



O.M.P.B.
TOOLS



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**Presentation For The
European Market**



OMPB TOOLS is a brand new on the market, born after years of experience of its founders in the field of mechanical processing.

We are specialized in design and production of tools and equipments for metalworkers companies.

Products and equipments for: milling, turning and drilling, designed to respond to the increasingly advanced market needs.

Standard or customized solutions, suitable for increase the production efficiency of each individual customer, tested daily in our productive reality.

**WE ARE COMMITTED TO
IMPROVE YOUR WORK!**





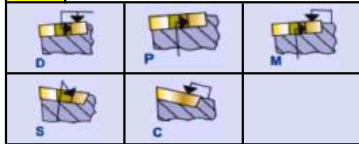
O.M.P.B.
TOOLS

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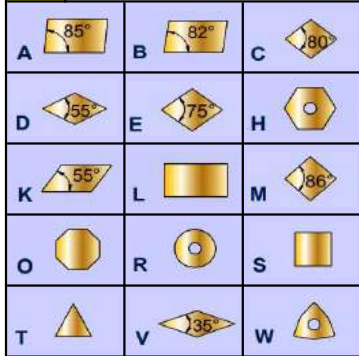
**T
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TOOLS DESIGNATION FOR EXTERNAL TURNING ACCORDING TO ISO

1 TYPE OF CLAMPING



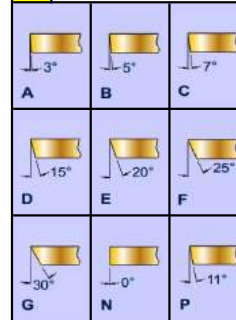
2 INSERT SHAPE



3 TYPE OF TOOL



4 RAKE ANGLES



5 DESIGN



D	C	L	N	R
1	2	3	4	5

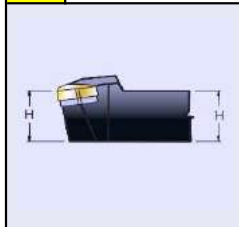
20	20
6	7

K
8

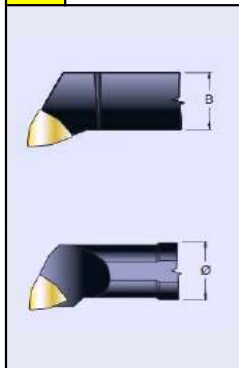
12
9

10

6 SHANK HEIGHT



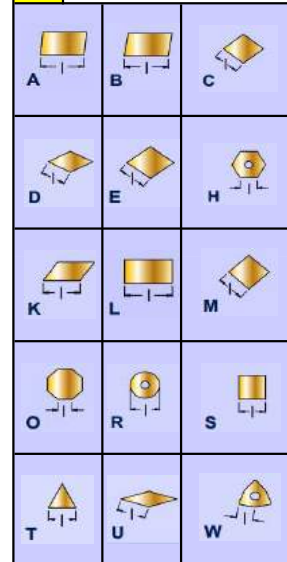
7 SHANK WIDTH



8 TOOL LENGTH

L1 mm	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
SPECIAL	X

9 CUTTING EDGE LENGTH



10 OPTIONAL ADDITIONAL DETAILS

TOOLS DESIGNATION FOR INTERNAL TURNING ACCORDING TO ISO

A	25	R	D	C	L	N	R	12	
11	7	8	1	2	3	4	5	9	10

11

S = Steel shank

A = Steel shank + coolant hole

B = Steel shank + anti-vibration device

C = Carbide shank with steel head

D = Steel shank + anti-vibration device + coolant hole

E = Carbide shank with steel head + coolant hole

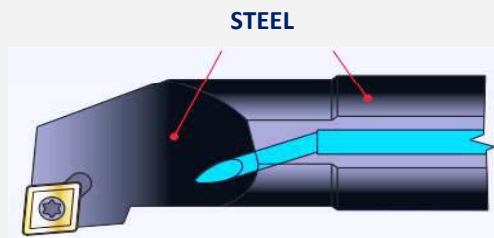
F = Carbide shank with steel head + anti-vibration device

G = Carbide shank with steel head + anti-vibration device + coolant hole

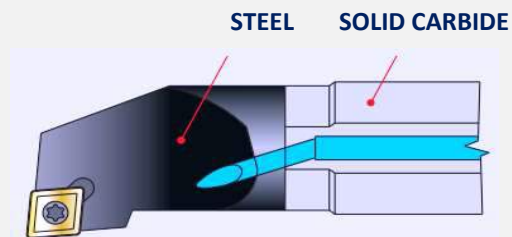
H = Heavy metal shank

J = Heavy metal shank + coolant hole

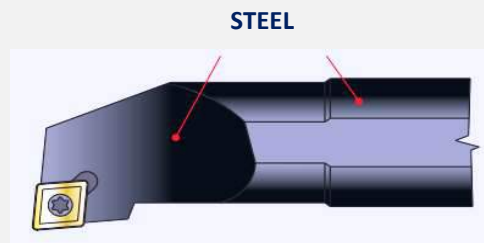
A...















E...










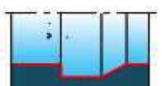



S...



CHOICE OF INSERT SHAPE BASED ON TYPE OF MACHINING

EXTERNAL TURNING		INSERT SHAPE							
		C	D	K	R	S	T	V	W
									
TYPE OF MACHINING	Axial Turning / Facing 	●	○	○	○	○	○	○	○
	Profiling 		●	○	○		○	○	
	Facing 	○	○	○	○	●	○		○
	Plunge turning 				●		○		

INTERNAL TURNING		INSERT SHAPE							
		C	D	K	R	S	T	V	W
									
MACHINING	Axial Turning / Facing 	○	○		○	○	●		○
	Profiling 		●	●			○	○	
	Facing 	●	○		○		○		○

● RECOMMENDED SHAPE

○ POSSIBLE SHAPE

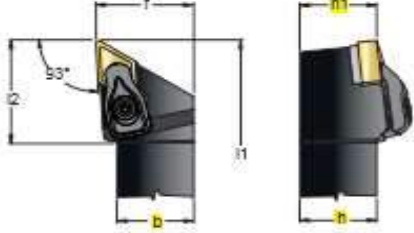
External Turning Tools

DCLNR/L						INSERTS	
95°						Right Hand Shown	
						CNMA CNMG CNMM	
INSERTS	C32	H39	H42	H52	H53		
	H55	H56	H62	H63	L57Q		
Item	h=h1	b	f	l1	l2		
DCLNR/L 2020 K 12	20	20	25	125	30		
DCLNR/L 2525 M 12	25	25	32	150	33		
DCLNR/L 3232 P 12	32	32	40	170	34		
DCLNR/L 3232 P 19	32	32	40	170	40		

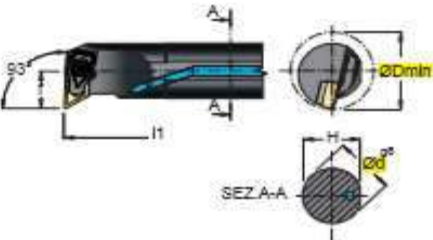
Internal Turning Tools

A...DCLNR/L						INSERTS	
95°						Right Hand Shown	
						CNMA CNMG CNMM	
INSERTS	C32	H39	H42	H52	H53		
	H55	H56	H62	H63	L57Q		
Item	øDmin	ød	f	H	l1		
A25R DCLNR/L 12	32	25	17	24	200		
A32S DCLNR/L 12	40	32	22	31	250		
A40T DCLNR/L 12	50	40	27	38	300		
A50U DCLNR/L 12	63	50	35	48	350		

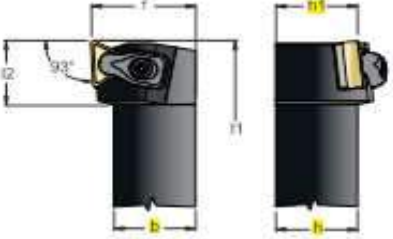
External Turning Tools

DDJNR/L						INSERTS	
93°						DNMA	
						Right Hand Shown	
						DNMG	
						DNMM	
INSERTS	C32	H39	H42	H52	H53		
	H55	H56	H62	H63			
Item	h=h1	b	f	l1	l2		
DDJNR/L 2020 K 15	20	20	25	125	35		
DDJNR/L 2525 M 15	25	25	32	150	36		
DDJNR/L 3232 P 15	32	32	40	170	40		

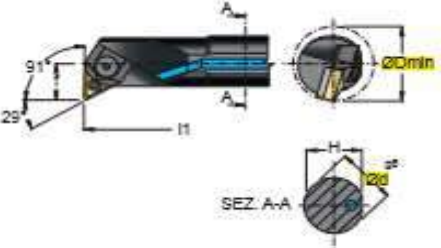
Internal Turning Tools

A... DDUNR/L						INSERTS	
95°						DNMA	
						Right Hand Shown	
						DNMG	
						DNMM	
INSERTS	C32	H39	H42	H52	H53		
	H55	H56	H62	H63			
Item	øDmin	ød	f	H	l1		
A32S DDUNR/L 15	40	32	22	31,0	250		
A40T DDUNR/L 15	50	40	27	38,5	300		
A50U DDUNR/L 15	63	50	35	48,0	350		

External Turning Tools

DTJNR/L							INSERTS	
93°							Right Hand Shown	
							TNMA	
							TNMG	
							TNMM	
INSERTS	C32	H52	H53	H55				
	H56	H62	H63					
Item	h=h1	b	f	l1	l2			
DTJNR/L 2020 K16	20	20	25	125	20			
DTJNR/L 2525 M16	25	25	32	150	21			
DTJNR/L 3232 P16	32	32	40	170	23			

Internal Turning Tools

A... MTFNR/L							INSERTS	
91°							Right Hand Shown	
							TNMA	
							TNMG	
							TNMM	
INSERTS	C32	H52	H53	H55				
	H56	H62	H63					
Item	ØDmin	Ød	f	H	l1			
A25R MTFNR/L 16	32	25	17	24,0	200			
A32S MTFNR/L 16	40	32	22	31,0	250			
A40T MTFNR/L 16	50	40	27	38,5	300			
A50U MTFNR/L 16	63	50	35	48,0	350			

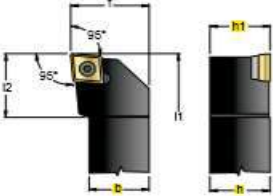
External Turning Tools

DWLNR/L							INSERTS	
93°							Right Hand Shown	
							WNMA WNMG WNMM	
INSERTS	H42	H52	H53	H55				
	H56	H62	H63					
Item		h=h1	b	f	l1	l2		
DWLNR/L 2020 K 08		20	20	25	125	30		
DWLNR/L 2525 M 08		25	25	32	150	33		

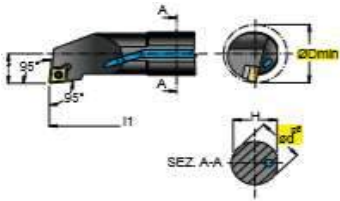
Internal Turning Tools

A... MWLNR/L							INSERTS	
95°							Right Hand Shown	
							WNMA WNMG WNMM	
INSERTS	H42	H52	H53	H55				
	H56	H62	H63					
Item		øDmin	ød	f	H	l1		
A25R MWLNR/L 08N		32	25	17	24,0	200		
A32S MWLNR/L 08N		40	32	22	31,0	250		
A40T MWLNR/L 08N		50	40	27	38,5	300		
S50U MWLNR/L 08N		63	50	35	47,0	350		

External Turning Tools

SCLCR/L				INSERTS			
95°				CC.T			
				CC.W			
				Right Hand Shown			
INSERTS	H39	H42	H52				
Item	h=h1	b	f	l1	l2		
SCLCR/L 0808 D 06	8	8	10	60	10		
SCLCR/L 1010 E 06	10	10	12	70	10		
SCLCR/L 1212 F 09	12	12	16	80	15		
SCLCR/L 1616 H 09	16	16	20	100	15		
SCLCR/L 2020 K 09	20	20	25	125	17		
SCLCR/L 2525 M 09	25	25	32	150	18		
SCLCR/L 1616 H 12	16	16	20	100	20		
SCLCR/L 2020 K 12	20	20	25	125	20		
SCLCR/L 2525 M 12	25	25	32	150	20		

Internal Turning Tools

A... SCLCR/L				INSERTS			
95°				CC.T			
				CC.W			
				Right Hand Shown			
INSERTS	H39	H42	H52				
Item	øDmin	ød	f	H	l1		
A08F SCLCR/L 06	10	8	5	7,60	80		
A10H SCLCR/L 06	12	10	7	9,50	100		
A12K SCLCR/L 06	16	12	9	11,50	125		
A16M SCLCR/L 09	20	16	11	15,25	150		
A20Q SCLCR/L 09	25	20	13	19,00	180		
A25R SCLCR/L 09	32	25	17	24,00	200		
A25R SCLCR/L 12	32	25	17	24,00	200		
A32S SCLCR/L 12	40	32	22	31,00	250		
A40T SCLCR/L 12	50	40	27	38,50	300		




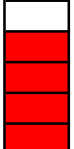


External Turning Tools

SDJCR/L							INSERTS	
93°							Right Hand Shown	
							DC.T	
							DC.W	
INSERTS		H39	H42	H52				
Item		h=h1	b	f	l1	l2		
SDJCR/L 0808 D 07		8	8	10	60	14		
SDJCR/L 1010 E 07		10	10	12	70	14		
SDJCR/L 1212 F 07		12	12	16	80	14		
SDJCR/L 1212 F 11		12	12	16	80	21		
SDJCR/L 1616 H 11		16	16	20	100	22		
SDJCR/L 2020 K 11		20	20	25	125	23		
SDJCR/L 2525 M 11		25	25	32	150	27		

Internal Turning Tools

A... SDUCR/L							INSERTS	
93°							Right Hand Shown	
							DC.T	
							DC.W	
INSERTS		H39	H42	H52				
Item		øDmin	ød	f	H	l1		
A10H SDUCR/L 07		13	10	8	9,50	100		
A12K SDUCR/L 07		16	12	9	11,50	125		
A16M SDUCR/L 07		20	16	11	15,25	150		
A20Q SDUCR/L 07		25	20	13	19,00	180		
A20Q SDUCR/L 11		25	20	13	19,00	180		
A25R SDUCR/L 11		32	25	17	24,00	200		
A32S SDUCR/L 11		40	32	22	31,00	250		
A40T SDUCR/L 11		49	40	27	38,50	300		

APPLICATION OF THE TURNING GRADE

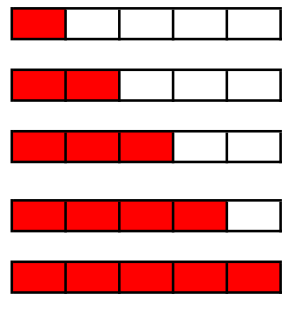
OMP TOOLS	DIN ISO 513	MATERIAL						QUICK PICK		INDICATIONS - USE	
		P	M	K	N	S	H				
		STEELS	STAINLESS STEELS	CAST IRON	NON FERRITUS	DIFFICULT	MATERIALS HARD	↑ TOUGHNESS ↓			
U3220	HC	P01-20	○	●					○	●	- Turning grade for grey cast iron and nodular cast iron
	CVD	K10-30									
U1435	HC	P25-45 M20-30	●	○					●	●	- Tough degree for difficult machining under unstable conditions and with interrupted cut
	CVD										
U1115	HC	P0525	●							●	- Universal turning grade for steel, for finishing and semi-roughing - To be used under normal cutting conditions
	CVD										
G8315	HC	M05-25		○			●		●	●	- Micrograin grade, PVD-coated - Suitable for super-alloys
	PVD	S05-25									

