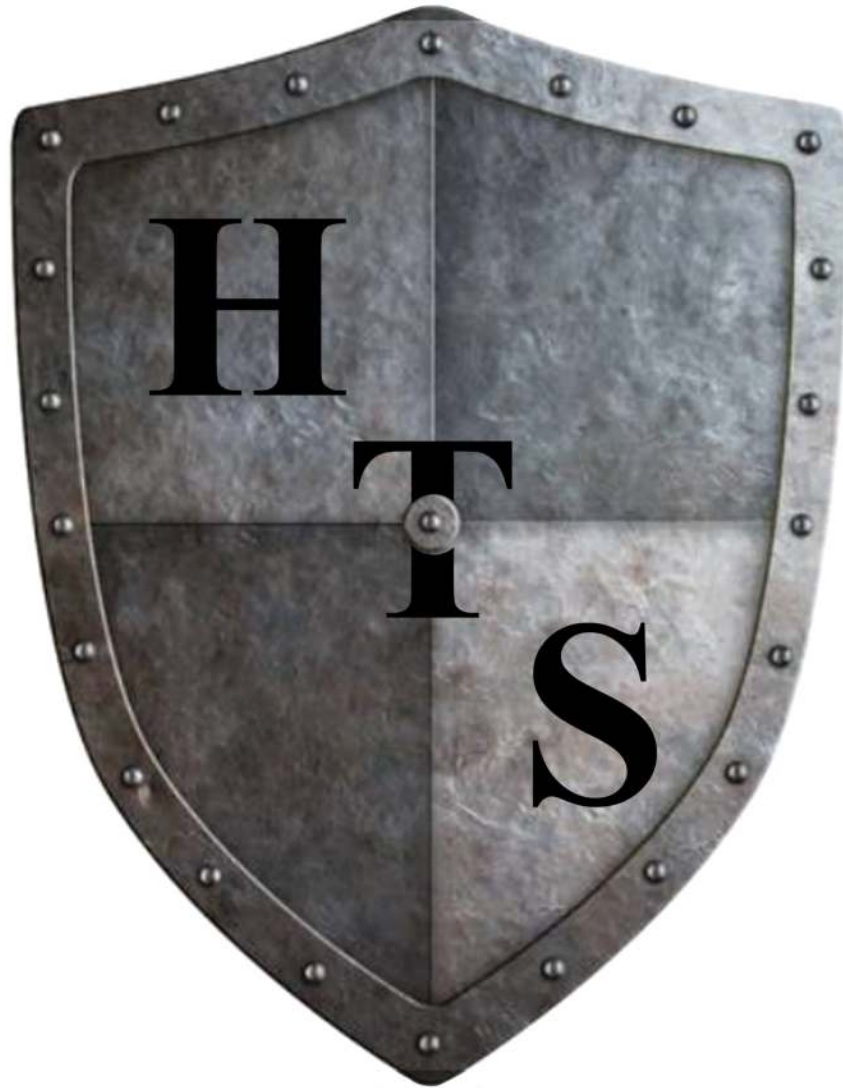




Crio - Taps





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 Group ist für die Qualität ihrer Werkzeuge weltweit bekannt.
HTS Group freut sich die neue Palette von Kryowerkzeuge seit 2023 zu vorstellen.
Crio-gewinden / Crio-stechen / Crio-drehen / Crio-bohren

Le Groupe

C'est depuis 1992 que la Famille Picco produit outils.
Aujourd'hui la HTS Group est connu dans le monde pour la qualité de son produits.
À partir de 2023 HTS Group est heureux de présenter la Nouvelle Gamme de Crio-Outils.
Crio-Filetage / Crio-Tarauds / Crio-Tronçonnage / Crio-Tournage / Crio-Perçage

The Group

Since 1992 the Picco Family produce Cutting Tools.
Today the HTS Group is known in the world for the quality of its tools.
Since 2023 HTS Group is happy to present the New Line of Crio-Tools.
Crio-Threading / Crio-Taps / Crio-Grooving / Crio-Turning / Crio-Drilling

