

HiperSpade



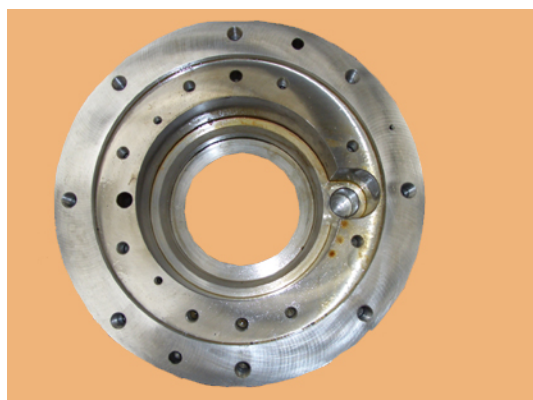
HIPER TOOLS PRESENTA HIPER DRILLS SPADE



Hiper Drills Spade è una linea di foratura ad inserti con una nuova ed innovativa geometria di taglio che consentono alti avanzamenti e una notevole durata.



Un'ampia gamma di diametri, dal D.9,5 al D.114,0 con la possibilità di scegliere inserti in widia o in HSS e degli ultimi tipi di rivestimento in CVD e PVD consentono di poter lavorare agevolmente un'ampia gamma di materiali che variano dagli acciai agli inox, all'alluminio e alle ghise.



Ogni stelo può portare diametri diversi limitando quindi le spese di gestione, e si può scegliere tra 2 diverse eliche di evacuazione truciolo in funzione del materiale da lavorare e delle lunghezze necessarie, si arriva infatti anche a 10 volte il diametro.

CORPI

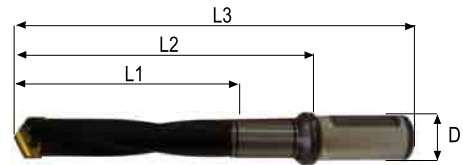
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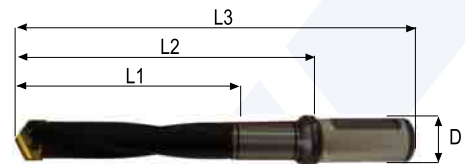
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COD. WSS


Punta ad inserti, attacco cilindrico ,serie corta elica a spirale.

WELDOM SHORT SPIRAL

codice	inserto	L1	L2	L3	D
WSS10250	18,0 - 24,0	117,5	158,4	207,9	25,0
WSS15250	22,0 - 24,0	117,5	158,4	207,9	25,0
WSS20320	25,0 - 35,0	136,5	183,0	237,3	32,0
WSS25320	30,0 - 35,0	136,5	183,0	237,3	32,0
WSS30400	36,0 - 47,0	165,1	222,3	287,6	40,0

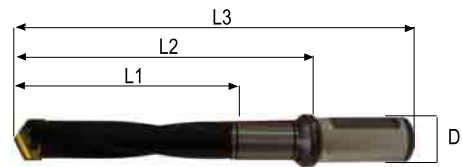
COD. WMS


Punta ad inserti , attacco cilindrico, serie media , elica a spirale.

WELDOM MEDIUM SPIRAL

codice	inserto	L1	L2	L3	D
WSSY0200	9,5 - 11,0	60,3	92,1	131,6	20,0
WSSZ0200	11,5 - 12,5	60,3	92,1	131,6	20,0
WSS00200	13,0 - 17,5	63,5	94,9	134,0	20,0
WSS05200	15,5 - 17,5	63,5	94,9	134,0	20,0
WSS10250	18,0 - 24,0	168,3	209,2	258,7	25,0
WSS15250	22,0 - 24,0	168,3	209,2	258,7	25,0
WSS20320	25,0 - 35,0	187,3	233,8	288,1	32,0
WSS25320	30,0 - 35,0	187,3	233,8	288,1	32,0
WSS30400	36,0 - 47,0	209,6	266,7	332,0	40,0
WSS40400	48,0 - 65,0	231,8	285,8	351,1	40,0

COD. WLS

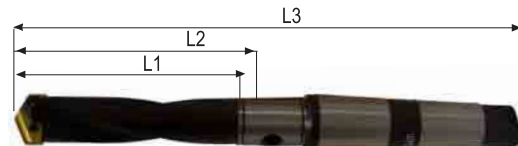


Punta ad inserti , attacco cilindrico , serie lunga , elica a spirale.

