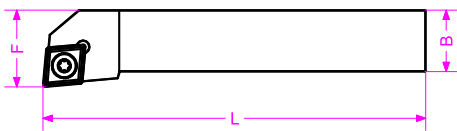
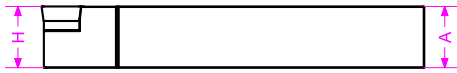
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio – Cutting Speed – Vc m/min							
				CT4115	CT4125	CT4135	PT2320	PT4320			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		250			
	180-350	0,15	1-3	180	130	110		150			
	300-330	0,15	1-3	120	90	80		100			
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180				
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150			
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3					130			
	130-230	0,2	1-3					110			
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3								
	90-110	0,15	1-3								
		0,15	1-3								
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					30			
	400-1050	0,1	1-2					40			



SCLCR/L

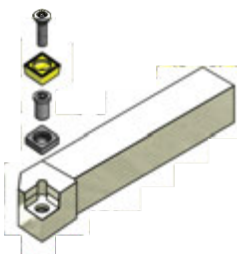
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SCLCR/L1212 F 09	16	12	12	12	80	CCM..09T3	-	-	TX3511	BTX15
SCLCR/L1616 H 09	20	16	16	16	100	CCM..09T3	-	-	TX3511	BTX15
SCLCR/L2020 K 09	25	20	20	20	125	CCM..09T3	-	-	TX3511	BTX15
SCLCR/L2020 K 12	25	20	20	20	125	CCM..1204	S8012P	B0609	TX4014	BTX15
SCLCR/L2525 M 12	32	25	25	25	150	CCM..1204	S8012P	B0609	TX4014	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	160			250		
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	150	120			180		
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					220	130	
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					200	110	
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					200	150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500	
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						400	
NON METALLICI - PLASTICS		0,15	1-3						200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					40		
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2					50		



A x 5



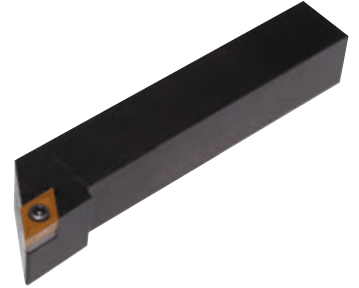
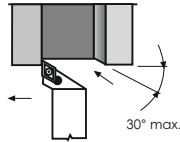
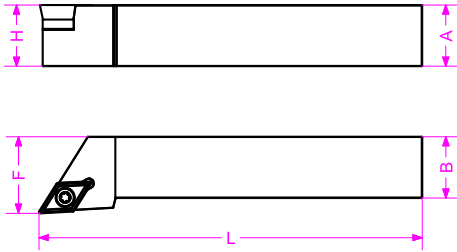
H 2 - H 7



SDJCR/L

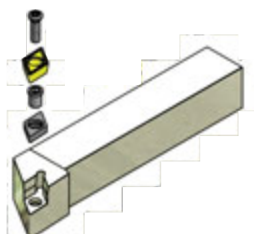
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SDJCR/L1212 F 11	16	12	12	12	80	DCM..11T3	-	-	TX3511	BTX15
SDJCR/L1616 H 11	20	16	16	16	100	DCM..11T3	S5511P	B0509	TX3513	BTX15
SDJCR/L2020 K 11	25	20	20	20	125	DCM..11T3	S5511P	B0509	TX3513	BTX15
SDJCR/L2525 M 11	32	25	25	25	150	DCM..11T3	S5511P	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250		
	180-350	0,15	1-3	150	120			180		
	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					240	140	
	160-250	0,2	1-3					220	120	
	130-230	0,2	1-3					200	160	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3						1500	
	90-110	0,15	1-3						400	
		0,15	1-3						200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					40		
	400-1050	0,1	1-2					50		



A x 7



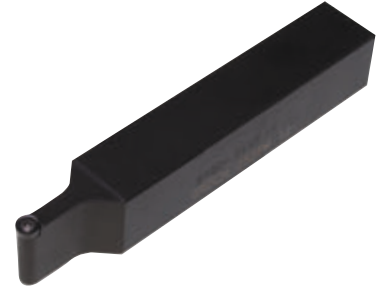
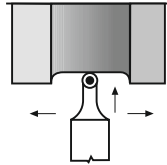
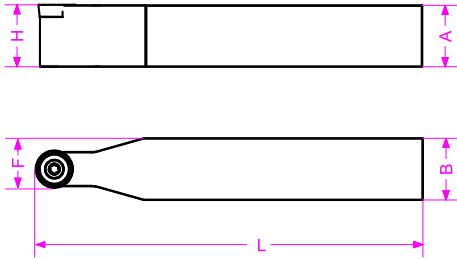
H 2 - H 7



SRDCN

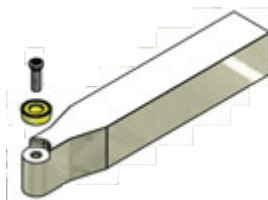
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts	
	F	H	B	A	L			
SRDCN 1616 H 06	11	16	16	16	100	RC..0602	TX2506	BTX08
SRDCN 2020 K 06	13	20	20	20	125	RC..0602	TX2506	BTX08
SRDCN 2525 M 06	15.5	25	25	25	150	RC..0602	TX2506	BTX08
SRDCN 1616 H 08	12	16	16	16	100	RC..0803	TX3007	BTX08
SRDCN 2020 K 08	14	20	20	20	125	RC..0803	TX3007	BTX08
SRDCN 2525 M 08	16.5	25	25	25	150	RC..0803	TX3007	BTX08
SRDCN 2020 K 10	15	20	20	20	125	RC..1003	TX3511	BTX15
SRDCN 2525 K 10	17,5	25	25	25	150	RC..1003	TX3511	BTX15
SRDCN 2020 K 12	16	20	20	20	125	RC..1204	TX4010	BTX15
SRDCN 2525 M 12	18,5	25	25	25	150	RC..1204	TX4010	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4125	PT4320	WT8010		
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	160	250			
	180-350	0,15	1-3	120	180			
	300-330	0,15	1-3	80	120			
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	130	140			
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3		240	140		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3		220	120		
	130-230	0,2	1-3		200	160		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3			1500		
N RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	90-110	0,15	1-3			400		
		0,15	1-3			200		
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2			40		
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2			50		



A x 9



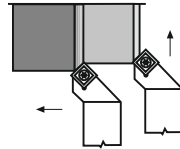
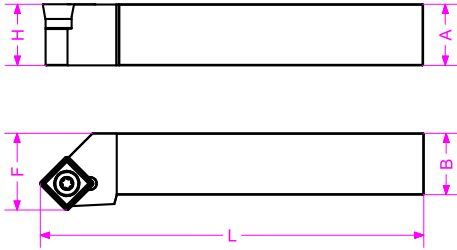
H 2 - H 7



SSSCR/L

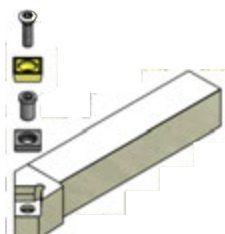
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SSSCR/L1616 H 09	20	16	16	16	100	SCM..09T3	-	-	TX3511	BTX15
SSSCR/L2020 K 09	25	20	20	20	100	SCM..09T3	-	-	TX3511	BTX15
SSSCR/L1616 H 12	20	16	16	16	100	SCM..1204	S9012P	B0609	TX4014	BTX15
SSSCR/L2020 K 12	25	20	20	20	125	SCM..1204	S9012P	B0609	TX4014	BTX15
SSSCR/L2525 M 12	32	25	25	25	150	SCM..1204	S9012P	B0609	TX4014	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125				WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	160					
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	150	120					
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	80					
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130					
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3						130	
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3						110	
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3						150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500	
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						400	
NON METALLICI - PLASTICS		0,15	1-3						200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2							
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2							



A x 10



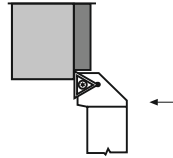
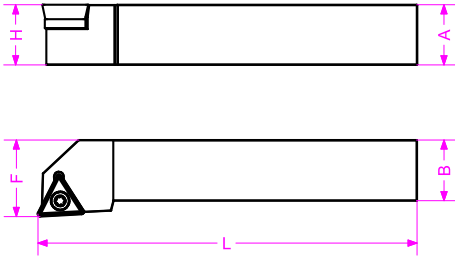
H 2 - H 7



STJCR/L

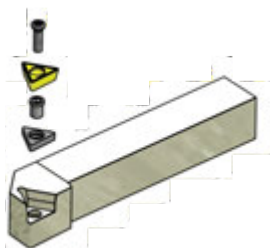
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
STJCR/L 1616 H 11	20	16	16	16	100	TCM..1102	-	-	TX2506	BTX08
STJCR/L 1616 H 16	20	16	16	16	100	TCM..16T3	S6016P	B0509	TX3513	BTX15
STJCR/L 2020 K 16	25	20	20	20	125	TCM..16T3	S6016P	B0509	TX3513	BTX15
STJCR/L 2525 M 16	32	25	25	25	150	TCM..16T3	S6016P	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250		
	180-350	0,15	1-3	150	120			180		
	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					220	130	
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3					200	110	
	130-230	0,2	1-3					180	150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15	1-3						1500 400	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2					40 50		



A x 12



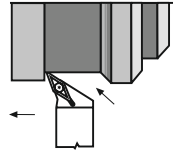
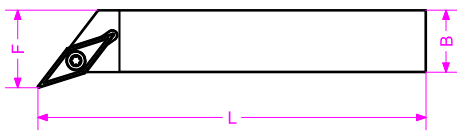
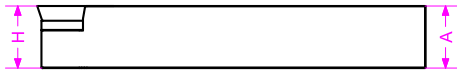
H 2 - H 7