Il Gruppo

Dal 1992 la Famiglia Picco produce Utensili da Taglio.
Oggi la HTS Group è conosciuta nel Mondo per la Qualità dei suoi Prodotti.
Dal 2023 la HTS Group è felice di Presentare la Nuova Linea di Crio Utensili.
Crio-Filettatura / Crio-Maschiatura / Crio-Troncatura / Crio-Tornitura / Crio-Foratura

El Grupo

Desde 1992 la Familia Picco produce Herramientas de Corte.
Hoy la HTS Group es conocida en el mundo por la Calidad de sus Productos.
Desde 2023 HTS Group es feliz de presentar la Nueva Línea de Herramientas de Corte Crio.
Crio-Roscado / Crio-Machos / Crio-Tronzado / Crio-Torneado / Crio-Taladrado



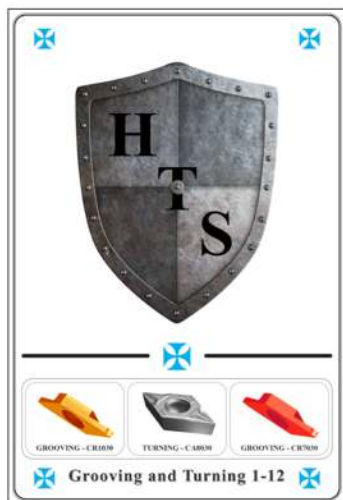


H T S



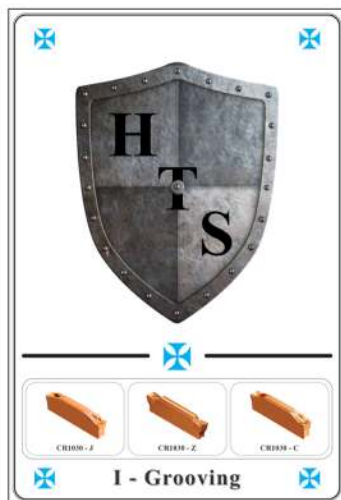
GLOBAL NETWORK





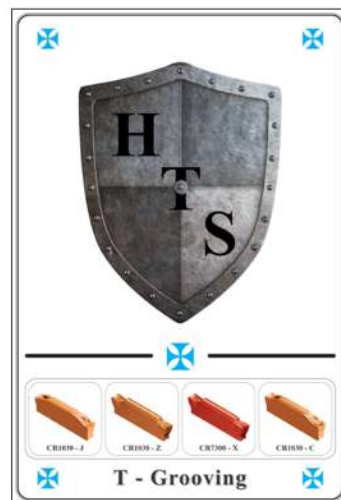
HTS - Crio Inox Line

Grooving and Turning
 $\varnothing 1.00 > \varnothing 12.0$



HTS - Crio Inox Line

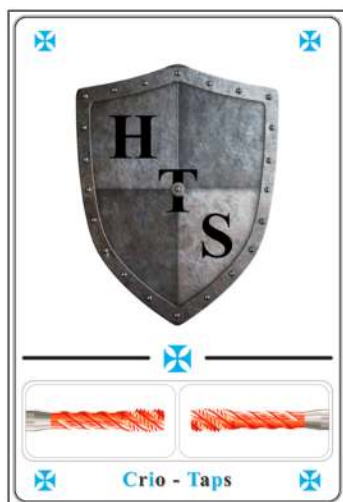
I - Grooving Line
 $\varnothing 10.0 > \varnothing 40.0$



HTS - Crio Inox Line

T - Grooving Line
 $\varnothing 10.0 > \varnothing 40.0$

HTS - Crio Inox Line



HTS - Crio Inox Line

Taps - Sintered Steel PM15
(Steel = Cr > 10%)



HTS - Crio Inox Line

Mono Drills
(Steel = Cr > 10%)



HTS - Crio Inox Line

Threading and Turning
(Steel = Cr > 10%)





