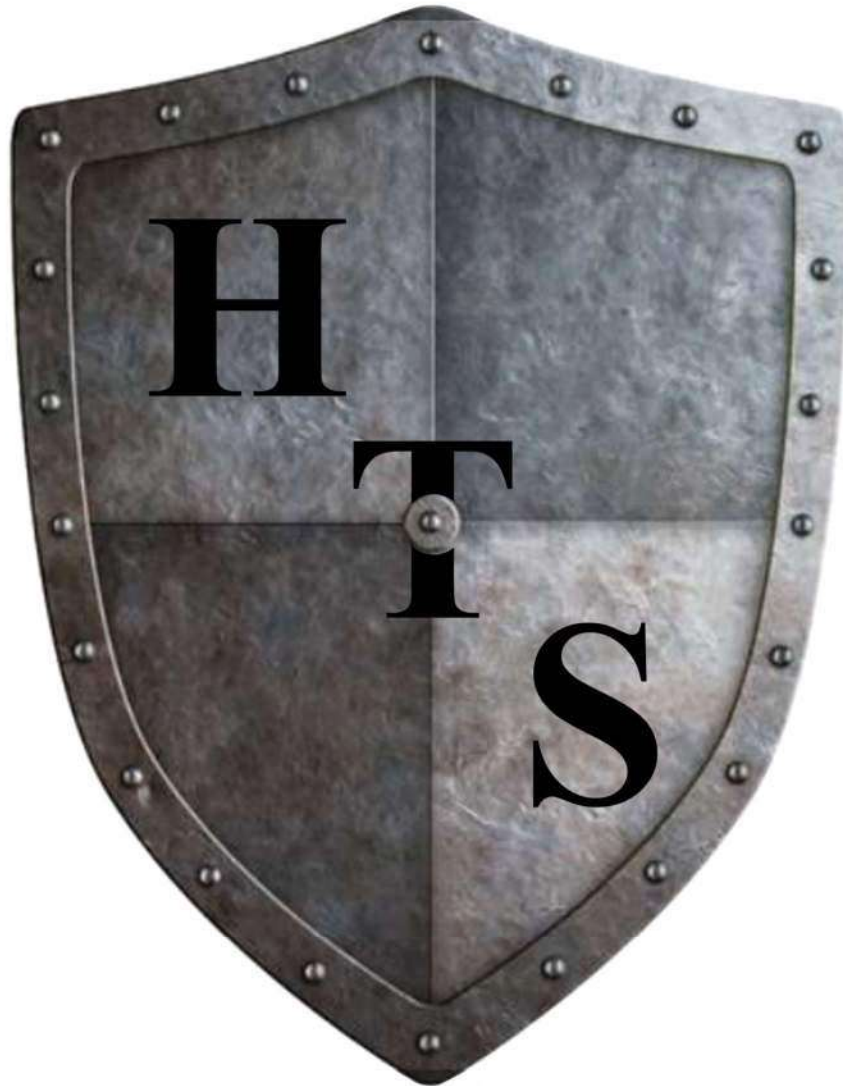
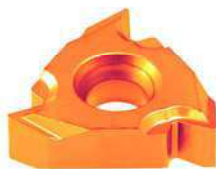


TURNING



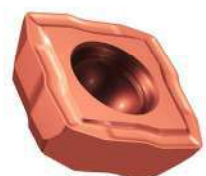
THREADING



GROOVING



MILLING



DRILLING



HTS - Inserts





God Blesses Your Job
Gott segnet eure Arbeit
Dieu Bénisse Votre Travail
Dio Benedica il Vostro Lavoro
Dios Bendiga Vuestro Trabajo



HTS

Hi-Tech Tools Systems

Crio - Cutting Tools Production

Rivarolo Canavese

Torino - Italy

Tel. 00 39 0124 960 010

(20 lines r.a.)

Web Site : www.hts-crio-tools.eu

E-mail : info@hts-crio-tools.eu





Die Gruppe

Die Familie Picco herstellt Werkzeuge seit 1992.
Heute HTS ist für die Qualität ihrer Werkzeuge weltweit bekannt.
HTS freut sich die neue Palette von Kryowerkzeuge seit 2026 zu vorstellen.
Stechplatten - Drehplatten - Gewindeplatten - Bohrenplatten - Fräsenplatten

Le Groupe

C'est depuis 1992 que la Famille Picco produit outils.
Aujourd'hui la HTS est connu dans le monde pour la qualité de son produits.
À partir de 2026 HTS est heureux de présenter la Nouvelle Gamme de Cryo Outils.
Tronçonnage - Tournage - Filetage - Perçage - Fraisage

The Group

Since 1992 the Picco Family produce Cutting Tools.
Today the HTS is known in the world for the quality of its tools.
Since 2026 HTS is happy to present the New Line of Cryo Tools.
Grooving - Turning - Threading - Drilling - Milling

Il Gruppo

Dal 1992 la Famiglia Picco produce Utensili da Taglio.
Oggi la HTS è conosciuta nel Mondo per la Qualità dei suoi Prodotti.
Dal 2026 la HTS è Felice di Presentare la Nuova Linea di Cryo Utensili
Troncatura - Tornitura - Filettatura - Foratura - Fresatura

El Grupo

Desde 1992 la Familia Picco produce Herramientas de Corte.
Hoy la HTS es conocida en el mundo por la Calidad de sus Productos.
Desde 2026 HTS es feliz de presentar la Nueva Linea de Herramientas de Corte Cryo.
Tronzado - Torneado - Roscar - Taladro - Fresado



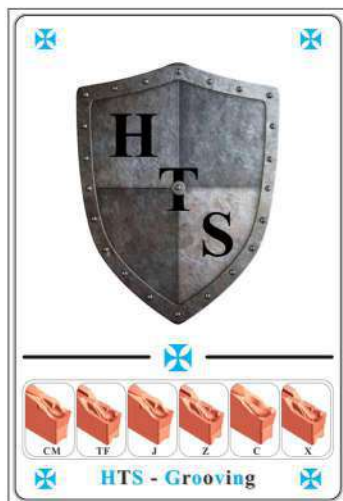


H T S



GLOBAL NETWORK

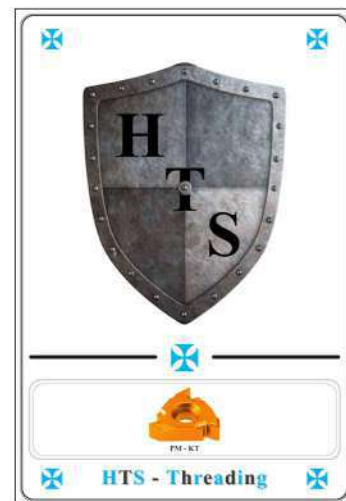




PM7025
Grooving - Inox Line



CR4030 - CR5030
CR7300 - CM7010
Turning - Inox Line

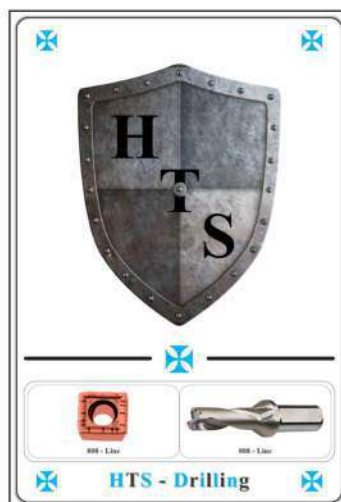


PM - KT
Threading - Inox Line

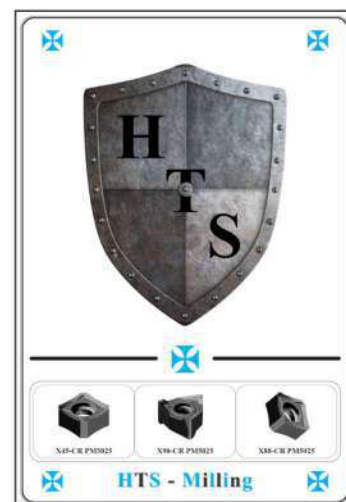
HTS - Inserts



MD225
Mono Drills Line



808
Drilling Line



PM5025
Milling Line





HTS



WERKSTOFFE - MATIÈRES - MATERIALS

W-Nr	DIN	UNI	AFNOR	R = mm ²	% Cr	% C	% Mo	% Ni	% Si	% Mn
1.0037	St37-2	Fe360B	E 24-2	P 350 > 500	-	0.10÷0.20	-	-	-	1.30÷1.50
1.0038	RSt37-2	Fe360B	E 24-2	P 350 > 500	-	0.10÷0.20	-	-	-	1.40÷1.60
1.0044	St44-2	Fe430B	E 28-2	P 400 > 600	-	0.10÷0.20	-	-	-	1.50÷1.60
1.0050	St50-2	Fe490	A 50-2	P 400 > 700	0.35÷0.45	0.30÷0.40	0.05÷0.10	0.25÷0.40	0.40÷0.60	1.10÷1.30
1.0060	St60-2+S	Fe590+S	A 60-2+S	P 500 > 700	-	0.37÷0.45	-	-	0.40÷0.60	1.30÷1.50
1.0070	St70-2	Fe690	A 70-2	P 700 > 1200	-	-	-	-	-	-
1.0122	RSt37-2	Fe360B	E 24-2	P 350 > 500	-	0.10÷0.20	-	-	-	1.40÷1.60
1.0214	QSt 36-3	CB 10 FF	XC 10 FF	P 350 > 500	-	0.08÷0.12	-	-	0.05÷0.15	0.30÷0.50
1.0301	CK10	C10	XC 10	P 350 > 550	-	0.07÷0.13	-	-	0.35÷0.45	0.30÷0.60
1.0303	Qst 32-3	CB 4 FF	XC 6 FF	P 350 > 550	-	0.02÷0.06	-	-	0.05÷0.15	0.25÷0.40
1.0401	CK15	C15	XC 12	P 350 > 750	-	0.12÷0.18	-	-	0.35÷0.45	0.30÷0.80
1.0402	CK22	C22	-	P 350 > 750	0.35÷0.45	0.17÷0.24	0.05÷0.15	0.35÷0.45	0.35÷0.45	0.40÷0.70
1.0406	CK25	C25	AF 50 C 30	P 350 > 750	-	0.22÷0.28	-	-	0.15÷0.35	0.30÷0.60
1.0501	CK35	C35	AF 55 C 35	P 500 > 850	0.35÷0.45	0.32÷0.39	0.05÷0.15	0.35÷0.45	0.35÷0.45	0.50÷0.80
1.0503	CK45	C45	AF 65 C 45	P 500 > 950	0.35÷0.45	0.42÷0.50	0.05÷0.15	0.35÷0.45	0.35÷0.45	0.50÷0.80
1.0511	CK40	C40	AF 60 C 40	P 500 > 950	0.35÷0.45	0.37÷0.44	0.05÷0.15	0.35÷0.45	0.35÷0.45	0.50÷0.80
1.0528	CK30	C30	XC 32	P 500 > 850	0.15÷0.35	0.27÷0.34	-	0.15÷0.35	0.15÷0.35	0.50÷0.80
1.0535	CK55	C55	-	P 500 > 950	-	0.52÷0.60	-	-	0.15÷0.35	0.60÷0.90
1.0540	CK50	C50	-	P 500 > 950	0.35÷0.45	0.47÷0.55	0.05÷0.15	0.35÷0.45	0.35÷0.45	0.60÷0.90
1.0543	St60-2+S	Fe590+S	A 60-2+S	P 500 > 700	-	0.37÷0.45	-	-	0.40÷0.60	1.30÷1.50
1.0570	St52-3	Fe510 B-C-D	E 36 - 4	P 400 > 700	-	0.15÷0.35	-	-	0.40÷0.60	1.50÷1.70
1.0577	St52-3	Fe 510 D	E 36 - 4	P 400 > 700	-	0.15÷0.35	-	-	0.40÷0.60	1.50÷1.70
1.0579	St52-3 N	Fe 510 D	E 36 - 4	P 400 > 700	-	0.15÷0.35	-	-	0.40÷0.60	1.50÷1.70
1.0601	CK60	C60	-	P 500 > 950	-	0.57÷0.65	-	-	0.15÷0.35	0.60÷0.90
1.0711	9S20	CF10S20	-	P 350 > 500	-	0.10÷0.20	-	-	0.10÷0.35	0.75÷1.10
1.0715	9SMn28	CF9SMn28	S 250	P 400 > 700	-	0.10 ÷ 0.20	-	-	0.05 ÷ 0.10	0.90 ÷ 1.30
1.0718	9SMnPb28	CF9SMnPb28	S 250 Pb	P 400 > 700	-	0.10÷0.20	-	-	0.05÷0.10	0.90÷1.30
1.0722	10SPb 20	CF10SPb20	13 MF 4 + Pb	P 400 > 700	-	0.07÷0.13	-	-	0.30÷0.50	0.70÷1.10
1.0725	15S10	-	-	P 500 > 850	-	0.14÷0.18	-	-	0.30÷0.50	1.00÷1.30
1.0726	35S20	-	-	P 500 > 850	-	0.32÷0.39	-	-	0.30÷0.50	0.70÷1.10
1.0727	45S20	-	-	P 550 > 850	-	0.42÷0.50	-	-	0.30÷0.50	0.70÷1.10
1.0736	9SMn36	CF9SMn36	S 300	P 550 > 850	-	0.10÷0.20	-	-	0.05÷0.10	1.00÷1.50
1.0737	9SMnPb36	CF9SMnPb36 (AVP)	S 300 Pb	P 550 > 850	-	0.10÷0.20	-	-	0.05÷0.10	1.00÷1.50
1.0757	45SPb20	-	-	P 550 > 850	-	0.42÷0.50	-	-	0.30÷0.50	0.70÷1.10
1.0762	-	CF44SMn28	45 MF 6.3	P 650 > 850	-	0.40÷0.48	-	-	0.30÷0.50	1.30÷1.70
1.0763	-	CF44SMnPb28	45 MF 6.3 + Pb	P 650 > 850	-	0.40÷0.48	-	-	0.30÷0.50	1.30÷1.70
1.0765	-	CF35 SMnPb 10	35 MF 6 Pb	P 600 > 800	-	0.32÷0.39	-	-	0.30÷0.50	1.30÷1.70
1.1121	Ck10	C10E	XC 10	P 350 > 750	0.30÷0.50	0.07÷0.13	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.30÷0.60
1.1141	Ck15	C15E	XC 12	P 350 > 750	0.30÷0.50	0.12÷0.18	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.30÷0.60
1.1148	-	C16E	-	P 350 > 750	0.30÷0.50	0.12÷0.18	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.60÷0.90
1.1149	Cm22	C22R	XC18u	P 350 > 750	0.30÷0.50	0.17÷0.24	0.05÷0.15	0.30÷0.50	0.30÷0.50	0.40÷0.70
1.1151	Ck22	C22E	XC18	P 450 > 850	0.30÷0.50	0.17÷0.24	0.05÷0.15	0.30÷0.50	0.30÷0.50	0.40÷0.70
1.1178	Ck30	C30E	XC 32	P 450 > 850	0.30÷0.50	0.27÷0.34	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1179	Cm30	C30R	XC 32	P 450 > 850	0.30÷0.50	0.27÷0.34	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1180	Cm35	C35R	-	P 550 > 850	0.30÷0.50	0.32÷0.39	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1181	Ck35	C35E	-	P 550 > 850	0.30÷0.50	0.32÷0.39	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1183	Cf35	C33	XC 32	P 450 > 850	0.20÷0.40	0.30÷0.36	-	0.20÷0.40	0.15÷0.40	0.60÷0.90
1.1186	Ck40	C40E	XC 38	P 600 > 950	0.30÷0.50	0.37÷0.44	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1189	Cm40	C40R	XC 38	P 600 > 950	0.30÷0.50	0.37÷0.44	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80





HTS



WERKSTOFFE - MATIÈRES - MATERIALS

W-Nr	DIN	UNI	AFNOR	R = mm ²	% Cr	% C	% Mo	% Ni	% Si	% Mn
1.1191	Ck45	C45E	XC 45	P 650 > 1050	0.30÷0.50	0.42÷0.50	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1193	Cf45	C48	XC 48 TF	P 650 > 1050	0.30÷0.50	0.45÷0.52	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.50÷0.80
1.1201	Cm45	C45R	XC 45	P 650 > 1050	0.30÷0.50	0.42÷0.50	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.1203	Ck55	C55E	XC 55	P 700 > 1100	0.30÷0.50	0.52÷0.60	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.60÷0.90
1.1206	Ck50	C50E	-	P 700 > 1100	0.30÷0.50	0.47÷0.55	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.60÷0.90
1.1207	Ck10	C10R	XC 10	P 350 > 750	0.30÷0.50	0.07÷0.13	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.30÷0.60
1.1208	-	C16E	-	P 350 > 850	0.30÷0.50	0.12÷0.18	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.60÷0.90
1.1213	Cf53	C53	XC 55 TS	P 700 > 1100	0.15÷0.25	0.52÷0.57	0.05÷0.15	0.15÷0.25	0.15÷0.35	0.60÷0.80
1.1231	Ck67	C67S	C 68 RR	P 700 > 1200	0.30÷0.50	0.65÷0.73	0.05÷0.15	0.30÷0.50	0.15÷0.35	0.60÷0.90
1.1241	Cm50	C50	-	P 700 > 1100	0.30÷0.50	0.47÷0.55	0.05÷0.15	0.30÷0.50	0.10÷0.40	0.60÷0.90
1.1248	Ck75	C75S	-	P 700 > 1200	0.30÷0.50	0.70÷0.80	0.05÷0.15	0.30÷0.50	0.15÷0.35	0.60÷0.80
1.1269	Ck85	C85S	-	P 800 > 1200	0.30÷0.50	0.80÷0.90	0.05÷0.15	0.30÷0.50	0.15÷0.35	0.40÷0.70
1.1274	Ck101	C100	-	P 1000 > 1400	0.15÷0.25	0.95÷1.05	0.05÷0.15	0.30÷0.50	0.15÷0.40	0.40÷0.60
1.2080	X210Cr12	X210Cr12 AISI D3	-	M 700 > 900	11.0÷12.0	1.90÷2.20	0.15÷0.25	0.15÷0.25	0.10÷0.40	0.15÷0.45
1.2083	X210Cr12	X210Cr12 AISI 420C	-	M 700 > 1000	12.0÷14.0	0.30÷0.40	0.15÷0.25	0.15÷0.25	0.10÷0.40	0.15÷0.45
1.2311	40CrMnMo7	35CrMo8 KU AISI P20	35CMD7	M 950 > 1100	1.80÷2.10	0.35÷0.45	0.15÷0.25	-	0.20÷0.40	1.30÷1.60
1.2343	X38CrMoV5-1	X37CrMoV5-1 KU AISI H11	Z38CDV5	M 700 > 900	4.80÷5.50	0.36÷0.42	1.10÷1.40	-	0.90÷1.20	0.30÷0.50
1.2344	X40CrMoV5-1	X40CrMoV5-1-1 KU AISI H13	Z40CDV5	M 700 > 900	4.80÷5.50	0.37÷0.43	1.20÷1.50	-	0.90÷1.20	0.30÷0.50
1.2363	X100CrMoV5-1	X100CrMoV5-1KU AISI A2	Z100CDV5	M 700 > 900	4.80÷5.50	0.95÷1.05	1.00÷1.20	-	0.15÷0.35	0.40÷0.60
1.2365	X32CrMoV33	30CrMoV12-27 KU AISI H10	30CDV28	M 700 > 900	2.70÷3.20	0.28÷0.35	2.60÷3.00	-	0.10÷0.40	0.15÷0.45
1.2379	X155CrVMo12-1	X155CrVMo12-1KU AISI D2	Z160CDV12	M 700 > 900	11.0÷12.0	1.50÷1.60	0.60÷0.80	-	0.10÷0.40	0.15÷0.45
1.2419	105WCr6	-	-	M 700 > 900	0.90÷1.10	1.00÷1.10	-	-	0.15÷0.35	0.90÷1.10
1.2436	X210CrW12	X205CrW12KU AISI D6	-	M 700 > 900	11.0÷13.0	2.00÷2.10	-	-	0.15÷0.35	0.40÷0.50
1.2510	100MnCrW4	95MnWCr5KU AISI O1	-	M 700 > 900	0.40÷0.60	1.00÷1.10	-	-	0.15÷0.35	1.10÷1.30
1.2542	45WCrV7	45WCrV7 AISI S1	-	M 700 > 900	0.90÷1.10	0.40÷0.60	-	-	0.80÷0.90	0.20÷0.40
1.2550	60WCrV7	55WCrV8KU AISI S1	55WC20	M 700 > 900	0.90÷1.20	0.55÷0.65	-	-	0.50÷0.70	0.15÷0.45
1.2567	X30WCrV5-3	X30WCrV5-3 KU AISI H21	Z32WCV5	M 700 > 900	2.20÷2.50	0.25÷0.35	-	-	0.15÷0.35	0.20÷0.40
1.2581	X30WCrV9-3	X30WCrV9-3 KU AISI H21	Z30WCV9	M 700 > 900	2.80÷2.90	0.25÷0.35	-	-	0.15÷0.35	0.20÷0.40
1.2601	X165CrMoV12	K105	-	M 700 > 900	11.0÷12.0	1.60÷1.70	0.50÷0.70	-	0.20÷0.40	0.15÷0.35
1.2713	55NiCrMoV6	55NiCrMoV7 KU AISI L6	-	M 700 > 900	0.60÷0.80	0.50÷0.60	0.20÷0.40	1.60÷1.70	0.20÷0.40	0.70÷0.90
1.2714	56NiCrMoV7	56NiCrMoV7 KU AISI L6	-	M 1000 > 1200	1.00÷1.20	0.50÷0.60	0.45÷0.55	1.50÷1.80	0.20÷0.40	0.65÷0.95
1.2721	50NiCr13	-	-	M 700 > 900	1.00÷1.10	0.40÷0.60	-	3.10÷3.30	0.15÷0.35	0.40÷0.60
1.2767	X45NiCrMo4	40NiCrMoV16 KU AISI 6F7	Y35NCD16	M 700 > 900	1.20÷1.50	0.40÷0.60	0.15÷0.35	3.80÷4.30	0.20÷0.40	0.15÷0.45
1.2842	90MnCrV8	90MnVCr8KU AISI O2	90MV8	M 700 > 900	0.20÷0.50	0.85÷0.95	-	-	0.20÷0.40	1.90÷2.10
1.3202	S 12-1-4-5	S390 AISI T15	-	M 1000 > 1100	4.50÷5.00	1.60÷1.70	1.80÷2.20	-	0.50÷0.70	0.25÷0.35
1.3207	S 10-4-3-10	S700 AISI T42	-	M 1000 > 1100	3.50÷4.50	1.20÷1.30	3.50÷3.70	-	0.15÷0.35	0.25÷0.35
1.3243	S 6-5-2-5	S705 AISI M35	-	M 900 > 1000	4.00÷4.20	0.85÷0.95	4.90÷5.10	-	-	-
1.3247	S 2-10-1-8	S500 AISI M42	-	M 900 > 1000	3.80÷4.00	1.00÷1.20	9.10÷9.40	-	0.50÷0.70	0.15÷0.25
1.3253	ASP 2052	ASP 2052	-	M 1000 > 1100	4.70÷4.90	1.50÷1.70	1.90÷2.10	-	-	-
-	ASP 2055	ASP 2055	-	M 1000 > 1200	3.90÷4.10	1.60÷1.80	4.50÷4.70	-	-	-
1.3292	ASP 2060	ASP 2060	-	M 1000 > 1200	4.10÷4.30	2.20÷2.40	6.90÷7.10	-	-	-
1.3294	ASP 2030	ASP 2030	-	M 1000 > 1100	4.10÷4.30	1.20÷1.30	4.90÷5.10	-	-	-
-	S 5-6-2-8	C8	-	M 1000 > 1100	3.90÷4.10	0.90÷1.10	5.90÷6.10	-	-	-
1.3343	S 6-5-2	HS 6-5-2 AISI M2	-	M 800 > 900	3.80÷4.50	0.90÷1.10	4.70÷5.20	-	-	-
1.3505	100Cr6	100Cr6	100C6	M 800 > 900	1.35÷1.60	0.95÷1.05	0.05÷0.15	-	0.15÷0.35	0.25÷0.45
1.3536	100CrMo7-3	100CrMo7	100CD7	M 800 > 900	1.65÷1.95	0.95÷1.05	0.15÷0.30	-	0.15÷0.35	0.25÷0.45
1.3537	100CrMo7	100CrMo7	100CrMo7.2	M 600 > 800	1.65÷1.95	0.95÷1.05	-	0.05÷0.15	0.15÷0.35	0.60÷0.80
1.4000	X6Cr13	X6Cr13 AISI 410S	Z 8 C 12	M 600 > 800	12.0÷14.0	0.07÷0.08	-	-	0.95÷1.05	0.95÷1.05
1.4002	X6CrAl13	X6CrAl13 AISI 405	Z 8 CA 12	M 600 > 800	12.0÷14.0	0.07÷0.08	-	-	0.95÷1.05	0.95÷1.05