SVHBR/L - SVHCR/L

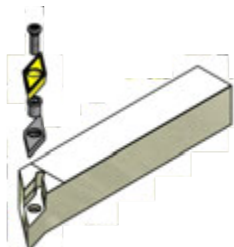
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SVHBR/L2020 K 16	25	20	20	20	125	VBM..1604	S3516P	B0509	TX3513	BTX15
SVHBR/L2525 M 16	32	25	25	25	150	VBM..1604	S3516P	B0509	TX3513	BTX15
SVHCR/L2020 K 16	25	20	20	20	125	VCM..1604	S3516P	B0509	TX3513	BTX15
SVHCR/L2525 M 16	32	25	25	25	150	VCM..1604	S3516P	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	180			250		
	180-350	0,15	1-3	150	120			180		
	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					220 200 180	130 110 150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3						1500 400 200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2 1-2					40 50		



A x 14



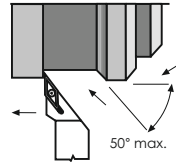
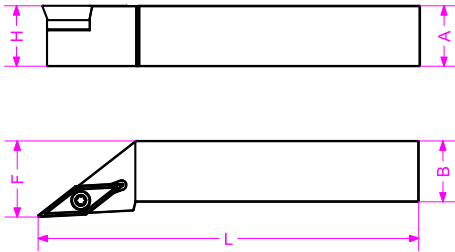
H 2 - H 7



SVJBR/L - SVJCR/L

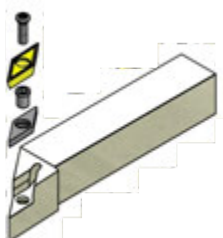
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SVJBR/L 2020 K 16	25	20	20	20	125	VBM..1604	S3516P	B0509	TX3513	BTX15
SVJBR/L 2525 M 16	32	25	25	25	150	VBM..1604	S3516P	B0509	TX3513	BTX15
SVJCR/L 2020 K 11	25	20	20	20	125	VCM..1103	-	-	TX2506	BTX08
SVJCR/L 2525 M 11	32	25	25	25	150	VCM..1103	-	-	TX2506	BTX08
SVJCR/L 2020 K 16	25	20	20	20	125	VCM..1604	S3516P	B0509	TX3513	BTX15
SVJCR/L 2525 M 16	32	25	25	25	150	VCM..1604	S3516P	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	180			250		
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	150	120			180		
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3					140		
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					220	130	
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					200	110	
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					180	150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500	
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						400	
NON METALLICI - PLASTICS		0,15	1-3						200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					40		
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2					50		



A x 14



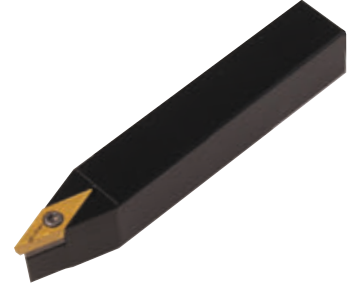
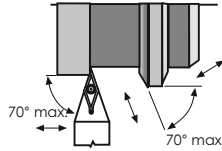
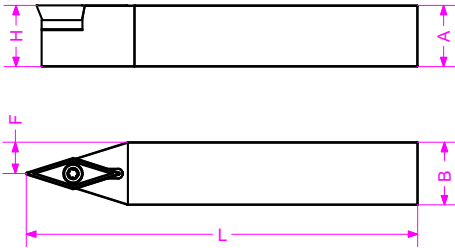
H 2 - H 7



SVVBN... - SVVCN...

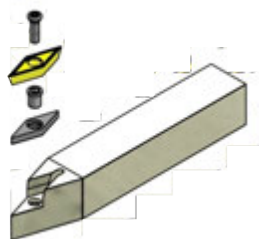
External turning tools
Outils de tournage extérieur
Werkzeuge für Aussenbearbeitung
Utensilios para torneado exterior

Utensili per tornitura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SVVBN 2020 K 16	10	20	20	20	125	VBM..1604	S3516P	B0509	TX3513	BTX15
SVVBN 2525 M 16	12.5	25	25	25	150	VBM..1604	S3516P	B0509	TX3513	BTX15
SVVCN 2020 K 16	10	20	20	20	125	VCM..1604	S3516P	B0509	TX3513	BTX15
SVVCN 2525 M 16	12.5	25	25	25	150	VCM..1604	S3516P	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	180			250		
	180-350	0,15	1-3	150	120			180		
	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					220 200 180	130 110 150	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3					1500 400 200		
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2 1-2					40 50		



A x 14



H 2 - H 7





Utensili per tornitura interna

Internal turning tools

Outils de tournage intérieur

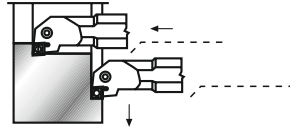
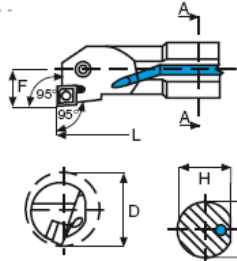
Werkzeuge für Innenbearbeitung

Utensilios para torneado interior

A...PCLNR/L

Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna

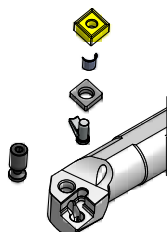


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	D	d	F	H	L						
A20Q PCLNR/L09	25	20	13	19	180	CNM..0903	LV00	V0501	S535	S8009N	CBR25
A25R PCLNR/L09	32	25	17	24	200	CNM..0903	LV01	V0601	S535	S8009N	CBR25
A25R PCLNR/L12	32	25	17	24	200	CNM..1204	LV02	V0801	S635	S8012N	CBR30
A32S PCLNR/L12	40	32	22	31	250	CNM..1204	LV02	V0802	S635	S8012N	CBR30
A40T PCLNR/L12	50	40	27	38.5	300	CNM..1204	LV02	V0802	S635	S8012N	CBR30
A50U PCLNR/L12	63	50	35	48	350	CNM..1204	LV02	V0802	S635	S8012N	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140	250	
	180-350	0,15	1-3	180	120	120	180	
	300-330	0,15	1-3	100	90	80	120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3			180		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3				150	
	160-250	0,2	1-3				130	
	130-230	0,2	1-3				110	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,15	1-2				30	
	400-1050	0,15	1-2				40	



A x 6



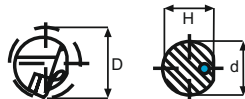
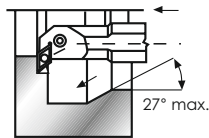
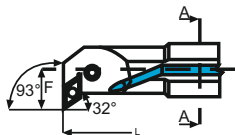
H 2 - H 7



A...PDUNR/L

Internal turning tools
 Outils de tournage intérieur
 Werkzeuge für Innenbearbeitung
 Utensilios para torneado interior

Utensili per tornitura interna

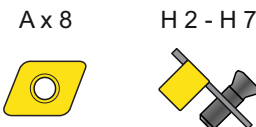
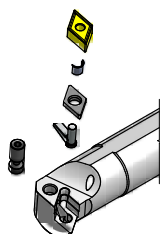


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	D	d	F	H	L						
A32S PDUNR/L15	40	32	22	31	250	DNM..1506	LV05	V0805	S635	S5515N	CBR30
A40T PDUNR/L15	50	40	27	38.5	300	DNM..1506	LV05	V0805	S635	S5515N	CBR30
A50U PDUNR/L15	63	50	35	48	350	DNM..1506	LV05	V0805	S635	S5515N	CBR30

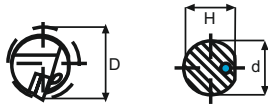
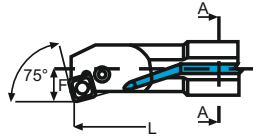
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		240
	180-350	0,15	1-3	180	120	110		180
	300-330	0,15	1-3	110	90	80		120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					180 150 120
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110 	0,2 0,15 0,15	1-3 1-3 1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-3 1-3					30 40



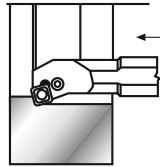
A...PSKNR/L

Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna

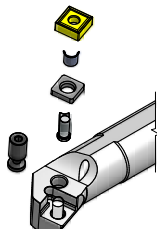


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	D	d	F	H	L						
A25R PSKNR/L 12	32	25	17	24	200	SNM..1204	LV02	V0801	S635	S9012N	CBR30
A32S PSKNR/L 12	40	32	22	31	250	SNM..1204	LV02	V0802	S635	S9012N	CBR30
A40T PSKNR/L 12	50	40	27	38.5	300	SNM..1204	LV02	V0802	S635	S9012N	CBR30

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125	CT4135	PT2320	PT4320		
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	280	180	140		250		
ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	110		160		
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	110	90	80		100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				170			
GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					150		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					130		
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3					110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3							
NON METALLICI - PLASTICS		0,15	1-3							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,15	1-2					30		
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,15	1-2					40		



A x 11



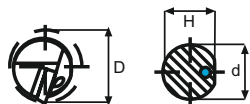
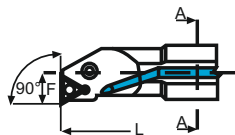
H 2 - H 7



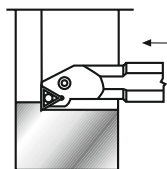
A...PTFNR/L

Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna

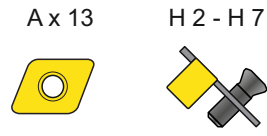
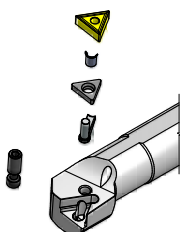


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts				
	D	d	F	H	L						
A25R PTFNR/L16	32	25	17	24	200	TNM..1604	LV01	V0601	S535	S6016N	CBR25
A32S PTFNR/L16	40	32	22	31	250	TNM..1604	LV01	V0601	S535	S6016N	CBR25

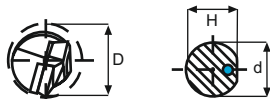
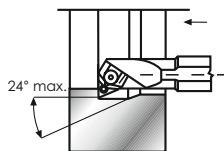
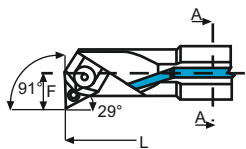
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	260	180	140		230
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	180	120	110	180
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	110	90	80	120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					180
GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					160
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				140
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3					
RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					
NON METALLICI - PLASTICS		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					30
TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2					40