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





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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 = mm ²	% 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	X2CrNi18-10	X2CrNi18-10 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	X2CrNi18-7	X2CrNi18-7 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	Z 6 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	X10CrAl112	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	16CrNiS4	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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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/mm² 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	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

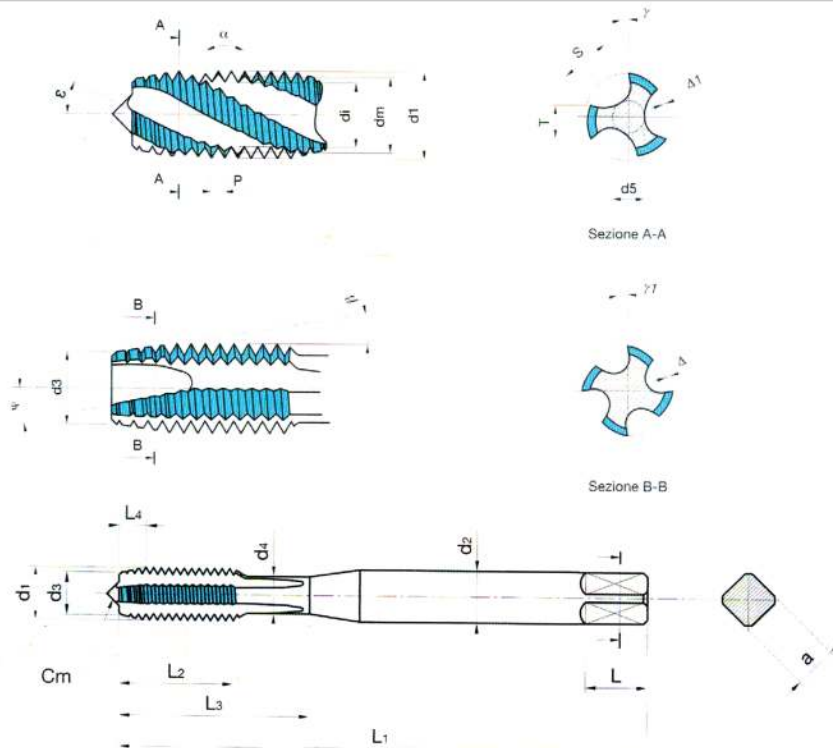




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Technical Information



L	Vierkantlänge Longeur du Carré Square Length
L1	Gesamtlänge Longeur Totale Total Length
L2	Gewindelänge Longeur du Filet Thread Length
L3	Halslänge Longeur du Collerette Neck Length
L4	Anschnittlänge Longeur de l'Entrée Chamfer Length
P	Steigung Pas Pitch
S	Nutenbreite Largeur des Goujures Flute Width
d1	Außendurchmesser Diamètre Extérieur Nominal Thread Diameter

d2	Schaftdurchmesser Diamètre de Tige Shank Diameter
d3	Anschnittdurchmesser Diamètre de l'Entrée Chamfer Diameter
d4	Halsdurchmesser Diamètre du Collerette Neck Diameter
d5	Kerndurchmesser Diamètre du Noyau Core Diameter
dm	Flanchendurchmesser Diamètre Moyen Pitch Diameter
di	Innendurchmesser Diamètre Intérieur Internal Diameter
T	Zahnbreite Largeur du Dent Tooth Width
a	Gewindeprofil Filet de Profil Thread Angle

γ_1	Spanwinkel Angle de Coupe Frontal Rake Angle
γ	Schnittwinkel über Schälnoten Angle de Coupe sur l'Entrée Gun Cutting Angle on Spiral Point
β	Anschnittwinkel Angle d'Entrée Chamfer Angle
ϵ	Spiralneigung Inclinaison de l'Hélice Spiral Flute Inclination
Δ	Anschnitthinterschliff Dépouille de l'Entrée Chamfer Relief
Δ_1	Gewindehinterschliff Dépouille sur le Filet Pitch Diameter Relief
a	Vierkant Carré Square
φ	Winkelneigung Schälnoten Angle Inclinaison Entrée Gun Spiral Point Inclination Angle