WELDOM LONG SPIRAL

codice	inserto	L1	L2	L3	D
WLSY0200	9,5 - 11,0	111,1	182,4	182,4	20,0
WLSZ0200	11,5 - 12,5	111,1	182,4	182,4	20,0
WLS00200	13,0 - 17,5	114,3	184,8	184,8	20,0
WLS05200	15,5 - 17,5	114,3	184,8	184,8	20,0
WLS10250	18,0 - 24,0	269,9	360,3	360,3	25,0
WLS15250	22,0 - 24,0	269,9	360,3	360,3	25,0
WLS20320	25,0 - 35,0	288,9	389,7	389,7	32,0
WLS25320	30,0 - 35,0	288,9	389,7	389,7	32,0

COD. CSS



Punta ad inserti , attacco cono morse, serie corta elica a spirale.

CONE SHORT SPIRAL

codice	inserto	L1	L2	L3	CM
CSS10030	18,0 - 24,0	120,7	149,2	193,3	3
CSS15030	22,0 - 24,0	120,7	149,2	193,3	3
CSS20040	25,0 - 35,0	136,5	165,1	211,2	4
CSS25040	30,0 - 35,0	136,5	165,1	218,4	4
CSS30040	36,0 - 47,0	165,1	196,9	250,9	4

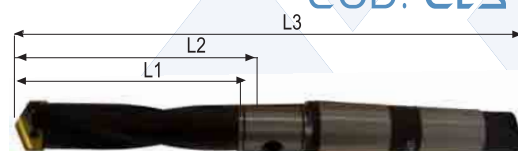


Punta ad inserti , attacco cono morse, serie lunga, elica spirale.

CONE MEDIUM SPIRAL

codice	inserto	L1	L2	L3	CM
CMS10020	9,5 - 11,0	60,3	80,2	116,7	2
CMS20020	11,5 - 12,5	60,3	80,2	116,7	2
CMS00020	13,0 - 17,5	63,5	84,1	121,0	2
CMS05020	15,5 - 17,5	63,5	84,1	121	2
CMS10030	18,0 - 24,0	171,5	200,0	244,1	3
CMS15030	22,0 - 24,0	171,5	200	244,1	3
CMS20040	25,0 - 35,0	187,3	215,9	262,0	4
CMS25040	30,0 - 35,0	187,3	215,9	269,2	4
CMS30040	36,0 - 47,0	209,5	241,3	295,3	4
CMS40050	48,0 - 65,0	231,8	266,7	320,7	5
CMS50050	64,0 - 88,0	273,1	317,5	388,9	5
CMS70050	90,0 - 114,0	273,1	327	398,5	5

COD. CLS

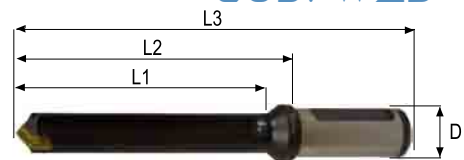


Punta ad inserti, attacco cono morse, serie lunga elica a spirale.

CONE LONG SPIRAL

codice	inserto	L1	L2	L3	CM
CLS10020	9,5 - 11,0	111,1	130,9	239,7	2
CLS20020	11,5 - 12,5	111,1	130,9	239,7	2
CLS00020	13,0 - 17,5	114,3	135,0	243,7	2
CLS05020	15,5 - 17,5	114,3	135,0	243,7	2
CLS10030	18,0 - 24,0	273,1	301,6	435,8	3
CLS15030	22,0 - 24,0	273,1	301,6	435,8	3
CLS20040	25,0 - 35,0	289,0	317,5	477,0	4
CLS25040	30,0 - 35,0	289,0	317,5	484,2	4

COD. WSD

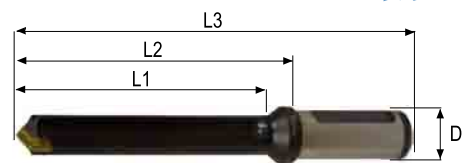


Punta ad inserti , attacco cilindrico , serie corta, elica dritta.