●	RECOMMENDED APPLICATION
○	POSSIBLE APPLICATION
●	RECOMMENDED APPLICATION
○	POSSIBLE APPLICATION

HT	CERMET
HW	UNCOATED CARBIDE
HC	COATED CARBIDE

QUICK PICK

TOUGHNESS



- Grade with high resistance to wear; only for finishing, machining at high cutting speeds and very stable conditions
- Grade with high resistance to wear, good toughness, for medium-high machining under normal conditions
- Grade with a good resistance to wear; combined with a good toughness, for general machining in normal conditions
- Grade with excellent toughness, for medium heavy machining or machining under conditions of low stability
- Grade with excellent toughness, for heavy machining with low cutting speeds, high feed, or under bad conditions

- +


CUTTING SPEED OF TURNING GRADE

MAT	VDI 3323 GR.	HB HRC Rm	D4010	U110	G2425	G8410	U1415	U1425	U3210	U3220	U1435	U1115	G8315
P S T E E L	1	125	230-270		130-250		220-400	170-240	250-550	200-340	170-190	380-560	
	2	180	230-270		130-250		220-400	170-240	250-550	200-340	170-190	320-500	
	3	250	230-270		130-250		220-400	170-240	250-550	200-340	170-190	290-430	
	4	220	230-270		130-250		220-400	170-240	250-550	200-340	170-190	250-370	
	5	300	230-270		130-250		220-400	170-240	250-550	200-340	170-190	260-380	
	6	180	230-270		130-250		220-400	170-240	250-400	200-340	170-190	140-250	
	7-8	250-300	180-230		60-180		200-320	100-190	220-340	150-290	90-150	100-160	
	9	350	180-230		60-180		200-320	130-210	170-300	150-290	120-200	170-260	
	10	200	160-200		80-200		180-320	130-210	200-350	160-290	120-200	100-150	
	11	350	160-200		80-200		180-320	130-220	150-300	160-290	140-180	170-260	
	12	200	230-270		120-250		200-320	130-220	180-320	160-290	140-180	150-230	
	13	330	170-240		120-250		200-320	130-220	180-320	160-290	140-200	130-170	
	M	14.1	180	170-240		100-250	140-230		100-210			100-190	
*	14.2	230-260	130-160		40-160	60-100		70-100			50-150		50-90
K C I A R S T O N	15	180	200-300	120-160			140-370	130-210	250-550	150-400			
	16	260	200-300	90-140			140-370	130-210	220-400	150-400			
	17	160	220-300	130-170			190-430	120-240	220-420	200-450			
	18	250	220-300	90-130			190-430	120-240	200-350	200-450			
	19	130	250-350	140-200			180-520	150-250	220-400	200-550			
	20	230	250-350	120-160			180-520	150-250	180-350	200-550			
N N O N F E R R O U S M A T	21	60		300-950									
	22	100		300-950									
	23	75		400-950									
	24	90		400-950									
	25	130		200-800									
	26	110		250-600									
	27	90		200-600									
	28	100		150-400									
	29			80-180									
	30			100-250									
S D I A F T E R I C I A L L S	31	200				80-120							80-120
	32	280				60-100							60-100
	33	250				35-90							35-90
	34	350				30-50							30-50
	35	320				30-50							30-50
	36	Rm400		60-120		70-120							70-120
	37	Rm1050		30-60		70-120							70-120
H **	38	55HRC											
	39	60HRC											
	40	400											
	41	55HRC											

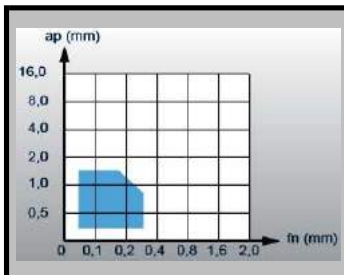
* STAINLESS STEELS

** HARD MATERIALS

FIELDS OF APPLICATION FOR CHIP BREAKERS




C32



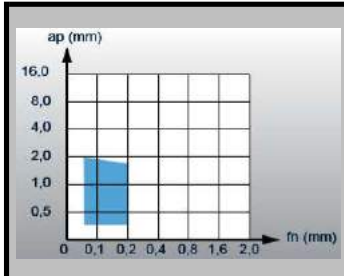
F	M	R	
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C.C.	D.C.	I.C.
U1115	U1115	

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H39



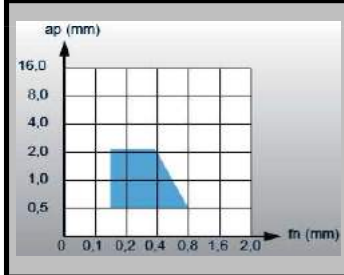
F	M	R	
●			P
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○			K
			N
			S
			H

C.C.	D.C.	I.C.
D4010	D4010	
D4010	D4010	
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H42



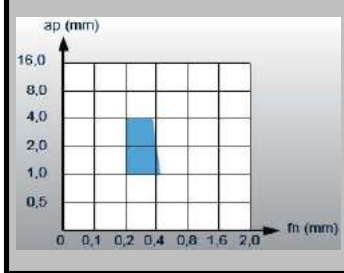
F	M	R	
●	●	○	P
●	○	○	M
●	●	○	K
			N
			S
			H

C.C.	D.C.	I.C.
U1415-U1425	U1425	
U1425	U1425	
U1415-U1425	U1425	

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H52



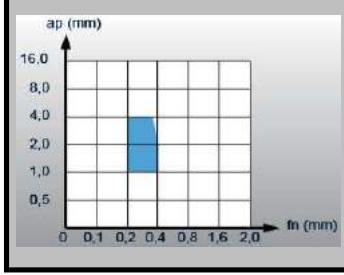
F	M	R	
○	●		P
○	○		M
○	●		K
			N
			S
			H

C.C.	D.C.	I.C.
U1415/25 U3220	U1425	
U1425	U1425	
U1415/25 U3210/20	U1425	

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H53

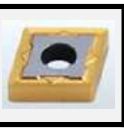


F	M	R	
	○		P
	●		M
			K
			N
			S
			H

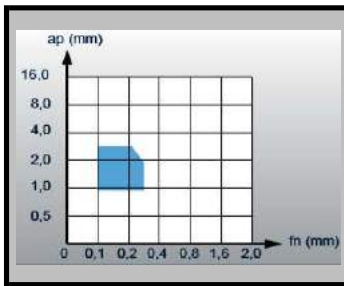
C.C.	D.C.	I.C.
G2425		
G2425		

R
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FIELDS OF APPLICATION FOR CHIP BREAKERS




H55



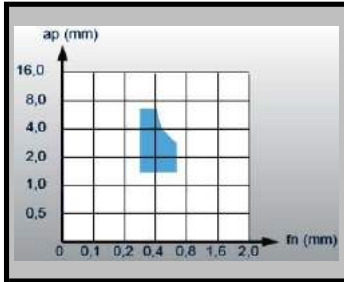
F	M	R	
○	○		P
			M
			K
			N
○	●		S
			H

C.C.	D.C.	I.C.
G8315-G8410	G8315-G8410	
G8315-G8410	G8315-G8410	

R
E
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C
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G
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N
E
S




H56



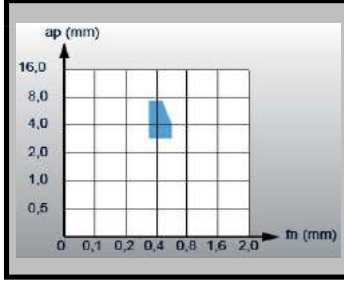
F	M	R	
	●	○	P
	○	○	M
	●	○	K
			N
			S
			H

C.C.	D.C.	I.C.
U1415/25/35	U1415/25/35	U14125-U1435
U1415/25/35	U1415/25/35	U1425
U1415-U1425	U1415-U1425	U1425

R
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H62



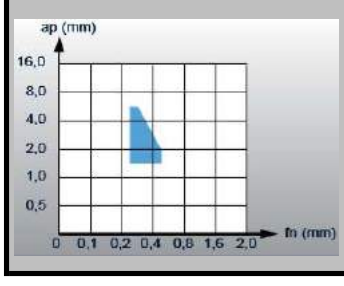
F	M	R	
	●	●	P
	○	○	M
	●	○	K
			N
			S
			H

C.C.	D.C.	I.C.
U1415/25/35 U3220	U1425-U1435	U1435
U1415/25/35	U1425-U1435	
U1415/25 U3210/20	U1425-U3220	U1425

R
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H63



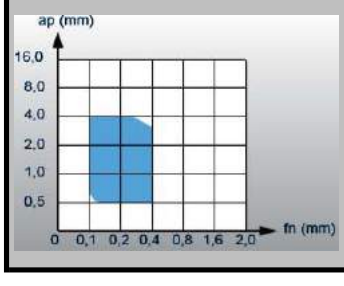
F	M	R	
		○	P
		●	M
			K
			N
			S
			H

C.C.	D.C.	I.C.
G2425	G2425	
G2425	G2425	

R
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L57Q




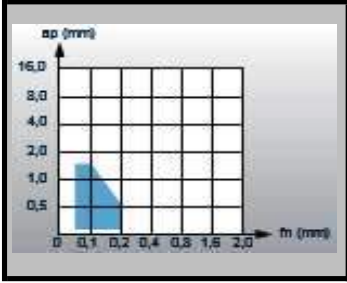
F	M	R	
			P
			M
○	●	●	K
			N
			S
			H

C.C.	D.C.	I.C.
U110	U110	

R
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FIELDS OF APPLICATION FOR CHIP BREAKERS




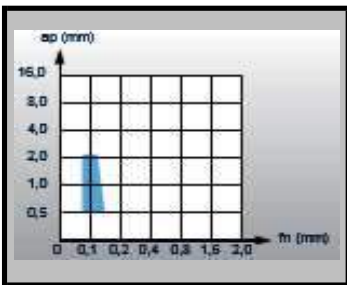


F	M	R	
○			P
●			M
○			K
			N
			S
			H

C.C.	D.C.	I.C.
D4010		
D4010		
D4010		

R
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A
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N
D
S
E




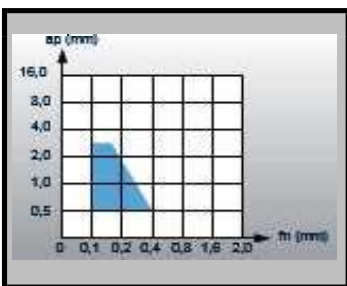


F	M	R	
●			P
●			M
○			K
			N
			S
			H

C.C.	D.C.	I.C.
U1415/25-G2425	U1415/25-G2425	
U1425-G2425	U1425-G2425	
U1415-U1425	U1415-U1425	

R
E
C
O
M
M
A
D
E
N
D
S
E





F	M	R	
○	●		P
○	●		M
○	●		K
			N
			S
			H

C.C.	D.C.	I.C.
*	**	G2435-U1435
G2425/35-U1425/35	G2425/35-U1425/35	G2435-U1435
U3220-U1415/25	U3220-U1425	

R
E
C
O
M
M
A
D
E
N
D
S
E

*	G2425-G2435-U1415 U1425-U1435-U3220
**	G2425-G2435-U1425 U1435-U3220

ap (mm)	DEPHT OF CUT
fn (mm)	FEED/REVOLUTION

●	RECOMMENDED APPLICATION
○	POSSIBLE APPLICATION

C.C.	CONTINUOUS CUT
D.C.	DISCONTINUOUS CUT
I.C.	INTERRUPTED CUT

F	FINISHING, LIGHT MACHINING
M	GENERIC, MEDIUM MACHINING
R	ROUGHING, HEAVY MACHINING

CUTTING SPEED OF TURNING GRADE

C	N	M	G
1	2	3	4

12	04	04
5	6	7

-	-
8	9

W	5	2	P
10	11	12	13

1 SHAPE OF INSERT

A	85°	B	82°
C	80°	D	55°
E	75°	H	
K	55°	L	
M	86°	R	
S		T	
V	35°	W	

2 RELIEF ANGLE

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

3 TOLLERANCE +/- (mm)

	m	s	d
A	+/-0,005	+/-0,025	+/-0,025
C	+/-0,013	+/-0,025	+/-0,025
E	+/-0,025	+/-0,025	+/-0,025
F	+/-0,005	+/-0,025	+/-0,013
G	+/-0,025	+/-0,05 +/-0,13	+/-0,025
H	+/-0,013	+/-0,025	+/-0,013
J	+/-0,005	+/-0,025	+/-0,05 +/-0,13
K	+/-0,013	+/-0,025	+/-0,05 +/-0,13
L	+/-0,005	+/-0,013	+/-0,025
M	+/-0,08 +/-0,18	+/-0,13	+/-0,05 +/-0,18
N	+/-0,08 +/-0,18	+/-0,025	+/-0,05 +/-0,13
U	+/-0,13 +/-0,38	+/-0,05 +/-0,13	+/-0,08 +/-0,32

4 TYPE OF INSERT

A		N	
B	70°-90°	Q	40°-60°
C	70°-90°	R	
F		T	40°-60°
G,P		U	40°-60°
H	70°-90°	W	40°-60°
J	70°-90°	X	SPECIAL
M			

5 CUTTING EDGE LENGHT

INSCRIBED CIRCLE	A	C	D	E	K	L	M	R	S	T	V	W
3,97												02
4,76										08		02-03
5,56		05								09		
6,00												03
6,35		06	07	06			06		06	11	11	04
6,70	10											
7,94										07		
8,00				08				08				05
9,45	16											
9,52	15-16	09	11	09	16	15	09		09	16	16	06
10,00								10				06
11,00									11			
11,50						12						
12,00								12				07
12,62						18						
12,70		12	15	12		15-20			12	22		08
15,87		16							15			
19,05		19							19			
25,40		25							25			

6 THICKNESS

S	mm
01	1,59
T1	1,97
02	2,38
T2	2,78
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
09	9,52

7 RADIUS

R	MO (mm)	r (mm)
00	r<=0,05	
01	r=0,1	
02	r=0,2	
04	r=0,4	
05	r=0,5	
06	r=0,6	
08	r=0,8	
10	r=1,0	
12	r=1,2	
16	r=1,6	
24	r=2,4	
32	r=3,2	

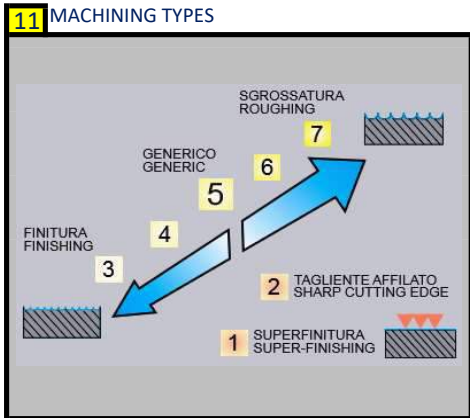
8

F	
E	
T	
S	

9

10 IDENTIFICATION LETTER

A	N
C	P
D	R
E	S
H	T
I	U
J	W
K	Y
L	Z
M	



12 CUTTING EDGE PREPARATION

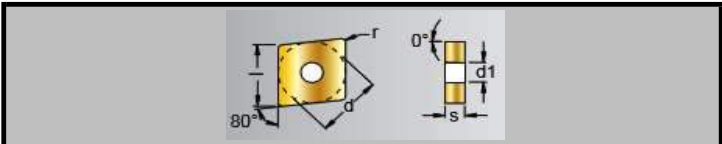
1=	SPECIFIC FOR CAST IRON
3=	SPECIFIC FOR ST. STEEL
7=	SPECIFIC FOR AL. ALLOYS
9=	SPECIFIC FOR STEEL
2=	INTERMEDIATE FOR GENERAL USE
4=	
5=	
6=	
8=	