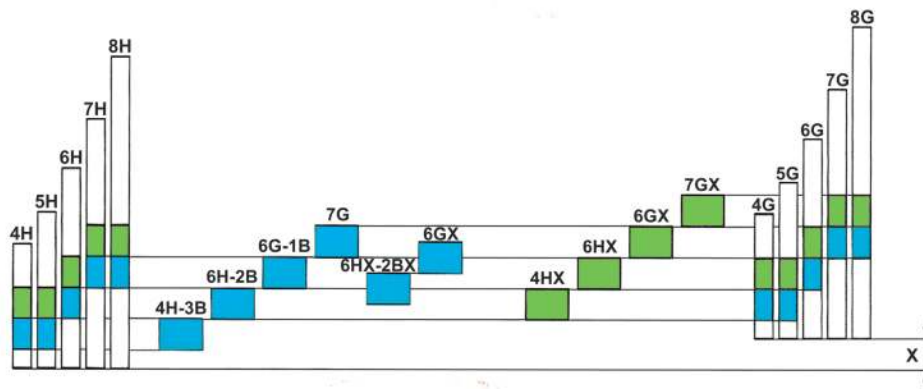




HTS



Technical Information



Toleranzfeld - Maschinengewindebohrern
 Champ de Toler         - Tarauds Coupants
 Tolerance Ranges - Cutting Taps

Toleranzfeld - Maschinengewindeformen
 Champ de Toler         - Tarauds    Refouler
 Tolerance Ranges - Forming Taps

ISO 1 = 4H-5H = 3B

ISO 2 = 6H = 2B

ISO 3 = 6G = 1B

4HX = 3BX

6HX = 2BX

6GX = 1BX

Schnittgeschwindigkeit Formel

Formule Vitesse de Coupe

Cutting Speed Formula

$$V_t/\text{min}' = \frac{3.14 \times \varnothing \times \text{Rpm}}{1000}$$

$$\text{Rpm} = \frac{V_t/\text{min}' \times 1000}{3.14 \times \varnothing}$$

$\varnothing$ = Gewindebohrern Durchmesser - Diam         - Diameter Taps

Rpm = Drehzahl - Nombre de Tours - Taps Revolution

V_t/min' = Schnittgeschwindigkeit - Vitesse de Coupe - Cutting Speed





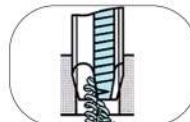
HTS



Technical Information



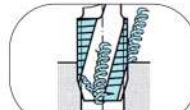
Taps Codes
10 - 11
Spiral Pointed



Durchgangsloch
Trou Débouchant
Trough Hole



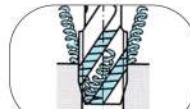
Taps Codes
20 - 21
20° Flute Taps



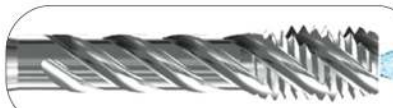
Sackloch 1.5xD
Trou Borgne 1.5xD
Blind Hole 1.5xD