WELDOM SHORT DRILLS

codice	inserto	L1	L2	L3	D
WSD10020	9,5 - 11,0	19,1	50,0	89,5	16
WSD20160	11,5 - 12,5	19,1	50	89,5	16
WSD00200	13,0 - 17,5	22,2	50,4	89,5	20
WSD05200	15,5 - 17,5	22,2	50,4	89,5	20
WSD10250	18,0 - 24,0	47,6	79,4	128,9	25
WSD15250	22,0 - 24,0	57,2	92,1	141,6	25
WSD20320	25,0 - 35,0	57,2	92,1	146,4	32

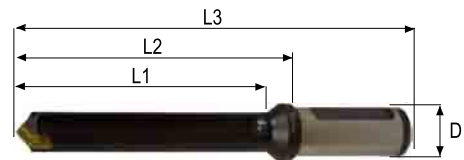
COD. WMD



Punta ad inserti , attacco cilindrico, serie media, elica dritta.

WELDOM MEDIUM DRILLS

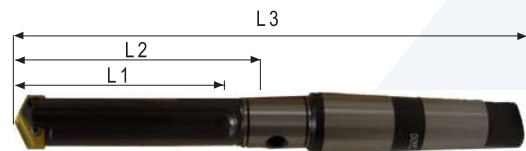
codice	inserto	L1	L2	L3	D
WMD10200	9,5 - 11,0	31,8	63,5	103,0	20,0
WMD20200	11,5 - 12,5	31,8	63,5	103,0	20,0
WMD00200	13,0 - 17,5	34,9	66,3	105,4	20,0
WMD05200	15,5 - 17,5	34,9	66,3	105,4	20,0
WMD10250	18,0 - 24,0	66,7	110,7	160,2	25,0
WMD15250	22,0 - 24,0	66,7	110,7	160,2	25,0
WMD20320	25,0 - 35,0	85,7	132,2	186,5	32,0
WMD25320	30,0 - 35,0	85,7	132,2	186,5	32,0
WMD30400	36,0 - 47,0	120,7	177,8	243,1	40,0
WMD40400	48,0 - 65,0	130,2	184,2	249,5	40,0

COD. WLD


Punta ad inseri, attacco cilindrico ,serie lunga elica diritta.

WELDOM LONG DRILLS

codice	inserto	L1	L2	L3	C.M.
WLD30400	36,0 - 47,0	349,3	406,4	471,7	40,0
WLD40400	48,0 - 65,0	422,3	476,3	541,6	40,0

COD. CSD


Punta ad inseri , attacco cono morse, serie corta , elica diritta.

CONE SHORT DRILLS

codice	inserto	L1	L2	L3	C.M.
CSD00020	9,5 - 11,0	31,8	51,5	88,0	2
CSD10020	11,5 - 12,5	31,8	51,5	88,0	2
CSD00021	13,0 - 17,5	35,0	55,5	92,4	2
CSD05020	15,5 - 17,5	35,0	55,5	92,4	2
CSD10030	18,0 - 24,0	69,8	98,4	142,5	3
CSD15030	22,0 - 24,0	69,8	98,4	142,5	3
CSD20040	25,0 - 35,0	85,7	114,3	160,4	4
CSD25040	30,0 - 35,0	85,7	114,3	167,6	4
CSD30040	36,0 - 47,0	120,6	152,4	206,4	4
CSD40050	48,0 - 65,0	130,1	165,1	219,1	5
CSD50050	64,0 - 88,0	171,5	215,9	287,3	5
CSD70050	90,0 - 114,0	171,5	224,4	296,8	5



Inserto in HSS indicato per materiali ferrosi , acciaio e ghisa.