13

P = POLISH

W = GEOMETRY WITH WIPER

CNMG
NEGATIVE INSERTS



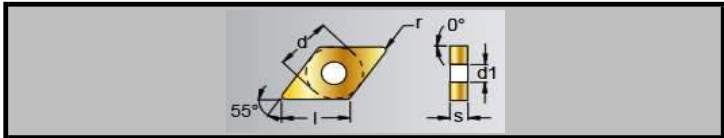
ITEM	CODE	l	d	s	d1	r	HT		HW		HC										
							D4010		U110		G2425		U1415	U1425	U3220	G8410	U3210	U1435	U1115	G8315	
C32	CNMG 120404 C32	12,9	12,7	4,76	5,16	0,4															
	CNMG 120408 C32	12,9	12,7	4,76	5,16	0,8															
H39	CNMG 120404 H39	12,9	12,7	4,76	5,16	0,4		•													
	CNMG 120408 H39	12,9	12,7	4,76	5,16	0,8		•													
H42	CNMG 120404 H42	12,9	12,7	4,76	5,16	0,4								•	•						
	CNMG 120408 H42	12,9	12,7	4,76	5,16	0,8								•	•						
H52	CNMG 120404 H52	12,9	12,7	4,76	5,16	0,4								•	•						
	CNMG 120408 H52	12,9	12,7	4,76	5,16	0,4								•	•	•					
	CNMG 120412 H52	12,9	12,7	4,76	5,16	1,2								•	•	•					
H53	CNMG 120404 H53	12,9	12,7	4,76	5,16	0,4								•							
	CNMG 120408 H53	12,9	12,7	4,76	5,16	0,4								•							
	CNMG 120412 H53	12,9	12,7	4,76	5,16	1,2								•							
H55	CNMG 120404 H55	12,9	12,7	4,76	5,16	0,4											•				•
	CNMG 120408 H55	12,9	12,7	4,76	5,16	0,8											•				•
H56	CNMG 120408 H56	12,9	12,7	4,76	5,16	0,8									•	•					
	CNMG 120412 H56	12,9	12,7	4,76	5,16	1,2									•	•					
L57Q	CNMG 120404 L57Q	12,9	12,7	4,76	5,16	0,4			•												
	CNMG 120408 L57Q	12,9	12,7	4,76	5,16	0,8			•												
H62	CNMG 120408 H62	12,9	12,7	4,76	5,16	0,8									•	•	•				
	CNMG 120412 H62	12,9	12,7	4,76	5,16	1,2									•	•	•				
	CNMG 120416 H62	12,9	12,7	4,76	5,16	1,6										•					
	CNMG 190612 H62	19,3	19,05	6,35	7,94	1,2									•	•					•
	CNMG 190616 H62	19,3	19,05	6,35	7,94	1,6									•						•
H63	CNMG 120408 H63	12,9	12,7	4,76	5,16	0,8									•						
	CNMG 120412 H63	12,9	12,7	4,76	5,16	1,2									•						

MATERIAL		D4010		U110		G2425		U1415	U1425	U3220	G8410	U3210	U1435	U1115	G8315
P	STEEL	○						•	•	○		○		•	
M	STAINLESS STEEL	•				•			○		○	○		○	
K	CAST IRON	○						○	○	•		•			
N	ALUMINIUM ALLOYS			•											
S	HEAT RESISTANT ALLOYS										•			•	
H	HARD AND HARDENED MATERIAL														

• RECOMMENDED APPLICATION
○ POSSIBLE APPLICATION

DNMG

NEGATIVE INSERTS



ITEM	CODE	l	d	s	d1	r	HT		HW		HC									
							D4010		U110		G2425		U1415	U1425	U3220	G8410	U1435	U1115	G8315	
C32	DNMG 150604 C32	15,5	12,7	6,35	5,16	0,4														
	DNMG 150608 C32	15,5	12,7	6,35	5,16	0,8														
H39	DNMG 150604 H39	15,5	12,7	6,35	5,16	0,4	•													
H42	DNMG 150604 H42	15,5	12,7	6,35	5,16	0,4							•							
H52	DNMG 150604 H52	15,5	12,7	6,35	5,16	0,4							•	•						
	DNMG 150608 H52	15,5	12,7	6,35	5,16	0,8							•	•			•			
	DNMG 150612 H52	15,5	12,7	6,35	5,16	1,2							•	•			•			
H53	DNMG 150604 H53	15,5	12,7	6,35	5,16	0,4						•								
	DNMG 150608 H53	15,5	12,7	6,35	5,16	0,8						•								
H55	DNMG 150608 H55	15,5	12,7	6,35	5,16	0,8									•				•	
H56	DNMG 150608 H56	15,5	12,7	6,35	5,16	0,8							•	•				•		
	DNMG 150612 H56	15,5	12,7	6,35	5,16	1,2							•	•				•		
H62	DNMG 150608 H62	15,5	12,7	6,35	5,16	0,8									•					
H63	DNMG 150608 H63	15,5	12,7	6,35	5,16	0,8						•								
	DNMG 150612 H63	15,5	12,7	6,35	5,16	1,2						•								

MATERIAL		D4010								G2425		U1415	U1425	U3220	G8410	U1435	U1115	G8315
P	STEEL	0								0		•	•	0		•	•	
M	STAINLESS STEEL	•								•			0	0		0		0
K	CAST IRON	0										0	0	•				
N	ALUMINIUM ALLOYS																	
S	HEAT RESISTANT ALLOYS														•			•
H	HARD AND HARDENED MATERIAL																	

• RECOMMENDED APPLICATION

0 POSSIBLE APPLICATION

WNMG

NEGATIVE INSERTS



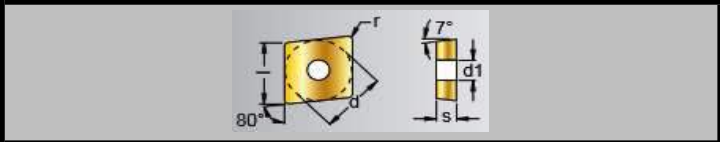
ITEM	CODE	l	d	s	d1	r	HT		HW		HC									
							D4010		U110		G2425		U1415	U1425	U3220	G8410	U3210	U1435	U1115	G8315
H42	WNMG 080404 H42	8,7	12,7	4,76	5,16	0,4														
H52	WNMG 080404 H52	8,7	12,7	4,76	5,16	0,4														
	WNMG 080408 H52	8,7	12,7	4,76	5,16	0,8														
	WNMG 080412 H52	8,7	12,7	4,76	5,16	1,2														
H53	WNMG 080404 H53	8,7	12,7	4,76	5,16	0,4														
	WNMG 080408 H53	8,7	12,7	4,76	5,16	0,8														
H55	WNMG 080408 H55	8,7	12,7	4,76	5,16	0,8														
H56	WNMG 080408 H56	8,7	12,7	4,76	5,16	0,8														
	WNMG 080412 H56	8,7	12,7	4,76	5,16	0,8														
L57Q	WNMG 080404 L57Q	8,7	12,7	4,76	5,16	0,4														
	WNMG 080408 L57Q	8,7	12,7	4,76	5,16	0,8														
H62	WNMG 080408 H62	8,7	12,7	4,76	5,16	0,8														
	WNMG 080412 H62	8,7	12,7	4,76	5,16	1,2														
H63	WNMG 080408 H63	8,7	12,7	4,76	5,16	0,8														
	WNMG 080412 H63	8,7	12,7	4,76	5,16	1,2														

MATERIAL		U110	G2425	U1415	U1425	U3220	G8410	U3210	U1435	G8315
P	STEEL		o	•	•	o		o		
M	STAINLESS STEEL		•		o	o		o		o
K	CAST IRON	o		o	•	•		•		
N	ALUMINIUM ALLOYS	•								
S	HEAT RESISTANT ALLOYS	o				•				•
H	HARD AND HARDENED MATERIAL									

• RECOMMENDED APPLICATION
 o POSSIBLE APPLICATION

CCMT

POSITIVE INSERTS

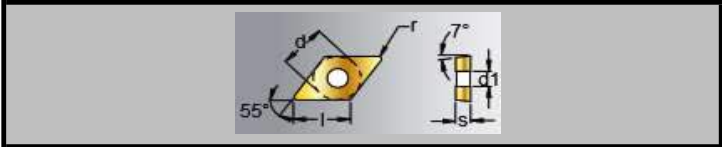


ITEM	CODE	l	d	s	d1	r	HT		HW		HC									
							D4010		U110		G2425		U1415	U1425	U3220	G8410	U3210	U1435	U1115	G8315
H39	CCMT 060204 H39	6,5	6,35	2,38	2,8	0,4	●													
	CCMT 09T304 H39	9,7	9,52	3,97	4,4	0,4	●													
H42	CCMT 060202 H42	6,5	6,35	2,38	2,8	0,2					●		●							
	CCMT 060204 H42	6,5	6,35	2,38	2,8	0,4					●		●							
	CCMT 09T302 H42	9,7	9,52	3,97	4,4	0,2					●		●							
	CCMT 09T304 H42	9,7	9,52	3,97	4,4	0,4					●		●							
	CCMT 09T308 H42	9,7	9,52	3,97	4,4	0,8					●		●							
	CCMT 120404 H42	12,9	12,7	4,76	5,5	0,4							●							
H52	CCMT 060204 H52	6,5	6,35	2,38	2,8	0,4					●		●	●		●				
	CCMT 060208 H52	6,5	6,35	2,38	2,8	0,8					●		●			●				
	CCMT 09T304 H52	9,7	9,52	3,97	4,4	0,4					●	●	●	●		●				
	CCMT 09T308 H52	9,7	9,52	3,97	4,4	0,4					●	●	●	●		●				
	CCMT 120404 H52	12,9	12,7	4,76	5,5	0,4					●		●							
	CCMT 120408 H52	12,9	12,7	4,76	5,5	0,8					●		●	●						
	CCMT 120412 H52	12,9	12,7	4,76	5,5	1,2					●		●							

MATERIAL		D4010					G2425	G2435	U1415	U1425	U3220		U1435		
P	STEEL	○					○	○	●	●	○		●		
M	STAINLESS STEEL	●					●	●	○				○		
K	CAST IRON	○							○	○	●				
N	ALUMINIUM ALLOYS														
S	HEAT RESISTANT ALLOYS														
H	HARD AND HARDENED MATERIAL														

● RECOMMENDED APPLICATION
○ POSSIBLE APPLICATION

DCMT
POSITIVE INSERTS



ITEM	CODE	l	d	s	d1	r	HT		HW		HC														
							D4010		U110		G2425		U1415	U1425	U3220	G8410	U3210	U1435	U1115	G8315					
H39	DCMT 070204 H39	7,8	6,35	2,38	2,8	0,4	●																		
	DCMT 11T304 H39	11,6	9,52	3,97	4,4	0,4	●																		
H42	DCMT 070202 H42	7,8	6,35	2,38	2,8	0,2					●			●											
	DCMT 070204 H42	7,8	6,35	2,38	2,8	0,4					●			●											
	DCMT 11T302 H42	11,6	9,52	3,97	4,4	0,2					●			●											
	DCMT 11T304 H42	11,6	9,52	3,97	4,4	0,4					●			●											
	DCMT 11T308 H42	11,6	9,52	3,97	4,4	0,8					●			●											
H52	DCMT 070204 H52	7,8	6,35	2,38	2,8	0,4					●			●											
	DCMT 070208 H52	7,8	6,35	2,38	2,8	0,8					●			●											
	DCMT 11T304 H52	11,6	9,52	3,97	4,4	0,4					●			●											
	DCMT 11T308 H52	11,6	9,52	3,97	4,4	0,8					●			●											

MATERIAL		D4010						G2425	G2435	U1415	U1425	U3220	U1435				
P	STEEL	0						0	0	●	●	0	●				
M	STAINLESS STEEL	●						●	●		0		0				
K	CAST IRON	0									0	0	●				
N	ALUMINIUM ALLOYS																
S	HEAT RESISTANT ALLOYS																
H	HARD AND HARDENED MATERIAL																

● RECOMMENDED APPLICATION
0 POSSIBLE APPLICATION

External Turning

Tool	h=h1	b	N°	Insert	N°	Price €
DCLNR/L 2020 K 12	20	20	1	CNMG 1204...	10	140,00
DCLNR/L 2525 M 12	25	25	1	CNMG 1204...	10	140,00
DCLNR/L 3232 P 12	32	32	1	CNMG 1204...	10	160,00
DCLNR/L 3232 P 19	32	32	1	CNMG 1906...	10	170,00

Tool	h=h1	b	N°	Insert	N°	Price €
DDJNR/L 2020 K 15	20	20	1	DNMG 1506...	10	175,00
DDJNR/L 2525 M 15	25	25	1	DNMG 1506...	10	175,00
DDJNR/L 3232 P 15	32	32	1	DNMG 1506...	10	195,00

Tool	h=h1	b	N°	Insert	N°	Price €
DTJNR/L 2020 K 16	20	20	1	TNMG 1604...	10	130,00
DTJNR/L 2525 M 16	25	25	1	TNMG 1604...	10	135,00
DTJNR/L 3232 P 16	32	32	1	TNMG 1604...	10	160,00

Tool	h=h1	b	N°	Insert	N°	Price €
DWLNR/L 2020 K 08	20	20	1	WNMG 0804...	10	150,00
DWLNR/L 2525 M 08	25	25	1	WNMG 0804...	10	150,00

Tool	h=h1	b	N°	Insert	N°	Price €
SCLCR/L 0808 D 06	8	8	1	CCMT 0602...	10	105,00
SCLCR/L 1010 E 06	10	10	1	CCMT 0602...	10	105,00
SCLCR/L 1212 F 09	12	12	1	CCMT 09T3...	10	110,00
SCLCR/L 1616 H 09	16	16	1	CCMT 09T3...	10	115,00
SCLCR/L 2020 K 09	20	20	1	CCMT 09T3...	10	120,00
SCLCR/L 2525 M 09	25	25	1	CCMT 09T3...	10	125,00
SCLCR/L 1616 H 12	16	16	1	CCMT 1204...	10	135,00
SCLCR/L 2020 K 12	20	20	1	CCMT 1204...	10	140,00
SCLCR/L 2525 M 12	25	25	1	CCMT 1204...	10	140,00

Tool	h=h1	b	N°	Insert	N°	Price €
SDJCR 0808 D 07	8	8	1	DCMT 0702...	10	105,00
SDJCR 1010 E 07	10	10	1	DCMT 0702...	10	105,00
SDJCR 1212 F 07	12	12	1	DCMT 0702...	10	105,00
SDJCR 1212 F 11	12	12	1	DCMT 11T3...	10	125,00
SDJCR 1616 H 11	16	16	1	DCMT 11T3...	10	125,00
SDJCR 2020 K 11	20	20	1	DCMT 11T3...	10	125,00
SDJCR 2525 M 11	25	25	1	DCMT 11T3...	10	130,00