HTS



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W-Nr	DIN	UNI	AFNOR	R = mm²	% Cr	% C	% Mo	% Ni	% Si	% Mn
1.4003	X2Cr11	X2CrNi12 AISI 410L	-	M 500 > 700	10.5÷12.5	0.02÷0.04	-	0.30÷0.50	0.40÷0.60	0.50÷0.70
1.4005	X12CrS13	X12CrS13 AISI 416	Z 11 CF 13	M 700 > 1000	12.0÷14.0	0.05÷0.15	0.50÷0.70	-	0.90÷1.10	1.40÷1.60
1.4006	X12Cr13	X12Cr13 AISI 410	Z 10 C 13	M 700 > 1000	11.5÷13.5	0.05÷0.15	-	0.65÷0.85	0.90÷1.10	1.40÷1.60
1.4016	X6Cr17	X8Cr17 AISI 430	Z 8 C 17	M 500 > 800	16.0÷18.0	0.05÷0.15	-	-	0.90÷1.10	0.90÷1.10
1.4021	X20Cr13	X20Cr13 AISI 420	Z 20 C 13	M 700 > 1000	12.0÷14.0	0.15÷0.25	-	-	0.90÷1.10	1.40÷1.60
1.4028	X30Cr13	X30Cr13 AISI 420	Z 33 C 13	M 1000 > 1200	12.0÷14.0	0.25÷0.35	-	-	0.90÷1.10	1.40÷1.60
1.4029	X29CrS13	X29CrS13 AISI 420F	Z 29 CF 13	M 900 > 1000	12.0÷14.0	0.25÷0.35	0.10÷0.30	-	0.30÷0.50	1.10÷1.30
1.4031	X38Cr13	X40Cr14 AISI 420	Z 44 C 14	M 800 > 1000	12.5÷14.5	0.35÷0.45	-	-	0.90÷1.10	0.90÷1.10
1.4034	X46Cr13	X40Cr14 AISI 420	Z 44 C 14	M 800 > 1000	12.5÷14.5	0.40÷0.50	-	-	0.90÷1.10	0.90÷1.10
1.4035	X46CrS13	X46CrS13	-	M 700 > 900	12.5÷14.5	0.40÷0.50	-	-	0.90÷1.10	1.90÷2.10
1.4057	X17CrNi16-2	X16CrNi16 AISI 431	Z 15 CN 16-02	M 900 > 1000	15.0÷17.0	0.10÷0.25	-	1.50÷2.50	0.90÷1.10	1.40÷1.60
1.4104	X14CrMoS17	X10CrS17 AISI 430F	Z 13 CF 17	M 800 > 1000	15.5÷17.5	0.10÷0.20	0.20÷0.60	-	0.90÷1.10	1.40÷1.60
1.4105	X6CrMoS17	X10CrS17 AISI 430F	Z 8 CF 17	M 500 > 900	16.0÷18.0	0.05÷0.15	0.20÷0.60	-	1.40÷1.60	1.40÷1.60
1.4109	X70CrMo15	X70CrMo15 AISI 440A	Z 70 CD 15 CI	M 800 > 1000	16.0÷18.0	0.60÷0.80	0.60÷0.80	-	0.90÷1.10	0.90÷1.10
1.4112	X90CrMoV18	X90CrMoV18 AISI 440B	X 89 CrMoV18	M 800 > 1000	16.0÷18.0	0.80÷1.00	0.90÷1.10	-	0.40÷0.60	0.40÷0.60
1.4113	X6CrMo17-1	X8CrMo17 AISI 434	Z 8 CD 17-01	M 400 > 800	16.0÷18.0	0.05÷0.15	0.90÷1.40	-	0.90÷1.10	0.90÷1.10
1.4122	X39CrMo17-1	X39CrMo17-1	-	M 700 > 1000	15.5÷17.5	0.35÷0.45	0.80÷1.30	0.90÷1.10	0.90÷1.10	1.40÷1.60
1.4125	X105CrMo17	X105CrMo17 AISI 440C	Z 100 CD 17	M 900 > 1000	16.0÷18.0	1.00÷1.20	0.50÷0.70	-	0.90÷1.10	0.90÷1.10
1.4301	X5CrNi18-10	X5CrNi1810 AISI 304	Z 7 CN 18-09	M 700 > 1000	17.5÷19.5	0.05÷0.15	-	8.00÷10.5	0.90÷1.10	1.90÷2.10
1.4303	X4CrNi18-12	X8CrNi1812 AISI 305	Z 8 CN 18-12	M 700 > 900	18.0÷20.0	0.02÷0.05	-	11.0÷13.0	0.65÷0.85	1.90÷2.10
1.4305	X8CrNiS18-9	X10CrNiS1809 AISI 303	Z 8 CNF 18-09	M 700 > 900	17.0÷19.0	0.10÷0.20	-	8.00÷10.0	0.90÷1.10	1.90÷2.10
1.4306	X2CrNi19-11	X2CrNi1811 AISI 304 L	Z 3 CN 19-11	M 700 > 900	18.0÷20.0	0.02÷0.05	-	10.0÷12.0	0.90÷1.10	1.90÷2.10
1.4307	X2CrNi18-9	X2CrNi18-9 AISI 304 L	Z 3 CN 19-09	M 700 > 900	17.5÷19.5	0.02÷0.05	-	8.00÷10.5	0.90÷1.10	1.90÷2.10
1.4310	-	X2CrNi17 07 AISI 302	Z 11 CN 18-08	M 500 > 800	16.0÷19.0	0.05÷0.15	-	6.00÷9.50	1.90÷2.10	1.90÷2.10
1.4311	X2CrNiN18-10	X2CrNiN18-10 304LN	Z 2 CN 18-10	M 500 > 800	18.0÷20.0	0.02÷0.05	-	8.00÷9.00	-	1.90÷2.10
1.4313	X3CrNiMo13-4	X6CrNiMo1304 CA6-NM	Z 4 CND 13-04 M	M 800 > 1200	12.0÷14.0	0.05÷0.10	0.30÷0.70	3.50÷4.50	0.60÷0.80	1.40÷1.60
1.4318	X2CrNiN18-7	X2CrNiN18-7 AISI 301LN	Z 3 CN 18-07 Az	M 700 > 1000	16.5÷18.5	0.02÷0.05	-	6.00÷8.00	0.90÷1.10	1.90÷2.10
1.4319	X8CrNi 19-10	X10CrNi1809 AISI 302	712 CN 18-09	M 700 > 1000	16.0÷18.0	0.05÷0.10	-	6.00÷8.00	0.90÷1.10	1.90÷2.10
1.4362	X2CrNiN23-4	X2CrNiN23-4 AISI 2304	-	M 800 > 1400	22.0÷24.5	0.02÷0.05	0.10÷0.60	3.50÷5.50	0.90÷1.10	1.90÷2.10
1.4372	X12CrMnNiN17-7-5	X12CrMnNiN17-7-5	712 CMN 17-07 Az	M 700 > 1000	16.0÷18.0	0.02÷0.05	-	3.50÷4.50	0.90÷1.10	5.50÷7.00
1.4373	X12CrMnNiN18-9-5	X12CrMnNiN18-9-5	-	M 700 > 1000	17.0÷19.0	0.02÷0.05	-	4.00÷6.00	0.90÷1.10	7.50÷10.5
1.4401	X5CrNiMo17-12-2	X5CrNiMo1712 AISI 316	Z 7 CND 17-11-02	M 700 > 1000	16.5÷18.5	0.05÷0.10	2.00÷2.50	10.0÷13.0	0.90÷1.10	1.90÷2.10
1.4404	X2CrNiMo17-12-2	X2CrNiMo1712 316L	Z 3 CND 17-11-02	M 700 > 1000	16.5÷18.5	0.02÷0.05	2.00÷2.50	10.0÷13.0	0.90÷1.10	1.90÷2.10
1.4406	X2CrNiMoN17-11-2	X2CrNiMoN17-12 316LN	Z 2 CND 17-11	M 700 > 900	16.0÷18.0	0.02÷0.05	2.00÷2.50	10.0÷11.0	-	1.60÷1.80
1.4410	X2CrNiMoN25-7-4	X2CrNiMoN25-7-4	-	M 800 > 1200	24.0÷26.0	0.02÷0.05	3.00÷4.50	6.00÷8.00	0.90÷1.10	1.90÷2.10
1.4418	X4CrNiMo16-5-1	X4CrNiMo16-5-1	Z6 CND 16-5-1	M 700 > 900	15.0÷17.0	0.05÷0.10	0.80÷1.50	4.50÷6.50	0.65÷0.75	1.45÷1.55
1.4429	X2CrNiMoN17-13-3	X2CrNiMoN17-13-3 316LN	Z 2 CND 17-13	M 700 > 1000	16.0÷18.0	0.02÷0.05	2.50÷3.00	11.0÷12.0	0.90÷1.10	1.60÷1.80
1.4432	X2CrNiMo17-12-3	X2CrNiMo17-12-3 316 L	Z 3 CND 17-13-03	M 700 > 900	16.5÷18.5	0.02÷0.05	2.50÷3.00	10.0÷13.0	0.90÷1.10	1.90÷2.10
1.4434	X2CrNiMoN18-12-4	X2CrNiMoN18-12-4 317LN	-	M 700 > 1000	17.0÷19.0	0.02÷0.05	3.00÷4.00	10.5÷14.0	0.90÷1.10	1.90÷2.10
1.4435	X2CrNiMo18-14-3	X2CrNiMo17-13 316 L	Z 3 CND 18-14-03	M 700 > 1000	17.0÷19.0	0.02÷0.05	2.50÷3.00	12.5÷15.0	0.90÷1.10	1.90÷2.10
1.4436	X3CrNiMo 17-13-3	X3CrNiMo17-13-3 316	Z 7 CND 18-12-03	M 700 > 1000	16.5÷17.5	0.05÷0.10	2.50÷3.00	11.0÷12.0	0.90÷1.10	1.90÷2.10
1.4438	X2CrNiMo18-16-4	X2CrNiMo18-16 317L	Z 2 CND 19-15	M 700 > 1000	17.5÷19.5	0.02÷0.05	3.00÷4.00	13.0÷16.0	0.90÷1.10	1.90÷2.10
1.4439	X2CrNiMoN17-13-5	X2CrNiMoN17-13-5 317LN	Z 2 CND 17-13-05 AZ	M 700 > 900	16.5÷18.5	0.02÷0.05	4.00÷5.00	12.5÷14.5	0.90÷1.10	1.90÷2.10
1.4460	X3CrNiMoN27-5-2	X3CrNiMoN27-5-2 329	Z 5 CND 27-05 AZ	M 700 > 1000	25.0÷28.0	0.05÷0.10	1.30÷2.00	4.50÷6.50	0.90÷1.10	1.90÷2.10
1.4462	X2CrNiMoN22-5-3	X2CrNiMoN22-5-3 2205	Z 3 CND 22-05 AZ	M 800 > 1200	21.0÷23.0	0.02÷0.05	2.50÷3.50	4.50÷6.50	0.90÷1.10	1.90÷2.10
1.4466	X1CrNiMoN25-22-2	X1CrNiMoN25-22-2 310	Z 1 CND 25 - 22 AZ	M 700 > 900	24.0÷26.0	0.02÷0.05	1.60÷2.60	20.5÷23.5	0.90÷1.10	0.90÷1.10
1.4501	X2CrNiMoCuWN15-7	X2CrNiMoCuWN15-7-4	Z 3 CNDU 25-06 AZ	M 700 > 1000	24.0÷26.0	0.02÷0.05	3.00÷4.00	6.00÷8.00	0.40÷0.60	0.50÷0.70
1.4507	X2CrNiMoCuN22-6-3	X2CrNiMoCuN22-6-3	Z3 CNDU 25-07 AZ	M 700 > 1000	24.0÷26.0	0.02÷0.05	3.00÷4.00	6.00÷8.00	0.65÷0.75	1.90÷2.10
1.4509	X2CrTiNb18	X2CrTiNb18	-	M 500 > 800	17.5÷18.5	0.02÷0.05	-	-	0.90÷1.10	0.90÷1.10