HSS

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
9,50	XST55095	XTD70095	15,00	XST55150	XTD70150
9,53	XST05024	XTD20024	15,08	XST05038	XTD20038
9,80	XST55098	XTD70098	15,48	XST05039	XTD20039
9,92	XST05025	XTD20025	15,50	XST55155	XTD70155
10,00	XST55100	XTD70100	15,88	XST05040	XTD20040
10,20	XST55102	XTD70102	16,00	XST55160	XTD70160
10,32	XST05026	XTD20026	16,27	XST05041	XTD20041
10,50	XST55105	XTD70105	16,50	XST55165	XTD70165
10,72	XST05027	XTD20027	16,67	XST05042	XTD20042
10,80	XST55108	XTD70108	17,00	XST55170	XTD70170
11,00	XST55110	XTD70110	17,07	XST05043	XTD20043
11,11	XST05028	XTD20028	17,46	XST05044	XTD20044
11,50	XST55115	XTD70115	17,50	XST55175	XTD70175
11,51	XST05029	XTD20029	17,86	XST05045	XTD20045
11,91	XST05030	XTD20030	18,00	XST55180	XTD70180
12,00	XST55120	XTD70120	18,26	XST05046	XTD20046
12,30	XST05031	XTD20031	18,50	XST55185	XTD70185
12,50	XST55125	XTD70125	18,65	XST05047	XTD20047
12,70	XST05032	XTD20032	19,00	XST55190	XTD70190
13,00	XST55130	XTD70130	19,05	XST05048	XTD20048
13,10	XST05033	XTD20033	19,45	XST05049	XTD20049
13,49	XST05034	XTD20034	19,50	XST55195	XTD70195
13,50	XST55135	XTD70135	19,84	XST05050	XTD20050
13,89	XST05035	XTD20035	20,00	XST55200	XTD70200
14,00	XST55140	XTD70140	20,24	XST05051	XTD20051
14,29	XST05036	XTD20036	20,50	XST55205	XTD70205
14,50	XST55145	XTD70145	20,64	XST05052	XTD20052
14,68	XST05037	XTD20037	21,00	XST55210	XTD70210



diam.	codice tin	codice tialn	diam	codice tin	codice tialn
21,43	XST05054	XTD20054	31,00	XST55310	XTD70310
21,83	XST05055	XTD20055	31,75	XST05116	XTD20116
22,00	XST55220	XTD70220	32,00	XST55320	XTD70320
22,23	XST05056	XTD20056	32,54	XST05118	XTD20118
22,62	XST05057	XTD20057	33,00	XST55330	XTD70330
23,00	XST55230	XTD70230	33,34	XST05120	XTD20120
23,02	XST05058	XTD20058	34,00	XST55340	XTD70340
23,42	XST05059	XTD20059	34,13	XST05122	XTD20122
23,81	XST05060	XTD20060	34,93	XST05124	XTD20124
24,00	XST55240	XTD70240	35,00	XST55350	XTD70350
24,61	XST05062	XTD20062	35,72	XST05126	XTD20126
25,00	XST05063	XTD20063	36,00	XST55360	XTD70360
25,40	XST05100	XTD20100	36,51	XST05128	XTD20128
25,80	XST05101	XTD20101	37,00	XST55370	XTD70370
26,00	XST55260	XTD70260	37,31	XST05130	XTD20130
26,19	XST05102	XTD20102	38,00	XST55380	XTD70380
26,59	XST05103	XTD20103	38,10	XST05132	XTD20132
26,99	XST05104	XTD20104	38,89	XST05134	XTD20134
27,00	XST55270	XTD70270	39,00	XST55390	XTD70390
27,78	XST05106	XTD20106	39,69	XST05136	XTD20136
28,00	XST55280	XTD70280	40,00	XST55400	XTD70400
28,18	XST05107	XTD20107	40,48	XST05138	XTD20138
28,58	XST05108	XTD20108	41,00	XST55410	XTD70410
29,00	XST55290	XTD70290	41,28	XST05140	XTD20140
29,37	XST05110	XTD20110	42,00	XST55420	XTD70420
30,00	XST55300	XTD70300	42,07	XST05142	XTD20142
30,16	XST05112	XTD20112	42,86	XST05144	XTD20144
30,96	XST05114	XTD20114	43,00	XST55430	XTD70430