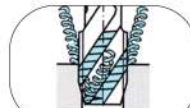
Taps Codes
40 - 41
40° Flute Taps



Sackloch 2.5xD
Trou Borgne 2.5xD
Blind Hole 2.5xD



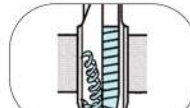
Taps Codes
40CH - 41CH
40° Flute Taps



Sackloch 2.5xD
Trou Borgne 2.5xD
Blind Hole 2.5xD



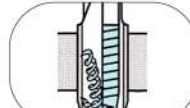
Taps Codes
70 - 71
Cast Iron Taps



Alle Löcher
Tous les Trous
All the Holes



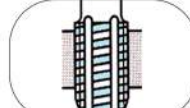
Taps Codes
70CH - 71CH
Cast Iron Taps



Alle Löcher
Tous les Trous
All the Holes



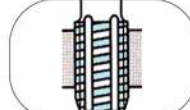
Taps Codes
92 - 93
Rolling Taps



Alle Löcher
Tous les Trous
All the Holes



Taps Codes
92CH - 93CH
Rolling Taps



Alle Löcher
Tous les Trous
All the Holes





HTS



Taps Quality

KS - PM15



P	M	S	K	N
PM15	PM15	PM15	-	-

Beschichtung - Revêtement - Coating

Multilayer TiSiN + **CRIO Treatment**

Sintered Steel

PM15

	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'	18 - 30
Carbonstahl - Acier au Carbone - Carbon Steel = R 800 > 1200 N/mm ²					Vt/min'	12 - 18
Edelstahl - Acier Inox - Stainless Steel = R 300 > 800 N/mm ²					Vt/min'	18 - 30
Edelstahl - Acier Inox - Stainless Steel = R 800 > 1200 N/mm ²					Vt/min'	12 - 18
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 800 N/mm ²					Vt/min'	18 - 30
Chromstahl - Acier au Chrome - Chrome Steel = R 300 > 1200 N/mm ²					Vt/min'	12 - 18
HRSA = R 300 > 800 N/mm ²					Vt/min'	18 - 25
HRSA = R 800 > 1200 N/mm ²					Vt/min'	12 - 18
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	P	M	S	K	N
Carbonstahl = R 300 > 800 N/mm ² Acier au Carbone = R 300 > 800 N/mm ² Carbon Steel = R 300 > 800 N/mm ²	PM15				
Carbonstahl = R 800 > 1200 N/mm ² Acier au Carbone = R 800 > 1200 N/mm ² Carbon Steel = R 800 > 1200 N/mm ²	PM15				
Edelstahl = R 300 > 800 N/mm ² Acier Inox = R 300 > 800 N/mm ² Stainless Steel = R 300 > 800 N/mm ²		PM15			
Edelstahl = R 800 > 1200 N/mm ² Acier Inox = R 800 > 1200 N/mm ² Stainless Steel = R 800 > 1200 N/mm ²		PM15			
Chromstahl = R 300 > 800 N/mm ² Acier au Chrome = R 300 > 800 N/mm ² Chrome Steel = R 300 > 800 N/mm ²		PM15			
Chromstahl = R 800 > 1200 N/mm ² Acier au Chrome = R 800 > 1200 N/mm ² Chrome Steel = R 800 > 1200 N/mm ²		PM15			
HRSA = R 300 > 800 N/mm ²			PM15		
HRSA = R 800 > 1200 N/mm ²			PM15		
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%					

KS - PM15 = Edelstahl (R = 300 > 1200 N/mm²)
KS - PM15 = Acier Inox (R = 300 > 1200 N/mm²)
KS - PM15 = Stainless Steel (R = 300 > 1200 N/mm²)







HTS



40° Flute Taps

Trou Borgne

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

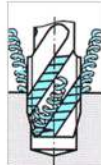
S

Grauguss
Fonte
Cast Iron

K

Aluminium

N



METRIC

6H - 6G

Trou
Loch
Hole

2.5 x D

Sackloch

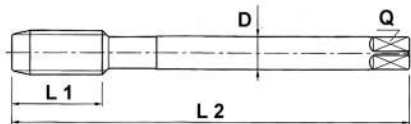


A40KS - A41KS



A40KS - A41KS

Blind Hole



Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	7	56	3.5	2.7	2.5	371	A40
4	0.70	8.5	63	4.5	3.4	3.3	371	A40
5	0.80	10	70	6	4.9	4.2	371	A40
6	1.00	12	80	6	4.9	5	371	A40
8	1.25	14	90	8	6.2	6.8	371	A40
10	1.50	17	100	10	8	8.5	371	A40
12	1.75	18	110	9	7	10.25	376	A41
14	2.00	20.5	110	11	9	12	376	A41
16	2.00	20.5	110	12	9	14	376	A41
18	2.50	25.5	125	14	11	15.5	376	A41
20	2.50	25.5	140	16	12	17.5	376	A41
22	2.50	32	140	18	14.5	19.5	376	A41
24	3.00	32	160	18	14.5	21	376	A41
27	3.00	37	160	20	16	24	376	A41
30	3.50	37	180	22	18	26.5	376	A41
33	3.50	42	180	25	20	29.5	376	A41
36	4.00	45	200	28	22	32	376	A41