HTS



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W-Nr	DIN	UNI	AFNOR	R = mm ²	% Cr	% C	% Mo	% Ni	% Si	% Mn
1.4510	X6CrTi17	X6CrTi17 AISI 430Ti	Z 4 CT 17	M 500 > 800	16.0÷18.0	0.05÷0.10	-	-	0.90÷1.10	0.90÷1.10
1.4511	X6CrNb17	X6CrNb17	Z 4 CNb 17	M 500 > 800	16.0÷18.0	0.05÷0.10	-	-	0.90÷1.10	0.90÷1.10
1.4512	X2CrTi12	X6CrTi12 AISI 409	Z 3 CT 12	M 500 > 800	10.5÷12.5	0.20÷0.40	-	-	0.90÷1.10	0.90÷1.10
1.4513	X2CrMoTi17-1	X2CrMoTi17-1 AISI 436	-	M 500 > 800	16.0÷18.0	0.20÷0.40	0.80÷1.40	-	0.90÷1.10	0.90÷1.10
1.4521	X2CrMoTi18-2	X2CrMoTi18-2 AISI 444	Z 3 CDT 18-02	M 500 > 800	17.5÷18.5	0.20÷0.40	1.90÷2.10	-	0.90÷1.10	0.90÷1.10
1.4539	X2NiCrMoCu 25-20	AISI 904 L	Z 2 NCDU 25-20	M 500 > 800	19.0÷21.0	0.05÷0.10	0.40÷0.50	24.0÷26.0	0.30÷0.40	1.10÷1.30
1.4541	X6CrNiTi18-10	X6CrNiTi1811 AISI 321	Z 6 CNT 18-10	M 700 > 1000	17.0÷19.0	0.05÷0.10	-	9.00÷12.0	0.90÷1.10	1.90÷2.10
1.4542	X5CrNiCuNb16-4	AISI 630	Z 7 CNU 15-05	M 800 > 1200	15.0÷17.0	0.05÷0.10	0.50÷0.70	3.00÷5.00	0.60÷0.80	1.40÷1.60
1.4545	X5CrNiCu15-5	AISI XM-12 15-5 PH	EZ 5 CNU 15-05	M 800 > 1200	14.5÷15.5	0.05÷0.10	0.55÷0.65	3.00÷5.50	0.90÷1.10	0.90÷1.10
1.4547	X1CrNiMoCuN 20	F44	Z1 CNDU 20-18-06	M 800 > 1000	18.5÷20.5	0.10÷0.20	5.00÷7.00	17.5÷19.5	0.20÷0.40	0.60÷0.80
1.4550	X6CrNiNb18-10	X6CrNiNb1811 AISI 347	Z 6 CNNb 18-10	M 700 > 1000	17.0÷19.0	0.05÷0.10	-	9.00÷12.0	0.90÷1.10	1.90÷2.10
1.4560	X3CrNiCu19-9-2	X3CrNiCu19-9-2	Z 4 CNU 19-09	M 800 > 1000	17.0÷19.0	0.02÷0.05	-	8.00÷9.00	0.90÷1.10	1.50÷2.00
1.4563	X1NiCrMoCuN31	X1NiCrMoCuN31-27-4	Z 1 NCDU 31-27-03	M 700 > 900	26.0÷28.0	0.02÷0.05	3.00÷4.00	30.0÷32.0	0.60÷0.80	1.90÷2.10
1.4567	X3CrNiCu18-9	X3CrNiCu18-9 302HQ	Z 3 CNU 18-10	M 700 > 900	17.0÷19.0	0.02÷0.05	-	8.50÷10.5	0.90÷1.10	1.90÷2.10
1.4568	X7CrNiAl17-7	X7CrNiAl17-7 AISI 631	Z 9 CNA 17-07	M 700 > 900	16.0÷18.0	0.05÷0.10	-	6.00÷8.00	0.60÷0.80	0.90÷1.10
1.4570	X6CrNiCuS18-9-2	X6CrNiCuS18-9-2	Z 8 CNUF 18-09	M 700 > 900	17.0÷19.0	0.05÷0.10	0.55÷0.65	8.00÷10.0	0.90÷1.10	1.90÷2.10
1.4571	X2CrNiMoTi17-12-2	X6CrNiMoTi17-12 316Ti	Z 6 CNDT 17-12	M 700 > 1000	16.5÷18.5	0.05÷0.10	2.00÷2.50	10.5÷13.5	0.90÷1.10	1.90÷2.10
1.4580	X6CrNiMoNb 17	AISI 316Cb	Z 6 CNDNB 17-12	M 700 > 1000	16.5÷18.5	0.05÷0.10	2.00÷2.50	10.5÷13.5	0.90÷1.10	1.90÷2.10
1.4583	X10CrNiMoNb 18	X6CrNiMoNb	Z 6 CNDN 17 13B	M 900 > 1200	12.0÷15.0	0.05÷0.10	2.50÷3.00	12.0÷15.0	0.90÷1.10	1.90÷2.10
1.4597	X8CrMnCuN17-8-3	204Cu	-	M 700 > 900	15.5÷17.5	0.05÷0.10	0.90÷1.10	1.50÷3.00	0.90÷1.10	6.50÷9.00
1.4718	X45CrSi9-3	X45GrSi8	Z 45 CS 9	M 800 > 1000	8.50÷9.50	0.40÷0.50	-	0.40÷0.60	2.00÷3.00	0.50÷0.70
1.4724	X10CrAl12	X10CrAlSi13	Z 10 C 13	M 600 > 800	12.0÷14.0	0.10÷0.20	-	-	0.70÷1.40	0.90÷1.10
1.4742	X10CrAlSi18	X10CrAlSi18 AISI 442	Z 12 CAS 18	M 600 > 800	17.0÷19.0	0.10÷0.15	-	-	0.70÷1.40	0.90÷1.10
1.4748	X85CrMoV18-2	X85CrMoV18-2	Z 15 CNS20 12	M 1000 > 1200	16.5÷18.5	0.75÷0.95	2.00÷2.50	-	0.90÷1.10	1.40÷1.60
1.4749	X18CrN28	X18CrN28 AISI 446	Z 1 NCDU 31-27-03	M 900 > 1200	26.0÷28.0	0.15÷0.25	3.00÷4.00	30.0÷32.0	0.45÷0.55	0.75÷0.85
1.4762	X10CrAlSi25	X10CrAlSi25 AISI 446	Z 10 CAS 24	M 600 > 800	23.0÷26.0	0.10÷0.15	-	-	0.70÷1.40	0.90÷1.10
1.4828	X15CrNiSi20-12	X15CrNi2314 AISI 309	Z 15 CNS 20-12	M 600 > 800	19.0÷21.0	0.15÷0.25	-	11.0÷13.0	1.50÷2.50	1.90÷2.10
1.4833	X12CrNi23-13	X12CrNi23-13 309S	Z 15 CN 23-13	M 600 > 800	18.0÷22.0	0.05÷0.10	2.00÷2.50	12.0÷14.0	0.90÷1.10	1.90÷2.10
1.4841	X15CrNiSi25-21	X16CrNiSi2520 AISI 314	Z 15 CNS 25-20	M 900 > 1200	24.0÷26.0	0.10÷0.30	-	19.0÷22.0	1.50÷2.50	1.90÷2.10
1.4845	X8CrNi25-21	X22CrNi25-20 310S	Z 8 CN 25-20	M 900 > 1200	24.0÷26.0	0.05÷0.15	-	19.0÷22.0	1.40÷1.60	1.90÷2.10
1.4864	X12NiCrSi36-16 33	X12NiCrSi35-16 AISI 330	-	M 600 > 800	15.0÷17.0	0.10÷0.20	-	34.0÷36.0	1.40÷1.60	1.90÷2.10
1.4878	18CrNiTi 18-10	AISI 321H	Z6 CNT 18-10	M 700 > 1000	17.0÷19.0	0.05÷0.15	-	11.0÷13.0	0.90÷1.10	1.90÷2.10
1.4922	X20CrMoV11-1	-	-	M 800 > 1000	10.5÷12.5	0.20÷0.40	0.75÷0.95	0.55÷0.75	0.20÷0.40	0.55÷0.75
1.4939	X12CrNiMo12	-	-	M 800 > 1000	10.5÷12.5	0.05÷0.15	1.50÷2.00	2.00÷3.00	0.40÷0.60	0.40÷0.90
1.4944	X6NiCrTiMoV26-15	AISI 660	-	M 900 > 1200	13.5÷16.0	0.05÷0.15	1.00÷1.50	24.0÷27.0	0.90÷1.10	1.90÷2.10
1.4948	X6CrNi1810	AISI 304H	-	M 500 > 700	17.0÷19.0	0.05÷0.15	-	8.00÷10.5	0.65÷0.85	1.90÷2.10
1.4980	X6NiCrTiMoVB25	AISI 660	-	M 900 > 1200	13.5÷16.0	0.03÷0.10	1.00÷1.50	24.0÷27.0	0.90÷1.10	1.00÷2.00
1.5025	51Si7	48Si7	-	P 700 > 900	-	0.45÷0.55	-	-	1.55÷1.75	0.55÷0.75
1.5026	55Si7	55Si7	55 S 7	P 700 > 900	0.15÷0.45	0.50÷0.60	-	-	1.50÷2.00	0.60÷0.90
1.5027	60Si7	60Si7	-	P 700 > 900	-	0.50÷0.70	-	-	1.55÷1.75	0.75÷0.95
1.5423	16Mo5	16Mo5	-	P 700 > 900	0.30÷0.50	0.10÷0.20	0.45÷0.65	0.25÷0.45	0.15÷0.35	0.50÷0.80
1.5662	X8Ni9	X8Ni9	-	P 700 > 900	-	0.05÷0.15	0.05÷0.15	8.00÷10.0	0.25÷0.45	0.45÷0.65
1.5714	16CrNi4	16CrNi4	-	P 700 > 900	0.60÷1.00	0.10÷0.20	-	0.80÷1.10	0.15÷0.40	0.70÷1.00
1.5715	16CrNi54	16CrNi4	-	P 700 > 900	0.60÷1.00	0.10÷0.20	-	0.80÷1.10	0.15÷0.40	0.70÷1.00
1.5732	14NiCr10	14NiCr10	16 NC 11	P 700 > 900	0.60÷1.00	0.10÷0.20	-	2.50÷3.00	0.15÷0.40	0.30÷0.60
1.5752	15NiCr13	16NiCr11	14 NC 11	P 700 > 900	0.60÷1.00	0.10÷0.20	0.05÷0.15	2.50÷3.00	0.15÷0.40	0.30÷0.60
1.5919	15CrNi6	15CrNi6	-	P 700 > 900	1.45÷1.65	0.10÷0.20	-	1.45÷1.65	0.20÷0.40	0.40÷0.60
1.6510	39NiCrMo3	39NiCrMo3	-	P 800 > 1000	0.60÷1.00	0.35÷0.45	0.15÷0.25	0.70÷1.00	0.15÷0.40	0.50÷0.80
1.6511	36CrNiMo4	39NiCrMo3	40 NCD 3	P 800 > 1000	0.60÷1.00	0.35÷0.45	0.15÷0.25	0.70÷1.00	0.20÷0.40	0.50÷0.80





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WERKSTOFFE - MATIÈRES - MATERIALS

W-Nr	DIN	UNI	AFNOR	R = mm ²	% Cr	% C	% Mo	% Ni	% Si	% Mn
1.6523	21NiCrMo2	21NiCrMo2	20 NCD 2	P 750 > 850	0.35÷0.70	0.15÷0.25	0.15÷0.25	0.40÷0.70	0.10÷0.40	0.65÷0.95
1.6526	21NiCrMoS2	21NiCrMo2	20 NCD 2	P 750 > 850	0.35÷0.70	0.15÷0.25	0.15÷0.25	0.40÷0.70	0.10÷0.40	0.65÷0.95
1.6562	40NiCrMo8-4	40NiCrMo7	-	P 800 > 1000	0.70÷0.90	0.35÷0.45	0.20÷0.30	1.65÷2.00	0.10÷0.40	0.60÷0.85
1.6565	40NiCrMo8-4	40NiCrMo7	-	P 800 > 1000	0.70÷0.90	0.35÷0.45	0.20÷0.30	1.65÷2.00	0.10÷0.40	0.60÷0.85
1.6566	17NiCrMo6-4	18NiCrMo5	18 NCD 6	P 750 > 850	0.80÷1.10	0.15÷0.25	0.15÷0.25	1.20÷1.60	0.10÷0.40	0.60÷0.90
1.6569	17NiCrMoS6-4	18NiCrMo5	18 NCD 6	P 750 > 850	0.80÷1.10	0.15÷0.25	0.15÷0.25	1.20÷1.60	0.10÷0.40	0.60÷0.90
1.6580	30CrNiMo8	-	30 NCD 8	P 900 > 1200	1.80÷2.20	0.25÷0.35	0.30÷0.50	1.80÷2.20	0.10÷0.40	0.50÷0.80
1.6582	34CrNiMo6	-	35 NCD 6	P 900 > 1200	1.30÷1.70	0.30÷0.40	0.15÷0.30	1.30÷1.70	0.10÷0.40	0.50÷0.80
1.6587	17CrNiMo6	-	18 NCD 12	P 750 > 850	1.55÷1.75	0.15÷0.25	0.20÷0.40	1.45÷1.65	0.10÷0.40	0.60÷0.80
1.6657	14NiCrMo13-4	-	16 NCD 13	P 900 > 1200	0.80÷1.10	0.15÷0.25	0.15÷0.30	3.10÷3.30	0.10÷0.40	0.50÷0.80
1.6773	36NiCrMo16	-	35 NCD 16	P 900 > 1200	1.70÷1.90	0.25÷0.45	0.25÷0.45	3.75÷3.95	0.10÷0.40	0.35÷0.55
1.7005	45Cr2	-	-	P 750 > 850	0.40÷0.60	0.40÷0.50	-	-	0.10÷0.40	0.50÷0.80
1.7006	46Cr2	-	-	P 750 > 850	0.40÷0.60	0.40÷0.50	-	-	0.10÷0.40	0.50÷0.70
1.7033	34Cr4	-	32 C 4	P 750 > 950	0.90÷1.20	0.30÷0.40	-	-	0.10÷0.40	0.60÷0.90
1.7034	37Cr4	36CrMn4	38 C 4	P 750 > 950	1.00÷1.20	0.35÷0.45	-	-	0.10÷0.40	0.65÷0.85
1.7035	41Cr4	41Cr4	42 C 4	P 800 > 1000	0.90÷1.20	0.35÷0.45	-	-	0.10÷0.40	0.60÷0.90
1.7037	34CrS4	-	32 C 4	P 750 > 950	0.90÷1.20	0.30÷0.40	-	-	0.10÷0.40	0.60÷0.90
1.7038	37CrS4	38Cr4	38 C 4	P 800 > 1000	0.90÷1.20	0.35÷0.45	-	-	0.10÷0.40	0.60÷0.90
1.7039	41CrS4	41Cr4	42 C 4	P 800 > 1100	0.90÷1.20	0.35÷0.45	-	-	0.10÷0.40	0.60÷0.90
1.7075	-	46CrB2	-	P 700 > 1000	0.30÷0.60	0.40÷0.50	-	-	0.10÷0.40	0.60÷0.90
1.7076	-	32CrB4	-	P 500 > 700	0.90÷1.20	0.30÷0.40	-	-	0.10÷0.40	0.60÷0.90
1.7077	-	36CrB4	-	P 500 > 700	0.90÷1.20	0.30÷0.40	-	-	0.10÷0.40	0.70÷1.00
1.7108	60SiCr7	60SiCr8	-	P 600 > 800	0.20÷0.40	0.45÷0.65	-	-	1.55÷1.75	0.75÷0.95
1.7131	16MnCr5	16MnCr5	16 MC 5	P 600 > 800	0.80÷1.10	0.10÷0.30	-	-	0.10÷0.40	1.00÷1.30
1.7139	16MnCrS5	16MnCr5	16 MC 5	P 600 > 800	0.80÷1.10	0.10÷0.30	-	-	0.10÷0.40	1.00÷1.30
1.7147	20MnCrS5	20MnCr5	20 MC 5	P 700 > 900	1.00÷1.30	0.10÷0.30	-	-	0.10÷0.40	1.10÷1.40
1.7176	-	55Cr3	-	P 700 > 900	0.75÷0.95	0.45÷0.65	-	-	0.10÷0.40	0.85÷0.95
1.7213	25CrMoS4	25CrMo4	25 CD 4	P 800 > 1100	0.90÷1.20	0.20÷0.30	0.15÷0.30	-	0.10÷0.40	0.60÷0.90
1.7218	25CrMo4	25CrMo4	25 CD 4	P 800 > 1100	0.90÷1.20	0.20÷0.30	0.15÷0.30	-	0.10÷0.40	0.60÷0.90
1.7220	34CrMo4	35CrMo4	35 CD 4	P 800 > 1100	0.90÷1.20	0.30÷0.40	0.15÷0.30	-	0.10÷0.40	0.60÷0.90
1.7223	41CrMo4	41CrMo4	42 CD 4	P 800 > 1100	0.70÷1.20	0.35÷0.45	0.15÷0.30	-	0.10÷0.40	0.70÷1.10
1.7225	42CrMo4	42CrMo4	42 CD 4	P 800 > 1100	0.80÷1.10	0.40÷0.50	0.15÷0.30	-	0.10÷0.40	0.70÷1.10
1.7226	34CrMoS4	35CrMo4	35 CD 4	P 800 > 1100	0.90÷1.20	0.30÷0.40	0.15÷0.30	-	0.10÷0.40	0.60÷0.90
1.7227	42CrMoS4	42CrMo4	42 CD 4	P 800 > 1200	0.90÷1.20	0.35÷0.45	0.15÷0.30	-	0.10÷0.40	0.60÷0.90
1.7228	50CrMo4	-	-	P 800 > 1200	0.90÷1.20	0.45÷0.55	0.15÷0.30	-	0.10÷0.40	0.50÷0.80
1.7242	16CrMo4	-	-	P 700 > 900	0.90÷1.20	0.10÷0.20	0.15÷0.30	0.30÷0.50	0.10÷0.40	0.50÷0.80
1.7262	15CrMo5	-	-	P 700 > 900	0.90÷1.20	0.15÷0.25	0.15÷0.30	0.20÷0.40	0.10÷0.40	0.85÷1.05
1.7335	13CrMo4-4	13CrMo4-5	-	P 700 > 900	0.90÷1.20	0.15÷0.25	0.50÷0.70	-	0.10÷0.40	0.45÷0.65
1.7361	32CrMo12	31CrMo12	-	P 700 > 900	2.80÷3.30	0.25÷0.35	0.30÷0.50	0.40÷0.60	0.10÷0.40	0.40÷0.70
1.7380	10CrMo910	12CrMo910	12 CD 910	P 700 > 900	2.00÷2.50	0.05÷0.15	0.80÷1.20	-	0.40÷0.60	0.40÷0.60
1.7701	51CrMoV4	52CrMoV4	-	P 700 > 900	0.90÷1.20	0.55÷0.65	0.15÷0.30	-	0.10÷0.40	0.80÷1.00
1.7709	21CrMoV5-7	21CrMoV5-7	-	P 700 > 900	1.20÷1.50	0.15÷0.25	0.60÷0.80	0.50÷0.70	0.10÷0.40	0.40÷0.80
1.7715	14MoV6-3	-	-	P 800 > 1000	0.30÷0.60	0.10÷0.20	0.50÷0.70	-	0.10÷0.40	0.40÷0.70
1.8159	50CrV4	51CrV4	51 CV 4	P 800 > 1200	0.80÷1.10	0.45÷0.55	-	-	0.10÷0.40	0.60÷1.00
1.8507	34CrAlMo7	-	30 CAD 612	P 700 > 900	1.00÷1.30	0.30÷0.40	0.15÷0.30	-	0.10÷0.40	0.40÷0.70
1.8509	41CrAlMo7	-	40 CAD 612	P 700 > 900	1.50÷1.80	0.35÷0.45	0.25÷0.40	-	0.20÷0.50	0.50÷0.80
1.8515	31CrMo12	32CrMo12	-	P 700 > 900	3.00÷3.20	0.25÷0.35	0.25÷0.40	0.25÷0.35	0.10÷0.40	0.45÷0.65
1.8519	31CrMoV9	30CrMoV10	-	P 800 > 1200	2.30÷2.70	0.25÷0.35	0.15÷0.25	-	0.10÷0.40	0.40÷0.70
1.8523	-	40CrMoV13-9	-	P 800 > 1200	3.00÷3.50	0.35÷0.45	0.80÷1.10	-	0.10÷0.40	0.40÷0.70





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WERKSTOFFE - MATIÈRES - MATERIALS

W-Nr	DIN	UNI	AFNOR	R = mm ²	% Cr	% C	% Mo	% Ni	% Si	% Mn
2.4061	Ni99.6	Nickel 205	-	S 300 > 500	-	0.05÷0.10	-	0.30÷0.50	0.25÷0.45	0.25÷0.45
2.4066	Ni99.2	Nickel 200	-	S 300 > 500	-	0.15÷0.25	-	97.0÷99.0	0.25÷0.45	0.25÷0.45
2.4068	LC-Ni99	Nickel 200	-	S 300 > 500	-	0.15÷0.25	-	97.0÷99.0	0.25÷0.45	0.25÷0.45
2.4360	NiCu30Fe	Monel 400	-	S 1000 > 1400	1.90÷2.10	0.25÷0.35	-	68.0÷70.0	0.40÷0.60	1.90÷2.10
2.4375	NiCu30Al	Monel K500	-	S 1000 > 1400	1.90÷2.10	0.25÷0.35	-	68.0÷70.0	0.90÷1.10	1.40÷1.60
2.4602	NiCr17Mo17FeW	Hastelloy C	-	S 1000 > 1400	22.0÷24.0	0.05÷0.10	14.0÷16.0	-	0.05÷0.10	0.40÷0.60
2.4630	NiCr20Ti	Nimonic 75	-	S 1000 > 1400	20.0÷22.0	0.15÷0.25	-	-	0.25÷0.45	0.90÷1.10
2.4631	NiCr20TiAl	Nimonic 80A	-	S 1000 > 1400	20.0÷22.0	0.05÷0.10	-	-	0.90÷1.10	0.90÷1.10
2.4634	NiCo20Cr15MoAlTi	Nimonic 105	-	S 1000 > 1400	15.0÷17.0	0.15÷0.25	4.50÷5.50	-	0.25÷0.45	0.40÷0.60
2.4636	NiCo15Cr15MoAlTi	Udimet 700	-	S 1000 > 1400	15.0÷17.0	0.15÷0.25	4.50÷5.50	-	0.25÷0.45	0.40÷0.60
2.4654	NiCr20Co14MoTi	Waspaloy	-	S 1000 > 1400	20.0÷22.0	0.05÷0.10	4.50÷5.50	-	0.05÷0.10	0.05÷0.10
2.4662	NiCr13Mo6Ti3	Nimonic 901	-	S 1000 > 1400	20.0÷22.0	0.05÷0.10	2.50÷3.50	37.0÷39.0	0.90÷1.10	1.90÷2.10
2.4665	NiCr22Fe18Mo	Astelloy X	-	S 1000 > 1400	20.0÷22.0	0.15÷0.25	9.00÷11.0	-	0.90÷1.10	0.90÷1.10
2.4668	NiCr19Fe19NbMo	Inconel 718	-	S 1000 > 1400	20.0÷22.0	0.05÷0.10	3.00÷3.30	54.0÷56.0	0.25÷0.45	0.25÷0.45
2.4670	G-NiCr13Al6MoNb	Nimocast 713	-	S 1000 > 1400	16.0÷18.0	0.05÷0.10	-	69.0÷71.0	0.45÷0.65	0.90÷1.10
2.4674	NiCo15Cr10MoAlTi	Nimocast PK24	-	S 1000 > 1400	9.00÷11.0	0.15÷0.25	8.00÷10.0	60.0÷62.0	-	-
2.4816	NiCr15Fe	Inconel 600	-	S 1000 > 1400	16.0÷18.0	0.05÷0.10	-	71.0÷73.0	0.40÷0.60	0.90÷1.10
2.4856	NiCr22Mo9Nb	Inconel 625	-	S 1000 > 1400	22.0÷24.0	0.05÷0.10	9.00÷11.0	57.0÷59.0	0.40÷0.60	0.40÷0.60
0.6010	GG-10	G10	-	K < 180 HB	-	-	-	-	-	-
0.6015	GG-15	G15	-	K < 180 HB	-	-	-	-	-	-
0.6020	GG-20	G20	-	K < 180 HB	-	-	-	-	-	-
0.6025	GG-25	G25	-	K < 230 HB	-	-	-	-	-	-
0.6030	GG-30	G30	-	K < 230 HB	-	-	-	-	-	-
0.6035	GG-35	G35	-	K < 230 HB	-	-	-	-	-	-
0.6040	GG-40	G40	-	K < 230 HB	-	-	-	-	-	-
0.7040	GGG-40	GS400-12	-	K < 300 HB	-	-	-	-	-	-
0.7050	GGG-50	GS500-7	-	K < 300 HB	-	-	-	-	-	-
0.7060	GGG-60	GS600-3	-	K < 300 HB	-	-	-	-	-	-
0.7070	GGG-70	GS700-2	-	K < 300 HB	-	-	-	-	-	-
0.7080	GGG-80	GS800-2	-	K < 300 HB	-	-	-	-	-	-
0.7660	-	GGG-NiCr20-2	-	K < 300 HB	-	-	-	-	-	-
0.7677	-	GGG-NiCr30-1	-	K < 300 HB	-	-	-	-	-	-
0.7683	-	GGG-Ni35	-	K < 300 HB	-	-	-	-	-	-
0.7685	-	GGG-NiCr35-3	-	K < 300 HB	-	-	-	-	-	-
0.8035	-	GTW35-04	-	K < 300 HB	-	-	-	-	-	-
0.8055	-	GTW55-05	-	K < 300 HB	-	-	-	-	-	-
3.1325	AlCuMg1	Avional 100	-	N 250 > 500	-	-	-	-	< 0.5 %	-
3.1355	AlCuMg2	Avional 150	-	N 250 > 500	-	-	-	-	< 0.5 %	-
3.2315	AlMgSi1	Anticorodal 110	-	N 250 > 500	-	-	-	-	< 0.5 %	-
3.2381	G-AlSi10Mg	3049	-	N 250 > 500	-	-	-	-	> 10%	-
3.2581	G-AlSi12	5079	-	N 250 > 500	-	-	-	-	> 10%	-
3.3206	AlMgSi0.5	Anticorodal 050	-	N 250 > 500	-	-	-	-	< 0.5 %	-
3.4365	AlZnMgCu1.5	Ergal 55	-	N 250 > 500	-	-	-	-	< 0.5 %	-
3.5161	MgZn6Zr	ZK60	-	N 250 > 500	-	-	-	-	> 10%	-
3.5312	MgAl3Zn	AZ31	-	N 120 > 300	-	-	-	-	> 10%	-
3.5612	MgAl6Zn1	AZ61	-	N 250 > 500	-	-	-	-	> 10%	-
3.5632	MgAl6Zn3	AZ63	-	N 120 > 300	-	-	-	-	> 10%	-
3.5812	MgAl8Zn1	AZ81	-	N 120 > 300	-	-	-	-	> 10%	-
3.5912	MgAl9Zn1	AZ91	-	N 120 > 300	-	-	-	-	> 10%	-