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
43,66	XST05146	XTD20146	56,00	XST55560	XTD70560
44,00	XST55440	XTD70440	56,36	XST05214	XTD20214
44,45	XST05148	XTD20148	57,00	XST55570	XTD70570
45,00	XST55450	XTD70450	57,15	XST05216	XTD20216
45,24	XST05150	XTD20150	57,94	XST05218	XTD20218
46,00	XST55460	XTD70460	58,00	XST55580	XTD70580
46,04	XST05152	XTD20152	58,74	XST05220	XTD20220
46,83	XST05154	XTD20154	59,00	XST55590	XTD70590
47,00	XST55470	XTD70470	59,53	XST05222	XTD20222
47,63	XST05156	XTD20156	60,00	XST55600	XTD70600
48,00	XST55480	XTD70480	60,33	XST05224	XTD20224
48,42	XST05158	XTD20158	61,00	XST55610	XTD70610
49,00	XST55490	XTD70490	61,12	XST05226	XTD20226
49,21	XST05160	XTD20160	61,91	XST05228	XTD20228
50,00	XST55500	XTD70500	62,00	XST55620	XTD70620
50,01	XST05162	XTD20162	62,71	XST05230	XTD20230
50,80	XST05200	XTD20200	63,00	XST55630	XTD70630
51,00	XST55510	XTD70510	63,50	XST05232	XTD20232
51,59	XST05202	XTD20202	64,00	XST55640	XTD70640
52,00	XST05203	XTD20203	64,29	XST05234	XTD20234
52,39	XST05204	XTD20204	65,00	XST55650	XTD70650
53,00	XST55530	XTD70530	65,09	XST05236	XTD20236
53,18	XST05206	XTD20206	63,50	XST052D2	XTD202D2
53,98	XST05208	XTD20208	64,00	XST5564A	XTD7064A
54,00	XST55540	XTD70540	64,29	XST052D4	XTD202D4
54,79	XST05210	XTD20210	65,09	XST052D6	XTD202D6
55,00	XST55550	XTD70550	65,88	XST05238	XTD20238
55,56	XST05212	XTD20212	66,00	XST55660	XTD70660

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
66,68	XST05240	XTD20240	82,00	XST55820	XTD70820
67,47	XST05242	XTD20242	82,55	XST05316	XTD20316
68,00	XST55680	XTD70680	83,34	XST05318	XTD20318
68,26	XST05244	XTD20244	84,00	XST55840	XTD70840
69,05	XST05246	XTD20246	84,14	XST05320	XTD20320
69,85	XST05248	XTD20248	84,93	XST05322	XTD20322
70,00	XST55700	XTD70700	85,73	XST05324	XTD20324
70,64	XST05250	XTD20250	86,00	XST55860	XTD70860
71,44	XST05252	XTD20252	86,52	XST05326	XTD20326
72,00	XST55720	XTD70720	87,31	XST05328	XTD20328
72,23	XST05254	XTD20254	88,00	XST55880	XTD70880
73,03	XST05256	XTD20256	85,73	XST05324	XTD20324
73,82	XST05258	XTD20258	85,73	XST05324	XTD20324
74,00	XST55740	XTD70740	86,00	XST55860	XTD70860
74,61	XST05260	XTD20260	86,52	XST05326	XTD20326
75,41	XST05262	XTD20262	87,31	XST05328	XTD20328
76,00	XST55760	XTD70760	88,00	XST55880	XTD70880
76,20	XST05300	XTD20300	88,11	XST05330	XTD20330
76,99	XST05302	XTD20302	88,90	XST05332	XTD20332
77,79	XST05304	XTD20304	90,00	XST55900	XTD70900
78,00	XST55780	XTD70780	90,49	XST05336	XTD20336
78,58	XST05306	XTD20306	91,28	XST05338	XTD20338
79,38	XST05308	XTD20308	92,00	XST55920	XTD70920
80,00	XST55800	XTD70800	92,08	XST05340	XTD20340
80,17	XST05310	XTD20310	92,87	XST05342	XTD20342
80,96	XST05312	XTD20312	93,66	XST05344	XTD20344
81,76	XST05314	XTD20314	94,00	XST55940	XTD70940
82,00	XST55820	XTD70820	94,46	XST05346	XTD20346
82,55	XST05316	XTD20316	95,25	XST05348	XTD20348
83,34	XST05318	XTD20318	96,00	XST55960	XTD70960

					codice tialn
96,04	XST05350	XTD20350	100,81	XST05362	XTD20362
96,84	XST05352	XTD20352	109,54	XST05420	XTD20420
97,63	XST05354	XTD20354	110,00	XST55B00	XTD70B00
98,00	XST55980	XTD70980	111,13	XST05424	XTD20424
98,43	XST05356	XTD20356	112,00	XST55B20	XTD70B20
99,22	XST05358	XTD20358	112,71	XST05428	XTD20428
100,00	XST55A00	XTD70A00	114,00	XST55B40	XTD70B40
100,01	XST05360	XTD20360	114,30	XST05432	XTD20432



Inserto in widiam qualità P 40 indicato per materiali ferrosi , acciaio .