A...MTFNR/L

Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura esterna

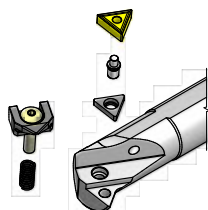


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts					
	D	d	F	H	L							
A25R MTFNR/L 16	32	25	17	24	200	TNM..1604	C6016N	V6016	S6016P	P0500	VB306	CBR25
A32S MTFNR/L 16	40	32	22	31	250	TNM..1604	C6016N	V6016	S6016P	P0501	VB306	CBR25
A40T MTFNR/L 16	50	40	27	38.5	300	TNM..1604	C6016N	V6016	S6016P	P0501	VB306	CBR25

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min				
				CT4115	CT4125	CT4135	PT2320	PT4320
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140		230
	180-350	0,15	1-3	180	120	110		180
	300-330	0,15	1-3	110	90	80		120
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					180
	160-250	0,2	1-3					160
	130-230	0,2	1-3					140
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3					
	90-110	0,15	1-3					
		0,15	1-3					
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					30
	400-1050	0,1	1-2					40



A x 13

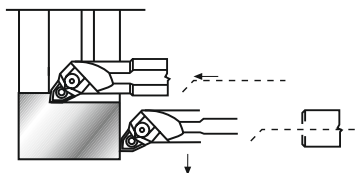
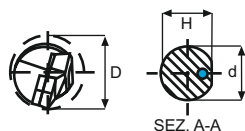
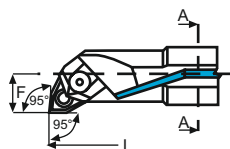
H 2 - H 7



Internal turning tools
 Outils de tournage intérieur
 Werkzeuge für Innenbearbeitung
 Utensilios para torneado interior

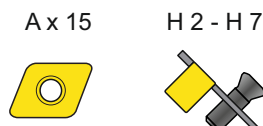
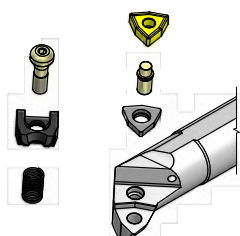
A...MWLNR/L

Utensili per tornitura interna



Codice Code	Dimensioni/ Dimensions					Inserto Insert	Parti di ricambio/ Spare parts				
	D	d	F	H	L						
A25R MWLNR/L 08	32	25	17	24	200	WNM..0804	C8008N	V8008	S8008P	P0601	CBR30
A32S MWLNR/L 08	40	32	22	31	250	WNM..0804	C8008N	V8008	S8008P	P0602	CBR30
A40T MWLNR/L 08	50	40	27	38	300	WNM..0804	C8008N	V8008	S8008P	P0602	CBR30

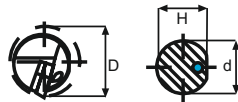
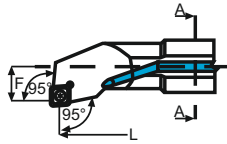
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125	CT4135	PT2320	PT4320	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	260	180	140	250		
	180-350	0,15	1-3	180	130	110	150		
	300-330	0,15	1-3	120	90	80	100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3				180		
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3				150		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	160-250	0,2	1-3				130		
	130-230	0,2	1-3				110		
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15	1-3						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2				30 40		



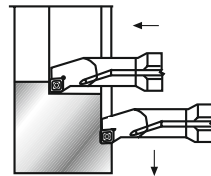
A...SCLCR/L

Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna

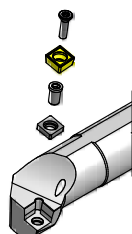


SEZ. A-A



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	D	d	F	H	L					
A08H SCLCR/L 06	10	8	5	7.50	100	CCM..0602	-	-	TX2506	BTX08
A10J SCLCR/L 06	12	10	7	9.50	110	CCM..0602	-	-	TX2506	BTX08
A12K SCLCR/L 06	16	12	9	11.50	125	CCM..0602	-	-	TX2506	BTX08
A16M SCLCR/L 09	20	16	11	15	150	CCM..09T3	-	-	TX3511	BTX15
A20Q SCLCR/L 09	25	20	13	19	180	CCM..09T3	-	-	TX3511	BTX15
A25R SCLCR/L 09	32	25	17	24	200	CCM..09T3	-	-	TX3511	BTX15
A25R SCLCR/L 12	32	25	17	24	200	CCM..1204	-	-	TX4014	BTX15
A32S SCLCR/L 12	40	32	22	31	250	CCM..1204	S8012P	B0609	TX4014	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	160			250	
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	150	120		180	
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	80		120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					220	130
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					200	110
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				200	150
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500
N RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						400
N NON METALLICI - PLASTICS		0,15	1-3						200
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					40	
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2					50	



A x 5



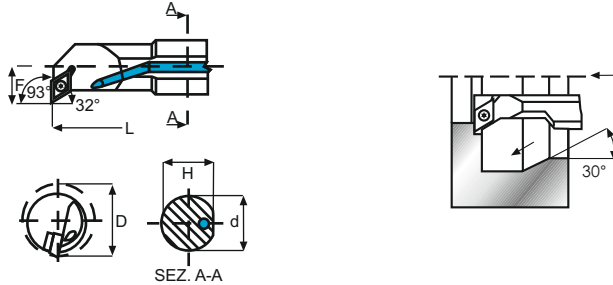
H2 - H7



A...SDUCR/L

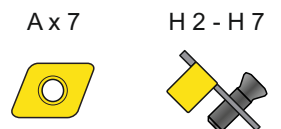
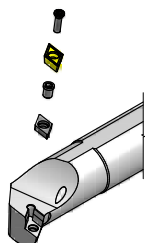
Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	D	d	F	H	L					
A10J SDUCR/L 07	13	10	8	9.50	110	DCM..0702	-	-	TX2506	BTX08
A12K SDUCR/L 07	16	12	9	11.50	125	DCM..0702	-	-	TX2506	BTX08
A16M SDUCR/L 07	20	16	11	15	150	DCM..0702	-	-	TX2506	BTX08
A20Q SDUCR/L 07	25	20	13	19	180	DCM..0702	-	-	TX2506	BTX08
A20Q SDUCR/L 11	25	20	13	19	180	DCM..11T3	-	-	TX3511	BTX15
A25R SDUCR/L 11	32	25	17	24	200	DCM..11T3	-	-	TX3511	BTX15
A32S SDUCR/L 11	40	32	22	31	250	DCM..11T3	S5511P	B0509	TX3513	BTX15

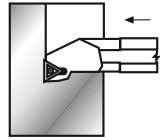
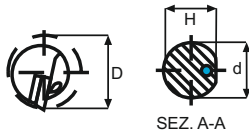
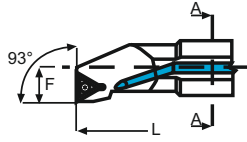
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4115	CT4125			PT4320	WT8010	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250		
	180-350	0,15	1-3	150	120			180		
	300-330	0,15	1-3	100	80			120		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140		
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					240	140	
	160-250	0,2	1-3					220	120	
	130-230	0,2	1-3					200	160	
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3						1500	
	90-110	0,15	1-3						400	
		0,15	1-3						200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					40		
	400-1050	0,1	1-2					50		



A...STUCR/L

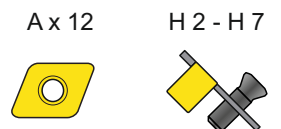
Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	D	d	F	H	L					
A12K STUCR/L 11	16	12	9	11.50	125	TCM..1102	-	-	TX2506	BTX08
A16M STUCR/L 16	20	16	11	15	150	TCM..16T3	-	-	TX3511	BTX15
A20Q STUCR/L 16	25	20	13	19	180	TCM..16T3	-	-	TX3511	BTX15
A25R STUCR/L 16	32	25	17	24	200	TCM..16T3	-	-	TX3511	BTX15
A32S STUCR/L 16	40	32	22	31	250	TCM..16T3	S6016P	B0509	TX3513	BTX15

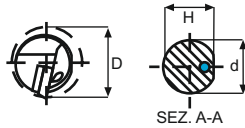
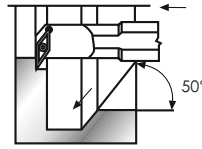
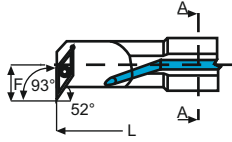
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250	
	180-350	0,15	1-3	150	120			180	
	300-330	0,15	1-3	100	80			120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					220 200 180	130 110 150
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15	1-3 1-3						1500 400
		0,15	1-3						200
	S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2 1-2					40 50



A...SVUBR/L - A...SVUCR/L

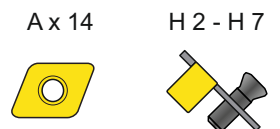
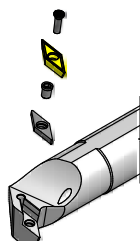
Internal turning tools
Outils de tournage intérieur
Werkzeuge für Innenbearbeitung
Utensilios para torneado interior

Utensili per tornitura interna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	D	d	F	H	L					
A25R SVUBR/L 16	32	25	17	24	200	VBM..1604	-	-	TX3511	BTX15
A32S SVUBR/L 16	40	32	22	31	250	VBM..1604	S3516P	B0509	TX3513	BTX15
A16M SVUCR/L 11	21	16	12	15	150	VCM..1103	-	-	TX2506	BTX08
A20Q SVUCR/L 11	25	20	13	19	180	VCM..1103	-	-	TX2506	BTX08
A25R SVUCR/L 16	32	25	17	24	200	VCM..1604	-	-	TX3511	BTX15
A32S SVUCR/L 16	40	32	22	31	250	VCM..1604	S3516P	B0509	TX3513	BTX15