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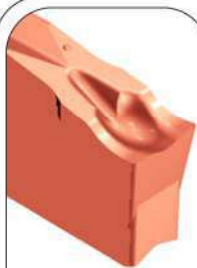
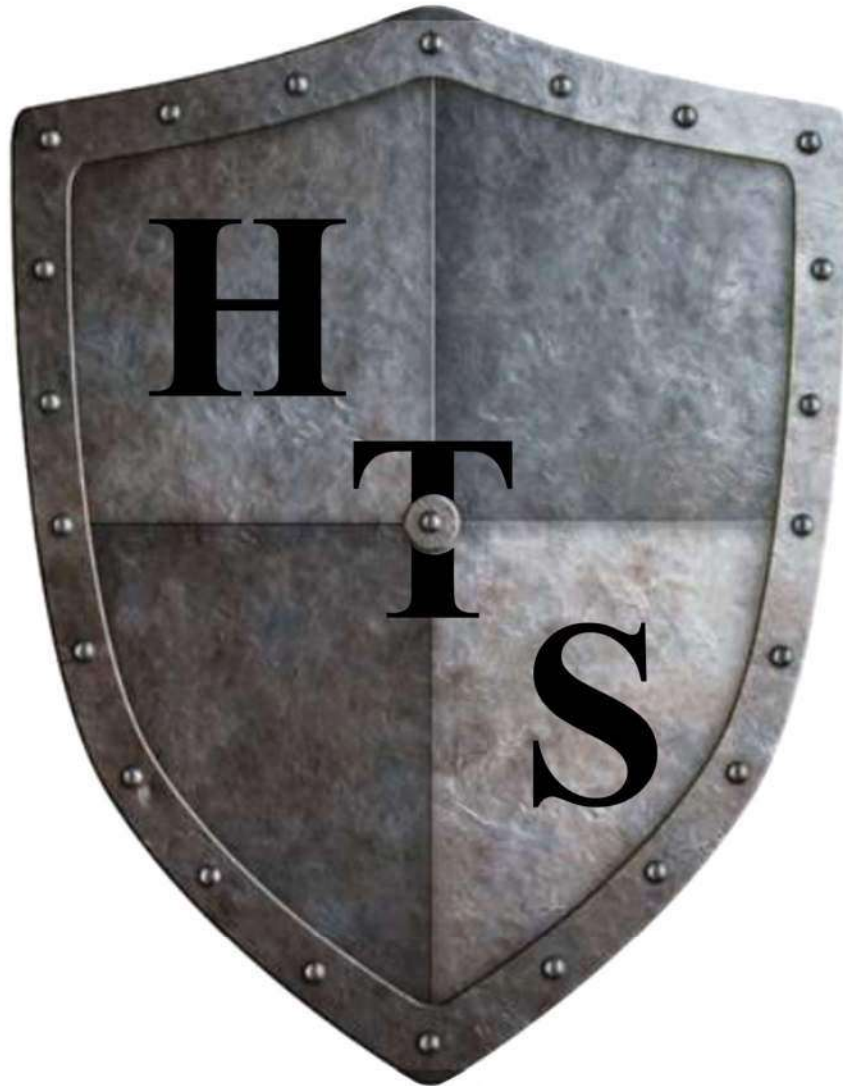


Technical Information

HARDNESS MATERIALS TABLE

HV Vickers Hardness				HRC Rockwell Hardness				HB Brinell Hardness				R N/mm ² Resistance			
HV	HRC	HB	R	HV	HRC	HB	R	HV	HRC	HB	R	HV	HRC	HB	R
200	-	190	640	302	30	287	970	458	46	435	1480	610	-	580	2030
205	-	195	660	310	31	295	995	460	-	437	1485	615	56	584	2050
210	-	199	675	317	32	301	1020	470	-	447	1520	620	-	589	2070
215	-	204	690	320	-	304	1030	473	47	449	1530	630	-	599	2105
220	-	209	705	327	33	311	1050	480	-	456	1555	639	57	607	2140
225	-	214	720	330	-	314	1060	484	48	460	1570	640	-	608	2145
230	-	219	740	336	34	319	1080	490	-	466	1595	650	-	618	2180
235	-	223	755	340	-	323	1095	497	49	472	1620	655	58	-	2200
240	-	228	770	345	35	328	1110	500	-	475	1630	675	59	-	-
243	21	231	780	350	-	333	1125	510	-	485	1665	698	60	-	-
245	-	233	785	355	36	337	1140	514	50	488	1680	720	61	-	-
250	22	238	800	364	37	346	1170	520	-	494	1700	745	62	-	-
255	23	242	820	373	38	354	1200	527	51	501	1730	773	63	-	-
260	24	247	835	382	39	363	1230	530	-	504	1740	800	64	-	-
265	-	252	850	392	40	372	1260	540	-	513	1775	829	65	-	-
268	25	255	860	403	41	383	1300	544	52	517	1790	864	66	-	-
270	-	257	865	413	42	393	1330	550	-	523	1810	900	67	-	-
272	26	258	870	423	43	402	1360	560	53	532	1845	940	68	-	-
275	-	261	880	434	44	416	1400	570	-	542	1880	-	-	-	-
280	27	266	900	440	-	418	1420	578	54	549	1910	-	-	-	-
285	-	271	915	446	45	424	1440	580	-	551	1920	-	-	-	-
287	28	273	920	450	-	428	1455	590	-	561	1955	-	-	-	-
290	-	276	930	-	-	-	-	596	55	567	1980	-	-	-	-
293	29	278	940	-	-	-	-	600	-	570	1995	-	-	-	-
295	-	280	950	-	-	-	-	-	-	-	-	-	-	-	-
300	-	285	965	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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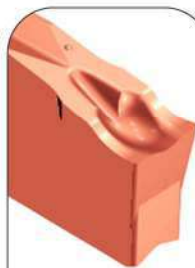




CM



TF



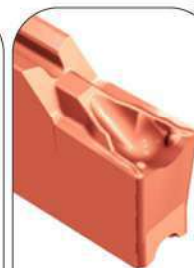
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Z



C



X



HTS - Grooving



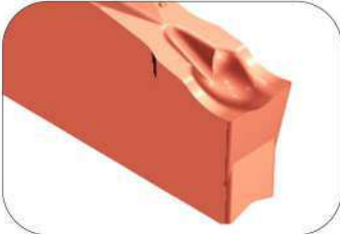


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Carbide Quality

PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P25	M25	S25	K25	N25
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	PM7025				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	PM7025				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		PM7025			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		PM7025			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		PM7025			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		PM7025			
HRSA = R 300 > 800 N/mm ²			PM7025		
HRSA = R 800 > 1200 N/mm ²			PM7025		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

PM7025 = Alle Stähle (R = 300 > 1200 N/mm²)
PM7025 = Tous les Aciers (R = 300 > 1200 N/mm²)
PM7025 = All Steels (R = 300 > 1200 N/mm²)





H T S



H - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



HCM - 200



HCM - 5° - 200



HCM - 250



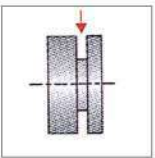
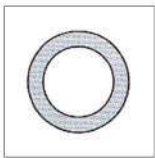
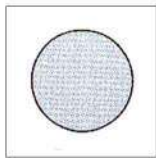
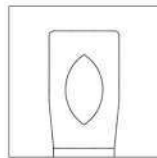
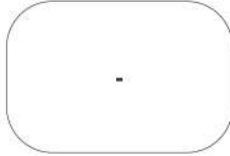
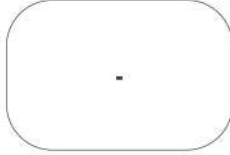
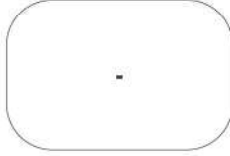
HCM - 5° - 250



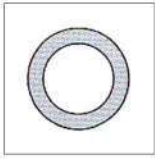
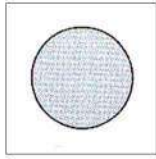
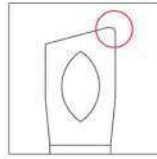
HCM - 300



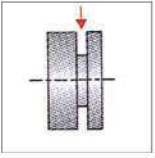
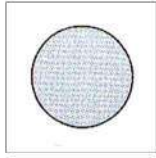
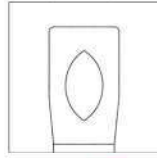
HCM - 5° - 300



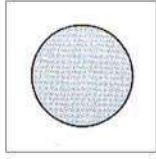
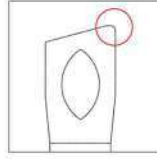
H - Line
PM7025



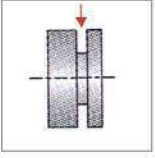
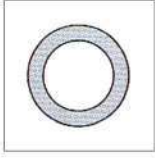
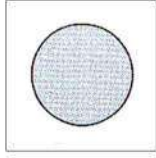
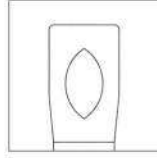
H - Line
PM7025



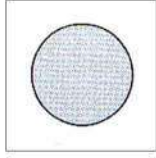
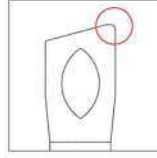
H - Line
PM7025



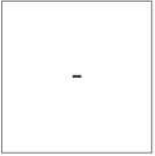
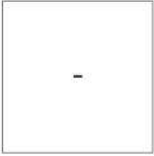
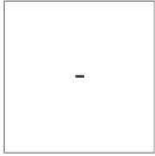
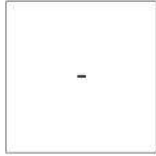
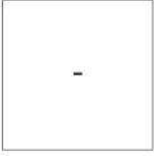
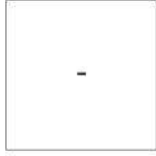
H - Line
PM7025



H - Line
PM7025



H - Line
PM7025





H T S



H - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



HTF - 300



HTF - 400

					H - Line PM7025
					H - Line PM7025
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-





HTS



I - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



JGN - 220



JSR - 10° - 220



JSG - 10° - 220



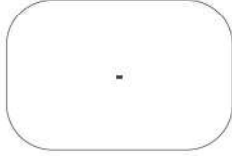
JGN - 300



JSR - 10° - 300



JSG - 10° - 300



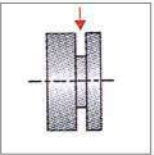
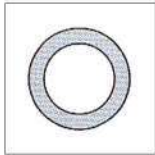
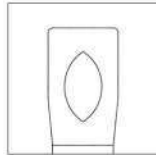
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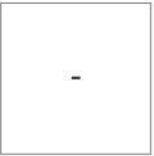
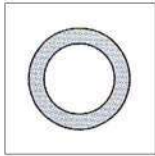
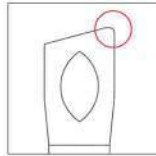
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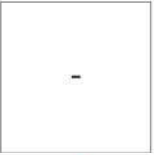
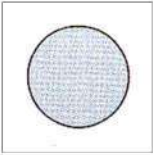
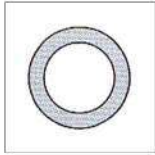
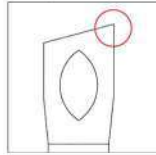
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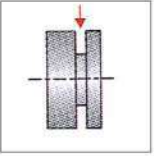
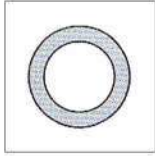
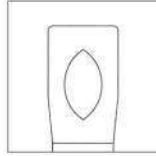
I - Line
PM7025



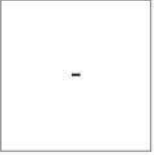
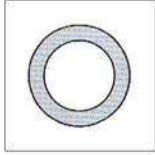
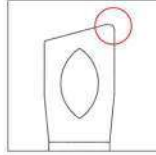
I - Line
PM7025



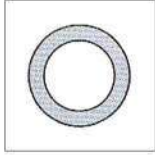
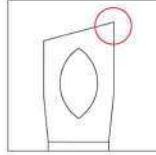
I - Line
PM7025



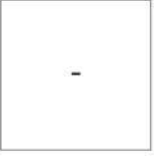
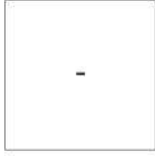
I - Line
PM7025



I - Line
PM7025



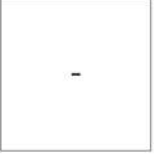
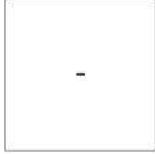
I - Line
PM7025



-



-



-





HTS



I - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



ZGN - 200



ZGR - 10° - 200



ZGN - 300



ZGR - 10° - 300

						I - Line PM7025
					-	I - Line PM7025
						I - Line PM7025
					-	I - Line PM7025
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-





HTS



I - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



CGN - 200



CGN - 220



CGN - 310

					I - Line PM7025
					I - Line PM7025
					I - Line PM7025
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-





HTS



T - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



THX - 200



THX - 300



THX - 400

					T - Line PM7025
					T - Line PM7025
					T - Line PM7025
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-





HTS



T - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



THJ - 200



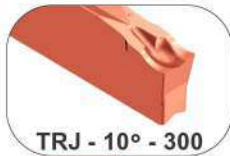
TRJ - 10° - 200



TRG - 10° - 200



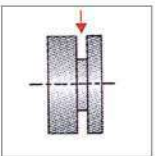
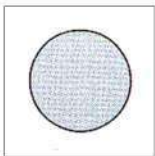
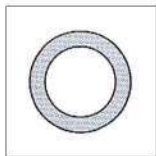
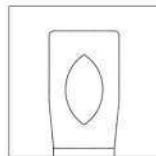
THJ - 300



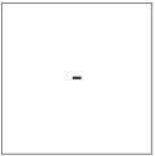
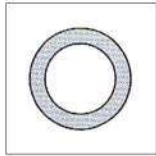
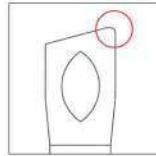
TRJ - 10° - 300



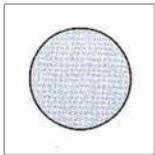
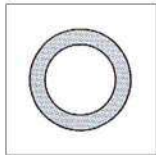
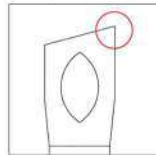
TRG - 10° - 300



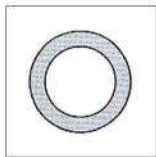
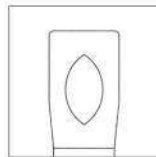
T - Line
PM7025



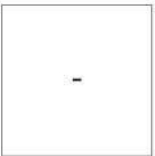
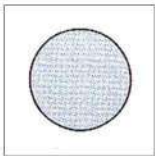
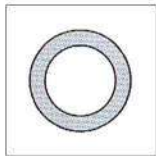
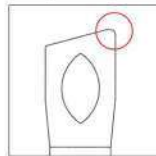
T - Line
PM7025



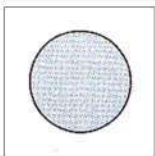
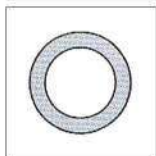
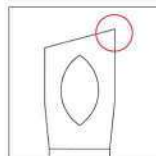
T - Line
PM7025



T - Line
PM7025



T - Line
PM7025



T - Line
PM7025





H T S



T - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



THC - 200



THC - 300

						T - Line PM7025
						T - Line PM7025
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-



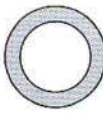
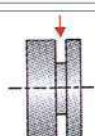
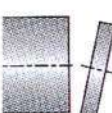


HTS



IAR - IAL Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts

 IAR/L - 90° - 100						IAR - IAL Line PM7025
 IAR/L - 15° - 100					-	IAR - IAL Line PM7025
-	-	-	-	-	-	-
 IAR/L - 90° - 150						IAR - IAL Line PM7025
 IAR/L - 15° - 150					-	IAR - IAL Line PM7025
-	-	-	-	-	-	-
 IAR/L - 90° - 200						IAR - IAL Line PM7025
 IAR/L - 15° - 200					-	IAR - IAL Line PM7025
-	-	-	-	-	-	-





HTS



MGC - Grooving

Anwendung Stechplatten - Application Plaquettes de Tronçonnage - Application Grooving Inserts



MGC - 300



MGC - 400

						MGC Line PM7025
						MGC Line PM7025
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-



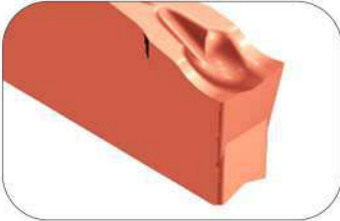


HTS



Grooving Inserts

HCM - PM7025



P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
    						
						H - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	HCM - 200 PM7025	●	2.00	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	HCM - 250 PM7025	●	2.50	20.0	40.0	90°	0.20	
	HCM - 300 PM7025	●	3.00	20.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TSR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TSR-L - 1212 - 2.0 - 32	●	12 x 12 x 125 = (T16) - (Ø max = mm32)				
	TSR-L - 1616 - 2.0 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1212 - 2.5 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TSR-L - 1212 - 2.5 - 32	●	12 x 12 x 125 = (T16) - (Ø max = mm32)				
	TSR-L - 1616 - 2.5 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1616 - 3.0 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TSR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



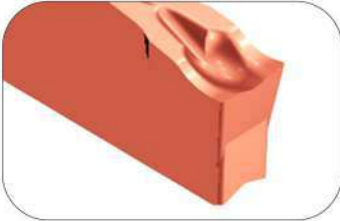


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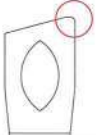


Grooving Inserts

HCM - 5° - PM7025

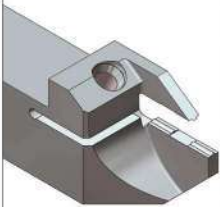


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials					
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²				Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²				Vt/min'	40 - 60
   				-	H - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	HCM - 5° - 200 PM7025	●	2.00	20.0	40.0	5°	0.20	Alle Stähle Tous les Aciers All Steels
	HCM - 5° - 250 PM7025	●	2.50	20.0	40.0	5°	0.20	
	HCM - 5° - 300 PM7025	●	3.00	20.0	40.0	5°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TSR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TSR-L - 1212 - 2.0 - 32	●	12 x 12 x 125 = (T16) - (Ø max = mm32)				
	TSR-L - 1616 - 2.0 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1212 - 2.5 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TSR-L - 1212 - 2.5 - 32	●	12 x 12 x 125 = (T16) - (Ø max = mm32)				
	TSR-L - 1616 - 2.5 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1616 - 3.0 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TSR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



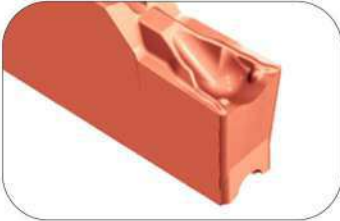


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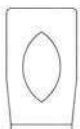