P 40

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
9,50	WSP55095	WTP70095	15,00	WSP55150	WTP70150
9,53	WSP05024	WTP20024	15,08	WSP05038	WTP20038
9,80	WSP55098	WTP70098	15,88	WSP05039	WTP20039
9,92	WSP05025	WTP20025	15,88	WSP05039	WTP20039
10,00	WSP55100	WTP70100	16,00	WSP55155	WTP70155
10,20	WSP55102	WTP70102	16,50	WSP05040	WTP20040
10,32	WSP05026	WTP20026	16,67	WSP55160	WTP70160
10,50	WSP55105	WTP70105	17,00	WSP05041	WTP20041
10,72	WSP05027	WTP20027	17,46	WSP55165	WTP70165
10,80	WSP55108	WTP70108	17,50	WSP05042	WTP20042
11,00	WSP55110	WTP70110	16,00	WSP55170	WTP70170
11,11	WSP05028	WTP20028	16,50	WSP05043	WTP20043
11,50	WSP55115	WTP70115	16,67	WSP05044	WTP20044
11,51	WSP05029	WTP20029	17,00	WSP55175	WTP70175
11,91	WSP05030	WTP20030	17,86	WSP05045	WTP20045
12,00	WSP55120	WTP70120	18,00	WSP55180	WTP70180
12,30	WSP05031	WTP20031	18,26	WSP05046	WTP20046
12,50	WSP55125	WTP70125	18,50	WSP55185	WTP70185
12,70	WSP05032	WTP20032	18,65	WSP05047	WTP20047
13,00	WSP55130	WTP70130	19,00	WSP55190	WTP70190
13,10	WSP05033	WTP20033	19,05	WSP05048	WTP20048
13,49	WSP05034	WTP20034	19,45	WSP05049	WTP20049
13,50	WSP55135	WTP70135	19,50	WSP55195	WTP70195
13,89	WSP05035	WTP20035	19,84	WSP05050	WTP20050
14,00	WSP55140	WTP70140	20,00	WSP55200	WTP70200
14,29	WSP05036	WTP20036	20,24	WSP05051	WTP20051
14,50	WSP55145	WTP70145	20,50	WSP55205	WTP70205
14,68	WSP05037	WTP20037	20,64	WSP05052	WTP20052

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
21,00	WSP55210	WTP70210	33,00	WSP55330	WTP70330
21,43	WSP05054	WTP20054	33,34	WSP05120	WTP20120
21,83	WSP05055	WTP20055	34,00	WSP55340	WTP70340
22,00	WSP55220	WTP70220	34,13	WSP05122	WTP20122
22,23	WSP05056	WTP20056	34,93	WSP05124	WTP20124
22,62	WSP05057	WTP20057	35,00	WSP55350	WTP70350
23,00	WSP55230	WTP70230	35,72	WSP05126	WTP20126
23,02	WSP05058	WTP20058	36,00	WSP55360	WTP70360
23,42	WSP05059	WTP20059	36,51	WSP05128	WTP20128
23,81	WSP05060	WTP20060	37,00	WSP55370	WTP70370
24,00	WSP55240	WTP70240	37,31	WSP05130	WTP20130
24,61	WSP05062	WTP20062	38,00	WSP55380	WTP70380
25,00	WSP05063	WTP20063	38,10	WSP05132	WTP20132
25,40	WSP05100	WTP20100	38,89	WSP05134	WTP20134
25,80	WSP05101	WTP20101	39,00	WSP55390	WTP70390
26,00	WSP55260	WTP70260	39,69	WSP05136	WTP20136
26,19	WSP05102	WTP20102	40,00	WSP55400	WTP70400
26,59	WSP05103	WTP20103	40,48	WSP05138	WTP20138
26,99	WSP05104	WTP20104	41,00	WSP55410	WTP70410
27,00	WSP55270	WTP70270	41,28	WSP05140	WTP20140
27,78	WSP05106	WTP20106	42,00	WSP55420	WTP70420
28,00	WSP55280	WTP70280	42,07	WSP05142	WTP20142
28,18	WSP05107	WTP20107	42,86	WSP05144	WTP20144
28,58	WSP05108	WTP20108	43,00	WSP55430	WTP70430
29,00	WSP55290	WTP70290	43,66	WSP05146	WTP20146
29,37	WSP05110	WTP20110	44,00	WSP55440	WTP70440
30,00	WSP55300	WTP70300	44,45	WSP05148	WTP20148
30,16	WSP05112	WTP20112	45,00	WSP55450	WTP70450
30,96	WSP05114	WTP20114	45,24	WSP05150	WTP20150
31,00	WSP55310	WTP70310	46,00	WSP55460	WTP70460
31,75	WSP05116	WTP20116	46,04	WSP05152	WTP20152
32,00	WSP55320	WTP70320	46,83	WSP05154	WTP20154
32,54	WSP05118	WTP20118	47,00	WSP55470	WTP70470
33,00	WSP55330	WTP70330	47,63	WSP05150	WTP20150