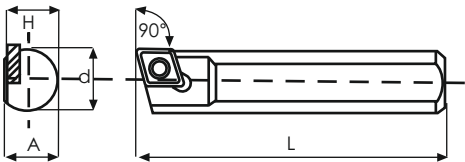
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	180			250	
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	150	120		180	
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	100	80		120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					220	130
	GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3				200	110
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				180	150
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500
	RAME E SUE LEGHE - COPPER	90-110	0,15	1-3					400
	NON METALLICI - PLASTICS		0,15	1-3					200
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					40	
	TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-2				50	



S...SEACL...90°

Boring tools components
Outils pour barres d'alésage
Bohrstangeneinsätze
Utensilios para escoriadura

Utensili per boreni



Codice Code	Dimensioni / Dimensions				Inserto Insert	Parti di ricambio / Spare parts	
	d	H	A	L			
S08X SEACL 06	08	6.5	7.4	35	ECM..0602	TX2506	BTX08
S10C SEACL 06	10	8	9	50	ECM..0602	TX2506	BTX08
S12D SEACL 08	12	10	11	60	ECM..0803	TX3007	BTX08
S16G SEACL 08	16	13	15	90	ECM..0803	TX3007	BTX08

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4125			PD4325			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160			200			
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	120			150		
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	80			100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	100			120			
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3				180			
	GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3				150		
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				130		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
	RAME E SUE LEGHE - COPPER	90-110	0,15	1-3						
	NON METALLICI - PLASTICS		0,15	1-3						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3							
	TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-3						



B x 6



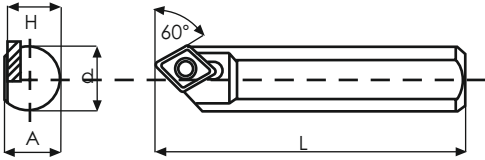
H 2 - H 7



S...SEECL...60°

Boring tools components
Outils pour barres d'alésage
Bohrstangeneinsätze
Utensilios para escoriadura

Utensili per boreni



Codice Code	Dimensioni / Dimensions				Inserto Insert	Parti di ricambio / Spare parts	
	d	H	A	L			
S08X SEECL 06	08	6.5	7.4	35	ECM..0602	TX2506	BTX08
S10C SEECL 06	10	8	9	50	ECM..0602	TX2506	BTX08
S12D SEECL 08	12	10	11	60	ECM..0803	TX3007	BTX08
S16G SEECL 08	16	13	15	90	ECM..0803	TX3007	BTX08

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min			
				CT4125		PD4325	
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160		200	
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	120		150
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	80		100
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	100		120	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3			180	
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3			150	
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3			130
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3				
N RAME E SUE LEGHE - COPPER	90-110	0,15	1-3				
S NON METALLICI - PLASTICS		0,15	1-3				
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3				
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-3				



B x 6



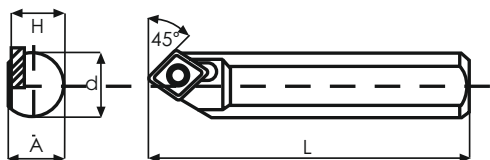
H 2 - H 7



S...SEDCL...45°

Boring tools components
Outils pour barres d'alésage
Bohrstangeneinsätze
Utensilios para escoriadura

Utensili per boreni



Codice Code	Dimensioni / Dimensions				Inserto Insert	Parti di ricambio / Spare parts	
	d	H	A	L			
S08X SEDCL 06	08	6.5	7.4	35	ECM..0602	TX2506	BTX08
S10C SEDCL 06	10	8	9	50	ECM..0602	TX2506	BTX08
S12D SEDCL 08	12	10	11	60	ECM..0803	TX3007	BTX08
S16G SEDCL 08	16	13	15	90	ECM..0803	TX3007	BTX08

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min						
				CT4125				PD4325		
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160				200		
	ACCIAIO LEGATO - ALLOY STEEL	180-350	0,15	1-3	120			150		
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330	0,15	1-3	80			100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	100				120		
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					180		
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3					150		
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3				130		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
N RAME E SUE LEGHE - COPPER	90-110	0,15	1-3							
	NON METALLICI - PLASTICS		0,15	1-3						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3							
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-3							



B x 6

H 2 - H 7





Utensili per Filettatura

Tools for threading

Outils pour filetage

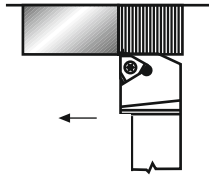
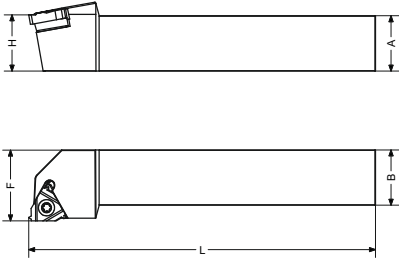
Werkzeuge für gewindeschneiden

Utensilios para fileteado

SER/L

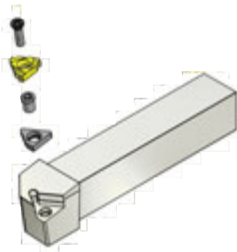
Tools for external threading
 Outils pour filetage extérieur
 Werkzeuge zum Aussengewindeschneiden
 Utensilios para fileteado exterior

Utensili per filettatura esterna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	F	H	B	A	L					
SER/L1616 H 16	20	16	16	16	100	16ER/L	S6016R/L	B0509	TX3513	BTX15
SER/L2020 K 16	25	20	20	20	125	16ER/L	S6016R/L	B0509	TX3513	BTX15
SER/L2525 M 16	32	25	25	25	150	16ER/L	S6016R/L	B0509	TX3513	BTX15
SER/L3225 P 16	32	32	25	32	170	16ER/L	S6016R/L	B0509	TX3513	BTX15
SER/L2525 M 22	32	25	25	25	150	22ER/L	S6022R/L	B0609	TX4014	BTX15
SER/L3232 P 22	40	32	32	32	170	22ER/L	S6022R/L	B0609	TX4014	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min			
				PT4320			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300			150			
	ACCIAIO LEGATO - ALLOY STEEL	180-350			130		
	ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330			100		
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230			80			
K GHISA GRIGIA - GREY CAST IRON	120-260			130			
	GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250			110		
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230			90		
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130			400			
	RAME E SUE LEGHE - COPPER	90-110			300		
	NON METALLICI - PLASTICS						
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320			40			
	TITANIO E SUE LEGHE - TITANIUM	400-1050			50		



A x 16



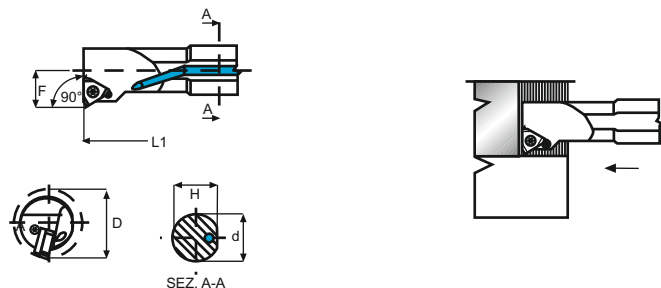
H2 - H7



Tools for internal threading
Outils pour filetage intérieur
Werkzeuge zum Innengewindeschneiden
Utensilios para fileteado interior

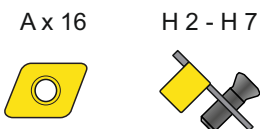
A...SIR/L

Utensili per filettatura interna



Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts			
	D	d	F	H	L					
A16M SIR/L16	19	16	10.6	15	150	16IR/L	-	-	TX3511	BTX15
A20Q SIR/L16	24	20	13.4	18	180	16IR/L	S6016R/L	B0509	TX3513	BTX15
A25R SIR/L16	29	25	16.3	23	200	16IR/L	S6016R/L	B0509	TX3513	BTX15
A32S SIR/L16	36	32	19.6	30	250	16IR/L	S6016R/L	B0509	TX3513	BTX15

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min			
				PT4320			
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300			150			
ACCIAIO LEGATO - ALLOY STEEL	180-350			130			
ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	300-330			100			
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230			80			
GHISA GRIGIA - GREY CAST IRON	120-260			130			
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250			110			
GHISA MALLEABILE - MALLEABLE CAST IRON	130-230			90			
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130			400			
RAME E SUE LEGHE - COPPER	90-110			300			
NON METALLICI - PLASTICS							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320			40			
TITANIO E SUE LEGHE - TITANIUM	400-1050			50			





Set Utensili per Tornitura Interna

Internal turning tools set

Jeu d'outils de tournage intérieur

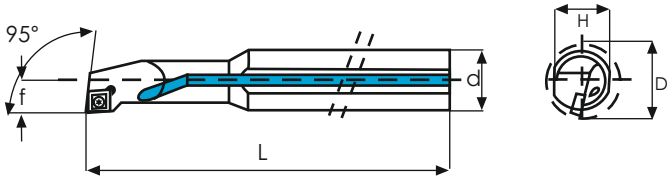
Werkzeugset für innenbearbeitung

Set de utensilios para torneado interior

SETACL0816R/L

Internal turning tools set
 Jeu d'outils de tournage intérieur
 Werkzeugset für Innenbearbeitung
 Set de utensilios para torneado interior

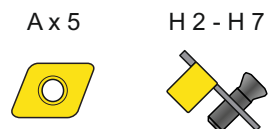
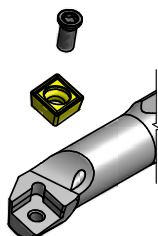
Set utensili per tornitura interna per inserto CCMT0602..