Grooving Inserts

HTF - PM7025

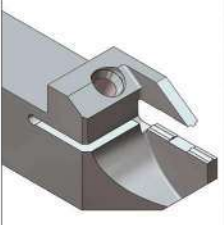


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
     H - Line						

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	HTF - 300 PM7025	●	3.00	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	HTF - 400 PM7025	●	4.00	25.0	50.0	90°	0.40	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TSR-L - 1616 - 3.0 - 20	●	16 x 16 x 125 = (T10) - (Ø max = mm20)				
	TSR-L - 1616 - 3.0 - 30	●	16 x 16 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 2020 - 3.0 - 20	●	20 x 20 x 125 = (T10) - (Ø max = mm20)				
	TSR-L - 2020 - 3.0 - 30	●	20 x 20 x 125 = (T15) - (Ø max = mm30)				
	TSR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TSR-L - 2020 - 4.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TSR-L - 2525 - 4.0 - 26	●	25 x 25 x 150 = (T13) - (Ø max = mm26)				
	TSR-L - 2525 - 4.0 - 44	●	25 x 25 x 150 = (T22) - (Ø max = mm44)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



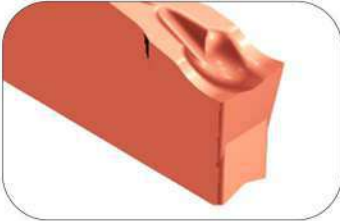


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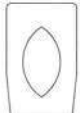


Grooving Inserts

JGN - PM7025

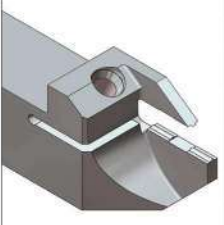


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
    						
I - Line						

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	JGN - 220 PM7025	●	2.20	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	JGN - 300 PM7025	●	3.00	20.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



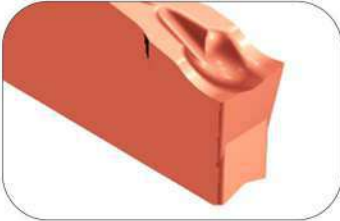


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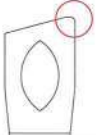


Grooving Inserts

JSR - PM7025

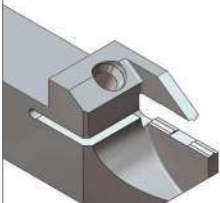


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials									
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²								Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²								Vt/min'	40 - 60
   									
									I - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	JSR - 10°- 220 PM7025	●	2.20	20.0	40.0	10°	0.20	Alle Stähle Tous les Aciers All Steels
	JSR - 10°- 300 PM7025	●	3.00	20.0	40.0	10°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)					
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)					
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)					
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)					
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)					
	-	-						
	-	-						



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



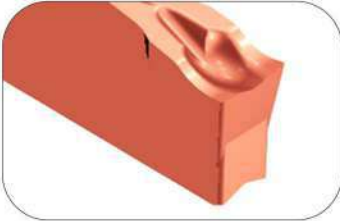


HTS



Grooving Inserts

JSG - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

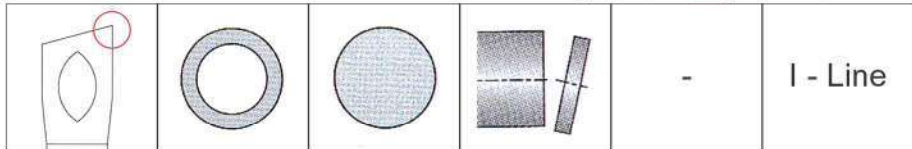
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	JSG - 10°- 220 PM7025	●	2.20	19.5	39.0	10°	0.00	Alle Stähle Tous les Aciers All Steels
	JSG - 10°- 300 PM7025	●	3.00	19.5	39.0	10°	0.00	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Sufficient - Sufficient

●	Stock
●	Availability to Check
●	On Request



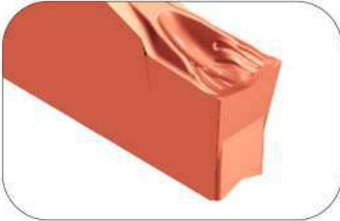


HTS

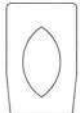
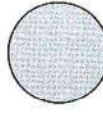


Grooving Inserts

ZGN - PM7025

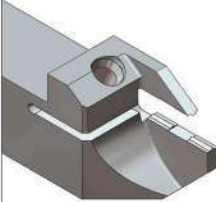


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
					I - Line	

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	ZGN - 200 PM7025	●	2.00	21.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	ZGN - 300 PM7025	●	3.00	21.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



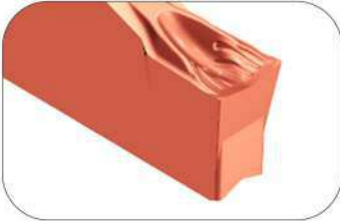


HTS

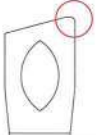


Grooving Inserts

ZGR - PM7025

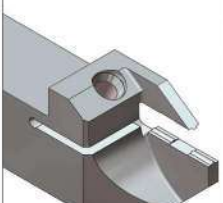


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials									
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²								Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²								Vt/min'	40 - 60
   									
									I - Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	ZGR - 10° - 200 PM7025	●	2.00	21.0	40.0	10°	0.20	Alle Stähle Tous les Aciers All Steels
	ZGR - 10° - 300 PM7025	●	3.00	21.0	40.0	10°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)					
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)					
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)					
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)					
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)					
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)					
	-	-	-					
	-	-	-					



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



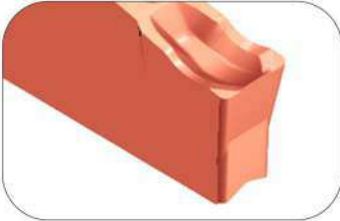


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Grooving Inserts

CGN - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

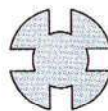
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



I - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	CGN - 200 PM7025	●	2.00	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	CGN - 220 PM7025	●	2.20	20.0	40.0	90°	0.20	
	CGN - 310 PM7025	●	3.10	20.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TGR-L - 1010 - 2.0 - 24	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TGR-L - 1616 - 2.0 - 36	●	16 x 16 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 2020 - 2.0 - 36	●	20 x 20 x 125 = (T18) - (Ø max = mm36)				
	TGR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TGR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent

Gut - Bon - Good

Genügend - Suffisant - Sufficient



Stock

Availability to Check

On Request



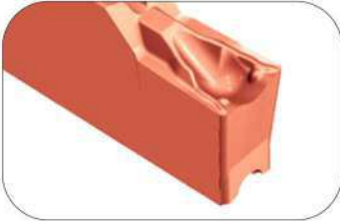


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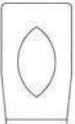
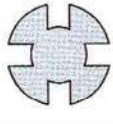
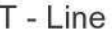


Grooving Inserts

THX - PM7025

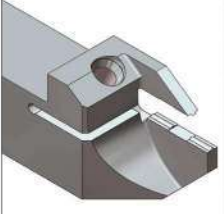


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
     						

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	THX - 200 PM7025	●	2.00	20.0	40.0	90°	0.30	Alle Stähle Tous les Aciers All Steels
	THX - 300 PM7025	●	3.00	20.0	40.0	90°	0.30	
	THX - 400 PM7025	●	4.00	20.0	40.0	90°	0.40	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TTR-L - 1010 - 2.0 - 20	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 32	●	16 x 16 x 125 = (T16) - (Ø max = mm32)				
	TTR-L - 2020 - 2.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	TTR-L - 2525 - 4.0 - 20	●	25 x 25 x 150 = (T10) - (Ø max = mm20)				
	TTR-L - 2525 - 4.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



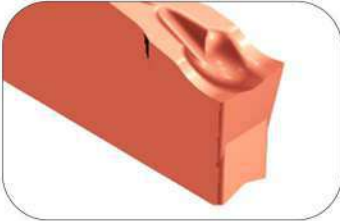


HTS



Grooving Inserts

THJ - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



T - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	THJ - 200 PM7025	●	2.00	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	THJ - 300 PM7025	●	3.00	20.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TTR-L - 1010 - 2.0 - 20	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 32	●	16 x 16 x 125 = (T16) - (Ø max = mm32)				
	TTR-L - 2020 - 2.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent

Gut - Bon - Good

Genügend - Suffisant - Sufficient



Stock

Availability to Check

On Request



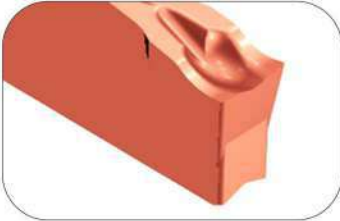


HTS



Grooving Inserts

TRJ - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

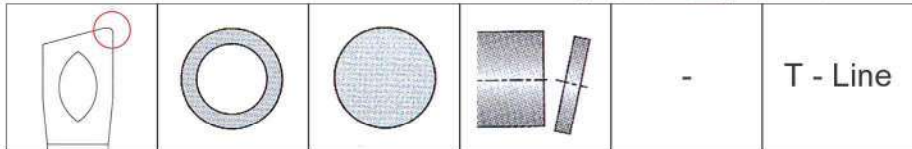
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



T - Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	TRJ - 10°- 200 PM7025	●	2.00	20.0	40.0	10°	0.20	Alle Stähle Tous les Aciers All Steels
	TRJ - 10°- 300 PM7025	●	3.00	20.0	40.0	10°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TTR-L - 1010 - 2.0 - 20	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 32	●	16 x 16 x 125 = (T16) - (Ø max = mm32)				
	TTR-L - 2020 - 2.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



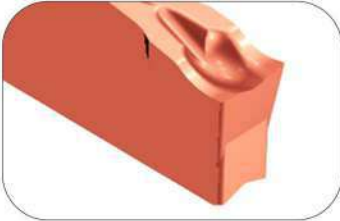


HTS

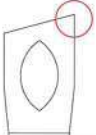


Grooving Inserts

TRG - PM7025

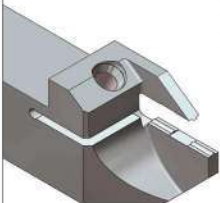


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials									
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²								Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²								Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²								Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²								Vt/min'	40 - 60
   									
									T - Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	TRG - 10°- 200 PM7025	●	2.00	19.5	39.0	10°	0.00	Alle Stähle Tous les Aciers All Steels
	TRG - 10°- 300 PM7025	●	3.00	19.5	39.0	10°	0.00	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TTR-L - 1010 - 2.0 - 20	●	10 x 10 x 125 = (T12) - (Ø max = mm24)					
	TTR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)					
	TTR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)					
	TTR-L - 1616 - 2.0 - 32	●	16 x 16 x 125 = (T16) - (Ø max = mm32)					
	TTR-L - 2020 - 2.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)					
	TTR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)					
	TTR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)					
	TTR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)					
	-	-						
	-	-						



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



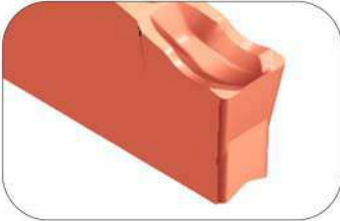


HTS



Grooving Inserts

THC - PM7025

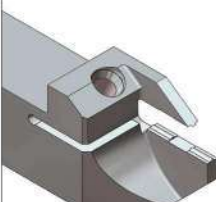


P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
						
						T - Line

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	THC - 200 PM7025	●	2.00	20.0	40.0	90°	0.20	Alle Stähle Tous les Aciers All Steels
	THC - 300 PM7025	●	3.00	20.0	40.0	90°	0.20	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	TTR-L - 1010 - 2.0 - 20	●	10 x 10 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1212 - 2.0 - 24	●	12 x 12 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 24	●	16 x 16 x 125 = (T12) - (Ø max = mm24)				
	TTR-L - 1616 - 2.0 - 32	●	16 x 16 x 125 = (T16) - (Ø max = mm32)				
	TTR-L - 2020 - 2.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 1616 - 3.0 - 40	●	16 x 16 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2020 - 3.0 - 40	●	20 x 20 x 125 = (T20) - (Ø max = mm40)				
	TTR-L - 2525 - 3.0 - 40	●	25 x 25 x 150 = (T20) - (Ø max = mm40)				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



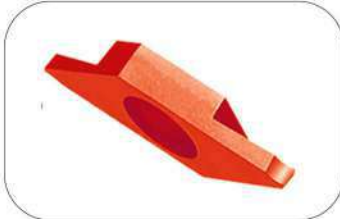


HTS



Grooving Inserts

IAR/L - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

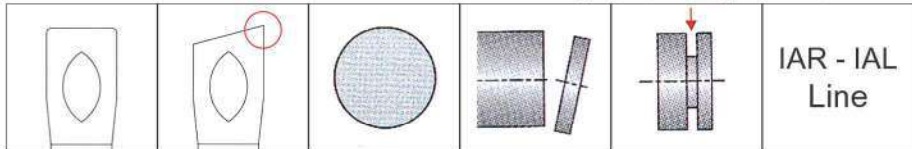
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



IAR - IAL
Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	IAR - 90° - 100 PM7025	●	1.00	6.0	12.0	90°	0.00	Alle Stähle Tous les Aciers All Steels
	IAR - 15° - 100 PM7025	●	1.00	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	IAL - 90° - 100 PM7025	●	1.00	6.0	12.0	90°	0.00	
	IAL - 15° - 100 PM7025	●	1.00	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	IAR-T - 1010 - 12	●	10 x 10 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1010 - 12	●	10 x 10 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1212 - 12	●	12 x 12 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1212 - 12	●	12 x 12 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1616 - 12	●	16 x 16 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1616 - 12	●	16 x 16 SX = (T6) - (Ø max = mm12)				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Sufficient - Sufficient

●	Stock
●	Availability to Check
●	On Request



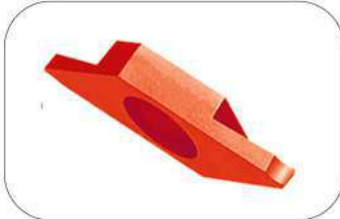


HTS



Grooving Inserts

IAR/L - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

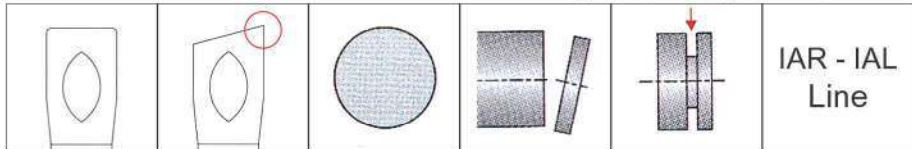
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



IAR - IAL
Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	IAR - 90° - 150 PM7025	●	1.50	6.0	12.0	90°	0.00	Alle Stähle Tous les Aciers All Steels
	IAR - 15° - 150 PM7025	●	1.50	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	IAL - 90° - 150 PM7025	●	1.50	6.0	12.0	90°	0.00	
	IAL - 15° - 150 PM7025	●	1.50	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	IAR-T - 1010 - 12	●	10 x 10 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1010 - 12	●	10 x 10 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1212 - 12	●	12 x 12 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1212 - 12	●	12 x 12 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1616 - 12	●	16 x 16 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1616 - 12	●	16 x 16 SX = (T6) - (Ø max = mm12)				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



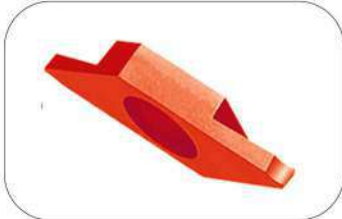


HTS



Grooving Inserts

IAR/L - PM7025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

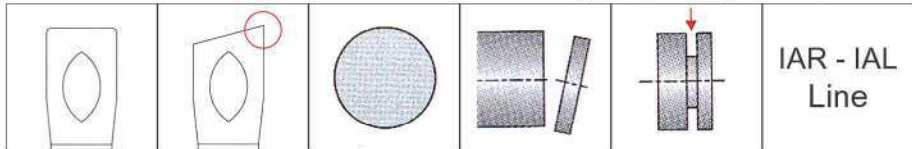
Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60



IAR - IAL
Line

Plattentypen Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	IAR - 90° - 200 PM7025	●	2.00	6.0	12.0	90°	0.00	Alle Stähle Tous les Aciers All Steels
	IAR - 15° - 200 PM7025	●	2.00	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	IAL - 90° - 200 PM7025	●	2.00	6.0	12.0	90°	0.00	
	IAL - 15° - 200 PM7025	●	2.00	6.0	12.0	15°	0.00	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

	IAR-T - 1010 - 12	●	10 x 10 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1010 - 12	●	10 x 10 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1212 - 12	●	12 x 12 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1212 - 12	●	12 x 12 SX = (T6) - (Ø max = mm12)				
	IAR-T - 1616 - 12	●	16 x 16 DX = (T6) - (Ø max = mm12)				
	IAL-T - 1616 - 12	●	16 x 16 SX = (T6) - (Ø max = mm12)				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request





HTS



Grooving Inserts

MGC - PM7025



P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiSiN + Cryo Treatment				
Micrograine Carbide				
0.20µm - 0.40µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
					MGC Line	

Plattentypologie Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			T	L	Ømax	a°	r	
	MGC - 300 PM7025	●	3.00	-	-	90°	0.20	Alle Stähle Tous les Aciers All Steels
	MGC - 400 PM7025	●	4.00	-	-	90°	0.25	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	

Haltern - Porte-Outils - Holders

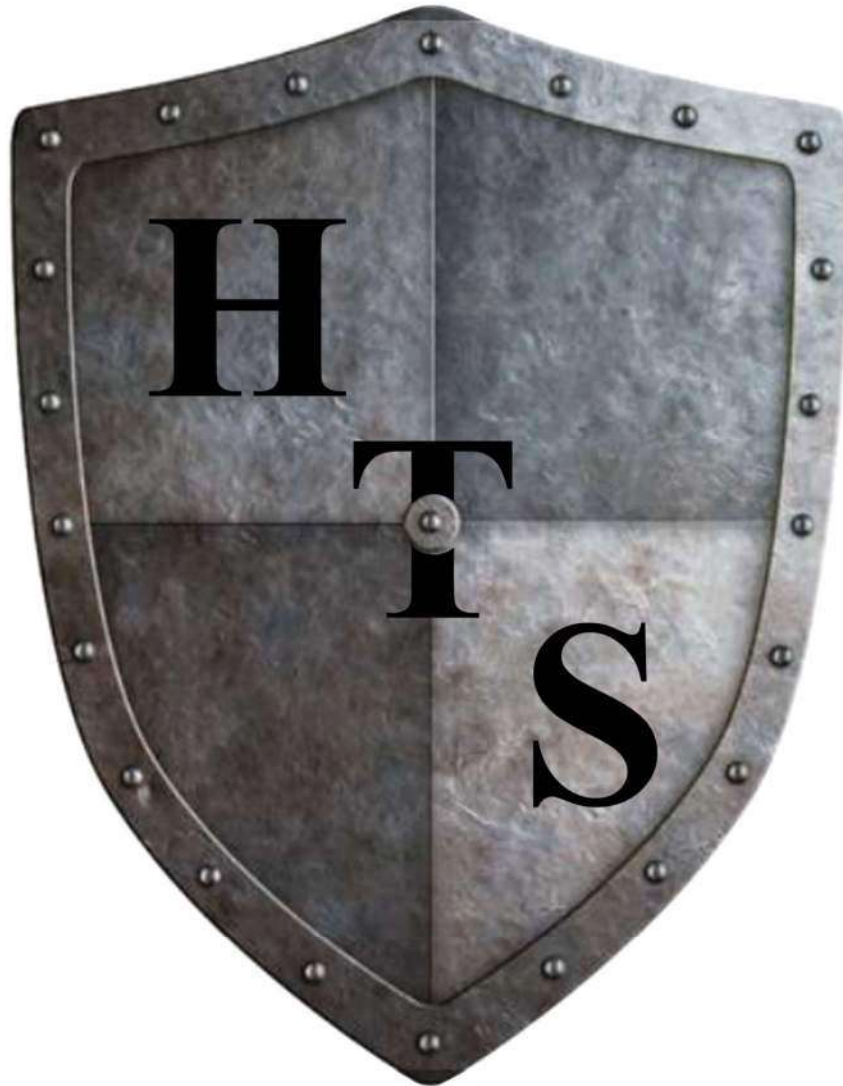
	LMGC - 26 - 3	●	26 x 110 (Blade mm 3.0)				
	LMGC - 32 - 3	●	32 x 150 (Blade mm 3.0)				
	LMGC - 26 - 4	●	26 x 110 (Blade mm 4.0)				
	LMGC - 32 - 4	●	32 x 150 (Blade mm 4.0)				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				
	-	-	-				