A40KS - A41KS

6H PM15

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = C



A40KS - A41KS

6G PM15

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = C



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Stock



Availability to Check



On Request





HTS



40° Flute Taps

Trou Borgne

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

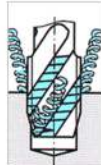
S

Grauguss
Fonte
Cast Iron

K

Aluminium

N



METRIC

6H - 6G

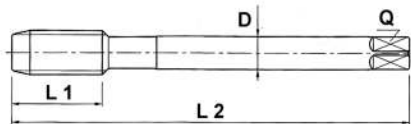
Trou
Loch
Hole

2.5 x D

Sackloch



Blind Hole



Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	7	56	3.5	2.7	2.5	371	A40
4	0.70	8.5	63	4.5	3.4	3.3	371	A40
5	0.80	10	70	6	4.9	4.2	371	A40
6	1.00	12	80	6	4.9	5	371	A40
8	1.25	14	90	8	6.2	6.8	371	A40
10	1.50	17	100	10	8	8.5	371	A40
12	1.75	18	110	9	7	10.25	376	A41
14	2.00	20.5	110	11	9	12	376	A41
16	2.00	20.5	110	12	9	14	376	A41
18	2.50	25.5	125	14	11	15.5	376	A41
20	2.50	25.5	140	16	12	17.5	376	A41
22	2.50	32	140	18	14.5	19.5	376	A41
24	3.00	32	160	18	14.5	21	376	A41
27	3.00	37	160	20	16	24	376	A41
30	3.50	37	180	22	18	26.5	376	A41
33	3.50	42	180	25	20	29.5	376	A41
36	4.00	45	200	28	22	32	376	A41

A40KS - A41KS

6H PM15 E

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

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A40KS - A41KS

6G PM15 E

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

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Stock



Availability to Check



On Request





HTS



40° Flute Taps

Trou Borgne

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

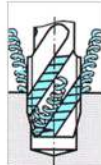
S

Grauguss
Fonte
Cast Iron

K

Aluminium

N



METRIC

6H - 6G

Trou
Loch
Hole

2.5 x D

Sackloch



A40KS - A41KS

6H PM15 CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = C

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A40KS - A41KS

6G PM15 CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = C

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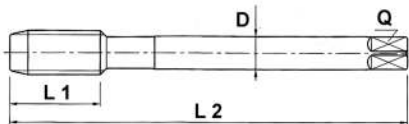
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Blind Hole



Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	7	56	3.5	2.7	2.5	371	A40
4	0.70	8.5	63	4.5	3.4	3.3	371	A40
5	0.80	10	70	6	4.9	4.2	371	A40
6	1.00	12	80	6	4.9	5	371	A40
8	1.25	14	90	8	6.2	6.8	371	A40
10	1.50	17	100	10	8	8.5	371	A40
12	1.75	18	110	9	7	10.25	376	A41
14	2.00	20.5	110	11	9	12	376	A41
16	2.00	20.5	110	12	9	14	376	A41
18	2.50	25.5	125	14	11	15.5	376	A41
20	2.50	25.5	140	16	12	17.5	376	A41
22	2.50	32	140	18	14.5	19.5	376	A41
24	3.00	32	160	18	14.5	21	376	A41
27	3.00	37	160	20	16	24	376	A41
30	3.50	37	180	22	18	26.5	376	A41
33	3.50	42	180	25	20	29.5	376	A41
36	4.00	45	200	28	22	32	376	A41