Composizione set tornitura interna Internal turning set	
N.1 A0608H SCLCR/L 06	Utensile/Internal turning tool
N.1 A0810J SCLCR/L 06	Utensile/Internal turning tool
N.1 A1012K SCLCR/L 06	Utensile/Internal turning tool
N.1 A1216M SCLCR/L 06	Utensile/Internal turning tool
N.1 BTX08	Chiave/Torx key

Codice Code	Dimensioni/ Dimensions					Inserto Insert	Parti di ricambio/ Spare parts	
	D	d	f	H	L			
A0608H SCLCR/L 06	8.5	8	4	7	100	CCM..0602	TX2505	BTX08
A0810J SCLCR/L 06	12	10	6	9	110	CCM..0602	TX2505	BTX08
A1012K SCLCR/L 06	14	12	7	111	125	CCM..0602	TX2505	BTX08
A1216M SCLCR/L 06	18	16	9	15	150	CCM..0602	TX2505	BTX08

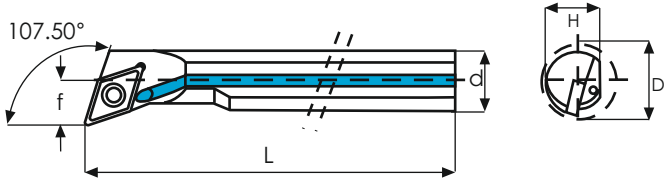
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250	
	180-350	0,15	1-3	150	120			180	
	300-330	0,15	1-3	100	80			120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260	0,25	1-3					220	130
	160-250	0,2	1-3					200	110
	130-230	0,2	1-3					200	150
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130	0,2	1-3						1500
	90-110	0,15	1-3						400
		0,15	1-3						200
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320	0,1	1-2					40	
	400-1050	0,1	1-2					50	



SETADQ1016R/L

Internal turning tools set
 Jeu d'outils de tournage intérieur
 Werkzeugset für Innenbearbeitung
 Set de utensilios para torneado interior

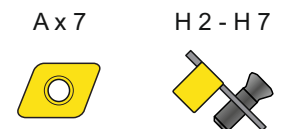
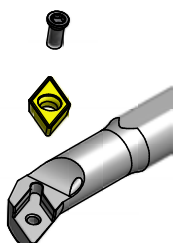
Set utensili per tornitura interna per inserto DCMT0702



Composizione set tornitura interna Internal turning set	
N.1 A0810J SDQCR/L07	Utensile/Internal turning tool
N.1 A1012K SDQCR/L07	Utensile/Internal turning tool
N.1 A1216M SDQCR/L07	Utensile/Internal turning tool
N.1 BTX08	Chiave/ Torx key

Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts	
	D	d	f	H	L			
A0810J SDQCR/L 07	12.5	10	7	9	110	DCM..0702	TX2505	BTX08
A1012K SDQCR/L 07	15.5	12	8	11	125	DCM..0702	TX2505	BTX08
A1216M SDQCR/L 07	19.5	16	9	15	150	DCM..0702	TX2505	BTX08

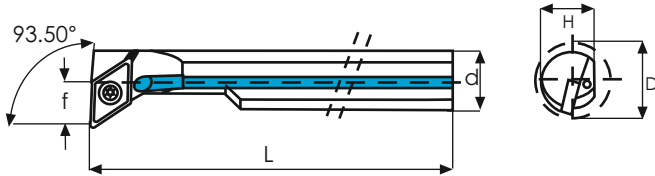
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL ACCIAIO LEGATO - ALLOY STEEL ACCIAIO ALTO LEGATO - HIGH ALLOY STEEL	120-300	0,2	1-3	250	160			250	
	180-350	0,15	1-3	150	120			180	
	300-330	0,15	1-3	100	80			120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON GHISA SFEROIDALE - SPHEROIDAL CAST IRON GHISA MALLEABILE - MALLEABLE CAST IRON	120-260 160-250 130-230	0,25 0,2 0,2	1-3 1-3 1-3					240 220 200	140 120 160
N ALLUMINIO E SUE LEGHE - ALUMINIUM RAME E SUE LEGHE - COPPER NON METALLICI - PLASTICS	60-130 90-110	0,2 0,15 0,15	1-3 1-3 1-3					1500 400 200	
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY TITANIO E SUE LEGHE - TITANIUM	200-320 400-1050	0,1 0,1	1-2 1-2					40 50	



SETADU1016R/L

Internal turning tools set
 Jeu d'outils de tournage intérieur
 Werkzeugset für Innenbearbeitung
 Set de utensilios para torneado interior

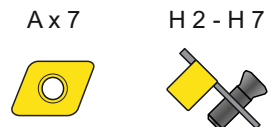
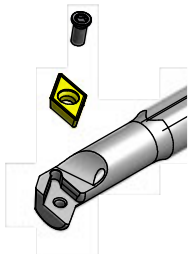
Set utensili per tornitura interna per inserto DCMT0702..



Composizione set tornitura interna Internal turning set	
N.1 A0810J SDUCR/L 07	Utensile/Internal turning tool
N.1 A1012K SDUCR/L 07	Utensile/ Internal turning tool
N.1 A1216M SDUCR/L 07	Utensile/ Internal turning tool
N.1 BTX08	Chiave/ Torx key

Codice Code	Dimensioni/ Dimensions					Inserto Insert	Parti di ricambio/ Spare parts	
	D	d	f	H	L			
A0810J SDUCR/L 07	12.5	10	7	9	110	DCM..0702	TX2505	BTX08
A1012K SDUCR/L 07	15.5	12	8	11	125	DCM..0702	TX2505	BTX08
A1216M SDUCR/L 07	19.5	16	9	15	150	DCM..0702	TX2505	BTX08

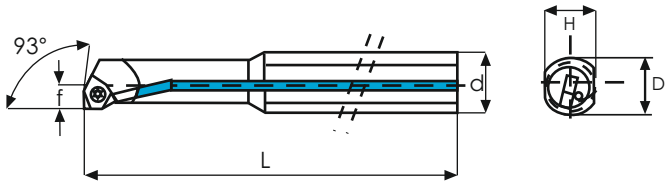
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio - Cutting Speed - Vc m/min					
				CT4115	CT4125			PT4320	WT8010
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	250	160			250	
	180-350	0,15	1-3	150	120			180	
	300-330	0,15	1-3	100	80			120	
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3		130			140	
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3					240	140
	160-250	0,2	1-3					220	120
	130-230	0,2	1-3					200	160
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3						1500
	90-110	0,15	1-3						400
	NON METALLICI - PLASTICS		0,15	1-3					200
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-2					40	
	400-1050	0,1	1-2					50	



SETAWU0610R/L

Internal turning tools set
 Jeu d'outils de tournage intérieur
 Werkzeugset für Innenbearbeitung
 Set de utensilios para torneado interior

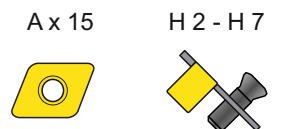
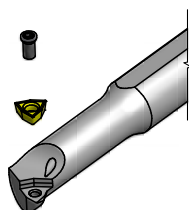
Set utensili per tornitura interna per inserto WCGT0201..



Composizione set tornitura interna Internal turning set	
N.1 A0508H SWUCR/L 02	Utensile/Internal turning tool
N.1 A0608H SWUCR/L 02	Utensile/Internal turning tool
N.1 A0810J SWUCR/L 02	Utensile/Internal turning tool
N.1 BTX06	Chiave/ Torx key

Codice Code	Dimensioni/ Dimensions					Inserto Insert	Parti di ricambio/ Spare parts	
	D	d	f	H	L			
A0508H SWUCR/L 02	5.8	8	2.9	7	100	WCGT0201	TX2005	BTX06
A0608H SWUCR/L 02	7.8	8	3.9	7	100	WCGT0201	TX2005	BTX06
A0810J SWUCR/L 02	9.8	10	4.9	9	110	WCGT0201	TX2005	BTX06

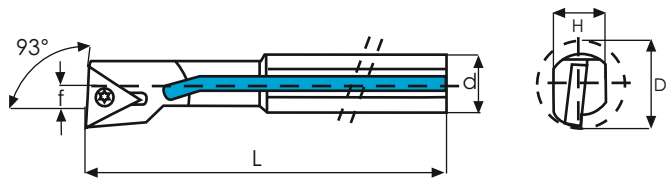
MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio —Cutting Speed —Vc m/min						
				CT4125						
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160						
	180-350	0,15	1-3	120						
	300-330	0,15	1-3	80						
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	120						
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3							
K GHISA SFEROIDALE - SPHEROIDAL CAST IRON	160-250	0,2	1-3							
	GHISA MALLEABILE - MALLEABLE CAST IRON	130-230	0,2	1-3						
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
N RAME E SUE LEGHE - COPPER	90-110	0,15	1-3							
NON METALLICI - PLASTICS		0,15	1-3							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3							
S TITANIO E SUE LEGHE - TITANIUM	400-1050	0,1	1-3							



SETATU0812R/L

Internal turning tools set
 Jeu d'outils de tournage intérieur
 Werkzeugset für Innenbearbeitung
 Set de utensilios para torneado interior

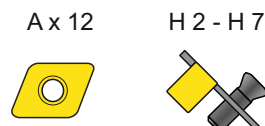
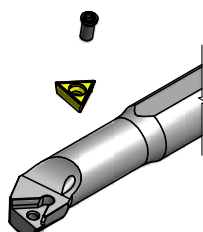
Set utensili per tornitura interna per inserto TCMT0601..