Internal Turning

Tools	øDmin	ød	N°	Insert	N°	Price €
A25R DCLNR/L 12	32	25	1	CNMG 1204...	10	205,00
A32S DCLNR/L 12	40	32	1	CNMG 1204...	10	230,00
A40T DCLNR/L 12	50	40	1	CNMG 1204...	10	260,00
A50U DCLNR/L 12	63	50	1	CNMG 1204...	10	355,00

Tools	øDmin	ød	N°	Insert	N°	Price €
A32S DDUNR/L 15	40	32	1	DNMG 1506...	10	275,00
A40T DDUNR/L 15	50	40	1	DNMG 1506...	10	310,00
A50U DDUNR/L 15	63	50	1	DNMG 1506...	10	410,00

Tools	øDmin	ød	N°	Insert	N°	Price €
A25R MTFNR/L 16	32	25	1	TNMG 1604...	10	200,00
A32S MTFNR/L 16	40	32	1	TNMG 1604...	10	230,00
A40T MTFNR/L 16	50	40	1	TNMG 1604...	10	270,00
A50U MTFNR/L 16	63	50	1	TNMG 1604...	10	380,00

Tools	øDmin	ød	N°	Insert	N°	Price €
A25R MWLNR/L 08N	32	25	1	WNMG 0804...	10	220,00
A32S MWLNR/L 08N	40	32	1	WNMG 0804...	10	350,00
A40T MWLNR/L 08N	50	40	1	WNMG 0804...	10	295,00
S50U MWLNR/L 08N	63	50	1	WNMG 0804...	10	400,00

Tools	øDmin	ød	N°	Insert	N°	Price €
A08F SCLCR/L 06	10	8	1	CCMT 0602...	10	125,00
A10H SCLCR/L 06	12	10	1	CCMT 0602...	10	125,00
A12K SCLCR/L 06	16	12	1	CCMT 0602...	10	125,00
A16M SCLCR/L 09	20	16	1	CCMT 09T3...	10	140,00
A20Q SCLCR/L 09	25	20	1	CCMT 09T3...	10	145,00
A25R SCLCR/L 09	32	25	1	CCMT 09T3...	10	160,00
A25R SCLCR/L 12	32	25	1	CCMT 1204...	10	180,00
A32S SCLCR/L 12	40	32	1	CCMT 1204...	10	205,00
A40T SCLCR/L 12	50	40	1	CCMT 1204...	10	245,00

Tools	øDmin	ød	N°	Insert	N°	Price €
A10H SDUCR/L 07	13	10	1	DCMT 0702...	10	125,00
A12K SDUCR/L 07	16	12	1	DCMT 0702...	10	125,00
A16M SDUCR/L 07	20	16	1	DCMT 0702...	10	130,00
A20Q SDUCR/L 07	25	20	1	DCMT 0702...	10	135,00
A20Q SDUCR/L 11	25	20	1	DCMT 11T3...	10	150,00
A25R SDUCR/L 11	32	25	1	DCMT 11T3...	10	165,00
A32S SDUCR/L 11	40	32	1	DCMT 11T3...	10	195,00
A40T SDUCR/L 11	49	40	1	DCMT 11T3...	10	235,00

Item	Price €
A08F SCLCR 06	72,00
A10H SCLCR 06	72,00
A10H SDUCR 07	72,00
A12K SCLCR 06	72,00
A12K SDUCR 07	72,00
A16M SCLCR 09	79,20
A16M SDUCR 07	79,20
A20Q SCLCR 09	84,00
A20Q SDUCR 07	84,00
A20Q SDUCR 11	84,00
A25R DCLNR 12	128,80
A25R MTFNR 16	132,00
A25R MWLNR 08N	142,40
A25R SCLCR 09	99,20
A25R SCLCR 12	99,20
A25R SDUCR 12	99,20
A32S DCLNR 12	154,40
A32S DDUNR 15	169,60
A32S MTFNR 16	162,40
A32S MWLNR 08N	171,20
A32S SCLCR 12	126,40
A32S SDUCR 11	126,40
A40T DCLNR 12	185,60
A40T DDUNR 15	206,40
A40T MTFNR 16	202,40
A40T MWLNR 08N	212,80
A40T SCLCR 12	165,60
A40T SDUCR 11	165,60
A50U DCLNR 12	276,80
A50U DDUNR 15	303,20
A50U MTFNR 16	312,80
CCMT 060202 H42 G2425	5,44
CCMT 060202 H42 U1425	5,44
CCMT 060204 H39 D4010	5,44
CCMT 060204 H42 G2425	5,44
CCMT 060204 H42 U1415	5,44
CCMT 060204 H42 U1425	5,44
CCMT 060204 H52 G2425	5,44
CCMT 060204 H52 U1415	5,44
CCMT 060204 H52 U1425	5,44
CCMT 060204 H52 U1435	5,44
CCMT 060204 H52 U3220	5,44
CCMT 060208 H52 G2425	5,44
CCMT 060208 H52 U1425	5,44
CCMT 060208 H52 U1435	5,44

Item	Price €
CCMT 09T302 H42 G2425	6,32
CCMT 09T302 H42 U1425	6,32
CCMT 09T304 H39 D4010	6,16
CCMT 09T304 H42 G2425	6,32
CCMT 09T304 H42 U1415	6,32
CCMT 09T304 H42 U1425	6,32
CCMT 09T304 H52 G2425	6,32
CCMT 09T304 H52 G2435	6,32
CCMT 09T304 H52 U1415	6,32
CCMT 09T304 H52 U1425	6,32
CCMT 09T304 H52 U1435	6,32
CCMT 09T304 H52 U3220	6,32
CCMT 09T308 H42 G2425	6,32
CCMT 09T308 H42 U1415	6,32
CCMT 09T308 H42 U1425	6,32
CCMT 09T308 H52 G2425	6,32
CCMT 09T308 H52 G2435	6,32
CCMT 09T308 H52 U1415	6,32
CCMT 09T308 H52 U1425	6,32
CCMT 09T308 H52 U1435	6,32
CCMT 09T308 H52 U3220	6,32
CCMT 120404 H42 U1415	8,24
CCMT 120404 H52 G2425	8,24
CCMT 120404 H52 U1425	8,24
CCMT 120408 H52 G2425	8,24
CCMT 120408 H52 U1425	8,24
CCMT 120408 H52 U3220	8,24
CCMT 120412 H52 G2425	8,24
CCMT 120412 H52 U1425	8,24
CNMG 120404 C32 U1115	8,08
CNMG 120404 H39 D4010	7,04
CNMG 120404 H42 U1415	7,84
CNMG 120404 H42 U1425	7,84
CNMG 120404 H52 U1415	7,84
CNMG 120404 H52 U1425	7,84
CNMG 120404 H53 G2425	7,84
CNMG 120404 H55 G8315	9,04
CNMG 120404 H55 G8410	9,04
CNMG 120404 L57Q U110	7,52
CNMG 120408 C32 U1115	8,08
CNMG 120408 H39 D4010	7,04
CNMG 120408 H42 U1415	7,84
CNMG 120408 H42 U1425	7,84
CNMG 120408 H52 U1415	7,84
CNMG 120408 H52 U1425	7,84

Item	Price €
CNMG 120408 H52 U1435	7,84
CNMG 120408 H52 U3220	7,84
CNMG 120408 H53 G2425	7,84
CNMG 120408 H55 G8315	9,04
CNMG 120408 H55 G8410	9,04
CNMG 120408 H56 U1415	7,84
CNMG 120408 H56 U1425	7,84
CNMG 120408 H62 U1415	7,84
CNMG 120408 H62 U1425	7,84
CNMG 120408 H62 U3210	7,84
CNMG 120408 H62 U3220	7,84
CNMG 120408 H63 G2425	7,84
CNMG 120408 L57Q U110	7,52
CNMG 120412 H52 U1415	7,84
CNMG 120412 H52 U1425	7,84
CNMG 120412 H52 U1435	7,84
CNMG 120412 H52 U3220	7,84
CNMG 120412 H53 G2425	7,84
CNMG 120412 H56 U1415	7,84
CNMG 120412 H56 U1425	7,84
CNMG 120412 H62 U1415	7,84
CNMG 120412 H62 U1425	7,84
CNMG 120412 H62 U3210	7,84
CNMG 120412 H62 U3220	7,84
CNMG 120412 H63 G2425	7,84
CNMG 120416 H62 U3210	7,84
CNMG 190612 H62 U1425	16,88
CNMG 190612 H62 U1435	16,88
CNMG 190612 H62 U3220	16,88
CNMG 190616 H62 U1425	16,88
CNMG 190616 H62 U1435	16,88
DCMT 070202 H42 G2425	5,44
DCMT 070202 H42 U1425	5,44
DCMT 070204 H39 D4010	5,28
DCMT 070204 H42 G2425	5,44
DCMT 070204 H42 U1415	5,44
DCMT 070204 H42 U1425	5,44
DCMT 070204 H52 G2425	5,44
DCMT 070204 H52 U1425	5,44
DCMT 070204 H52 U1435	5,44
DCMT 070204 H52 U3220	5,44
DCMT 070208 H52 G2425	5,44
DCMT 070208 H52 U1425	5,44
DCMT 070208 H52 U1435	5,44
DCMT 11T302 H42 G2425	7,04

Item	Price €
DCMT 11T302 H42 U1425	7,04
DCMT 11T304 H39 D4010	6,56
DCMT 11T304 H42 G2425	7,04
DCMT 11T304 H42 U1425	7,04
DCMT 11T304 H52 G2425	7,04
DCMT 11T304 H52 G2435	7,04
DCMT 11T304 H52 U1415	7,04
DCMT 11T304 H52 U1425	7,04
DCMT 11T304 H52 U1435	7,04
DCMT 11T304 H52 U3220	7,04
DCMT 11T308 H42 G2425	7,04
DCMT 11T308 H42 U1425	7,04
DCMT 11T308 H52 G2425	7,04
DCMT 11T308 H52 G2435	7,04
DCMT 11T308 H52 U1415	7,04
DCMT 11T308 H52 U1425	7,04
DCMT 11T308 H52 U1435	7,04
DCMT 11T308 H52 U3220	7,04
DNMG 150604 C32 U1115	11,12
DNMG 150604 H39 D4010	9,28
DNMG 150604 H42 U1415	10,72
DNMG 150604 H52 U1415	10,72
DNMG 150604 H52 U1425	10,72
DNMG 150604 H53 G2425	10,72
DNMG 150608 C32 U1115	11,12
DNMG 150608 H52 U1415	10,72
DNMG 150608 H52 U1425	10,72
DNMG 150608 H52 U1435	10,72
DNMG 150608 H52 U3220	10,72
DNMG 150608 H53 G2425	10,72
DNMG 150608 H55 G8315	11,12
DNMG 150608 H55 G8410	11,12
DNMG 150608 H56 U1415	10,72
DNMG 150608 H56 U1425	10,72
DNMG 150608 H56 U1435	10,72
DNMG 150608 H62 U3220	10,72
DNMG 150608 H63 G2425	10,72
DNMG 150612 H52 U1415	10,72
DNMG 150612 H52 U1425	10,72
DNMG 150612 H52 U1435	10,72
DNMG 150612 H52 U3220	10,72
DNMG 150612 H56 U1415	10,72
DNMG 150612 H56 U1425	10,72
DNMG 150612 H56 U1435	10,72
DNMG 150612 H63 G2425	10,72

Item	Price €
DCNLR 2020 K 12	62,40
DCLNR 2525 M 12	64,80
DCLNR 3232 P 12	85,60
DCLNR 3232 P 19	92,00
DDJNR 2020 K 15	69,60
DDJNR 2525 M 15	70,40
DDJNR 3232 P 15	91,20
DTJNR 2020 K 16	62,40
DTJNR 2525 M 16	67,20
DTJNR 3232 P 15	89,60
DWLNLR 2020 K 08	69,60
DWLNLR 2525 M 08	70,40
S50U MWLNLR 08N	322,40
SCLCR 0808 D 06	51,20
SCLCR 1010 E 06	51,20
SCLCR 1212 F 09	51,20
SCLCR 1616 H 09	56,00
SCLCR 1616 H 12	56,00
SCLCR 2020 K 09	57,60
SCLCR 2020 K 12	57,60
SCLCR 2525 M 09	62,40
SCLCR 2525 M 12	62,40
SDJCR 0808 D 07	51,20
SDJCR 1010 E 07	51,20
SDJCR 1212 F 07	51,20
SDJCR 1212 F 11	51,20
SDJCR 1616 H 11	56,00
SDJCR 2020 K 11	57,60
SDJCR 2525 M 11	62,40
TNMG 160404 C32 U1115	6,88
TNMG 160404 H52 U1415	7,04
TNMG 160404 H52 U1425	7,04
TNMG 160404 H53 G2425	7,04
TNMG 160408 C32 U1115	6,88
TNMG 160408 H52 U1415	7,04
TNMG 160408 H52 U1425	7,04
TNMG 160408 H52 U1435	7,04
TNMG 160408 H52 U3220	7,04
TNMG 160408 H53 G2425	7,04
TNMG 160408 H55 G8315	8,64
TNMG 160408 H55 G8410	8,64
TNMG 160408 H56 U1415	7,04
TNMG 160408 H56 U1425	7,04
TNMG 160408 H62 U3220	7,04
TNMG 160408 H63 G2425	7,04

Item	Price €
TNMG 160412 H52 U1415	7,04
TNMG 160412 H52 U1425	7,04
TNMG 160412 H52 U3220	7,04
TNMG 160412 H56 U1415	7,04
TNMG 160412 H56 U1425	7,04
TNMG 160412 H63 G2425	7,04
WNMG 080404 H42 U1415	8,24
WNMG 080404 H52 U1415	8,24
WNMG 080404 H52 U1425	8,24
WNMG 080404 H53 G2425	8,24
WNMG 080404 L57Q U110	7,52
WNMG 080408 H52 U1415	8,24
WNMG 080408 H52 U1425	8,24
WNMG 080408 H52 U1435	8,24
WNMG 080408 H52 U3220	8,24
WNMG 080408 H53 G2425	8,24
WNMG 080408 H55 G8315	9,04
WNMG 080408 H55 G8410	9,04
WNMG 080408 H56 U1415	8,24
WNMG 080408 H56 U1425	8,24
WNMG 080408 H62 U1415	8,24
WNMG 080408 H62 U1425	8,24
WNMG 080408 H62 U3210	8,24
WNMG 080408 H62 U3220	8,24
WNMG 080408 H63 G2425	8,24
WNMG 080408 L57Q U110	7,52
WNMG 080412 H52 U1415	8,24
WNMG 080412 H52 U1425	8,24
WNMG 080412 H52 U1435	8,24
WNMG 080412 H52 U3220	8,24
WNMG 080412 H56 U1415	8,24
WNMG 080412 H56 U1425	8,24
WNMG 080412 H62 U1415	8,24
WNMG 080412 H62 U1425	8,24
WNMG 080412 H62 U3210	8,24
WNMG 080412 H62 U3220	8,24
WNMG 080412 H63 G2425	8,24



O.M.P.B.
TOOLS

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Shoulder Milling Cutters (90°)

T 1086					INSERTS		APKT 10		
INSERTS					L52	M52			T52
Item		ϕD	ϕd	H	h	L	L2	Z	β
T 1086 016 - 10		16	16	85	10	25	37	2	3,5°
T 1086 020 - 10		20	20	90	10	25	40	3	1,5°
T 1086 025 - 10		25	25	95	10	25	39	4	0,9°
T 1086 032 - 10		32	25	95	10	25	39	5	0,6°