Inserto in widiam qualità K 20 indicato per materiali resistenti al calore, inox , alluminio e ghisa.

K 20

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
9,50	WSK55095	WTK70095	15,50	WSK55155	WTK70155
9,53	WSK05024	WTK20024	15,88	WSK05040	WTK20040
9,80	WSK55098	WTK70098	16,00	WSK55160	WTK70160
9,92	WSK05025	WTK20025	16,27	WSK05041	WTK20041
10,00	WSK55100	WTK70100	16,50	WSK55165	WTK70165
10,20	WSK55102	WTK70102	16,67	WSK05042	WTK20042
10,32	WSK05026	WTK20026	17,00	WSK55170	WTK70170
10,50	WSK55105	WTK70105	17,07	WSK05043	WTK20043
10,72	WSK05027	WTK20027	17,46	WSK05044	WTK20044
10,80	WSK55108	WTK70108	17,50	WSK55175	WTK70175
11,00	WSK55110	WTK70110	17,86	WSK05045	WTK20045
11,11	WSK05028	WTK20028	18,00	WSK55180	WTK70180
11,50	WSK55115	WTK70115	18,26	WSK05046	WTK20046
11,51	WSK05029	WTK20029	18,50	WSK55185	WTK70185
11,91	WSK05030	WTK20030	18,65	WSK05047	WTK20047
12,00	WSK55120	WTK70120	19,00	WSK55190	WTK70190
12,30	WSK05031	WTK20031	19,05	WSK05048	WTK20048
12,50	WSK55125	WTK70125	19,45	WSK05049	WTK20049
12,70	WSK05032	WTK20032	19,50	WSK55195	WTK70195
13,00	WSK55130	WTK70130	19,84	WSK05050	WTK20050
13,10	WSK05033	WTK20033	20,00	WSK55200	WTK70200
13,49	WSK05034	WTK20034	20,24	WSK05051	WTK20051
13,50	WSK55135	WTK70135	20,50	WSK55205	WTK70205
13,89	WSK05035	WTK20035	20,64	WSK05052	WTK20052
14,00	WSK55140	WTK70140	21,00	WSK55210	WTK70210
14,29	WSK05036	WTK20036	21,43	WSK05054	WTK20054
14,50	WSK55145	WTK70145	21,83	WSK05055	WTK20055
14,68	WSK05037	WTK20037	22,00	WSK55220	WTK70220
15,00	WSK55150	WTK70150	22,23	WSK05056	WTK20056
15,08	WSK05038	WTK20038	22,62	WSK05057	WTK20057
15,48	WSK05039	WTK20039	23,00	WSK55230	WTK70230