Composizione set tornitura interna Internal turning set	
N.1 A0608H STUCR/L 06	Utensile/ Internal turning tool
N.1 A0810J STUCR/L 06	Utensile/ Internal turning tool
N.1 A1012K STUCR/L 06	Utensile/ Internal turning tool
N.1 BTX06	Chiave/ Torx key

Codice Code	Dimensioni / Dimensions					Inserto Insert	Parti di ricambio / Spare parts	
	D	d	f	H	L			
A0608H STUCR/L 06	8.5	8	4.5	7	100	TCMT0601	TX2005	BTX06
A0810J STUCR/L 06	10	10	7.5	9	110	TCMT0601	TX2005	BTX06
A1012K STUCR/L 06	12	12	8.5	11	125	TCMT0601	TX2005	BTX06

MATERIALI - MATERIALS	HB	fz (mm)	ap (mm)	Velocità di Taglio —Cutting Speed —Vc m/min						
				CT4125						
P ACCIAIO NON LEGATO - NOT ALLOY STEEL	120-300	0,2	1-3	160						
	180-350	0,15	1-3	120						
	300-330	0,15	1-3	80						
M INOX AUSTENITICO - DUPLEX - STAINLESS STEEL	180-230	0,1	1-3	120						
K GHISA GRIGIA - GREY CAST IRON	120-260	0,25	1-3							
	160-250	0,2	1-3							
	130-230	0,2	1-3							
N ALLUMINIO E SUE LEGHE - ALUMINIUM	60-130	0,2	1-3							
	90-110	0,15	1-3							
		0,15	1-3							
S LEGHE RESIST. AL CALORE - HIGH TEMP. ALLOY	200-320	0,1	1-3							
	400-1050	0,1	1-3							





Inserti - Dati Tecnici

Inserts - Technical Data

Plaquettes - Données Techniques

Wendeschneidplatten - Technischen Daten

Insertos - Datos Tecnicos

Chiave dei codici degli inserti tornitura

Insert code key

Code d'identification des inserts

Kennzeichnungscode für Wendenplatten

Código de identificación de los insertos

C	N	M	G	12	04	08
1	2	3	4	5	6	7

1. Forma dell'inserto - Shape of insert						
80° C	55° D	R	S	T	35° V	80° W

2. Angolo di spoglia inferiore dell'inserto Relief angles			
5° B	7° C	0° N	11° P

3. Tolleranze \pm su s e iC/iW - Tolerance		
Classes	iC/iW	
G	$\pm 0,025$	
M $\pm 0,13$	$\pm 0,05 - \pm 0,15^{1)}$	
U	$\pm 0,08 - \pm 0,25^{1)}$	
1) Varia in funzione della dimensione del iC. Vedere la tabella sotto riportata. 1) It changes according the iC dimensions. See below.		
Cerchio inscritto Circle	Classe di tolleranza Class of tolerance	
iC mm	M	U
3,97	$\pm 0,05$	$\pm 0,08$
5,0		
5,56		
6,0		
6,35		
8,0		
9,525	$\pm 0,08$	$\pm 0,13$
10,0		
12,0		
12,7	$\pm 0,10$	$\pm 0,18$
15,875		
16,0		
19,05		
20,0		
25,0	$\pm 0,13$	$\pm 0,25$
25,4		
31,75		
32,0	$\pm 0,15$	$\pm 0,25$

4. Tipo di inserto - Type of insert	
A	G
M	T

5. Dimensione dell'inserto - Insert dimensions			
l mm:			
06-19	07-15	06-12	09-19
06-22	11-16	06-08	

6. Spessore dell'inserto, S mm - Thickness	
	01 s = 1,59
	T1 s = 1,98
	02 s = 2,38
	03 s = 3,18
	T3 s = 3,97
	04 s = 4,76
	05 s = 5,56
	06 s = 6,35
	07 s = 7,94
	09 s = 9,52
	10 s = 10,00
	12 s = 12,00

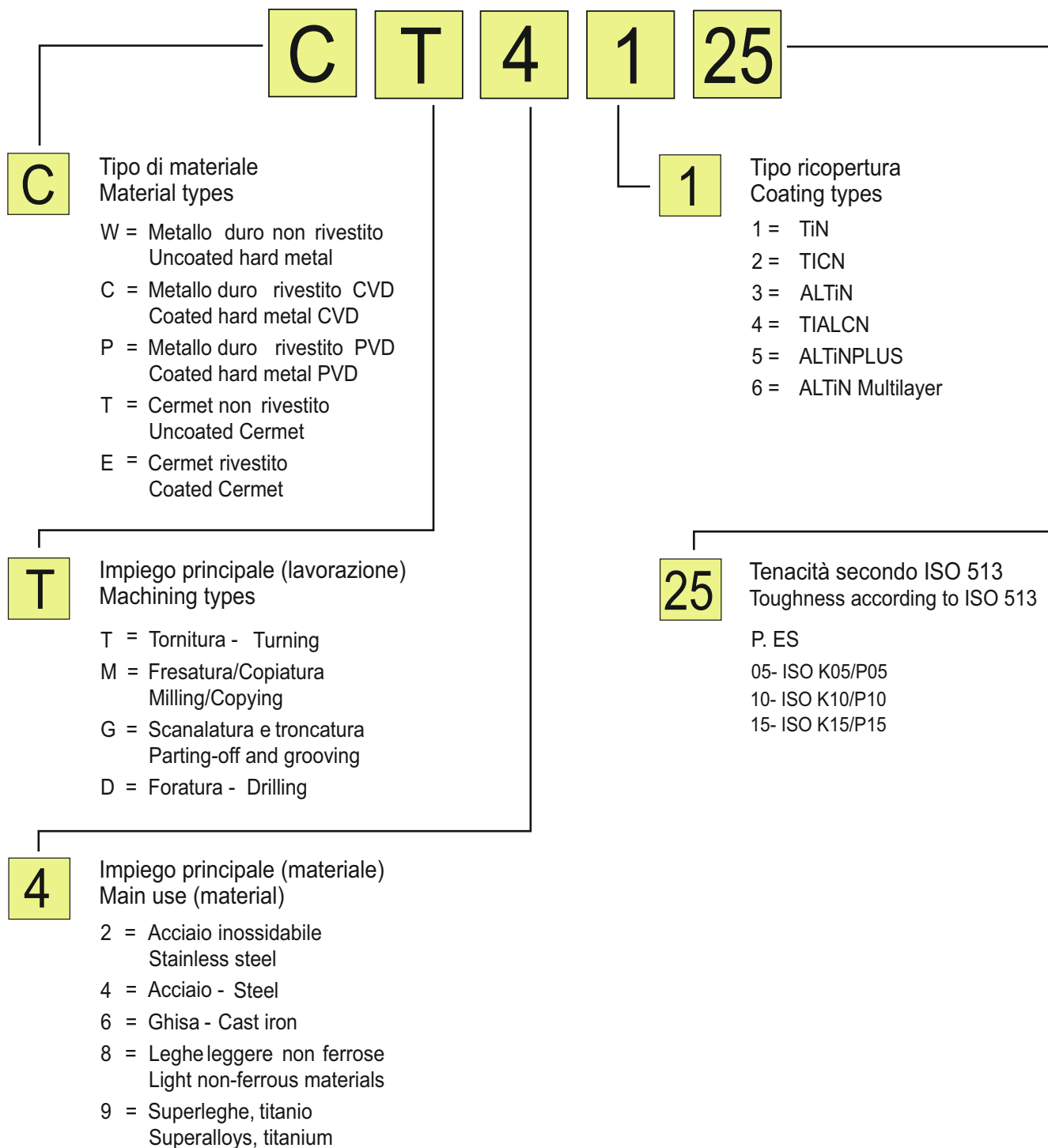
7. Raggio di punta - Radius											
	<table border="0"> <tr> <td>04</td> <td>$r_\epsilon = 0,4$</td> </tr> <tr> <td>08</td> <td>$r_\epsilon = 0,8$</td> </tr> <tr> <td>12</td> <td>$r_\epsilon = 1,2$</td> </tr> <tr> <td>16</td> <td>$r_\epsilon = 1,6$</td> </tr> <tr> <td>24</td> <td>$r_\epsilon = 2,4$</td> </tr> </table>	04	$r_\epsilon = 0,4$	08	$r_\epsilon = 0,8$	12	$r_\epsilon = 1,2$	16	$r_\epsilon = 1,6$	24	$r_\epsilon = 2,4$
04	$r_\epsilon = 0,4$										
08	$r_\epsilon = 0,8$										
12	$r_\epsilon = 1,2$										
16	$r_\epsilon = 1,6$										
24	$r_\epsilon = 2,4$										
	<p>Raggio di punta consigliato come scelta prioritaria : Recommended radius :</p> <p>Finitura - Finishing 04 Lavorazione media - Medium machining 08 Sgrossatura - Roughing 08/12</p>										

Informazioni tecniche

Technical hints

Il nuovo sistema di designazione Comand delle qualità si basa su un codice semplice ed internazionale che permette di scegliere il materiale da taglio in base alle norme ISO.

The new Comand designation system constitutes a simple, internationally comprehensible key. according to ISO standards, it describes the cuttin material in application-oriented way.










Qualità - Qualities

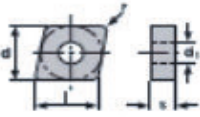
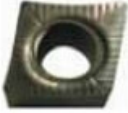


CODE	DIN ISO 513		Materiale / Material					Indicazioni Uso	Indications Use	
			ACCIAI STEELS P	ACCIAI INOX STAINLESS STEELS M	GHISA CAST IRON K	LEGHE IN ALLUMINIO ALUMINIUM N	RESISTENTI AL CALORE HEAT RESISTANT S			MATERIALI TEMPRATI HARDENED H
CT4115	HC	P10	●		●				Grado ideale per la massima velocità di taglio con tornitura da leggera a media.	Grade for highest cutting speeds for fine to medium turning.
CT4125	HC	P25 M25	●	●					Qualità principale per la tornitura di acciaio ed acciai inossidabili leggermente trucioli con velocità di taglio medie, anche nel taglio interrotto.	Main grade for machining steel materials and easily machinable stainless steels at medium cutting speeds, including interrupted cutting work.
CT4135	HC	P35 M35	●	●					Grado ideale per la tornitura dell'acciaio fuso con velocità di taglio medio-basse. Adatto per acciai inossidabili.	Main grade for turning of cast steel for medium to low speeds. Suitable also for turning of stainless steels.
PT2320	HC	P20 M20	●	●					Tipo principale per la tornitura di acciai inox austenitici a media e alta velocità di taglio. Applicazione ampliata superleghe.	Main grade for turning of austenitic stainless steels at medium to high cutting speeds. Applicable also for super alloys.
PT4320	HC	P20			●	●			Grado ideale per la tornitura dell'acciaio fuso con velocità di taglio medio-alte. Adatto per acciai inossidabili e lavorazione di materiali GG GGG (ghise grige).	Main grade for turning of cast steel for medium to high speeds. Suitable also for turning of stainless steels and working GG and GGG materials (grey cast iron).
WT8010	HW	K10 M10	●		●	●			Qualità ideale per la lavorazione di materiali in alluminio e di metalli non ferrosi, per la finitura di acciai inossidabili e di ghisa grigia.	The ideal grade for working aluminium materials and non-ferrous metals, also for finish machining of stainless steels and grey cast iron.