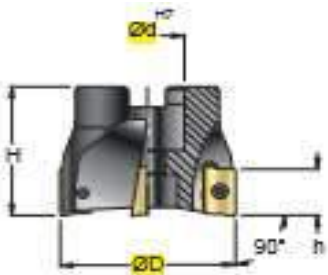
Shoulder Milling Cutters (90°)

T 1088					INSERTS		APKT 10		
INSERTS					L52	M52			T52
Item		ϕD	ϕd	H	h	L	L3	L4	Z
T1088 040 - 10		40	22	40	10	-	-	-	6
T1088 050 - 10		50	22	40	10	-	-	-	7
T1088 063 - 10		63	22	40	10	-	-	-	8

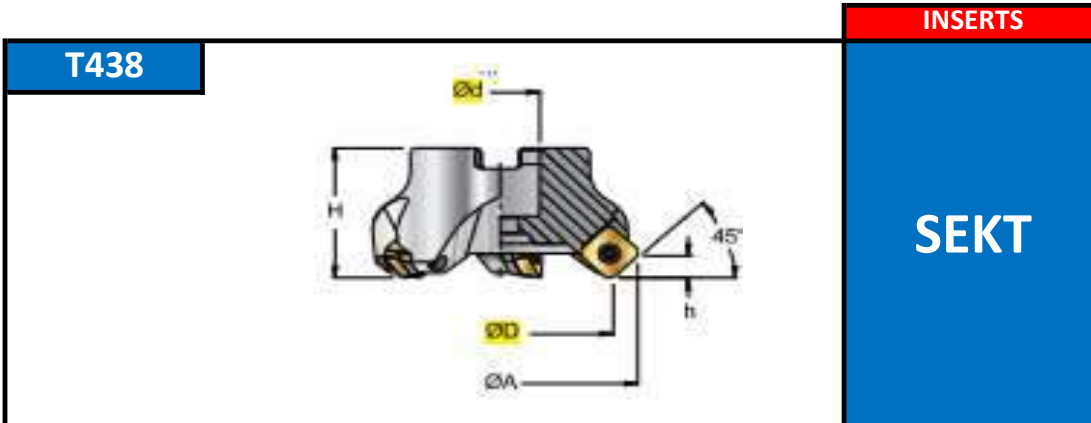
Shoulder Milling Cutters (90°)

T1696YMA				INSERTS		APKT		16	
INSERTS		T51	L52	T52	A52	T54	A54	L57Q	
Item		$\varnothing D$	$\varnothing d/CM$	H	h	L	β	Z	
T 1696YMA 025-16		25	25	200	16	44	3,5°	2	
T 1696YMA 032-16		32	32	250	16	50	2,0°	3	
T 1696YMA 040-16		40	32	250	16	50	1,5°	4	

Shoulder Milling Cutters (90°)

T 1698				INSERTS		APKT		16	
INSERTS		T51	L52	T52	A52	T54	A54	L57Q	
Item		$\varnothing D$	$\varnothing d$	H	h	β	Z		
T 1698 040-16		40	16	40	16	1,8°	4		
T 1698 050-16		50	22	40	16	1,0°	5		
T 1698 063-16		63	22	40	16	0,7°	6		
T 1698 080-16		80	27	50	16	0,6°	7		
T 1698 100-16		100	32	50	16	0,4°	8		
T 1698 125-16		125	40	63	16	0,3°	9		

Face Milling Cutters 45°



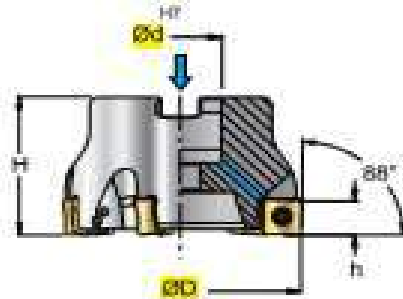
INSERTS	M44	M54	M55			

Item	øD	ød	øA	H	h	Z
T438 050 - 13	50	22	63	40	6	4
T438 063 - 13	63	22	76	40	6	5
T438 080 - 13	80	27	93	50	6	6
T438 100 - 13	100	32	113	50	6	7
T438 125 - 13	125	40	138	63	6	8
T438 160 - 13	160	40	173	63	6	10
T438 200 - 13	200	60	213	63	6	12
T438 250 - 13	250	60	263	63	6	14
T438 315 - 13	315	60	334	80	6	18

Face Milling Cutters 88°

T 8801 8W

T 8801 8



INSERTS

SNMX

INSERTS

G51

G53































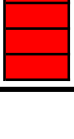




G58

Item	øD	ød	H	h	Z
T 8801-8X-050-04-12	50	22	40	11,5	4
T 8801-8X-063-06-12	63	22	40	11,5	6
T 8801-8X-080-07-12	80	27	50	11,5	7
T 8801-8X-080-09-12	80	27	50	11,5	9
T 8801-8X-100-08-12	100	32	50	11,5	8
T 8801-8X-100-11-12	100	32	50	11,5	11
T 8801-8X-125-10-12	125	40	63	11,5	10
T 8801-8X-125-14-12	125	40	63	11,5	14
T 8801-8-160-12-12	160	40	63	11,5	12
T 8801-8-160-18-12	160	40	63	11,5	18
T 8801-8-200-14-12	200	60	63	11,5	14
T 8801-8-200-22-12	200	60	63	11,5	22
T 8801-8-250-16-12	250	60	63	11,5	16
T 8801-8-250-24-12	250	60	63	11,5	24

APPLICATION OF THE TURNING GRADE

OMP TOOLS	DIN ISO 513		MATERIAL					QUICK PICK	INDICATIONS - USE			
			P	M	K	N	S				H	
			S T E E L S	S T A I N L E S S S T E E L S	C A S T I R O N	N O N F E R R O U S M A T	D I F F E R I C I A L L S				H A R D M A T E R I A L S	T O U G H N E S S
U518N	HC	P05-25	●	●	●				○	●	<ul style="list-style-type: none"> - Medium resistance to wear and toughness - Suitable for medium-low cutting speeds, for finishing and roughing with medium removal of material, even under unstable conditions 	
	CVD	M10-20 K05-20				●						
G3120	HC	P05-15	○		●				●	○	<ul style="list-style-type: none"> This coating is frequently used for cast iron machining also with long projections - Good machinability of hard steel 	
	PVD	K15-25										
G3420	HC	k15-30			●				●	●	<ul style="list-style-type: none"> - Degree with high resistance to wear, suitable for high cutting speeds - Ideal for nodular cast iron 	
	PVD											
U1025	HC	P15-35	●						●	●	<ul style="list-style-type: none"> - Wear resistant quality insert - Ideal for high cutting speed work 	
	CVD											
U526	HC	P10-35 M20-35 K10-25	●	○	●				●	○	<ul style="list-style-type: none"> - High toughness, resistance to wear and to thermal shock - Suitable for medium-high cutting speeds and with medium feed in normal conditions - Excellent for steel alloys and sp. cast iron 	
	CVD					○						
U5280	HC	P25-35 M35-45 K25-35 S35-45	●	●	○				●	○	<ul style="list-style-type: none"> - High toughness, excellent thermal shock and wear resistance - Suitable for medium-low cutting speeds and with medium-high feed factors, also under stable machining 	
	CVD					○						
U530	HC	P30-40 M20-25	●	●	○	○			○	●	<ul style="list-style-type: none"> - Good toughness and resistance to chipping - Suitable for medium-low cutting speeds and high feed 	
	CVD		S20-30									
U1730	HC	P25-35			●				●	○	<ul style="list-style-type: none"> - Universal grade suitable for face milling - Highly performing on case-hardened steel with dry machining 	
	CVD											

APPLICATION OF THE TURNING GRADE

OMP TOOLS	DIN ISO 513		MATERIAL					QUICK PICK	TOUGHNESS	INDICATIONS - USE
			P	M	K	N	S			
			STEELS	STAINLESS STEELS	CAST IRON	NON FERROUS MATS	DIFFERENTIALS	HARD MATERIALS		
G1040	HC	P25-45 M25-40	●	○					    	<ul style="list-style-type: none"> - Special PVD coating that optimises the formation of chips
	PVD									
G8015	HC	S10-20					●		    	<ul style="list-style-type: none"> - Coating with good resistance to wear and excellent lubrication - Specific milling grade for heat-resistant alloys and super-alloys
	PVD									
G8115	HC	M10-20 K05-25 S05-15		○		○	●		    	<ul style="list-style-type: none"> - Alloy in coated micro grain - Ideal when sharp cutting edges
	PVD									
U525	HC	P15-35 M20-35 K30-40	●	●	○		○	○	    	<ul style="list-style-type: none"> - Excellent balance between toughness and resistance to wear - Suitable for medium cutting speeds and with medium-high feed for roughing under stable conditions
	PVD									
G1325	HC	P15-30 M20-30 K20-30	●	○	○				    	<ul style="list-style-type: none"> - General machining of steel, and good machinability for cast iron - Recommended for high cutting speeds under stable machining conditions
	PVD									
U533	HC	P10-35 M10-30 K15-25	●	●	○		●		    	<ul style="list-style-type: none"> - Good toughness and resistance to wear - Suitable for medium cutting speeds for semifinishing and finishing and for materials that form a built-up edge
	CVD									
G1035	HC	P25-40 M20-35	●	○			○		    	<ul style="list-style-type: none"> - Very tough grade - Excellent resistance to wear
	PVD									

CUTTING SPEED OF TURNING GRADE

MAT	VDI 3323 GR.	HB HRC Rm	O3105	U110	U120	G4635	G2740	G7010	U516	U3116	U518N	G3120	G3420
P S T E E L	1	125				120-260					220-330	200-300	
	2	180				120-260					200-300	200-300	
	3	250				120-260					130-280	200-300	
	4	220				120-260					160-270	200-300	
	5	300				120-260					120-240	200-300	
	6	180				120-220					130-250	180-250	
	7-8	250-300				100-180					110-220	180-250	
	9	350				100-180					80-120	180-250	
	10	200				80-150					110-200	160-220	
	11	350				80-150					80-120	160-220	
	12	200				80-150					140-240	120-180	
	13	330				80-150						120-180	
	M *	14.1	180			80-120	90-120	100-160				120-260	
14.2		230-260				90-120	70-120				100-180		
K C I A R S T E E L	15	180	200-280	90-160	90-145	110-190		140-290	180-350	180-360	180-300	150-320	200-320
	16	260		80-130	90-135	110-190		140-290	140-280	180-360	120-180	150-320	160-250
	17	160		90-160	90-135	110-190		100-240	130-250	140-230	140-260	150-320	180-350
	18	250		70-150	70-100	110-190		100-240	100-200	140-250	100-180	110-180	180-340
	19	130		90-160	90-145	110-190		100-220	150-320	110-220	130-240	110-180	180-340
	20	230		70-150	80-120	110-190		100-220	120-250	110-220	100-160	110-180	150-300
N M A T	21	60	400-950	200-950	300-950								
	22	100	400-950	200-950	300-950								
	23	75	400-950	200-950	300-950								
	24	90	400-950	200-950	300-800								
	25	130	400-950	200-950	300-600								
	26	110	400-950	200-600	150-500								
	27	90	400-950	200-950	300-600								
	28	100	400-950	150-600	150-450								
	29		450-950	70-500									
	30		450-950	80-300									
S D I A L O I D S	31	200									30-60		
	32	280		20-30							30-60		
	33	250		16-24	20-25						20-40		
	34	350		13-20	10-20						20-40		
	35	320			10-20						20-40		
	36	Rm400			25-30						50-100		
	37	Rm1050									30-50		
H **	38	55HRC			25-30								
	39	60HRC											
	40	400											
	41	55HRC											

* STAINLESS STEELS

** HARD MATERIALS

CUTTING SPEED OF TURNING GRADE

VDI 3323 GR.	HB HRC Rm	U1025	U526	U5280	U530	U1730	G1040	G8015	G8115	U525	G1325	U533	G1035
1	125	120-240	130-350	160-260	170-260	150-230	130-300			200-400	175-265	140-300	70-180
2	180	120-240	110-320	130-220	150-240	150-230	130-300			170-320	175-265	130-280	70-180
3	250	150-220	90-280	90-160	130-180	150-230	130-260			170-280	175-265	110-250	70-180
4	220	110-190	100-280		120-170	150-230	130-260			180-280	175-265	110-300	70-180
5	300	110-190	90-250		120-160	130-180	130-260			140-230	145-215	110-250	70-170
6	180	110-190	80-250	150-220	140-200	130-180	100-230			190-310	145-215	110-220	70-170
7-8	250-300	100-220	60-210	110-190	120-180	130-180	100-230			130-240	145-215	100-180	70-170
9	350	80-180	60-180	90-160	100-120	130-180	75-175			100-170	145-215	80-120	70-170
10	200	70-160	60-210	120-200	110-160	110-160	75-175			170-240	130-190	110-200	60-140
11	350	70-160	60-170	90-140	80-100	110-160	75-175			100-160	130-190	60-120	60-140
12	200	90-160	80-190	110-220	120-150	110-160	50-110			200-300	130-190	120-240	60-140
13	330	90-160	70-170	90-180	80-120	110-160	50-110			100-150	130-190	110-180	60-140
14.1	180		110-200	120-180	100-150		110-270		100-200	160-260	90-150	120-230	40-140
14.2	230-260		120-210	80-120	80-120		100-230		50-150	130-220	60-110	80-150	40-140
15	180		120-220	160-220	160-190				140-250	150-250	140-300	160-250	
16	260		80-170	120-180	100-120				140-230	150-200	140-300	110-200	
17	160		80-200	110-210	140-180				140-230	150-220	140-300	150-225	
18	250		70-180	90-180	120-150				140-230	120-160	140-300	80-140	
19	130		70-180	90-180	140-200				100-220	150-240	100-160	140-205	
20	230		70-160	80-160	130-165				70-220	120-180	100-160	100-150	
21	60				300-1000				400-950				
22	100				300-1000				400-950				
23	75				150-1000				400-950				
24	90				150-1000				400-950				
25	130				150-700				250-500				
26	110				100-400				250-500				
27	90				100-400				400-950				
28	100				100-400				400-950				
29									400-950				
30									400-950				
31	200		60-90	40-70				30-60				35-100	
32	280		60-90	30-40				30-60				35-70	
33	250			30-50	40-60			30-60		35-40		20-60	
34	350			30-50	30-40			30-60		35-40		20-60	
35	320			40-50	40-50			30-60		35-40		20-60	
36	Rm400			60-80	40-70			30-50		50-75		35-60	
37	Rm1050				30-50			30-50				35-60	
38	55HRC									40-70			
39	60HRC												
40	400		70-130										
41	55HRC												