Stock



Availability to Check



On Request





HTS



40° Flute Taps

Trou Borgne

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

S

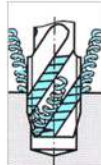
Grauguss
Fonte
Cast Iron

K

Aluminium

N

Sackloch



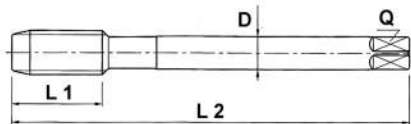
METRIC

6H - 6G

Trou
Loch
Hole

2.5 x D

Blind Hole



Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	7	56	3.5	2.7	2.5	371	A40
4	0.70	8.5	63	4.5	3.4	3.3	371	A40
5	0.80	10	70	6	4.9	4.2	371	A40
6	1.00	12	80	6	4.9	5	371	A40
8	1.25	14	90	8	6.2	6.8	371	A40
10	1.50	17	100	10	8	8.5	371	A40
12	1.75	18	110	9	7	10.25	376	A41
14	2.00	20.5	110	11	9	12	376	A41
16	2.00	20.5	110	12	9	14	376	A41
18	2.50	25.5	125	14	11	15.5	376	A41
20	2.50	25.5	140	16	12	17.5	376	A41
22	2.50	32	140	18	14.5	19.5	376	A41
24	3.00	32	160	18	14.5	21	376	A41
27	3.00	37	160	20	16	24	376	A41
30	3.50	37	180	22	18	26.5	376	A41
33	3.50	42	180	25	20	29.5	376	A41
36	4.00	45	200	28	22	32	376	A41

A40KS - A41KS

6H PM15 E CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

A40KS - A41KS

6G PM15 E CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

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Stock



Availability to Check



On Request





HTS



Rolling Taps

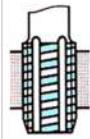
Tous les Trous

Alle Löcher

All the Holes

Carbonstahl
Acier au Carbone
Carbon Steel

P



Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

METRIC

HRSA

S

6HX
6GX

Grauguss
Fonte
Cast Iron

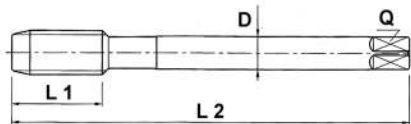
K

Trou
Loch
Hole

Aluminium

N

2.5 x D



A92KS - A93KS

6HX PM15 E

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

A92KS - A93KS

6GX PM15 E

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	6	56	3.5	2.7	2.8	371	A92
4	0.70	7	63	4.5	3.4	3.7	371	A92
5	0.80	8	70	6	4.9	4.65	371	A92
6	1.00	10	80	6	4.9	5.55	371	A92
8	1.25	14	90	8	6.2	7.45	371	A92
10	1.50	16	100	10	8	9.35	371	A92
12	1.75	18	110	9	7	11.2	376	A93
14	2.00	20	110	11	9	13.1	376	A93
16	2.00	20	110	12	9	15.1	376	A93
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Stock



Availability to Check



On Request





HTS



Rolling Taps

Tous les Trous

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

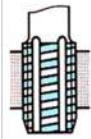
S

Grauguss
Fonte
Cast Iron

K

Aluminium

N



METRIC

6HX
6GX

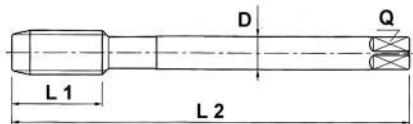
Trou
Loch
Hole

2.5 x D

Alle Löcher



All the Holes



Ø	P	L1	L2	D	Q	Drill	Din	Codes
3	0.50	6	56	3.5	2.7	2.8	371	A92
4	0.70	7	63	4.5	3.4	3.7	371	A92
5	0.80	8	70	6	4.9	4.65	371	A92
6	1.00	10	80	6	4.9	5.55	371	A92
8	1.25	14	90	8	6.2	7.45	371	A92
10	1.50	16	100	10	8	9.35	371	A92
12	1.75	18	110	9	7	11.2	376	A93
14	2.00	20	110	11	9	13.1	376	A93
16	2.00	20	110	12	9	15.1	376	A93
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A92KS - A93KS