- Applicazione consigliata -Recommended application
- Applicazione possibile -Possible application

Rompitrucioli - *Chip breakers*

CODE	UTILIZZO			PARAMETRI										CARATTERISTICHE	QUALITIES		
	Finitura Finishing	Media Medium	Sgrossatura Roughing	Avanzamento (mm/giro)													
				0.04	0.06	0.10	0.16	0.25	0.40	0.63	1.00	1.60	2.50			4.00	6.30
				Profondità di taglio (mm)													
			0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13.0		
CA 	•	•		<p>0.08~0.6</p> <p>0.25~8.0</p>										Comand Alluminio - Adatto anche alla finitura di acciai inossidabili - Elevato angolo di spoglia e bassi sforzi di taglio sia nel taglio continuo che in quello interrotto	Comand Aluminium - Suitable for finishing of stainless steel - High clearance angle and low effort during continuous and interrupted cut		
CSF 	•			<p>0.05~0.25</p> <p>0.25~2.5</p>										Comand S-ISO Sistema Finitura - Eccellente controllo del truciolo alle basse profondità e ai bassi avanzamenti - Adatto anche alla finitura	Comand S-ISO System Finishing - Excellent control of the chip breaker at low depth and speed - Suitable for finishing		
CSM 		•		<p>0.16~0.46</p> <p>0.5~6.0</p>										Comand S-ISO Sistema Medio - Eccellente controllo del truciolo alle basse profondità e ai bassi avanzamenti	Comand S-ISO System Medium - Excellent control of the chip breaker at low depth and speed		
CM 		•		<p>0.05~0.20</p> <p>0.8~5.0</p>										Comand Media - Formazione controllata del truciolo - Tagliente robusto con buone prestazioni anche nel taglio interrotto	Comand Medium - Controlled build-up of chip breaker - Sturdy cutting edge with high performance in the interrupted cut		
CMR 		•	•	<p>0.15~0.50</p> <p>1.0~6.0</p>										Comand Media/Sgross. - Preferibilmente per ghise - Elevate profondità di taglio ed elevati avanzamenti - Indicato nel taglio interrotto	Comand Medium/Roug. - Preferable for cast iron - High depth of cutting and high feed rate - Recommended in the interrupted cut		
CX 		•	•	<p>0.16~0.40</p> <p>1.0~6.0</p>										Comand Inox - Formazione controllata del truciolo senza incrudimenti	Comand Stainless steel - Controlled build-up of chip breaker without strain hardening		
CR 			•	<p>0.40~1.60</p> <p>2.0~12.0</p>										Comand Sgrossatura - Formazione controllata del truciolo - Tagliente molto robusto	Comand Roughing - Controlled build-up of chip breaker - Sturdy cutting edge		

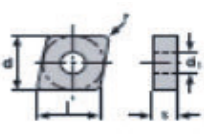




Inserti - Inserts

CC	Materiale Material	Acciaio - Steel					P		•	•						
		Acciaio inox - Stainless steel					M			•						
		Ghisa - Cast iron					K		•			•				
		Leghe leggere - Aluminium alloys					N					•	•			
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	CCGT 060202-CA	6.50	6.35	2.38	2.80	0.2						•				
	CCGT 060204-CA	6.50	6.35	2.38	2.80	0.4						•				
	CCGT 09T304-CA	9.70	9.52	3.97	4.40	0.4						•				
	CCGT 09T308-CA	9.70	9.52	3.97	4.40	0.8						•				
	CCGT 120404-CA	12.90	12.70	4.76	5.50	0.4						•				
	CCGT 120408-CA	12.90	12.70	4.76	5.50	0.8						•				
	CCMT 060204-CSF	6.50	6.35	2.38	2.80	0.4		◦	•		•					
	CCMT 060208-CSF	6.50	6.35	2.38	2.80	0.8			•		•					
	CCMT 09T304-CSF	9.70	9.52	3.97	4.40	0.4		◦	•		•					
	CCMT 09T308-CSF	9.70	9.52	3.97	4.40	0.8		◦	•		•					
	CCMT 120404-CSF	12.90	12.70	4.76	5.50	0.4		◦	•							
	CCMT 120408-CSF	12.90	12.70	4.76	5.50	0.8		◦	•							
	CCMT 09T304-CSM	9.70	9.52	3.97	4.40	0.4			•							
	CCMT 09T308-CSM	9.70	9.52	3.97	4.40	0.8			•		•					
	CCMT 120404-CSM	12.90	12.70	4.76	5.50	0.4			•							
	CCMT 120408-CSM	12.90	12.70	4.76	5.50	0.8			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request





Inserti - Inserts

CN	Materiale Material	Acciaio - Steel					P	•		•	•					
		Acciaio inox - Stainless steel					M	•		•	•					
		Ghisa - Cast iron					K					•				
		Leghe leggere - Aluminium alloys					N					•				
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	CNMG 090304-CM	9.70	9.52	3.18	3.18	0.4			•							
	CNMG 090308-CM	9.70	9.52	3.18	3.18	0.8			•							
	CNMG 120404-CM	12.90	12.70	4.76	5.20	0.4			•							
	CNMG 120408-CM	12.90	12.70	4.76	5.20	0.8			•							
	CNMG 120408-CMR	12.90	12.70	4.76	5.20	0.8			•	•	•					
	CNMG 120412-CMR	12.90	12.70	4.76	5.20	1.2			•	•	•					
	CNMG 160612-CMR	16.10	15.87	6.35	6.35	1.2			•	•						
	CNMG 160616-CMR	16.10	15.87	6.35	6.35	1.6			•	•						
	CNMG 190612-CMR	19.30	19.05	6.35	7.93	1.2			•	•						
	CNMG 190616-CMR	19.30	19.05	6.35	7.93	1.6			•	•						
	CNMG 120408-CX	12.90	12.70	4.76	5.20	0.8	•									
	CNMM 120412-CR	12.90	12.70	4.76	5.20	1.2			•							
	CNMM 160616-CR	16.10	15.87	6.35	6.35	1.6			•							
	CNMM 190616-CR	19.30	19.05	6.35	7.93	1.6			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request






Inserti - Inserts

DC	Materiale Material	Acciaio - Steel					P		•	•			•			
		Acciaio inox - Stainless steel					M			•			•			
		Ghisa - Cast iron					K		•			•				
		Leghe leggere - Aluminium alloys					N					•	•			
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	DCGT 070202-CA	7.75	6.35	2.38	3.75	0.2						•				
	DCGT 070204-CA	7.75	6.35	2.38	3.75	0.4						•				
	DCGT 11T304-CA	11.60	9.52	3.97	4.40	0.4						•				
	DCGT 11T308-CA	11.60	9.52	3.97	4.40	0.8						•				
	DCMT 070202-CSF	7.70	6.35	2.38	3.75	0.2		◦	•							
	DCMT 070204-CSF	7.70	6.35	2.38	3.75	0.4		◦	•		•					
	DCMT 11T304-CSF	11.60	9.52	3.97	4.40	0.4		◦	•		•					
	DCMT 11T308-CSF	11.60	9.52	3.97	4.40	0.8		◦	•		•					
	DCMT 070202-CSM	7.70	6.35	2.38	3.75	0.2			•							
	DCMT 070204-CSM	7.70	6.35	2.38	3.75	0.4			•							
	DCMT 11T304-CSM	11.60	9.52	3.97	4.40	0.4			•							
	DCMT 11T308-CSM	11.60	9.52	3.97	4.40	0.8			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

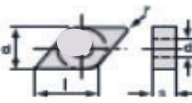

Inserti - Inserts




DN	Materiale Material	Acciaio - Steel					P	•		•	•					
		Acciaio inox - Stainless steel					M	•		•	•					
		Ghisa - Cast iron					K					•				
		Leghe leggere - Aluminium alloys					N					•				
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	DNMG 150604-CM	15.50	12.70	6.35	5.16	0.4			•							
	DNMG 150608-CM	15.50	12.70	6.35	5.16	0.8			•							
	DNMG 150604-CMR	15.50	12.70	6.35	5.16	0.4			•							
	DNMG 150608-CMR	15.50	12.70	6.35	5.16	0.8			•		•					
	DNMG 150612-CMR	15.50	12.70	6.35	5.16	1.2			•							
	DNMG 150604-CX	15.50	12.70	6.35	5.16	0.4	•									
	DNMG 150608-CX	15.50	12.70	6.35	5.16	0.8	•									
	DNMM 150612-CR	15.50	12.70	6.35	5.16	1.2			•	◦						

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

Inserti - Inserts

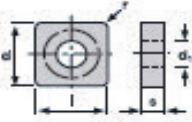



KN	Materiale Material	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet			
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020			
		Acciaio - Steel	P							•							
		Acciaio inox - Stainless steel	M							•							
		Ghisa - Cast iron	K									•					
		Leghe leggere - Aluminium alloys	N									•					
Resistenti al calore - Heat resistant	S																
Materiali temprati - Hardened material	H																
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet			
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020			
	KNUX 160405-L11	16.00	9.52	4.76	-	0.5			•								
	KNUX 160410-L11	16.00	9.52	4.76	-	1.0			•								
	KNUX 160405-R11	16.00	9.52	4.76	-	0.5			•	•							
	KNUX 160410-R11	16.00	9.52	4.76	-	1.0			•								