STAINLESS STEELS

** HARD MATERIALS

CUTTING SPEED OF TURNING GRADE

A	P	K	T
1	2	3	4

10	03
5	6

P	D	T	R
7a/7b	8	9	

-	-	-	P
10	11	12	13

1 SHAPE OF INSERT

A	85°	B	82°
C	80°	D	55°
E	75°	H	
K	55°	L	
M	86°	R	
S		T	
V	35°	W	

2 RELIEF ANGLE

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

3 TOLLERANCE +/- (mm)

	m	s	d
A	+/-0,005	+/-0,025	+/-0,025
C	+/-0,013	+/-0,025	+/-0,025
E	+/-0,025	+/-0,025	+/-0,025
F	+/-0,005	+/-0,025	+/-0,013
G	+/-0,025	+/-0,05 +/-0,13	+/-0,025
H	+/-0,013	+/-0,025	+/-0,013
J	+/-0,005	+/-0,025	+/-0,05 +/-0,13
K	+/-0,013	+/-0,025	+/-0,05 +/-0,13
L	+/-0,005	+/-0,013	+/-0,025
M	+/-0,08 +/-0,18	+/-0,13	+/-0,05 +/-0,18
N	+/-0,08 +/-0,18	+/-0,025	+/-0,05 +/-0,13
U	+/-0,13 +/-0,38	+/-0,05 +/-0,13	+/-0,08 +/-0,32

4 TYPE OF INSERT

A	N	
B	Q	70°-90° 40°-60°
C	R	70°-90°
F	T	40°-60°
G,P	U	40°-60°
H	W	70°-90° 40°-60°
J	X	70°-90° SPECIAL
M		

5 CUTTING EDGE LENGHT

INSCRIBED CIRCLE	A	C	D	E	K	L	M	R	S	T	V	W
3,97												02
4,76												02-03
5,56		05										09
6,00												03
6,35		06	07	06			06		06	11	11	04
6,70	10											
7,94										07		
8,00				08				08				05
9,45	16											
9,52	15-16	09	11	09	16	15	09		09	16	16	06
10,00									10			06
11,00										11		
11,50						12						
12,00										12		07
12,62						18						
12,70		12	15	12		15-20				12	22	08
15,87		16								15		
19,05		19								19		

6 THICKNESS

S	mm
01	1,59
T1	1,97
02	2,38
T2	2,78
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
09	9,52

7a RADIUS

MO(mm)	r(mm)
02	r=0,2
04	r=0,4
05	r=0,5
06	r=0,6
08	r=0,8
10	r=1,0
12	r=1,2
16	r=1,6

7b CHAMFER

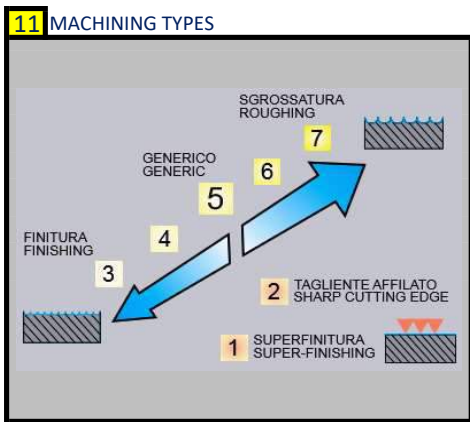
K°	X°
A=45°	D=15°
D=60°	E=20°
E=75°	F=25°
F=85°	N=0°
P=90°	P=11°
Z=SPEC	Z=SPEC

8

9

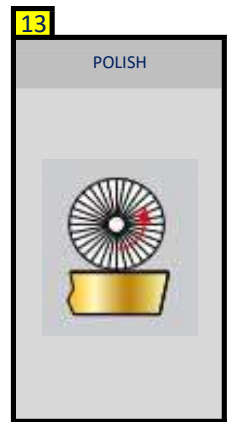
10 IDENTIFICATION LETTER

A	N
C	P
D	R
E	S
H	T
I	U
J	W
K	Y
L	Z
M	

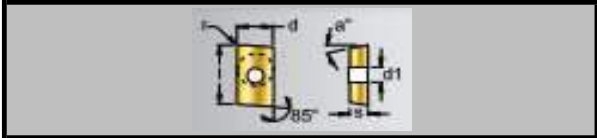


12 CUTTING EDGE PREPARATION

1=	SPECIFIC FOR CAST IRON
3=	SPECIFIC FOR ST. STEEL
7=	SPECIFIC FOR AL. ALLOYS
9=	SPECIFIC FOR STEEL
2=	INTERMEDIATE FOR GENERAL USE
4=	
5=	
6=	
8=	



APKT 10

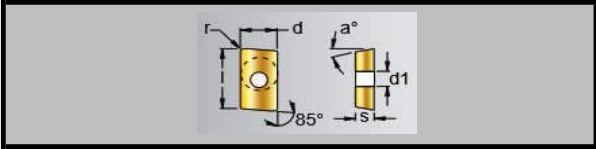


ITEM	CODE	l	d	s	d1	r	a°	HT		HW		HC						
												U5280	U516	U530	U526	U533	G1035	
L52	APKT 1003 PDR L52	10,5	6,70	3,5	2,8	0,5	11					●						
M52	APKT 1003 PDR M52	10,5	6,70	3,5	2,8	0,5	11											●
T52	APKT 1003 PDTR T52	10,5	6,70	3,5	2,8	0,5	11					●	●					
A54	APKT 1003 PDER A54	10,5	6,70	3,5	2,8	0,5	11											●
	APKT 1003 PDSR A54												●					

MATERIAL		HT		HW		HC					
						U5280	U516	U530	U526	U533	G1035
P	STEEL					●	●	●	●	●	●
M	STAINLESS STEEL					○	●	○		●	
K	CAST IRON					○	●	●	○	○	
N	ALUMINIUM ALLOYS						○				
S	HEAT RESISTANT ALLOYS					○	○	○		○	
H	HARD AND HARDENED MATERIAL										

● RECOMMENDED APPLICATION
○ POSSIBLE APPLICATION

APKT 16

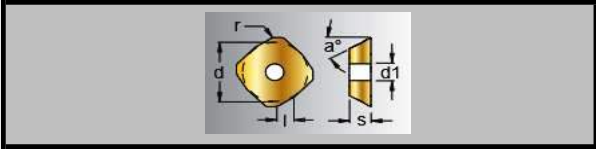


ITEM	CODE	l	d	s	d1	r	a°	HT		HW		HC						
								U120	U110	G4635	U516	U530	U526	G8015	U525			
T51	APKT 1604 PDR T51	17,0	9,45	5,26	4,4	0,4	11			•								
L52	APKT 1604 PDSR L52	17,0	9,45	5,26	4,4	0,8	11											•
T52	APKT 1604 PDTR T52	17,0	9,45	5,26	4,4	0,8	11					•	•					
A52	APKT 1604 PDSR A52	17,0	9,45	5,26	4,4	0,8	11					•						
T54	APKT 1604 PDTR T54	17,0	9,45	5,26	4,4	0,4	11											•
A54	APKT 1604 PDSR A54	17,0	9,45	5,26	4,4	0,8	11						•					
L57Q	APKT 1604 PDFR L57Q	16,4	9,53	4,76	4,4	0,2	11			•								

MATERIAL		U120	U110	G4635	U516	U530	U526	G8015	U525
P	STEEL	•		•	•	•	•	•	•
M	STAINLESS STEEL	•	•	•	•	•	•	•	•
K	CAST IRON	•	•	•	•	•	•	•	•
N	ALUMINIUM ALLOYS	•	•	•	•	•	•	•	•
S	HEAT RESISTANT ALLOYS	•	•	•	•	•	•	•	•
H	HARD AND HARDENED MATERIAL	•	•	•	•	•	•	•	•

- RECOMMENDED APPLICATION
- o POSSIBLE APPLICATION

SEKT

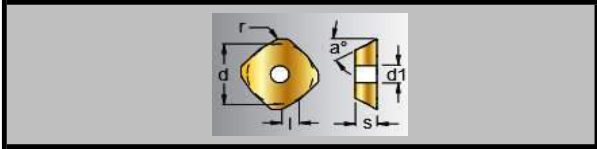


ITEM	CODE	l	d	s	d1	r	a°	HT		HW		HC							
												U518N	G1040	G7010		G8115	U533		
M44	SEKT 13T3 AZFN M44	13,4	13,4	3,97	4,1	-	20			●									
M44	SEKT 13T3 AZEN M44	13,4	13,4	3,97	4,1	-	20												●
M54	SEKT 13T3 AZEN M54	13,4	13,4	3,97	4,1	-	20					●	●						●
M55	SEKT 13T3 AZTN M55	13,4	13,4	3,97	4,1	-	20						●						

MATERIAL						O3105						U518N	G1040	G7010				G8115	U533
P	STEEL											●	●						●
M	STAINLESS STEEL											●	●					○	●
K	CAST IRON						○					○	●					○	
N	ALUMINIUM ALLOYS						●						○					○	
S	HEAT RESISTANT ALLOYS											○						●	●
H	HARD AND HARDENED MATERIAL																		

● RECOMMENDED APPLICATION
○ POSSIBLE APPLICATION

SNMX



ITEM	CODE	l	d	s	d1	r	a°	HT		HW		HC									
												G2740	U3116	G3120	U1025	G3420	U1730	G1355			
G51	SNMX 1206NN G51	12,7	12,7	6,35	5,4	-	-														
G52	SNMX 1206NN G52	12,7	12,7	6,35	5,4	-	-														
G53	SNMZ 1206NN G53	12,7	12,7	6,35	5,4	-	-														
G56	SNMX 1206NN G56	12,7	12,7	6,35	5,4	-	-														
G58	SNMX 1206NN G58	12,7	12,7	6,35	5,4	-	-														
G51	SNMX 1206QNN G51	12,7	12,7	6,35	5,4	0,8	-														
G53	SNMX 1206QNN G53	12,7	12,7	6,35	5,4	0,8	-														
G58	SNMX 1206QNN G58	12,7	12,7	6,35	5,4	0,8	-														
G51	SNMX 120612 G51	12,7	12,7	6,35	5,4	1,2	-														
G58	SNMX 120612 G58	12,7	12,7	6,35	5,4	1,2	-														

MATERIAL																					
P	STEEL																				
M	STAINLESS STEEL																				
K	CAST IRON																				
N	ALUMINIUM ALLOYS																				
S	HEAT RESISTANT ALLOYS																				
H	HARD AND HARDENED MATERIAL																				

- RECOMMENDED APPLICATION
- POSSIBLE APPLICATION

Shoulder Milling Cutters (90°)

Cutter	øD	ød	N°	Insert	N°	Price €
T 1086 016-10	16	16	1	APKT 1003...	10	150,00
T 1086 020-10	20	20	1	APKT 1003...	10	175,00
T 1086 025-10	25	25	1	APKT 1003...	10	195,00
T 1086 032-10	32	25	1	APKT 1003...	10	220,00

Cutter	øD	ød	N°	Insert	N°	Price €
T 1088 040-10	40	22	1	APKT 1003...	10	200,00
T 1088 050-10	50	22	1	APKT 1003...	10	225,00
T 1088 063-10	63	22	1	APKT 1003...	10	270,00

Cutter	øD	ød	N°	Insert	N°	Price €
T 1696YMA 025-16	25	25	1	APKT 1604...	10	180,00
T 1696YMA 032-16	32	32	1	APKT 1604...	10	200,00
T 1696YMA 040-16	40	32	1	APKT 1604...	10	220,00

Cutter	øD	ød	N°	Insert	N°	Price €
T 1698 040-16	40	16	1	APKT 1604...	10	210,00
T 1698 050-16	50	22	1	APKT 1604...	10	220,00
T 1698 063-16	63	22	1	APKT 1604...	10	245,00
T 1698 080-16	80	27	1	APKT 1604...	10	280,00
T 1698 100-16	100	32	1	APKT 1604...	10	310,00
T 1698 125-16	125	40	1	APKT 1604...	10	430,00

Face Milling Cutters 45°

Cutter	øD	ød	N°	Insert	N°	Price €
T 438 050-13	50	22	1	SEKT 13T3...	10	325,00
T 438 063-13	63	22	1	SEKT 13T3...	10	375,00
T 438 080-13	80	27	1	SEKT 13T3...	10	420,00
T 438 100-13	100	32	1	SEKT 13T3...	10	465,00
T 438 125-13	125	40	1	SEKT 13T3...	10	545,00
T 438 160-13	160	40	1	SEKT 13T3...	10	730,00
T 438 200-13	200	60	1	SEKT 13T3...	10	1.060,0
T 438 250-13	250	60	1	SEKT 13T3...	10	1.320,0
T 438 315-13	315	60	1	SEKT 13T3...	10	2.010,0

Face Milling Cutters 88°

Cutter	øD	ød	N°	Insert	N°	Price €
T 8801-8X-050-04-12	50	22	1	SNMX 1206...	10	250,00
T 8801-8X-063-06-12	63	22	1	SNMX 1206...	10	285,00
T 8801-8X-080-07-12	80	27	1	SNMX 1206...	10	330,00
T 8801-8X-080-09-12	80	27	1	SNMX 1206...	10	365,00
T 8801-8X-100-08-12	100	32	1	SNMX 1206...	10	390,00
T 8801-8X-100-11-12	100	32	1	SNMX 1206...	10	425,00
T 8801-8X-125-10-12	125	40	1	SNMX 1206...	10	475,00
T 8801-8X-125-14-12	125	40	1	SNMX 1206...	10	535,00
T 8801-8-160-12-12	160	40	1	SNMX 1206...	10	605,00
T 8801-8-160-18-12	160	40	1	SNMX 1206...	10	710,00
T 8801-8-200-14-12	200	60	1	SNMX 1206...	10	875,00
T 8801-8-200-22-12	200	60	1	SNMX 1206...	10	1.100,0
T 8801-8-250-16-12	250	60	1	SNMX 1206...	10	1.315,0
T 8801-8-250-24-12	250	60	1	SNMX 1206...	10	1.490,0

Item	Price €
APKT 1003PDER A54 G1035	9,36
APKT 1003PDER M52 U533	9,04
APKT 1003PDR L52 U5280	9,20
APKT 1003PDSR A54 U526	9,20
APKT 1003PDTR T52 U516	7,92
APKT 1003PDTR T52 U530	7,92
APKT 1604 PDFR L57Q U110	12,00
APKT 1604 PDR T51 U120	8,96
APKT 1604 PDSR A52 G4635	11,84
APKT 1604 PDSR A54 U526	11,52
APKT 1604 PDSR L52 G8015	10,24
APKT 1604 PDTR T52 U516	9,04
APKT 1604 PDTR T52 U530	9,12
APKT 1604 PDTR T54 U525	10,40
SEKT 13T3 AZFN M44 O3105	9,36
SEKT 13T3 AZTN M55 G7010	10,80
SEKT 13T3AZEN M44 G8115	10,80
SEKT 13T3AZEN M54 G1040	10,80
SEKT 13T3AZEN M54 U5180	10,80
SEKT 13T3AZEN M54 U533	10,80
SNMX 120612 G51 U3116	10,56
SNMX 120612 G58 U1335	10,56
SNMX 120612 G58 U1730	10,56
SNMX 1206NN G51 G3120	10,56
SNMX 1206NN G51 U3116	10,56
SNMX 1206NN G52 U1025	10,56
SNMX 1206NN G53 G2740	10,56
SNMX 1206NN G56 G3420	10,56
SNMX 1206NN G58 G1335	10,56
SNMX 1206NN G58 U1730	10,56
SNMX 1206QNN G51 G3120	10,56
SNMX 1206QNN G51 U3116	10,56
SNMX 1206QNN G53 G2740	10,56
SNMX 1206QNN G58 G1335	10,56
SNMX 1206QNN G58 U1730	10,56
T1086 016-10	74,40
T1086 020-10	97,60
T1086 025-10	116,00
T1086 032-10	143,20
T1088 040-10	120,80
T1088 050-10	148,00
T1088 063-10	194,40
T1696 025-16	92,80
T1696 032-16	112,00
T1696 040-16	129,60