6HX PM15 E CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

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A92KS - A93KS

6GX PM15 E CH

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = E

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Stock



Availability to Check



On Request





HTS



Spiral Pointed

Trou Débouchant

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

S

Grauguss
Fonte
Cast Iron

K

Aluminium

N



METRIC
FINE

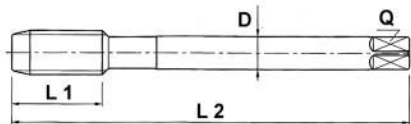
6H

Trou
Loch
Hole

3 x D



Trough Hole



Ø	P	L1	L2	D	Q	Drill	Din	Codes
8	1.00	18	90	8	6.2	7	371	B10
10	1.00	15	90	10	8	9	371	B10
10	1.25	20	100	10	8	8.75	371	B10
8	1.00	16	90	6	4.9	7	374	B11
10	1.00	18	90	7	5.5	9	374	B11
10	1.25	18	100	7	5.5	8.75	374	B11
12	1.00	22	100	9	7	11	374	B11
12	1.25	22	100	9	7	10.75	374	B11
12	1.50	22	100	9	7	10.5	374	B11
14	1.00	22	100	11	9	13	374	B11
14	1.50	22	100	11	9	12.5	374	B11
16	1.00	22	100	12	9	15	374	B11
16	1.50	22	100	12	9	14.5	374	B11
18	1.00	25	110	14	11	17	374	B11
18	1.50	25	110	14	11	16.5	374	B11
20	1.00	25	125	16	12	19	374	B11
20	1.50	25	125	16	12	18.5	374	B11

B10KS - B11KS

6H PM15

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = B

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Stock



Availability to Check



On Request





HTS



Rolling Taps

Tous les Trous

Alle Löcher

All the Holes

Carbonstahl
Acier au Carbone
Carbon Steel

P

Edelstahl - Chromstahl
Acier Inox - Acier au Chrome
Stainless Steel - Chrome Steel

M

HRSA

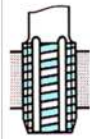
S

Grauguss
Fonte
Cast Iron

K

Aluminium

N

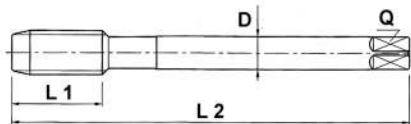


METRIC
FINE

6HX

Trou
Loch
Hole

2.5 x D



Ø	P	L1	L2	D	Q	Drill	Din	Codes
8	1.00	13	90	8	6.2	7.55	371	B92
10	1.00	13	90	10	8	9.55	371	B92
10	1.25	13	90	10	8	9.40	371	B92
12	1.00	13	100	9	7	11.55	374	B93
12	1.25	13	100	9	7	11.4	374	B93
12	1.50	15	100	9	7	11.3	374	B93
14	1.50	15	100	11	9	13.3	374	B93
16	1.50	15	100	12	9	15.3	374	B93
18	1.50	15	110	14	11	17.3	374	B93
20	1.50	15	125	16	12	19.3	374	B93
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B92KS - B93KS

6HX PM15

P M S - -

R = 300 > 1200

Vt/min' 18 > 30

Entrance = C

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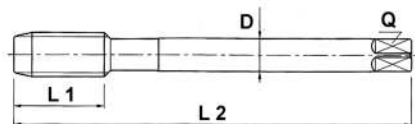
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Blind Hole

 $2.5 \times D$ [illegible][illegible][illegible][illegible][illegible]



Blind Hole

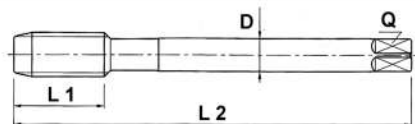


GAS

ISO 228

Trou
Loch
Hole

2.5 x D

[illegible][illegible][illegible][illegible][illegible]

Stock



Availability to Check



On Request





All the Holes





HTS



Gallery

HTS Plattenherstellung - HTS Production des Plaquettes - HTS Inserts Production



[illegible]

[illegible]

Hi-Tech Tools Systems
Crio - Cutting Tools Production

Rivarolo Canavese
Torino - Italy

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