RC	Materiale Material	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet			
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020			
		Acciaio - Steel	P							•			•				
		Acciaio inox - Stainless steel	M							•			•				
		Ghisa - Cast iron	K									•	•				
		Leghe leggere - Aluminium alloys	N									•	•				
Resistenti al calore - Heat resistant	S																
Materiali temprati - Hardened material	H																
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet			
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020			
	RCGT 0602M0-CA	-	6.00	2.38	2.80	-						•					
	RCGT 0803M0-CA	-	8.00	3.18	3.40	-						•					
	RCGT 1003M0-CA	-	10.00	3.18	4.00	-						•					
	RCGT 1204M0-CA	-	12.00	4.76	4.20	-						•					
	RCMT 0602M0-CM	-	6.00	2.38	2.80	-			•	•							
	RCMT 0803M0-CM	-	8.00	3.18	3.40	-			•	•							
	RCMT 1003M0-CM	-	10.00	3.18	4.00	-			•	•							
	RCMT 1204M0-CM	-	12.00	4.76	4.20	-			•	•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

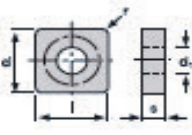




Inserti - Inserts

SC	Materiale Material	Acciaio - Steel	P												
		Acciaio inox - Stainless steel	M												
		Ghisa - Cast iron	K												
		Leghe leggere - Aluminium alloys	N												
		Resistenti al calore - Heat resistant	S												
		Materiali temprati - Hardened material	H												
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet	
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020	
SCGT...-CA 	SCGT 120408-CA	12.70	12.70	4.76	5.50	0.8						•			
SCMT...-CSF 	SCMT 09T304-CSF	9.52	9.52	3.97	4.40	0.4		◦	•						
	SCMT 120404-CSF	12.70	12.70	4.76	5.50	0.4		◦	•						
SCMT...-CSM 	SCMT 09T308-CSM	9.52	9.52	3.97	4.40	0.8			•						
	SCMT 120404-CSM	12.70	12.70	4.76	5.50	0.4			•						
	SCMT 120408-CSM	12.70	12.70	4.76	5.50	0.8			•						

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

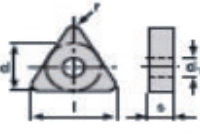



Inserti - Inserts

SN	Materiale Material	Acciaio - Steel					P	•		•	•					
		Acciaio inox - Stainless steel					M	•		•	•					
		Ghisa - Cast iron					K					•				
		Leghe leggere - Aluminium alloys					N					•				
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
SNMG...-CM 	SNMG 120404-CM	12.70	12.70	4.76	5.16	0.4			•							
	SNMG 120408-CM	12.70	12.70	4.76	5.16	0.8			•							
SNMG...-CMR 	SNMG 120408-CMR	12.70	12.70	4.76	5.16	0.8			•		•					
	SNMG 120412-CMR	12.70	12.70	4.76	5.16	1.2			•		•					
	SNMG 190612-CMR	19.05	19.05	6.35	7.93	1.2			•							
	SNMG 190616-CMR	19.05	19.05	6.35	7.93	1.6			•							
SNMG...-CX 	SNMG 120408-CX	12.70	12.70	4.76	5.16	0.8	•									
SNMM...-CR 	SNMM 120412-CR	12.70	12.70	4.76	5.16	1.2			•	○						
	SNMM 190616-CR	19.05	19.05	6.35	7.93	1.6			•	○						

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

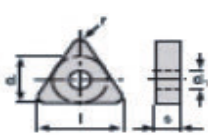




Inserti - Inserts

TC	Materiale Material	Acciaio - Steel					P									
		Acciaio inox - Stainless steel					M									
		Ghisa - Cast iron					K									
		Leghe leggere - Aluminium alloys					N									
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	TCGT 110204-CA	11.0	6.35	2.38	2.80	0.4						•				
	TCGT 16T304-CA	16.5	9.52	3.97	4.40	0.4						•				
	TCMT 060102-CSF	6.75	3.97	1.98	2.80	0.2			•							
	TCMT 110202-CSF	11.0	6.35	2.38	2.80	0.2			•							
	TCMT 110204-CSF	11.0	6.35	2.38	2.80	0.4			•		•					
	TCMT 16T304-CSF	16.5	9.52	3.97	4.40	0.4			•		•					
	TCMT 16T308-CSF	16.5	9.52	3.97	4.40	0.8			•		•					
	TCMT 110204-CSM	11.0	6.35	2.38	2.80	0.4			•							
	TCMT 110208-CSM	11.0	6.35	2.38	2.80	0.8			•							
	TCMT 16T304-CSM	16.5	9.52	3.97	3.40	0.4			•							
	TCMT 16T308-CSM	16.5	9.52	3.97	3.40	0.8			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

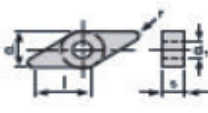




Inserti - Inserts

TN	Materiale Material	Acciaio - Steel					P	•	•	•	•					
		Acciaio inox - Stainless steel					M	•		•	•					
		Ghisa - Cast iron					K		•			•				
		Leghe leggere - Aluminium alloys					N					•				
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
TNMG...-CM 	TNMG 160404-CM	16.50	9.52	4.76	3.81	0.4		◦	•							
	TNMG 160408-CM	16.50	9.52	4.76	3.81	0.8		◦	•							
TNMG...-CMR 	TNMG160408-CMR	16.50	9.52	4.76	3.81	0.8			•	◦	•					
	TNMG160412-CMR	16.50	9.52	4.76	3.81	1.2			•	◦	•					
TNMG...-CX 	TNMM 160408-CX	16.50	9.52	4.76	3.81	0.4	•									
TNMM...-CR 	TNMM 160412-CR	16.50	9.52	4.76	3.81	1.2			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

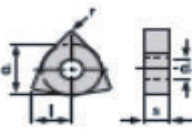




Inserti - Inserts

VB/VC	Materiale Material	Acciaio - Steel					P									
		Acciaio inox - Stainless steel					M									
		Ghisa - Cast iron					K									
		Leghe leggere - Aluminium alloys					N									
		Resistenti al calore - Heat resistant					S									
		Materiali temprati - Hardened material					H									
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	VBMT 160404-CSF	16.60	9.52	4.76	4.40	0.4			•		•					
	VBMT 160408-CSF	16.60	9.52	4.76	4.40	0.8			•		•					
	VCGT 110304-CA	11.10	6.35	3.18	2.80	0.4						•				
	VCGT 160404-CA	16.60	9.52	4.76	4.40	0.4						•				
	VCMT 110302-CSF	11.10	6.35	3.18	2.80	0.2			•							
	VCMT 110304-CSF	11.10	6.35	3.18	2.80	0.4			•							
	VCMT 160404-CSF	16.60	9.52	4.76	4.40	0.4			•		•					
	VCMT 160408-CSF	16.60	9.52	4.76	4.40	0.8			•		•					
	VCMT 160404-CSM	16.60	9.52	4.76	4.40	0.4			•							
	VCMT 160408-CSM	16.60	9.52	4.76	4.40	0.8			•							

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

- Disponibile
In stock
- A richiesta
On request

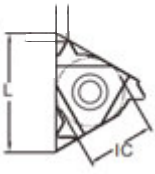

Inserti - Inserts

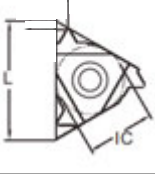

WN	Materiale Material	Acciaio - Steel					P	•	•	•	•				
		Acciaio inox - Stainless steel					M	•		•	•				
		Ghisa - Cast iron					K		•			•			
		Leghe leggere - Aluminium alloys					N					•			
		Resistenti al calore - Heat resistant					S								
		Materiali temprati - Hardened material					H								
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet	
		l	d	s	d ₁	r	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020	
	WNMG 080404-CM	8.60	12.70	4.76	5.16	0.4		◦	•						
	WNMG 080408-CM	8.60	12.70	4.76	5.16	0.8		◦	•						
	WNMG 080408-CMR	8.60	12.70	4.76	5.16	0.8			•	•	•				
	WNMG 080412-CMR	8.60	12.70	4.76	5.16	1.2			•	•					
	WNMG 080416-CMR	8.60	12.70	4.76	5.16	1.6			•	•					
	WNMG 080408-CX	8.60	12.70	4.76	5.16	0.8	•								
	WCGT 020102-CSF	3.97	2.10	1.70	2.30	0.2			•						

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application

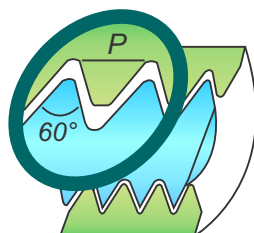
- Disponibile
In stock
- A richiesta
On request

Inserti per filettatura - Inserts for threading

ER...	Materiale Material	Acciaio - Steel		P												
		Acciaio inox - Stainless steel		M												
		Ghisa - Cast iron		K												
		Leghe leggere - Aluminium alloys		N												
		Resistenti al calore - Heat resistant		S												
		Materiali temprati - Hardened material		H												
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	P	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	16 ER P1,00	16.00	9.52			1,00					•					
	16 ER P1,25	16.00	9.52			1,25					•					
	16 ER P1,50	16.00	9.52			1,50					•					
	16 ER P1,75	16.00	9.52			1,75					•					
	16 ER P2,00	16.00	9.52			2,00					•					
	16 ER P2,50	16.00	9.52			2,50					•					
	16 ER P3,00	16.00	9.52			3,00					•					

IR...	Materiale Material	Acciaio - Steel		P												
		Acciaio inox - Stainless steel		M												
		Ghisa - Cast iron		K												
		Leghe leggere - Aluminium alloys		N												
		Resistenti al calore - Heat resistant		S												
		Materiali temprati - Hardened material		H												
	Codice di ordinazione Ordering code	Dimensioni - Size					HC ricoperti- coated					HW non ricoperti uncoated		HT Cermet		
		l	d	s	d ₁	P	PT2320	CT4115	CT4125	CT4135	PT4320	WT8020		TT9020		
	16 IR P1,00	16.00	9.52			1,00					•					
	16 IR P1,25	16.00	9.52			1,25					•					
	16 IR P1,50	16.00	9.52			1,50					•					
	16 IR P1,75	16.00	9.52			1,75					•					
	16 IR P2,00	16.00	9.52			2,00					•					
	16 IR P2,50	16.00	9.52			2,50					•					

- Applicazione consigliata
Recommended application
- Applicazione possibile
Possible application



- Disponibile
In stock
- A richiesta
On request