Item	Price €
T1698 040-16	120,80
T1698 050-16	134,40
T1698 063-16	156,80
T1698 080-16	194,40
T1698 100-16	221,60
T1698 125-16	340,80
T438 050-13	221,60
T438 063-13	267,20
T438 080-13	313,60
T438 100-13	358,40
T438 125-13	441,60
T438 160-13	625,60
T438 200-13	952,80
T438 250-13	1.212,00
T438 315-13	1.904,80
T8801-8-160-12-12	502,40
T8801-8-160-18-12	606,40
T8801-8-200-14-12	770,40
T8801-8-200-22-12	996,00
T8801-8-250-16-12	1.212,00
T8801-8-250-24-12	1.384,80
T8801-8X-050-04-12	147,20
T8801-8X-063-06-12	182,40
T8801-8X-080-07-12	225,60
T8801-8X-080-09-12	260,00
T8801-8X-100-08-12	285,60
T8801-8X-100-11-12	320,80
T8801-8X-125-10-12	372,80
T8801-8X-125-14-12	432,80



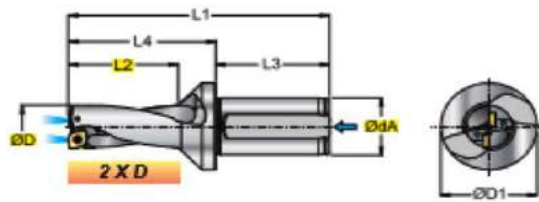
O.M.P.B.
TOOLS

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Indexable Inserts Drilling Tools

TER... S



INSERTS

QCMX

INSERTS

Y36

Y42

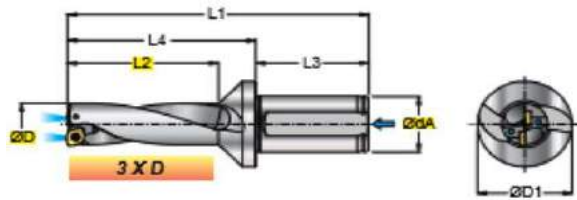
Y52

2 x D

Item	ØD	ØdA	ØD1	L1	L2	L3	L4	Inserts
TER 15020 S	15,0	20	32	90	35	40	50	010204
TER 15520 S	15,5	20	32	91	36	40	51	010204
TER 16020 S	16,0	20	32	92	37	40	52	010204
TER 16520 S	16,5	20	32	93	38	40	53	010204
TER 17020 S	17,0	20	32	94	39	40	54	010204
TER 17520 S	17,5	25	37	112	41	54	58	010204
TER 18020 S	18,0	25	37	113	42	54	59	010204
TER 18520 S	18,5	25	37	114	43	54	60	010204
TER 19020 S	19,0	25	37	115	44	54	61	010204
TER 19520 S	19,5	25	37	116	45	54	62	010204
TER 20020 S	20,0	25	37	117	46	54	63	020204
TER 20520 S	20,5	25	37	118	47	54	64	020204
TER 21020 S	21,0	25	37	119	48	54	65	020204
TER 21520 S	21,5	25	37	120	49	54	66	020204
TER 22020 S	22,0	25	37	121	50	54	67	020204
TER 22520 S	22,5	25	37	122	51	54	68	020204
TER 23020 S	23,0	25	37	123	52	54	69	020204
TER 23520 S	23,5	25	37	124	53	54	70	030308
TER 24020 S	24,0	25	37	125	54	54	71	030308
TER 24520 S	24,5	25	37	126	55	54	72	030308
TER 25020 S	25,0	32	49	133	56	58	75	030308
TER 25520 S	25,5	32	49	134	57	58	76	030308
TER 26020 S	26,0	32	49	135	58	58	77	030308
TER 26520 S	26,5	32	49	136	59	58	78	030308
TER 27020 S	27,0	32	49	137	60	58	79	030308
TER 27520 S	27,5	32	49	138	61	58	80	030308
TER 28020 S	28,0	32	49	139	62	58	81	030308
TER 28520 S	28,5	32	49	140	63	58	82	030308
TER 29020 S	29,0	32	49	141	64	58	83	030308
TER 29520 S	29,5	32	49	142	65	58	84	030308
TER 30020 S	30,0	32	49	143	66	58	85	040308
TER 30520 S	30,5	32	49	144	67	58	86	040308
TER 31020 S	31,0	32	49	145	68	58	87	040308
TER 31520 S	31,5	32	49	146	69	58	88	040308
TER 32020 S	32,0	40	59	161	71	68	93	040308
TER 32520 S	32,5	40	59	162	72	68	94	040308
TER 33020 S	33,0	40	59	163	73	68	95	040308
TER 33520 S	33,5	40	59	164	74	68	96	040308
TER 34020 S	34,0	40	59	165	75	68	97	040308

Indexable Inserts Drilling Tools

TER... S



INSERTS

QCMX

INSERTS

Y36

Y42

Y52

3 x D

Item	øD	ødA	øD1	L1	L2	L3	L4	Inserts
TER 15030 S	15,0	20	32	102,0	47,0	40	62,0	010204
TER 15530 S	15,5	20	32	103,5	48,5	40	63,5	010204
TER 16030 S	16,0	20	32	105,0	50,0	40	65,0	010204
TER 16530 S	16,5	20	32	106,5	51,5	40	66,5	010204
TER 17030 S	17,0	20	32	108,0	53,0	40	68,0	010204
TER 17530 S	17,5	25	37	126,5	55,5	54	72,5	010204
TER 18030 S	18,0	25	37	128,0	57,0	54	74,0	010204
TER 18530 S	18,5	25	37	129,5	58,5	54	75,5	010204
TER 19030 S	19,0	25	37	131,0	60,0	54	77,0	010204
TER 19530 S	19,5	25	37	132,5	61,5	54	78,5	010204
TER 20030 S	20,0	25	37	134,0	63,0	54	80,0	020204
TER 20530 S	20,5	25	37	135,5	64,5	54	81,5	020204
TER 21030 S	21,0	25	37	137,0	66,0	54	83,0	020204
TER 21530 S	21,5	25	37	138,5	67,5	54	84,5	020204
TER 22030 S	22,0	25	37	140,0	69,0	54	86,0	020204
TER 22530 S	22,5	25	37	141,5	70,5	54	87,5	020204
TER 23030 S	23,0	25	37	143,0	72,0	54	89,0	020204
TER 23530 S	23,5	25	37	144,5	73,5	54	90,5	030308
TER 24030 S	24,0	25	37	146,0	75,0	54	92,0	030308
TER 24530 S	24,5	25	37	147,5	76,5	54	93,5	030308
TER 25030 S	25,0	32	49	156,0	79,0	58	98,0	030308
TER 25530 S	25,5	32	49	157,5	80,5	58	99,5	030308
TER 26030 S	26,0	32	49	159,0	82,0	58	101,0	030308
TER 26530 S	26,5	32	49	160,5	83,5	58	102,5	030308
TER 27030 S	27,0	32	49	162,0	85,0	58	104,0	030308
TER 27530 S	27,5	32	49	163,5	86,5	58	105,5	030308
TER 28030 S	28,0	32	49	165,0	88,0	58	107,0	030308
TER 28530 S	28,5	32	49	166,5	89,5	58	108,5	030308
TER 29030 S	29,0	32	49	168,0	91,0	58	110,0	030308
TER 29530 S	29,5	32	49	169,5	92,5	58	111,5	030308

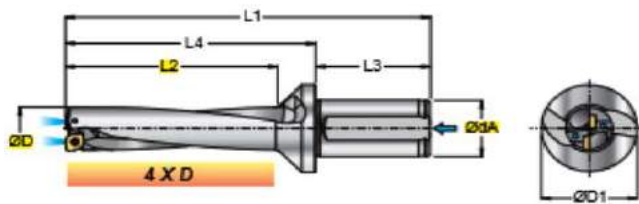
Indexable Inserts Drilling Tools

3 x D

Item	øD	ødA	øD1	L1	L2	L3	L4	Inserts
TER 30030 S	30,0	32	49	171,0	94,0	58	113,0	040308
TER 30530 S	30,5	32	49	172,5	95,5	58	114,5	040308
TER 31030 S	31,0	32	49	174,0	97,0	58	116,0	040308
TER 31530 S	31,5	32	49	175,5	98,5	58	117,5	040308
TER 32030 S	32,0	40	59	191,0	101,0	68	123,0	040308
TER 32530 S	32,5	40	59	192,5	102,5	68	124,5	040308
TER 33030 S	33,0	40	59	194,0	104,0	68	126,0	040308
TER 33530 S	33,5	40	59	195,5	105,5	68	127,5	040308
TER 34030 S	34,0	40	59	197,0	107,0	68	129,0	040308
TER 34530 S	34,5	40	59	198,5	108,5	68	130,5	050412
TER 35030 S	35,0	40	59	200,0	110,0	68	132,0	050412
TER 35530 S	35,5	40	59	201,5	111,5	68	133,5	050412
TER 36030 S	36,0	40	59	203,0	113,0	68	135,0	050412
TER 36530 S	36,5	40	59	204,5	114,5	68	136,5	050412
TER 37030 S	37,0	40	59	206,0	116,0	68	138,0	050412
TER 37530 S	37,5	40	59	207,5	117,5	68	139,5	050412
TER 38030 S	38,0	40	59	209,0	119,0	68	141,0	050412
TER 38530 S	38,5	40	59	210,5	120,5	68	142,5	050412
TER 39030 S	39,0	40	59	212,0	122,0	68	144,0	050412
TER 39530 S	39,5	40	59	213,5	123,5	68	145,5	050412
TER 40030 S	40,0	40	59	215,0	125,0	68	147,0	060412
TER 41030 S	41,0	40	59	218,0	128,0	68	150,0	060412
TER 42030 S	42,0	40	59	221,0	131,0	68	153,0	060412
TER 43030 S	43,0	40	59	224,0	134,0	68	156,0	060412
TER 44030 S	44,0	40	59	227,0	137,0	68	159,0	060412
TER 45030 S	45,0	40	59	230,0	140,0	68	162,0	060412
TER 46030 S	46,0	40	59	241,0	143,0	68	173,0	060412
TER 47030 S	47,0	40	59	244,0	146,0	68	176,0	060412
TER 48030 S	48,0	40	59	247,0	149,0	68	179,0	060412
TER 49030 S	49,0	40	59	250,0	152,0	68	182,0	060412
TER 50030 S	50,0	40	59	253,0	158,0	68	185,0	080412
TER 51030 S	51,0	40	59	256,0	161,0	68	188,0	080412
TER 52030 S	52,0	40	59	259,0	164,0	68	191,0	080412
TER 53030 S	53,0	40	59	262,0	167,0	68	194,0	080412
TER 54030 S	54,0	40	59	265,0	170,0	68	197,0	080412
TER 55030 S	55,0	40	59	268,0	173,0	68	200,0	080412
TER 56030 S	56,0	40	59	271,0	176,0	68	203,0	080412
TER 57030 S	57,0	40	59	274,0	179,0	68	206,0	080412
TER 58030 S	58,0	40	59	277,0	182,0	68	209,0	080412
TER 59030 S	59,0	40	59	280,0	185,0	68	212,0	080412
TER 60030 S	60,0	40	59	283,0	188,0	68	215,0	080412

Indexable Inserts Drilling Tools

TER... S



INSERTS

QCMX

INSERTS

Y36

Y42

Y52

4 x D

Item	øD	ødA	øD1	L1	L2	L3	L4	Insert
TER 15040 S	15,0	20	32	120	65	40	80	010204
TER 15540 S	15,5	20	32	122	67	40	82	010204
TER 16040 S	16,0	20	32	124	69	40	84	010204
TER 16540 S	16,5	20	32	126	71	40	86	010204
TER 17040 S	17,0	20	32	128	73	40	88	010204
TER 17540 S	17,5	25	37	147	76	54	93	010204
TER 18040 S	18,0	25	37	149	78	54	95	010204
TER 18540 S	18,5	25	37	151	80	54	97	010204
TER 19040 S	19,0	25	37	153	82	54	99	010204
TER 19540 S	19,5	25	37	155	84	54	101	010204
TER 20040 S	20,0	25	37	157	86	54	103	020204
TER 20540 S	20,5	25	37	159	88	54	105	020204
TER 21040 S	21,0	25	37	161	90	54	107	020204
TER 21540 S	21,5	25	37	163	92	54	109	020204
TER 22040 S	22,0	25	37	165	94	54	111	020204
TER 22540 S	22,5	25	37	167	96	54	113	020204
TER 23040 S	23,0	25	37	169	98	54	115	020204
TER 23540 S	23,5	25	37	170	99	54	116	030308
TER 24040 S	24,0	25	37	173	102	54	119	030308
TER 24540 S	24,5	25	37	175	104	54	121	030308
TER 25040 S	25,0	32	49	184	107	58	126	030308
TER 25540 S	25,5	32	49	186	109	58	128	030308
TER 26040 S	26,0	32	49	188	111	58	130	030308
TER 26540 S	26,5	32	49	190	113	58	132	030308
TER 27040 S	27,0	32	49	192	115	58	134	030308
TER 27540 S	27,5	32	49	194	117	58	136	030308
TER 28040 S	28,0	32	49	196	119	58	138	030308
TER 28540 S	28,5	32	49	198	121	58	140	030308
TER 29040 S	29,0	32	49	200	123	58	142	030308
TER 29540 S	29,5	32	49	202	125	58	144	030308

Indexable Inserts Drilling Tools

4 x D

Item	øD	ødA	øD1	L1	L2	L3	L4	Insert
TER 30040 S	30,0	32	49	204	127	58	146	040308
TER 31040 S	31,0	32	49	208	131	58	150	040308
TER 32040 S	32,0	40	59	226	136	68	158	040308
TER 33040 S	33,0	40	59	230	140	68	162	040308
TER 34040 S	34,0	40	59	234	144	68	166	040308
TER 35040 S	35,0	40	59	238	148	68	170	050412
TER 36040 S	36,0	40	59	242	152	68	174	050412
TER 37040 S	37,0	40	59	246	156	68	178	050412
TER 38040 S	38,0	40	59	250	160	68	182	050412
TER 39040 S	39,0	40	59	254	164	68	186	050412
TER 40040 S	40,0	40	59	258	168	68	190	060412
TER 41040 S	41,0	40	59	262	172	68	194	060412
TER 42040 S	42,0	40	59	266	176	68	198	060412
TER 43040 S	43,0	40	59	270	180	68	202	060412
TER 44040 S	44,0	40	59	274	184	68	206	060412
TER 45040 S	45,0	40	59	278	188	68	210	060412
TER 46040 S	46,0	40	59	290	192	68	222	060412
TER 47040 S	47,0	40	59	294	196	68	226	060412
TER 48040 S	48,0	40	59	298	200	68	230	060412
TER 49040 S	49,0	40	59	302	204	68	234	060412
TER 50040 S	50,0	40	59	306	211	68	238	080412