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request





TFB



MF



PF



PM



UT



HTS - Turning





HTS



Carbide Quality

CM7010



P	M	S	K	N
P10	M10	S10	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

0.20µm - 0.40µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P10	M10	S10	K10	N10
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	CM7010				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	CM7010				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CM7010			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CM7010			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CM7010			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CM7010			
HRSA = R 300 > 800 N/mm ²			CM7010		
HRSA = R 800 > 1200 N/mm ²			CM7010		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CM7010 = Alle Stähle (R = 300 > 1200 N/mm²)
CM7010 = Tous les Aciers (R = 300 > 1200 N/mm²)
CM7010 = All Steels (R = 300 > 1200 N/mm²)



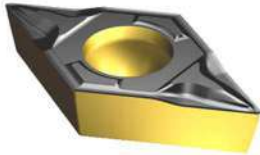


HTS



Carbide Quality

CR4030



P	M	S	K	N
P30	M30	-	-	-

Beschichtung - Revêtement - Coating

Multilayer TiAlN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	CR4030				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	CR4030				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CR4030			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CR4030			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CR4030			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CR4030			
HRSA = R 300 > 800 N/mm ²					
HRSA = R 800 > 1200 N/mm ²					
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CR4030 = Alle Stähle (R = 300 > 800 N/mm²)
CR4030 = Tous les Aciers (R = 300 > 800 N/mm²)
CR4030 = All Steels (R = 300 > 800 N/mm²)





HTS



Carbide Quality

CR5030



P	M	S	K	N
P30	M30	S30	-	-

Beschichtung - Revêtement - Coating

Multilayer TiAlN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	CR5030				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	CR5030				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CR5030			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CR5030			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CR5030			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CR5030			
HRSA = R 300 > 800 N/mm ²			CR5030		
HRSA = R 800 > 1200 N/mm ²			CR5030		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CR5030 = Alle Stähle (R = 300 > 1200 N/mm²)
CR5030 = Tous les Aciers (R = 300 > 1200 N/mm²)
CR5030 = All Steels (R = 300 > 1200 N/mm²)





HTS



Carbide Quality

CR7300



P	M	S	K	N
-	M30	S30	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	-
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	-
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²					
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²					
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CR7300			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CR7300			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CR7300			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CR7300			
HRSA = R 300 > 800 N/mm ²			CR7300		
HRSA = R 800 > 1200 N/mm ²			CR7300		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CR7300 = Edelstahl (R = 800 > 1200 N/mm²)
 CR7300 = Acier Inox (R = 800 > 1200 N/mm²)
 CR7300 = Stainless Steel (R = 800 > 1200 N/mm²)





HTS



TFB - CR5030

Plattentype - Typologie des Plaquettes - Inserts Type



CCXT 060204 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.40)

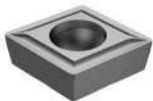
CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.20
ap 0.30 - 2.00



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CCXT 09T302 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.20)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.02 - 0.12
ap 0.10 - 1.50



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CCXT 09T304 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.40)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.20
ap 0.30 - 2.00



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DCXT 070204 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.40)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.20
ap 0.30 - 2.00



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DCXT 11T302 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.20)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.02 - 0.12
ap 0.10 - 1.50



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DCXT 11T304 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.40)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.20
ap 0.30 - 2.00



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VCXT 160402 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.20)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.02 - 0.12
ap 0.10 - 1.50



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VCXT 160404 TFB CR5030

P30	M30	S30	-	-
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TFB (Radius mm 0.40)

CR5030

Für Schlichtbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage de Finition (Acier au Chrome = Cr > 10%)
For Finishing Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.20
ap 0.30 - 2.00



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HTS



MF - CM7010

Plattentype - Typologie des Plaquettes - Inserts Type



CCMT 09T302 MF CM7010

P10	M10	S10	-	-
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MF (Radius mm 0.20)

CM7010

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.06 - 2.00



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CCMT 09T304 MF CM7010

P10	M10	S10	-	-
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MF (Radius mm 0.40)

CM7010

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.22
ap 0.10 - 2.00



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DCMT 11T302 MF CM7010

P10	M10	S10	-	-
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MF (Radius mm 0.20)

CM7010

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.06 - 2.00



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DCMT 11T304 MF CM7010

P10	M10	S10	-	-
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MF (Radius mm 0.40)

CM7010

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.22
ap 0.10 - 2.00



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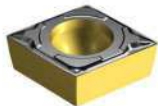


HTS



PF - CR4030

Plattentype - Typologie des Plaquettes - Inserts Type



CCMT 060204 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.40)

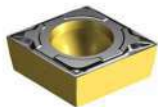
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.10 - 1.70



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CCMT 09T302 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.20)

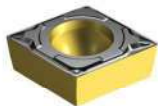
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.06 - 2.00



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CCMT 09T304 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.40)

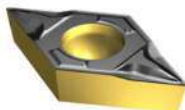
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.06 - 0.22
ap 0.10 - 2.00



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DCMT 070204 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.40)

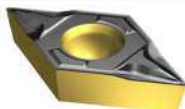
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.10 - 1.70



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DCMT 11T302 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.20)

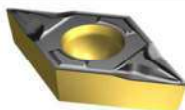
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.06 - 2.00



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DCMT 11T304 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.40)

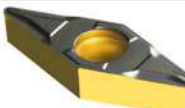
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.06 - 0.22
ap 0.10 - 2.00



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VCMT 160402 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.20)

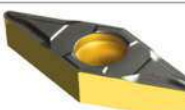
CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.04 - 0.15
ap 0.06 - 2.00



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VCMT 160404 PF CR4030

P30	M30	-	-	-
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P F (Radius mm 0.40)

CR4030

Für Mittelbearbeitung (Chromstahl = Cr < 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr < 10%)
For Medium Turning (Chrome Steel = Cr < 10%)

Vt/min' 150 - 250
fn 0.06 - 0.22
ap 0.10 - 2.00



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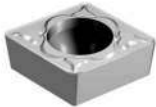


HTS



PM - CR5030

Plattentype - Typologie des Plaquettes - Inserts Type



CCMT 060204 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.40)

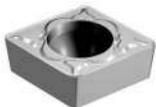
CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.17
ap 0.30 - 2.20



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CCMT 09T304 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.40)

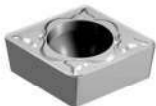
CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.25
ap 0.30 - 3.00



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CCMT 09T308 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.80)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.30
ap 0.60 - 3.50



-



DCMT 070204 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.40)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.17
ap 0.30 - 2.20



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DCMT 11T304 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.40)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.25
ap 0.30 - 3.00



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DCMT 11T308 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.80)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.30
ap 0.60 - 3.50



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VCMT 160404 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.40)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.25
ap 0.30 - 3.00



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VCMT 160408 PM CR5030

P30	M30	S30	-	-
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P M (Radius mm 0.80)

CR5030

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.30
ap 0.60 - 3.50



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HTS



UT - CR7300

Plattentype - Typologie des Plaquettes - Inserts Type



CCMT 060204 UT CR7300

-	M30	S30	-	-
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UT (Radius mm 0.40)

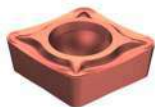
CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.17
ap 0.30 - 2.20



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CCMT 09T304 UT CR7300

-	M30	S30	-	-
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UT (Radius mm 0.40)

CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.25
ap 0.30 - 3.00



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CCMT 09T308 UT CR7300

-	M30	S30	-	-
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UT (Radius mm 0.80)

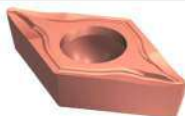
CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.30
ap 0.60 - 3.50



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DCMT 070204 UT CR7300

-	M30	S30	-	-
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UT (Radius mm 0.40)

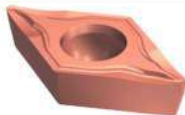
CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.06 - 0.17
ap 0.30 - 2.20



-



DCMT 11T304 UT CR7300

-	M30	S30	-	-
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UT (Radius mm 0.40)

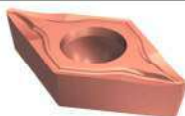
CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.35
ap 0.30 - 3.50



-



DCMT 11T308 UT CR7300

-	M30	S30	-	-
---	-----	-----	---	---

UT (Radius mm 0.80)

CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.40
ap 0.30 - 4.00



-



VCMT 160404 UT CR7300

-	M30	S30	-	-
---	-----	-----	---	---

UT (Radius mm 0.40)

CR7300

Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.08 - 0.25
ap 0.30 - 3.00



-



VCMT 160408 UT CR7300

-	M30	S30	-	-
---	-----	-----	---	---

UT (Radius mm 0.80)

CR7300

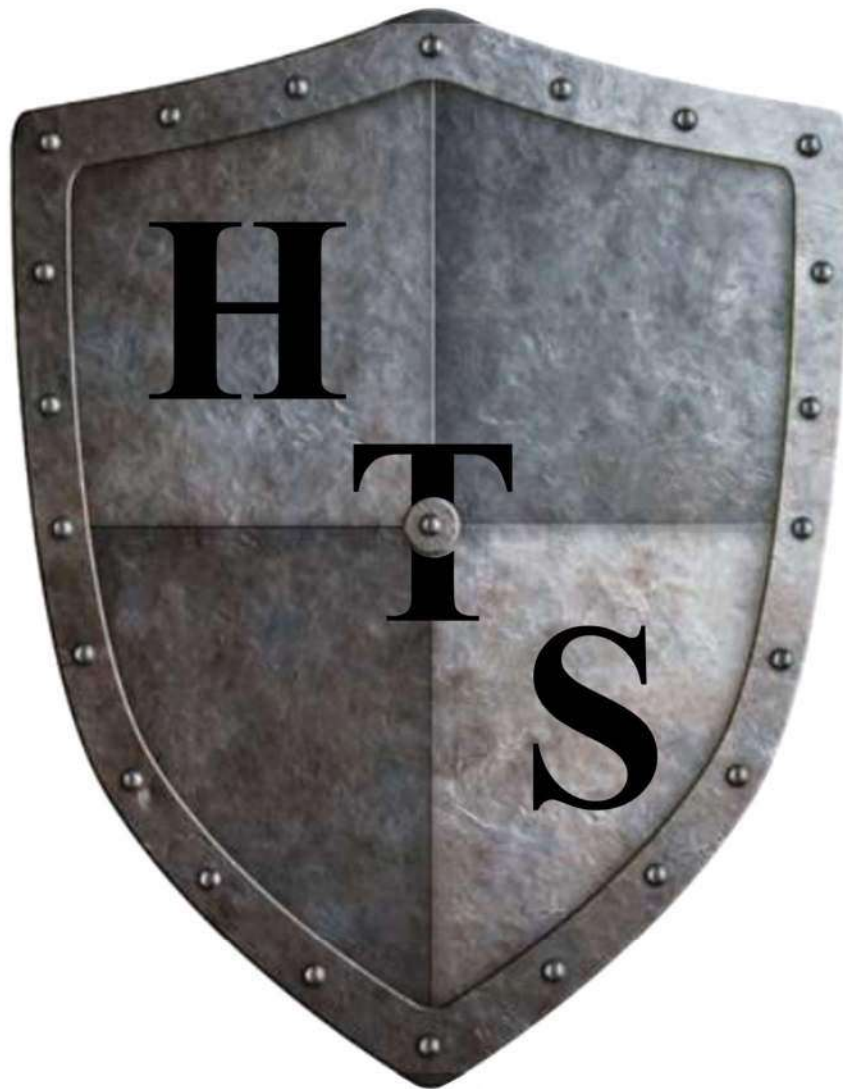
Für Mittelbearbeitung (Chromstahl = Cr > 10%)
Pour Tournage Moyenne (Acier au Chrome = Cr > 10%)
For Medium Turning (Chrome Steel = Cr > 10%)

Vt/min' 150 - 250
fn 0.10 - 0.30
ap 0.60 - 3.50



-





PM - KT



HTS - Threading





HTS



Carbide Quality

KT



P	M	S	K	N
P30	M30	S30	-	-

Beschichtung - Revêtement - Coating

Multilayer TiN + **Cryo Treatment**

Micrograine Carbide

0.2µm - 0.4µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	KT				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	KT				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		KT			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		KT			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		KT			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		KT			
HRSA = R 300 > 800 N/mm ²			KT		
HRSA = R 800 > 1200 N/mm ²			KT		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

KT = Alle Stähle (R = 300 > 1200 N/mm²)
KT = Tous les Aciers (R = 300 > 1200 N/mm²)
KT = All Steels (R = 300 > 1200 N/mm²)





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Threading Inserts

ISO Metric 60° - Wh 55° (BSP)



PM - KT
R = 300 > 1200 N/mm²
Vt/min' = 60 - 150



PM - KT
R = 300 > 1200 N/mm²
Vt/min' = 60 - 150

Plattenbezeichnungen - Codes des Plaquettes - Inserts Codes

Inserts Type	STOCK	Inserts Type	STOCK
ISO60° - 11 - ER - 1.00 - PM - KT	-	ISO60° - 11 - IR - 1.00 - PM - KT	●
ISO60° - 11 - ER - 1.25 - PM - KT	-	ISO60° - 11 - IR - 1.25 - PM - KT	●
ISO60° - 11 - ER - 1.50 - PM - KT	-	ISO60° - 11 - IR - 1.50 - PM - KT	●
ISO60° - 11 - ER - 1.75 - PM - KT	-	ISO60° - 11 - IR - 1.75 - PM - KT	●
ISO60° - 11 - ER - 2.00 - PM - KT	-	ISO60° - 11 - IR - 2.00 - PM - KT	●
-	-	-	-
ISO60° - 16 - ER - 1.00 - PM - KT	●	ISO60° - 16 - IR - 1.00 - PM - KT	●
ISO60° - 16 - ER - 1.25 - PM - KT	●	ISO60° - 16 - IR - 1.25 - PM - KT	●
ISO60° - 16 - ER - 1.50 - PM - KT	●	ISO60° - 16 - IR - 1.50 - PM - KT	●
ISO60° - 16 - ER - 1.75 - PM - KT	●	ISO60° - 16 - IR - 1.75 - PM - KT	●
ISO60° - 16 - ER - 2.00 - PM - KT	●	ISO60° - 16 - IR - 2.00 - PM - KT	●
ISO60° - 16 - ER - 2.50 - PM - KT	●	ISO60° - 16 - IR - 2.50 - PM - KT	●
ISO60° - 16 - ER - 3.00 - PM - KT	●	ISO60° - 16 - IR - 3.00 - PM - KT	●
-	-	-	-
-	-	-	-

Plattenbezeichnungen - Codes des Plaquettes - Inserts Codes

Inserts Type	STOCK	Inserts Type	STOCK
Wh55° - 11 - ER - 19 - PM - KT	-	Wh55° - 11 - IR - 19 - PM - KT	●
Wh55° - 11 - ER - 14 - PM - KT	-	Wh55° - 11 - IR - 14 - PM - KT	●
-	-	-	-
Wh55° - 16 - ER - 19 - PM - KT	●	Wh55° - 16 - IR - 19 - PM - KT	●
Wh55° - 16 - ER - 18 - PM - KT	●	Wh55° - 16 - IR - 18 - PM - KT	●
Wh55° - 16 - ER - 16 - PM - KT	●	Wh55° - 16 - IR - 16 - PM - KT	●
Wh55° - 16 - ER - 14 - PM - KT	●	Wh55° - 16 - IR - 14 - PM - KT	●
Wh55° - 16 - ER - 11 - PM - KT	●	Wh55° - 16 - IR - 11 - PM - KT	●
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



Stock



Availability to Check



On Request





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Threading Inserts

UN 60° - NPT 60° - BSPT 55° (RC)



PM - KT
R = 300 > 1200 N/mm²
Vt/min' = 60 - 150



PM - KT
R = 300 > 1200 N/mm²
Vt/min' = 60 - 150



PM - KT
R = 300 > 1200 N/mm²
Vt/min' = 60 - 150

Plattenbezeichnungen - Codes des Plaquettes - Inserts Codes

Inserts Type	STOCK	Inserts Type	STOCK
UN60° - 11 - ER - 20 - PM - KT	-	UN60° - 11 - IR - 20 - PM - KT	●
UN60° - 11 - ER - 18 - PM - KT	-	UN60° - 11 - IR - 18 - PM - KT	●
-	-	-	-
UN60° - 16 - ER - 24 - PM - KT	●	UN60° - 16 - IR - 24 - PM - KT	●
UN60° - 16 - ER - 20 - PM - KT	●	UN60° - 16 - IR - 20 - PM - KT	●
UN60° - 16 - ER - 18 - PM - KT	●	UN60° - 16 - IR - 18 - PM - KT	●
UN60° - 16 - ER - 16 - PM - KT	●	UN60° - 16 - IR - 16 - PM - KT	●
UN60° - 16 - ER - 14 - PM - KT	●	UN60° - 16 - IR - 14 - PM - KT	●
UN60° - 16 - ER - 12 - PM - KT	●	UN60° - 16 - IR - 12 - PM - KT	●
UN60° - 16 - ER - 10 - PM - KT	●	UN60° - 16 - IR - 10 - PM - KT	●
UN60° - 16 - ER - 8 - PM - KT	●	UN60° - 16 - IR - 8 - PM - KT	●
-	-	-	-

Plattenbezeichnungen - Codes des Plaquettes - Inserts Codes

Inserts Type	STOCK	Inserts Type	STOCK
NPT60° - 11 - ER - 18 - PM - KT	-	NPT60° - 11 - IR - 18 - PM - KT	●
-	-	-	-
NPT60° - 16 - ER - 18 - PM - KT	●	NPT60° - 16 - IR - 18 - PM - KT	●
NPT60° - 16 - ER - 14 - PM - KT	●	NPT60° - 16 - IR - 14 - PM - KT	●
NPT60° - 16 - ER - 11.5 - PM - KT	●	NPT60° - 16 - IR - 11.5 - PM - KT	●
NPT60° - 16 - ER - 8 - PM - KT	●	NPT60° - 16 - IR - 8 - PM - KT	●
-	-	-	-

Plattenbezeichnungen - Codes des Plaquettes - Inserts Codes

Inserts Type	STOCK	Inserts Type	STOCK
BSPT55° - 11 - ER - 19 - PM - KT	-	BSPT55° - 11 - IR - 19 - PM - KT	●
BSPT55° - 11 - ER - 14 - PM - KT	-	BSPT55° - 11 - IR - 14 - PM - KT	●
-	-	-	-
BSPT55° - 16 - ER - 19 - PM - KT	●	BSPT55° - 16 - IR - 19 - PM - KT	●
BSPT55° - 16 - ER - 14 - PM - KT	●	BSPT55° - 16 - IR - 14 - PM - KT	●
BSPT55° - 16 - ER - 11 - PM - KT	●	BSPT55° - 16 - IR - 11 - PM - KT	●
-	-	-	-



Stock



Availability to Check



On Request



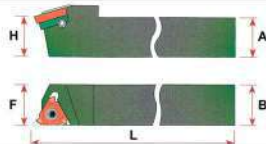


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External Holders

SER - SEL



Halterntype - Typologie des Porte-Outils - Holders Type											
Holders Codes	Side Inserts	A	B	L	H	F					Stock
SER 8 8 H11	11	8	8	100	8	11	-	-	IS11	CH11	●
SER 10 10 H11	11	10	10	100	10	11	-	-	IS11	CH11	●
SER 12 12 K11	11	12	12	125	12	12	-	-	IS11	CH11	●
SER 12 12 F16	16	12	12	80	12	16	16AR	AS16	IS16	CH16	●
SER 16 16 H16	16	16	16	100	16	16	16AR	AS16	IS16	CH16	●
SER 20 20 K16	16	20	20	125	20	20	16AR	AS16	IS16	CH16	●
SER 25 25 M16	16	25	25	150	25	25	16AR	AS16	IS16	CH16	●
SER 32 32 P16	16	32	32	170	32	32	16AR	AS16	IS16	CH16	●
SER 25 25 M22	22	25	25	150	25	25	22AR	AS22	IS22	CH22	●
SER 32 32 P22	22	32	32	170	32	32	22AR	AS22	IS22	CH22	●
SER 40 40 R22	22	40	40	200	40	40	22AR	AS22	IS22	CH22	●
SER 25 25 M27	27	25	25	150	25	32	27AR	AS27	IS27	CH27	●
SER 32 32 P27	27	32	32	170	32	32	27AR	AS27	IS27	CH27	●
SER 40 40 R27	27	40	40	200	40	40	27AR	AS27	IS27	CH27	●
SEL 8 8 H11	11	8	8	100	8	11	-	-	IS11	CH11	●
SEL 10 10 H11	11	10	10	100	10	11	-	-	IS11	CH11	●
SEL 12 12 K11	11	12	12	125	12	12	-	-	IS11	CH11	●
SEL 12 12 F16	16	12	12	80	12	16	16AL	AS16	IS16	CH16	●
SEL 16 16 H16	16	16	16	100	16	16	16AL	AS16	IS16	CH16	●
SEL 20 20 K16	16	20	20	125	20	20	16AL	AS16	IS16	CH16	●
SEL 25 25 M16	16	25	25	150	25	25	16AL	AS16	IS16	CH16	●
SEL 32 32 P16	16	32	32	170	32	32	16AL	AS16	IS16	CH16	●
SEL 25 25 M22	22	25	25	150	25	25	22AL	AS22	IS22	CH22	●
SEL 32 32 P22	22	32	32	170	32	32	22AL	AS22	IS22	CH22	●
SEL 40 40 R22	22	40	40	200	40	40	22AL	AS22	IS22	CH22	●
SEL 25 25 M27	27	25	25	150	25	32	27AL	AS27	IS27	CH27	●
SEL 32 32 P27	27	32	32	170	32	32	27AL	AS27	IS27	CH27	●
SEL 40 40 R27	27	40	40	200	40	40	27AL	AS27	IS27	CH27	●



Stock



Availability to Check



On Request



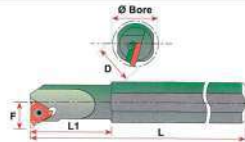


HTS



Internal Holders

SIR - SIL



Halterntype - Typologie des Porte-Outils - Holders Type

Holders Codes	Side Inserts	D	Ø Bore	L	L1	F					Stock
SIR 0005 H06	6	12	6.0	100	12	4.3	-	-	ISO6	CH6	
SIR 0007 K08	8	16	7.8	125	18	5.3	-	-	ISO8	CH8	
SIR 0010 H11	11	10	12	100	-	7.4	-	-	IS11	CH11	
SIR 0010 K11	11	16	12	125	25	7.4	-	-	IS11	CH11	
SIR 0013 L11	11	16	15	140	32	8.9	-	-	IS11	CH11	
SIR 0013 M16	16	16	16	150	32	10.2	-	-	IS16S	CH16	
SIR 0016 P16	16	20	19	170	40	11.7	-	-	IS16S	CH16	
SIR 0020 P16	16	20	24	170	-	13.7	16AR	AS16	IS16	CH16	
SIR 0025 R16	16	25	29	200	-	16.2	16AR	AS16	IS16	CH16	
SIR 0032 S16	16	32	36	250	-	19.7	16AR	AS16	IS16	CH16	
SIR 0025 R22	22	25	29	200	-	18.1	22AR	AS22	IS22	CH22	
SIR 0032 S22	22	32	38	250	-	21.6	22AR	AS22	IS22	CH22	
SIR 0032 S27	27	32	40	250	-	22.6	27AR	AS27	IS27	CH27	
SIR 0040 T27	27	40	48	300	-	26.6	27AR	AS27	IS27	CH27	
SIL 0005 H06	6	12	6.0	100	12	4.3	-	-	ISO6	CH6	
SIL 0007 K08	8	16	7.8	125	18	5.3	-	-	ISO8	CH8	
SIL 0010 H11	11	10	12	100	-	7.4	-	-	IS11	CH11	
SIL 0010 K11	11	16	12	125	25	7.4	-	-	IS11	CH11	
SIL 0013 L11	11	16	15	140	32	8.9	-	-	IS11	CH11	
SIL 0013 M16	16	16	16	150	32	10.2	-	-	IS16S	CH16	
SIL 0016 P16	16	20	19	170	40	11.7	-	-	IS16S	CH16	
SIL 0020 P16	16	20	24	170	-	13.7	16AL	AS16	IS16	CH16	
SIL 0025 R16	16	25	29	200	-	16.2	16AL	AS16	IS16	CH16	
SIL 0032 S16	16	32	36	250	-	19.7	16AL	AS16	IS16	CH16	
SIL 0025 R22	22	25	29	200	-	18.1	22AL	AS22	IS22	CH22	
SIL 0032 S22	22	32	38	250	-	21.6	22AL	AS22	IS22	CH22	
SIL 0032 S27	27	32	40	250	-	22.6	27AL	AS27	IS27	CH27	
SIL 0040 T27	27	40	48	300	-	26.6	27AL	AS27	IS27	CH27	



Stock



Availability to Check



On Request





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Technical Information

ISO Metric 60° Pitch (mm)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
0.50	0.31	0.10	0.08	0.07	0.06	-	-	-	-	-	-	-	-	-	-	-	-
0.75	0.46	0.16	0.14	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-	-
1.00	0.61	0.18	0.15	0.12	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-
1.25	0.77	0.19	0.17	0.14	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-	-
1.50	0.92	0.22	0.21	0.17	0.14	0.12	0.06	-	-	-	-	-	-	-	-	-	-
1.75	1.07	0.22	0.21	0.16	0.13	0.11	0.09	0.09	0.06	-	-	-	-	-	-	-	-
2.00	1.23	0.24	0.23	0.17	0.16	0.14	0.12	0.11	0.06	-	-	-	-	-	-	-	-
2.50	1.53	0.26	0.23	0.19	0.17	0.15	0.13	0.12	0.11	0.11	0.06	-	-	-	-	-	-
3.00	1.84	0.27	0.25	0.20	0.18	0.16	0.14	0.13	0.12	0.12	0.11	0.10	0.06	-	-	-	-
3.50	2.15	0.33	0.30	0.24	0.21	0.18	0.17	0.15	0.14	0.14	0.12	0.11	0.06	-	-	-	-
4.00	2.45	0.34	0.31	0.24	0.22	0.19	0.17	0.16	0.14	0.14	0.13	0.12	0.12	0.11	0.06	-	-
4.50	2.76	0.38	0.34	0.28	0.24	0.22	0.20	0.18	0.16	0.16	0.15	0.14	0.13	0.12	0.06	-	-
5.00	3.07	0.42	0.38	0.32	0.27	0.24	0.22	0.20	0.18	0.18	0.17	0.16	0.15	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ISO Metric 60° Pitch (mm)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
0.50	0.29	0.09	0.07	0.07	0.06	-	-	-	-	-	-	-	-	-	-	-	-
0.75	0.43	0.15	0.13	0.09	0.06	-	-	-	-	-	-	-	-	-	-	-	-
1.00	0.58	0.17	0.15	0.11	0.09	0.06	-	-	-	-	-	-	-	-	-	-	-
1.25	0.79	0.18	0.16	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-	-	-
1.50	0.87	0.21	0.20	0.16	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-
1.75	1.01	0.21	0.20	0.15	0.12	0.10	0.09	0.08	0.06	-	-	-	-	-	-	-	-
2.00	1.15	0.24	0.22	0.18	0.14	0.12	0.10	0.09	0.06	-	-	-	-	-	-	-	-
2.50	1.44	0.25	0.24	0.21	0.15	0.13	0.12	0.10	0.09	0.09	0.06	-	-	-	-	-	-
3.00	1.73	0.26	0.25	0.22	0.17	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.06	-	-	-	-
3.50	2.02	0.32	0.30	0.23	0.19	0.17	0.15	0.14	0.13	0.12	0.11	0.10	0.06	-	-	-	-
4.00	2.31	0.33	0.31	0.24	0.22	0.18	0.15	0.14	0.13	0.12	0.12	0.11	0.10	0.10	0.06	-	-
4.50	2.60	0.36	0.33	0.28	0.24	0.21	0.19	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.06	-	-
5.00	2.89	0.41	0.38	0.32	0.27	0.24	0.21	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





HTS



Technical Information

BSW - BSP Pitch (inch)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
28	0.58	0.17	0.14	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-
26	0.63	0.18	0.15	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-	-
20	0.81	0.20	0.18	0.14	0.12	0.11	0.06	-	-	-	-	-	-	-	-	-	-
19	0.86	0.21	0.19	0.15	0.13	0.12	0.06	-	-	-	-	-	-	-	-	-	-
18	0.90	0.25	0.19	0.15	0.13	0.12	0.06	-	-	-	-	-	-	-	-	-	-
16	1.02	0.21	0.18	0.15	0.13	0.11	0.09	0.09	0.06	-	-	-	-	-	-	-	-
14	1.16	0.23	0.21	0.17	0.14	0.12	0.12	0.11	0.06	-	-	-	-	-	-	-	-
12	1.36	0.27	0.25	0.20	0.16	0.15	0.14	0.13	0.06	-	-	-	-	-	-	-	-
11	1.48	0.27	0.24	0.20	0.17	0.15	0.14	0.13	0.12	0.06	-	-	-	-	-	-	-
10	1.63	0.27	0.25	0.20	0.17	0.15	0.15	0.13	0.13	0.12	0.06	-	-	-	-	-	-
9	1.81	0.28	0.26	0.21	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.06	-	-	-	-	-
8	2.03	0.30	0.27	0.22	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.06	-	-	-	-
7	2.32	0.34	0.32	0.26	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.12	0.06	-	-	-	-
6	2.71	0.35	0.33	0.27	0.23	0.21	0.20	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.06	-	-
5	3.25	0.42	0.40	0.35	0.29	0.26	0.24	0.22	0.20	0.19	0.18	0.17	0.15	0.12	0.06	-	-

BSW - BSP Pitch (inch)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
28	0.58	0.17	0.14	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-
26	0.63	0.18	0.15	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-	-
20	0.81	0.20	0.18	0.14	0.12	0.11	0.06	-	-	-	-	-	-	-	-	-	-
19	0.86	0.21	0.19	0.15	0.13	0.12	0.06	-	-	-	-	-	-	-	-	-	-
18	0.90	0.25	0.19	0.15	0.13	0.12	0.06	-	-	-	-	-	-	-	-	-	-
16	1.02	0.21	0.18	0.15	0.13	0.11	0.09	0.09	0.06	-	-	-	-	-	-	-	-
14	1.16	0.23	0.21	0.17	0.14	0.12	0.12	0.11	0.06	-	-	-	-	-	-	-	-
12	1.36	0.27	0.25	0.20	0.16	0.15	0.14	0.13	0.06	-	-	-	-	-	-	-	-
11	1.48	0.27	0.24	0.20	0.17	0.15	0.14	0.13	0.12	0.06	-	-	-	-	-	-	-
10	1.63	0.27	0.25	0.20	0.17	0.15	0.15	0.13	0.13	0.12	0.06	-	-	-	-	-	-
9	1.81	0.28	0.26	0.21	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.06	-	-	-	-	-
8	2.03	0.30	0.27	0.22	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.06	-	-	-	-
7	2.32	0.34	0.32	0.26	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.12	0.06	-	-	-	-
6	2.71	0.35	0.33	0.27	0.23	0.21	0.20	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.06	-	-
5	3.25	0.42	0.40	0.35	0.29	0.26	0.24	0.22	0.20	0.19	0.18	0.17	0.15	0.12	0.06	-	-





HTS



Technical Information

UN 60° Pitch (inch)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
32	0.49	0.17	0.15	0.11	0.06	-	-	-	-	-	-	-	-	-	-	-	-
28	0.56	0.17	0.14	0.10	0.09	0.06	-	-	-	-	-	-	-	-	-	-	-
24	0.65	0.18	0.16	0.14	0.11	0.06	-	-	-	-	-	-	-	-	-	-	-
20	0.78	0.20	0.18	0.13	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-	-
18	0.87	0.22	0.20	0.15	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-
16	0.97	0.22	0.20	0.15	0.12	0.11	0.11	0.06	-	-	-	-	-	-	-	-	-
14	1.11	0.23	0.21	0.16	0.13	0.11	0.11	0.10	0.06	-	-	-	-	-	-	-	-
13	1.20	0.25	0.22	0.17	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-	-	-	-
12	1.30	0.28	0.23	0.18	0.16	0.14	0.13	0.12	0.06	-	-	-	-	-	-	-	-
11	1.42	0.28	0.23	0.19	0.16	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-	-	-
10	1.56	0.28	0.24	0.19	0.16	0.14	0.13	0.13	0.12	0.11	0.06	-	-	-	-	-	-
9	1.73	0.34	0.29	0.22	0.17	0.15	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-	-
8	1.95	0.35	0.30	0.24	0.19	0.16	0.15	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-
7	2.22	0.37	0.33	0.28	0.24	0.20	0.17	0.16	0.15	0.14	0.12	0.06	-	-	-	-	-
6	2.60	0.42	0.35	0.29	0.25	0.21	0.18	0.17	0.16	0.15	0.13	0.12	0.11	0.06	-	-	-
5	3.12	0.43	0.39	0.31	0.27	0.24	0.22	0.20	0.19	0.19	0.18	0.17	0.15	0.12	0.06	-	-
UN 60° Pitch (inch)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
32	0.46	0.16	0.14	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-	-
28	0.52	0.16	0.13	0.09	0.08	0.06	-	-	-	-	-	-	-	-	-	-	-
24	0.61	0.17	0.15	0.13	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-
20	0.73	0.18	0.15	0.13	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-	-
18	0.81	0.20	0.18	0.14	0.12	0.11	0.06	-	-	-	-	-	-	-	-	-	-
16	0.92	0.20	0.18	0.15	0.12	0.11	0.10	0.06	-	-	-	-	-	-	-	-	-
14	1.05	0.21	0.18	0.15	0.13	0.11	0.11	0.10	0.06	-	-	-	-	-	-	-	-
13	1.13	0.22	0.19	0.16	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-	-	-	-
12	1.22	0.24	0.22	0.18	0.16	0.13	0.12	0.11	0.06	-	-	-	-	-	-	-	-
11	1.33	0.24	0.22	0.20	0.15	0.12	0.12	0.11	0.11	0.06	-	-	-	-	-	-	-
10	1.47	0.25	0.22	0.21	0.14	0.13	0.12	0.12	0.11	0.11	0.06	-	-	-	-	-	-
9	1.63	0.31	0.23	0.21	0.17	0.15	0.14	0.15	0.12	0.11	0.06	-	-	-	-	-	-
8	1.83	0.31	0.26	0.21	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.06	-	-	-	-	-
7	2.09	0.36	0.30	0.24	0.21	0.18	0.17	0.16	0.15	0.14	0.12	0.06	-	-	-	-	-
6	2.44	0.40	0.33	0.25	0.23	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.06	-	-	-
5	2.93	0.41	0.35	0.31	0.26	0.23	0.21	0.20	0.19	0.17	0.15	0.14	0.13	0.12	0.06	-	-





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Technical Information

NPT - 60° Pitch (inch)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
27	0.66	0.15	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-	-	-
18	1.01	0.20	0.16	0.14	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-
14	1.33	0.23	0.19	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-	-	-
11.5	1.64	0.24	0.19	0.17	0.15	0.15	0.13	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-
8	2.42	0.33	0.28	0.23	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.06	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPT - 60° Pitch (inch)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
27	0.66	0.15	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-	-	-
18	1.01	0.20	0.16	0.14	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-
14	1.33	0.23	0.19	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-	-	-
11.5	1.64	0.24	0.19	0.17	0.15	0.15	0.13	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-
8	2.42	0.33	0.28	0.23	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.06	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPTF - 60° Pitch (inch)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
27	0.64	0.16	0.14	0.11	0.09	0.08	0.06	-	-	-	-	-	-	-	-	-	-
18	1.00	0.19	0.16	0.14	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-
14	1.35	0.23	0.21	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-	-	-
11.5	1.63	0.24	0.23	0.19	0.15	0.13	0.11	0.11	0.11	0.10	0.10	0.10	0.06	-	-	-	-
8	2.38	0.32	0.27	0.23	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.06	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPTF - 60° Pitch (inch)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
27	0.64	0.16	0.14	0.11	0.09	0.08	0.06	-	-	-	-	-	-	-	-	-	-
18	1.00	0.19	0.16	0.14	0.13	0.12	0.11	0.09	0.06	-	-	-	-	-	-	-	-
14	1.35	0.23	0.21	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.06	-	-	-	-	-	-
11.5	1.63	0.24	0.23	0.19	0.15	0.13	0.11	0.11	0.11	0.10	0.10	0.10	0.06	-	-	-	-
8	2.38	0.32	0.27	0.23	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.06	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





HTS



Technical Information

Trapezoidal Pitch - 30° (mm)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
1.50	0.90	0.23	0.21	0.16	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-
2.00	1.25	0.29	0.26	0.21	0.17	0.14	0.12	0.06	-	-	-	-	-	-	-	-	-
3.00	1.75	0.32	0.31	0.24	0.19	0.18	0.17	0.15	0.13	0.06	-	-	-	-	-	-	-
4.00	2.25	0.33	0.32	0.24	0.22	0.21	0.17	0.16	0.15	0.14	0.13	0.12	0.06	-	-	-	-
5.00	2.75	0.35	0.32	0.26	0.24	0.22	0.21	0.19	0.19	0.17	0.15	0.14	0.13	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trapezoidal Pitch - 30° (mm)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
1.50	0.90	0.23	0.21	0.16	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-
2.00	1.25	0.29	0.26	0.21	0.17	0.14	0.12	0.06	-	-	-	-	-	-	-	-	-
3.00	1.75	0.32	0.31	0.24	0.19	0.18	0.17	0.15	0.13	0.06	-	-	-	-	-	-	-
4.00	2.25	0.33	0.32	0.24	0.22	0.21	0.17	0.16	0.15	0.14	0.13	0.12	0.06	-	-	-	-
5.00	2.75	0.35	0.32	0.26	0.24	0.22	0.21	0.19	0.19	0.17	0.15	0.14	0.13	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Round 405 Pitch (inch)	Total Cutting Depth	External Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
10	1.27	0.23	0.21	0.20	0.19	0.16	0.12	0.10	0.06	-	-	-	-	-	-	-	-
8	1.59	0.23	0.21	0.20	0.19	0.18	0.16	0.14	0.12	0.10	0.06	-	-	-	-	-	-
6	2.12	0.26	0.25	0.24	0.22	0.21	0.19	0.17	0.16	0.14	0.12	0.10	0.06	-	-	-	-
4	3.18	0.34	0.33	0.32	0.30	0.28	0.26	0.24	0.22	0.20	0.19	0.17	0.15	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round 405 Pitch (inch)	Total Cutting Depth	Internal Number of Passes															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
10	1.27	0.23	0.21	0.20	0.19	0.16	0.12	0.10	0.06	-	-	-	-	-	-	-	-
8	1.59	0.23	0.21	0.20	0.19	0.18	0.16	0.14	0.12	0.10	0.06	-	-	-	-	-	-
6	2.12	0.26	0.25	0.24	0.22	0.21	0.19	0.17	0.16	0.14	0.12	0.10	0.06	-	-	-	-
4	3.18	0.34	0.33	0.32	0.30	0.28	0.26	0.24	0.22	0.20	0.19	0.17	0.15	0.12	0.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





HTS



Technical Information

Products Identification

ISO-60°

16

E

R

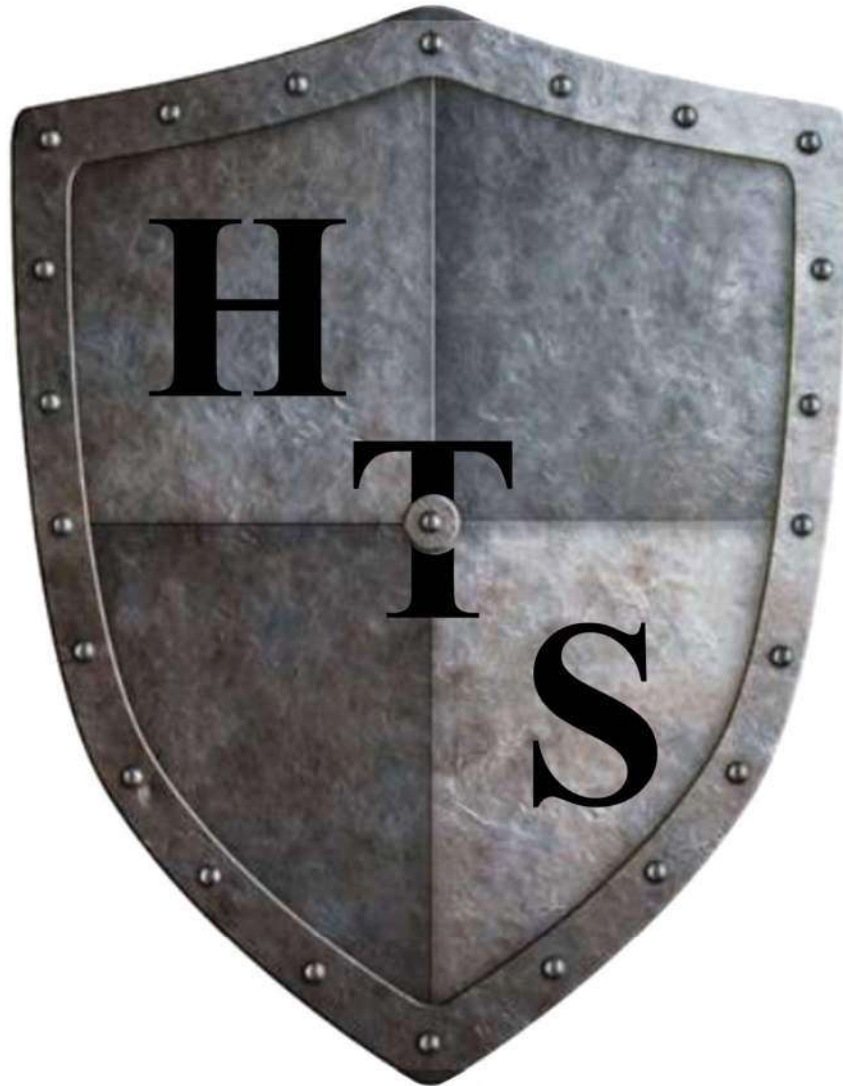
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PM