APPLICATION OF THE TURNING GRADE

OMP TOOLS	DIN ISO 513	MATERIAL						QUICK PICK	TOUGHNESS	INDICATIONS - USE	
		P	M	K	N	S	H				
		STEEELS	STAINLESS STEEELS	CAST IRON	NON FERROUS MATERIAL	DIFFERENTIALS	HARD MATERIALS				
U3610	HC	P10-30	○		●					●	<ul style="list-style-type: none"> - Wear Resistant insert - Ideal for medium to high cutting speeds - Suitable for machining cast iron
	CVD	K10-25									
U5320	HC	P10-30	●	○	○				●	<ul style="list-style-type: none"> - Medium tough insert - Ideal for medium to high cutting speeds - Suitable for machining alloyed and weakly alloyed steels 	
	CVD	M20-35 K15-30									
U5322	HC	P10-30	●	●	○				●	<ul style="list-style-type: none"> - Medium tough insert - Ideal for medium to high cutting speeds - Suitable for both low-alloy and inox steel 	
	CVD	M15-30 K15-30									
U530	HC	P30-40	●	○					●	<ul style="list-style-type: none"> - Very tough grade, particularly suitable for low cutting speed and for very tough materials - Also suitable for stainless steel and non ferrous materials 	
	CVD	M20-25									

CUTTING SPEED OF TURNING GRADE

MAT	VDI 3323 GR.	HB HRC Rm	U3610	U5320	U5322	U530							
P S T E E L	1	125			180-350	100-180							
	2	180			180-320	100-180							
	3	250			160-300	100-180							
	4	220			160-300	100-180							
	5	300			160-280	90-160							
	6	180	110-220	120-250									
	7-8	250-300	70-170	70-200									
	9	350	100-210	100-250									
	10	200	70-180	70-200									
	11	350	100-230	100-250									
	12	200	100-180	100-230									
	13	330	100-200	100-230									
	M *	14.1	180		100-140	120-200	70-130						
14.2		230-260		80-120	100-180	60-100							
K C I A R B O N	15	180	80-220	80-120									
	16	260	70-180	70-150									
	17	160	130-280	110-250									
	18	250	75-230	70-180									
	19	130	80-200	70-150									
	20	230	70-180	70-140									
N M A T	21	60			200-550	200-550							
	22	100			200-550	200-550							
	23	75			200-550	200-550							
	24	90			200-550	200-550							
	25	130			200-550	200-550							
	26	110			200-400	200-400							
	27	90			200-400	200-400							
	28	100			200-400	200-400							
	29												
	30												
S D M A T E R I A L S	31	200											
	32	280											
	33	250											
	34	350											
	35	320											
	36	Rm400											
	37	Rm1050											
H **	38	55HRC											
	39	60HRC											
	40	400											
	41	55HRC											

* STAINLESS STEELS

** HARD MATERIALS

INSERTS DESIGNATION FOR DRILLING

W	C	G	T
1	2	3	4

06	03	04
5	6	7

S	N
8	9

-	-	-	P
10	11	12	13

1 SHAPE OF INSERT

A	85°	B	82°
C	80°	D	59°
E	75°	H	
K	55°	L	
M	86°	R	
S		T	
V	35°	W	

2 RELIEF ANGLE

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

3 TOLLERANCE +/- (mm)

	m	s	d
A	+/-0,005	+/-0,025	+/-0,025
C	+/-0,013	+/-0,025	+/-0,025
E	+/-0,025	+/-0,025	+/-0,025
F	+/-0,005	+/-0,025	+/-0,013
G	+/-0,025	+/-0,05 +/-0,13	+/-0,025
H	+/-0,013	+/-0,025	+/-0,013
J	+/-0,005	+/-0,025	+/-0,05 +/-0,13
K	+/-0,013	+/-0,025	+/-0,05 +/-0,13
L	+/-0,005	+/-0,013	+/-0,025
M	+/-0,08 +/-0,18	+/-0,13	+/-0,05 +/-0,18
N	+/-0,08 +/-0,18	+/-0,025	+/-0,05 +/-0,13
U	+/-0,13 +/-0,38	+/-0,05 +/-0,13	+/-0,08 +/-0,32

4 TYPE OF INSERT

A	N	
B	Q	
C	R	
F	T	
G,P	U	
H	W	
J	X	SPECIAL
M		

5 CUTTING EDGE LENGHT

INSCRIBED CIRCLE	A	C	D	E	K	L	M	R	S	T	V	W
3,97												02
4,76										08		02-03
5,56		05								09		
6,00												03
6,35		06	07	06			06	06	11	11		04
6,70	10											
7,94								07				
8,00				08				08				05
9,45	16											
9,52	15-16	09	11	09	16	15	09	09	16	16		06
10,00								10				06
11,00									11			
11,50						12						
12,00								12				07
12,62						18						
12,70		12	15	12		15-20			12	22		08
15,87		16							15			
19,05		19							19			

6 THICKNESS

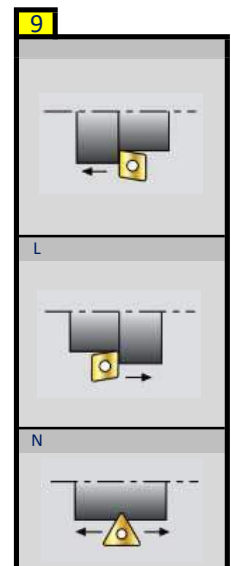
S	mm
01	1,59
T1	1,97
02	2,38
T2	2,78
H3	2,80
X3	3,00
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
09	9,52

7 RADIUS

R	MO (mm)
00 (°)	
r (mm)	
02	r=0,2
04	r=0,4
05	r=0,5
06	r=0,6
08	r=0,8
10	r=1,0
12	r=1,2
16	r=1,6

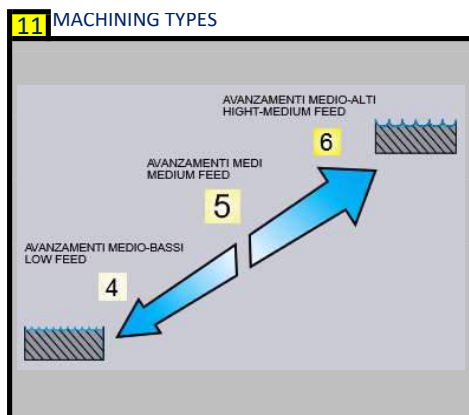
8

F
E
T
S



10 IDENTIFICATION LETTER

A	N
C	P
D	R
E	S
H	T
I	U
J	W
K	Y
L	Z
M	

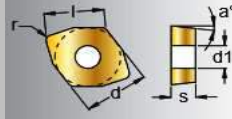


12 CUTTING EDGE PREPARATION

1=	SPECIFIC FOR CAST IRON
3=	SPECIFIC FOR ST. STEEL
7=	SPECIFIC FOR AL. ALLOYS
9=	SPECIFIC FOR STEEL
2=	INTERMEDIATE FOR GENERAL USE
4=	
5=	
6=	
8=	



QCMX



ITEM	CODE	l	d	s	d1	r	a°	HW		HC							
								U3610		U530	U5322	U5320					
Y36	QCMX 010204 Y36	5,4	5,8	2,38	2,5	0,4	7							●			
	QCMX 020204 Y36	6,6	7,1	2,38	2,5	0,4	7							●			
	QCMX 030308 Y36	8,3	8,8	3,18	3,4	0,8	7							●			
	QCMX 040308 Y36	9,6	10,2	3,18	3,4	0,8	7							●			
	QCMX 050412 Y36	11,3	12,1	4,76	4,3	1,2	7							●			
	QCMX 060412 Y36	13,8	14,8	4,76	4,3	1,2	7							●			
	QCMX 080412 Y36	17,2	18,5	4,76	4,3	1,2	7							●			
Y42	QCMX 010204 Y42	5,4	5,8	2,38	2,5	0,4	7								●		
	QCMX 020204 Y42	6,6	7,1	2,38	2,5	0,4	7								●		
	QCMX 030308 Y42	8,3	8,8	3,18	3,4	0,8	7								●		
	QCMX 040308 Y42	9,6	10,2	3,18	3,4	0,8	7								●		
	QCMX 050412 Y42	11,3	12,1	4,76	4,3	1,2	7								●		
	QCMX 060412 Y42	13,8	14,8	4,76	4,3	1,2	7								●		
	QCMX 080412 Y42	17,2	18,5	4,76	4,3	1,2	7								●		
Y52	QCMX 010204 Y52	5,4	5,8	2,38	2,5	0,4	7			●					●		
	QCMX 020204 Y52	6,6	7,1	2,38	2,5	0,4	7			●					●		
	QCMX 030308 Y52	8,3	8,8	3,18	3,4	0,8	7			●					●		
	QCMX 040308 Y52	9,6	10,2	3,18	3,4	0,8	7			●					●		
	QCMX 050412 Y52	11,3	12,1	4,76	4,3	1,2	7			●					●		
	QCMX 060412 Y52	13,8	14,8	4,76	4,3	1,2	7			●					●		
	QCMX 080412 Y52	17,2	18,5	4,76	4,3	1,2	7			●					●		

MATERIAL		U3610							U530	U5322	U5320
P	STEEL	○							●	●	●
M	STAINLESS STEEL								○	○	○
K	CAST IRON	●								○	
N	ALUMINIUM ALLOYS								○		
S	HEAT RESISTANT ALLOYS										
H	HARD AND HARDENED MATERIAL										

- RECOMMENDED APPLICATION
- POSSIBLE APPLICATION

Item	Price €
QCMX 010204 Y36 U530	8,64
QCMX 010204 Y42 U5322	8,24
QCMX 010204 Y52 U3610	8,64
QCMX 010204 Y52 U5320	8,24
QCMX 020204 Y36 U530	9,04
QCMX 020204 Y42 U5322	8,64
QCMX 020204 Y52 U3610	9,04
QCMX 020204 Y52 U5320	8,64
QCMX 030308 Y36 U530	9,20
QCMX 030308 Y42 U5322	8,80
QCMX 030308 Y52 U3610	9,20
QCMX 030308 Y52 U5320	8,80
QCMX 040308 Y36 U530	10,32
QCMX 040308 Y42 U5322	9,76
QCMX 040308 Y52 U3610	10,32
QCMX 040308 Y52 U5320	9,76
QCMX 050412 Y36 U530	11,68
QCMX 050412 Y42 U5322	11,36
QCMX 050412 Y52 U3610	11,68
QCMX 050412 Y52 U5320	11,36
QCMX 060412 Y36 U530	13,20
QCMX 060412 Y42 U5322	12,56
QCMX 060412 Y52 U3610	13,20
QCMX 060412 Y52 U5320	12,56
QCMX 080412 Y36 U530	15,28
QCMX 080412 Y42 U5322	14,72
QCMX 080412 Y52 U3610	15,28
QCMX 080412 Y52 U5320	14,72
TER 15020 S	209,60
TER 15030 S	220,00
TER 15040 S	244,00
TER 15520 S	209,60
TER 15530 S	220,00
TER 15540 S	244,00
TER 16020 S	209,60
TER 16030 S	220,00
TER 16040 S	244,00
TER 16520 S	209,60
TER 16530 S	220,00
TER 16540 S	244,00
TER 17020 S	209,60
TER 17030 S	220,00
TER 17040 S	244,00
TER 17520 S	220,80
TER 17530 S	232,00

Item	Price €
TER 17540 S	256,00
TER 18020 S	220,80
TER 18030 S	232,00
TER 18040 S	256,00
TER 18520 S	220,80
TER 18530 S	232,00
TER 18540 S	256,00
TER 19020 S	220,80
TER 19030 S	232,00
TER 19040 S	256,00
TER 19520 S	220,80
TER 19530 S	232,00
TER 19540 S	256,00
TER 20020 S	220,80
TER 20030 S	232,00
TER 20040 S	256,00
TER 20520 S	228,00
TER 20530 S	239,20
TER 20540 S	264,00
TER 21020 S	228,00
TER 21030 S	239,20
TER 21040 S	264,00
TER 21520 S	228,00
TER 21530 S	239,20
TER 21540 S	264,00
TER 22020 S	228,00
TER 22030 S	239,20
TER 22040 S	264,00
TER 22520 S	228,00
TER 22530 S	239,20
TER 22540 S	264,00
TER 23020 S	228,00
TER 23030 S	239,20
TER 23040 S	264,00
TER 23520 S	228,00
TER 23530 S	239,20
TER 23540 S	264,00
TER 24020 S	228,00
TER 24030 S	239,20
TER 24040 S	264,00
TER 24520 S	228,00
TER 24530 S	239,20
TER 24540 S	264,00
TER 25020 S	251,20
TER 25030 S	264,00

Item	Price €
TER 25040 S	292,00
TER 25520 S	251,20
TER 25530 S	264,00
TER 25540 S	292,00
TER 26020 S	251,20
TER 26030 S	264,00
TER 26040 S	292,00
TER 26520 S	251,20
TER 26530 S	264,00
TER 26540 S	292,00
TER 27020 S	258,40
TER 27030 S	272,00
TER 27040 S	300,00
TER 27520 S	258,40
TER 27530 S	272,00
TER 27540 S	300,00
TER 28020 S	258,40
TER 28030 S	272,00
TER 28040 S	300,00
TER 28520 S	258,40
TER 28530 S	272,00
TER 28540 S	300,00
TER 29020 S	270,40
TER 29030 S	284,00
TER 29040 S	320,00
TER 29520 S	270,40
TER 29530 S	284,00
TER 29540 S	320,00
TER 30020 S	270,40
TER 30030 S	284,00
TER 30040 S	320,00
TER 30520 S	270,40
TER 30530 S	284,00
TER 31020 S	270,40
TER 31030 S	284,00
TER 31040 S	320,00
TER 31520 S	270,40
TER 31530 S	284,00
TER 32020 S	319,20
TER 32030 S	336,00
TER 32040 S	372,00
TER 32520 S	319,20
TER 32530 S	336,00
TER 33020 S	319,20
TER 33030 S	336,00

Item	Price €
TER 33040 S	372,00
TER 33520 S	319,20
TER 33530 S	336,00
TER 34020 S	319,20
TER 34030 S	336,00
TER 34040 S	372,00
TER 34530 S	336,00
TER 35030 S	352,00
TER 35040 S	392,00
TER 35530 S	352,00
TER 36030 S	352,00
TER 36040 S	392,00
TER 36530 S	352,00
TER 37030 S	352,00
TER 37040 S	392,00
TER 37530 S	352,00
TER 38030 S	360,00
TER 38040 S	400,00
TER 38530 S	360,00
TER 39030 S	360,00
TER 39040 S	400,00
TER 39530 S	360,00
TER 40030 S	360,00
TER 40040 S	400,00
TER 41030 S	360,00
TER 41040 S	400,00
TER 42030 S	401,60
TER 42040 S	448,00
TER 43030 S	401,60
TER 43040 S	448,00
TER 44030 S	401,60
TER 44040 S	448,00
TER 45030 S	401,60
TER 45040 S	448,00
TER 46030 S	416,00
TER 46040 S	464,00
TER 47030 S	416,00
TER 47040 S	464,00
TER 48030 S	416,00
TER 48040 S	464,00
TER 49030 S	416,00
TER 49040 S	464,00
TER 50030 S	444,00
TER 50040 S	488,00
TER 51030 S	444,00

Item	Price €
TER 52030 S	444,00
TER 53030 S	444,00
TER 54030 S	444,00
TER 55030 S	461,60
TER 56030 S	461,60
TER 57030 S	461,60
TER 58030 S	476,00
TER 59030 S	476,00
TER 60030 S	476,00

ATTENTION!!!

**ALL PRICES SHOWN IN THIS PRESENTATION
DO NOT INCLUDE TRANSPORT COSTS AND
CUSTOM DUTIES**

PRICES EXW BRESCIA (ITALIA)



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