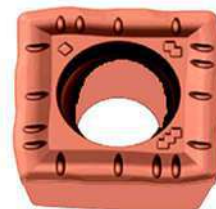
KT

Threading Types	Side Inserts	Work Types	Work Direction	Pitch mm - inch	Chip Breaker	Inserts Grades
ISO - 60° Wh - 55° UN - 60° NPT - 60° NPTF - 60° BSPT - 55° *Trapezoidal - 30° *Round Din. 405 *ACME *STUB ACME *PG - 80° *Sagengewinde - 30° *UNJ - 60° *MJ - 60° *API (* On Request)	06 mm 06 08 mm 08 11 mm 11 16 mm 16 22 mm 22 27 mm 27	E External I Internal	R RH - Right L LH - Left	Pitch in mm : 0.35 > 6.00 Pitch in inch : 72 > 4	AF Tolerance Class G PM Tolerance Class M TD Multi Thread Tolerance Class G	KT (Yellow) Multilayer TiN





MD225 - Line



808 - Line



HTS - Drilling





HTS



Carbide Quality

CR5030



P	M	S	K	N
P30	M30	S30	-	-

Beschichtung - Revêtement - Coating

Multilayer TiAlN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	CR5030				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	CR5030				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CR5030			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CR5030			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CR5030			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CR5030			
HRSA = R 300 > 800 N/mm ²			CR5030		
HRSA = R 800 > 1200 N/mm ²			CR5030		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CR5030 = Alle Stähle (R = 300 > 1200 N/mm²)
CR5030 = Tous les Aciers (R = 300 > 1200 N/mm²)
CR5030 = All Steels (R = 300 > 1200 N/mm²)





HTS



Carbide Quality

CR7300



P	M	S	K	N
-	M30	S30	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	-
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	-
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P30	M30	S30	K30	N30
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²					
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²					
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		CR7300			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		CR7300			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		CR7300			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		CR7300			
HRSA = R 300 > 800 N/mm ²			CR7300		
HRSA = R 800 > 1200 N/mm ²			CR7300		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

CR7300 = Edelstahl (R = 800 > 1200 N/mm²)
CR7300 = Acier Inox (R = 800 > 1200 N/mm²)
CR7300 = Stainless Steel (R = 800 > 1200 N/mm²)





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HCMT

Plattentype - Typologie des Plaquettes - Inserts Type



HCMT CR5030



HCMT CR7300

Inserts Codes	CR1030	CR4030	CR5030	CR7030	CR7300	CM7010	CM8010	 Finishing	 Medium	 Roughing
-	-	-	-	-	-	-	-	-	-	-
HCMT 040104	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 050204	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 060204	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 070304	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 080304	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 10T304	-	-	●	-	-	-	-	Finishing	Medium	Roughing
HCMT 130408	-	-	●	-	-	-	-	Finishing	Medium	Roughing
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
HCMT 040104	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 050204	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 060204	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 070304	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 080304	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 10T304	-	-	-	-	●	-	-	Finishing	Medium	Roughing
HCMT 130408	-	-	-	-	●	-	-	Finishing	Medium	Roughing
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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Stock

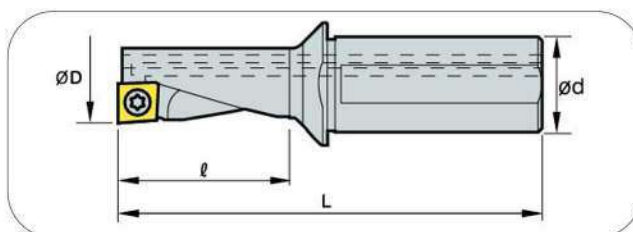


Availability to Check



On Request



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808

Plattentype - Typologie des Plaquettes - Inserts Type



808 - CR7300



808 - CR5030

Inserts Codes	CR1030	CR4030	CR5030	CR7030	CR7300	CM7010	CM8010	Finishing	Medium	Roughing
-	-	-	-	-	-	-	-	-	-	-
808 - 050204	-	-	-	-		-	-	-	Medium	Roughing
808 - 060204	-	-	-	-		-	-	-	Medium	Roughing
808 - 070306	-	-	-	-		-	-	-	Medium	Roughing
808 - 08T306	-	-	-	-		-	-	-	Medium	Roughing
808 - 09T308	-	-	-	-		-	-	-	Medium	Roughing
808 - 11T308	-	-	-	-		-	-	-	Medium	Roughing
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
808 - 050204	-	-		-	-	-	-	-	Medium	Roughing
808 - 060204	-	-		-	-	-	-	-	Medium	Roughing
808 - 070306	-	-		-	-	-	-	-	Medium	Roughing
808 - 08T306	-	-		-	-	-	-	-	Medium	Roughing
808 - 09T308	-	-		-	-	-	-	-	Medium	Roughing
808 - 11T308	-	-		-	-	-	-	-	Medium	Roughing
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-



Stock



Availability to Check



On Request

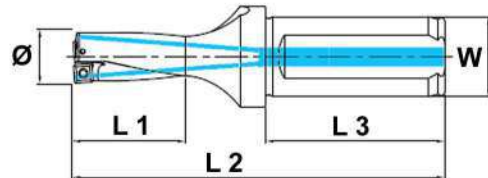




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808 - DRILLS



Bezeichnungen Codes	Größe - Dimensions							Plattentype Typologie des Plaquettes Inserts Type	Schraube Vis Screw	Schlüssel Clé Key
	Ø	Stock	Ø	L 1	L 2	L 3	W			
808 - 2 - 140	2 x D	●	14.0	28.0	100	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 2 - 145	2 x D	●	14.5	28.0	100	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 2 - 150	2 x D	●	15.0	30.0	102	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 2 - 155	2 x D	●	15.5	30.0	102	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 2 - 160	2 x D	●	16.0	32.0	110	56.0	25.0	808 - 050204	AM2x4	TORX - T6
808 - 2 - 165	2 x D	●	16.5	32.0	110	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 170	2 x D	●	17.0	34.0	112	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 175	2 x D	●	17.5	34.0	112	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 180	2 x D	●	18.0	36.0	114	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 185	2 x D	●	18.5	36.0	114	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 190	2 x D	●	19.0	38.0	116	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 2 - 195	2 x D	●	19.5	38.0	116	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 200	2 x D	●	20.0	40.0	118	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 205	2 x D	●	20.5	40.0	118	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 210	2 x D	●	21.0	42.0	120	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 215	2 x D	●	21.5	42.0	120	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 220	2 x D	●	22.0	44.0	122	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 2 - 225	2 x D	●	22.5	44.0	122	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 230	2 x D	●	23.0	46.0	124	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 235	2 x D	●	23.5	46.0	124	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 240	2 x D	●	24.0	48.0	126	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 245	2 x D	●	24.5	48.0	126	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 250	2 x D	●	25.0	50.0	128	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 255	2 x D	●	25.5	50.0	128	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 260	2 x D	●	26.0	52.0	130	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 2 - 270	2 x D	●	27.0	54.0	132	56.0	25.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 2 - 280	2 x D	●	28.0	56.0	134	56.0	25.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 2 - 300	2 x D	●	30.0	60.0	147	60.0	32.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 2 - 320	2 x D	●	32.0	64.0	151	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15
808 - 2 - 340	2 x D	●	34.0	68.0	155	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15
808 - 2 - 360	2 x D	●	36.0	72.0	159	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15



● Stock

● Availability to Check

● On Request

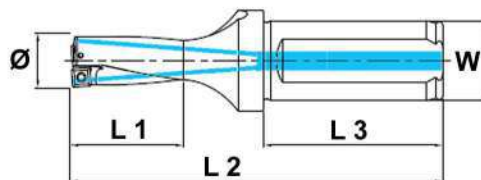




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808 - DRILLS



Bezeichnungen Codes	Größe - Dimensions							Plattentype Typologie des Plaquettes Inserts Type	Schraube Vis Screw	Schlüssel Clé Key
	Ø	Stock	Ø	L 1	L 2	L 3	W			
808 - 3 - 140	3 x D	●	14.0	42.0	114	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 3 - 145	3 x D	●	14.5	42.0	114	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 3 - 150	3 x D	●	15.0	45.0	117	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 3 - 155	3 x D	●	15.5	45.0	117	50.0	20.0	808 - 050204	AM2x4	TORX - T6
808 - 3 - 160	3 x D	●	16.0	48.0	126	56.0	25.0	808 - 050204	AM2x4	TORX - T6
808 - 3 - 165	3 x D	●	16.5	48.0	126	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 170	3 x D	●	17.0	51.0	129	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 175	3 x D	●	17.5	51.0	129	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 180	3 x D	●	18.0	54.0	132	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 185	3 x D	●	18.5	54.0	132	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 190	3 x D	●	19.0	57.0	135	56.0	25.0	808 - 060204	AM2.2x4.5	TORX - T7
808 - 3 - 195	3 x D	●	19.5	57.0	135	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 200	3 x D	●	20.0	60.0	138	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 205	3 x D	●	20.5	60.0	138	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 210	3 x D	●	21.0	63.0	141	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 215	3 x D	●	21.5	63.0	141	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 220	3 x D	●	22.0	66.0	144	56.0	25.0	808 - 070306	AM2.2x4.5	TORX - T7
808 - 3 - 225	3 x D	●	22.5	66.0	144	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 230	3 x D	●	23.0	69.0	147	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 235	3 x D	●	23.5	69.0	147	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 240	3 x D	●	24.0	72.0	150	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 245	3 x D	●	24.5	72.0	150	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 250	3 x D	●	25.0	75.0	153	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 255	3 x D	●	25.5	75.0	153	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 260	3 x D	●	26.0	78.0	156	56.0	25.0	808 - 08T306	AM2.5x6	TORX - T8
808 - 3 - 270	3 x D	●	27.0	81.0	159	56.0	25.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 3 - 280	3 x D	●	28.0	84.0	162	56.0	25.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 3 - 300	3 x D	●	30.0	90.0	177	60.0	32.0	808 - 09T308	AM3.5x9	TORX - T15
808 - 3 - 320	3 x D	●	32.0	96.0	183	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15
808 - 3 - 340	3 x D	●	34.0	102	189	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15
808 - 3 - 360	3 x D	●	36.0	108	195	60.0	32.0	808 - 11T308	AM3.5x9	TORX - T15



Stock

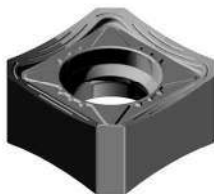
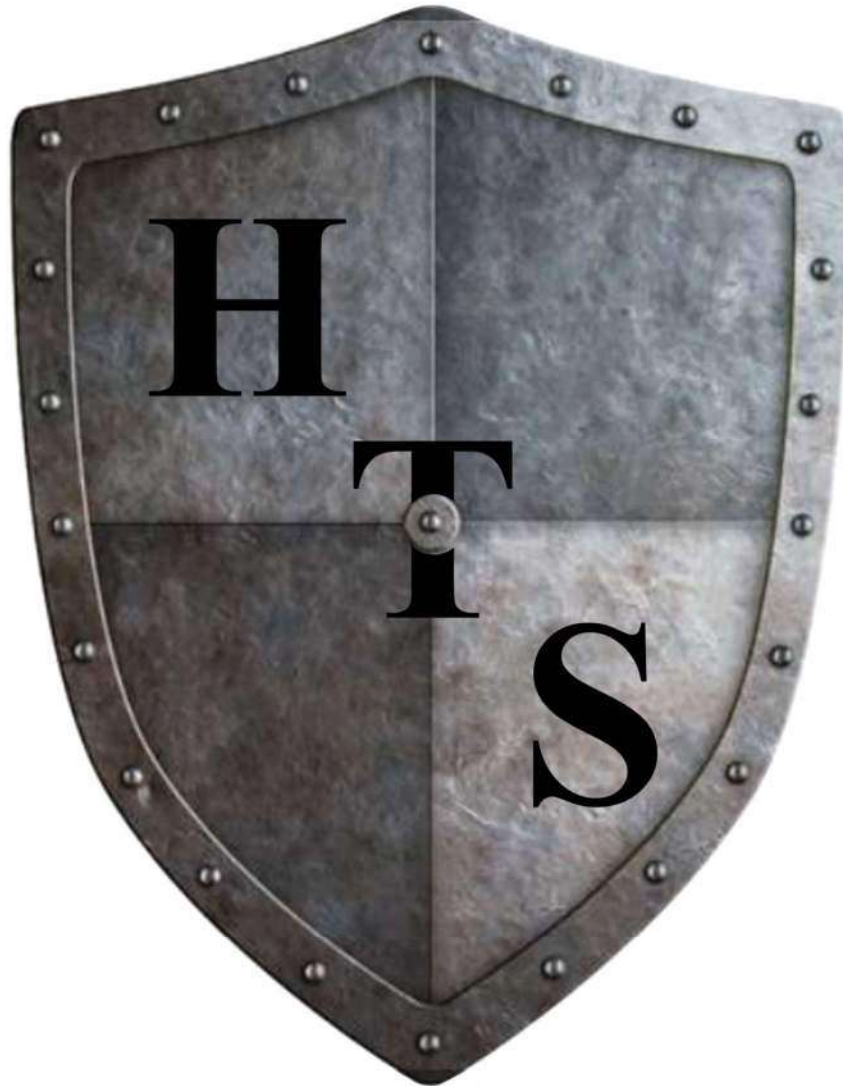


Availability to Check



On Request

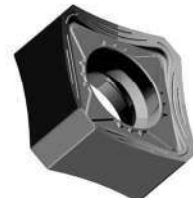




X45-CR PM5025



X90-CR PM5025



X88-CR PM5025



HTS - Milling





HTS



Carbide Quality

PM5025



P	M	S	K	N
P25	M25	S25	-	-

Beschichtung - Revêtement - Coating

Multilayer TiAlN + **Cryo Treatment**

Micrograine Carbide

1.0µm - 1.5µm

	Exzellent - Excellent
	Gut - Bon - Good

	Genügend - Suffisant - Sufficient
	Ungenügend - Insuffisant - Insufficient

Werkstoffe - Matières - Materials

Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
Grauguss - Fonte - Cast Iron = R < 250 HB					Vt/min'	-
Grauguss - Fonte - Cast Iron = R > 250 HB					Vt/min'	-
Aluminium = Si < 8%					Vt/min'	-
Aluminium = Si > 8%					Vt/min'	-

Werkstoffe Matières - Materials	P25	M25	S25	K25	N25
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	PM5025				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	PM5025				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		PM5025			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		PM5025			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		PM5025			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		PM5025			
HRSA = R 300 > 800 N/mm ²			PM5025		
HRSA = R 800 > 1200 N/mm ²			PM5025		
Grauguss = R < 250 HB Fonte = R < 250 HB Cast Iron = R < 250 HB					
Grauguss = R > 250 HB Fonte = R > 250 HB Cast Iron = R > 250 HB					
Aluminium = Si < 8%					
Aluminium = Si > 8%					

PM5025 = Alle Stähle (R = 300 > 1200 N/mm²)
PM5025 = Tous les Aciers (R = 300 > 1200 N/mm²)
PM5025 = All Steels (R = 300 > 1200 N/mm²)





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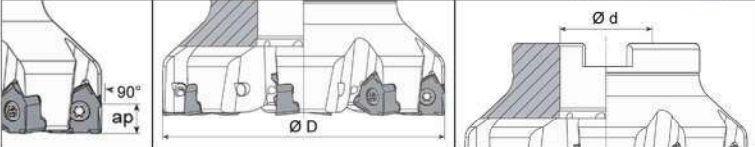


Grooving Inserts

X90-CR PM5025



P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiAlN + Cryo Treatment				
Micrograine Carbide				
1.0µm - 1.5µm				

Werkstoffe - Matières - Materials					
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²				Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²				Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²				Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²				Vt/min'	40 - 60
					
X90-CR Line					

Plattentype Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			ap	a°	Ø D	Ø d	Z	
	X90-CR PM5025	●	7.50	90°	-	-	-	Alle Stähle Tous les Aciers All Steels
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
Haltern - Porte-Outils - Holders		Stock	ap	a°	Ø D	Ø d	Z	
	X90M-50	●	7.50	90°	50.0	22.0	5	
	X90M-63	●	7.50	90°	63.0	22.0	5	
	X90M-80	●	7.50	90°	80.0	27.0	7	
	X90M-100	●	7.50	90°	100.0	32.0	8	
	X90M-125	●	7.50	90°	125.0	40.0	10	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

Stock
Availability to Check
On Request



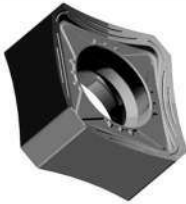


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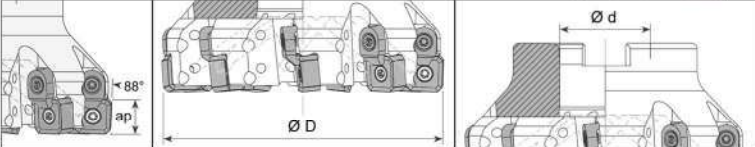


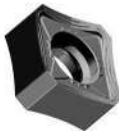
Grooving Inserts

X88-CR PM5025



P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiAlN + Cryo Treatment				
Micrograine Carbide				
1.0µm - 1.5µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
						
						X88-CR Line

Plattentype Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			ap	a°	Ø D	Ø d	Z	
	X88-CR PM5025		11.5	88°	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
Haltern - Porte-Outils - Holders		Stock	ap	a°	Ø D	Ø d	Z	Alle Stähle Tous les Aciers All Steels
	X88M-50		11.5	88°	50.0	22.0	5	
	X88M-63		11.5	88°	63.0	22.0	6	
	X88M-80		11.5	88°	80.0	27.0	7	
	X88M-100		11.5	88°	100.0	32.0	9	
	X88M-125		11.5	88°	125.0	40.0	10	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
-	-	-	-	-	-	-		



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



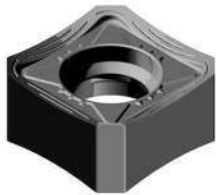


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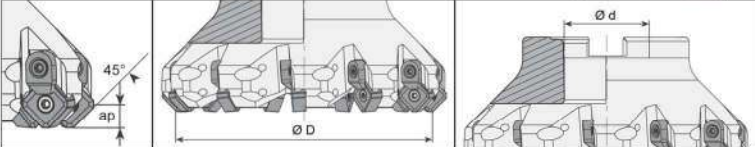


Grooving Inserts

X45-CR PM5025



P	M	S	K	N
P25	M25	S25	-	-
Beschichtung - Revêtement - Coating				
Multilayer TiAlN + Cryo Treatment				
Micrograine Carbide				
1.0µm - 1.5µm				

Werkstoffe - Matières - Materials						
Carbonstahl - Acier au Carbone - Carbon Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	80 - 150
Chromstahl - Acier au Chrome - Chrome Steel = R 800 > 1200 N/mm ²					Vt/min'	60 - 120
HRSA = R 300 > 800 N/mm ²					Vt/min'	60 - 100
HRSA = R 800 > 1200 N/mm ²					Vt/min'	40 - 60
						
						X45-CR Line

Plattentype Typologie des Plaquettes Inserts Type	Plattenbezeichnungen Codes des Plaquettes Inserts Codes	Stock	Größe Dimensions					Anwendung Stechplatten Application Plaquettes de Tronçonnage Application Grooving Inserts
			ap	a°	Ø D	Ø d	Z	
	X45-CR PM5025		6.00	45°	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
Haltern - Porte-Outils - Holders		Stock	ap	a°	Ø D	Ø d	Z	Alle Stähle Tous les Aciers All Steels
	X45M-50		6.00	45°	50.0	22.0	5	
	X45M-63		6.00	45°	63.0	22.0	6	
	X45M-80		6.00	45°	80.0	27.0	7	
	X45M-100		6.00	45°	100.0	32.0	10	
	X45M-125		6.00	45°	125.0	40.0	11	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
-	-	-	-	-	-	-		



Exzellent - Excellent
Gut - Bon - Good
Genügend - Suffisant - Sufficient

●	Stock
●	Availability to Check
●	On Request



[illegible]

[illegible]

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Crio - Cutting Tools Production

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