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
23,02	WSK05058	WTK20058	34,93	WSK05124	WTK20124
23,42	WSK05059	WTK20059	35,00	WSK55350	WTK70350
23,81	WSK05060	WTK20060	35,72	WSK05126	WTK20126
24,00	WSK55240	WTK70240	36,00	WSK55360	WTK70360
24,61	WSK05062	WTK20062	36,51	WSK05128	WTK20128
25,00	WSK05063	WTK20063	37,00	WSK55370	WTK70370
25,40	WSK05100	WTK20100	37,31	WSK05130	WTK20130
25,80	WSK05101	WTK20101	38,00	WSK55380	WTK70380
26,00	WSK55260	WTK70260	38,10	WSK05132	WTK20132
26,19	WSK05102	WTK20102	38,89	WSK05134	WTK20134
26,59	WSK05103	WTK20103	39,00	WSK55390	WTK70390
26,99	WSK05104	WTK20104	39,69	WSK05136	WTK20136
27,00	WSK55270	WTK70270	40,00	WSK55400	WTK70400
27,78	WSK05106	WTK20106	40,48	WSK05138	WTK20138
28,00	WSK55280	WTK70280	41,00	WSK55410	WTK70410
28,18	WSK05107	WTK20107	41,28	WSK05140	WTK20140
28,58	WSK05108	WTK20108	42,00	WSK55420	WTK70420
29,00	WSK55290	WTK70290	42,07	WSK05142	WTK20142
29,37	WSK05110	WTK20110	42,86	WSK05144	WTK20144
30,00	WSK55300	WTK70300	43,00	WSK55430	WTK70430
30,16	WSK05112	WTK20112	43,66	WSK05146	WTK20146
30,96	WSK05114	WTK20114	44,00	WSK55440	WTK70440
31,00	WSK55310	WTK70310	44,45	WSK05148	WTK20148
31,75	WSK05116	WTK20116	45,00	WSK55450	WTK70450
32,00	WSK55320	WTK70320	45,24	WSK05150	WTK20150
32,54	WSK05118	WTK20118	46,00	WSK55460	WTK70460
33,00	WSK55330	WTK70330	46,04	WSK05152	WTK20152
33,34	WSK05120	WTK20120	46,83	WSK05154	WTK20154
34,00	WSK55340	WTK70340	47,00	WSK55470	WTK70470
34,13	WSK05122	WTK20122	47,63	WSK05156	WTK20156



Inserto in widiamqualità K10 indicato per ghisa.

K 10

diam.	codice tin	codice tialn	diam	codice tin	codice tialn
9,50	WSA55095	WTA70095	15,50	WSA55155	WTA70155
9,53	WSA05024	WTA20024	15,88	WSA05040	WTA20040
9,80	WSA55098	WTA70098	16,00	WSA55160	WTA70160
9,92	WSA05025	WTA20025	16,27	WSA05041	WTA20041
10,00	WSA55100	WTA70100	16,50	WSA55165	WTA70165
10,20	WSA55102	WTA70102	16,67	WSA05042	WTA20042
10,32	WSA05026	WTA20026	17,00	WSA55170	WTA70170
10,50	WSA55105	WTA70105	17,07	WSA05043	WTA20043
10,72	WSA05027	WTA20027	17,46	WSA05044	WTA20044
10,80	WSA55108	WTA70108	17,50	WSA55175	WTA70175
11,00	WSA55110	WTA70110	17,86	WSA05045	WTA20045
11,11	WSA05028	WTA20028	18,00	WSA55180	WTA70180
11,50	WSA55115	WTA70115	18,26	WSA05046	WTA20046
11,51	WSA05029	WTA20029	18,50	WSA55185	WTA70185
11,91	WSA05030	WTA20030	18,65	WSA05047	WTA20047
12,00	WSA55120	WTA70120	19,00	WSA55190	WTA70190
12,30	WSA05031	WTA20031	19,05	WSA05048	WTA20048
12,50	WSA55125	WTA70125	19,45	WSA05049	WTA20049
12,70	WSA05032	WTA20032	19,50	WSA55195	WTA70195
13,00	WSA55130	WTA70130	19,84	WSA05050	WTA20050
13,10	WSA05033	WTA20033	20,00	WSA55200	WTA70200
13,49	WSA05034	WTA20034	20,24	WSA05051	WTA20051
13,50	WSA55135	WTA70135	20,50	WSA55205	WTA70205
13,89	WSA05035	WTA20035	20,64	WSA05052	WTA20052
14,00	WSA55140	WTA70140	21,00	WSA55210	WTA70210
14,29	WSA05036	WTA20036	21,43	WSA05054	WTA20054
14,50	WSA55145	WTA70145	21,83	WSA05055	WTA20055
14,68	WSA05037	WTA20037	22,00	WSA55220	WTA70220
15,00	WSA55150	WTA70150	22,23	WSA05056	WTA20056
15,08	WSA05038	WTA20038	22,62	WSA05057	WTA20057
15,48	WSA05039	WTA20039	23,00	WSA55230	WTA70230

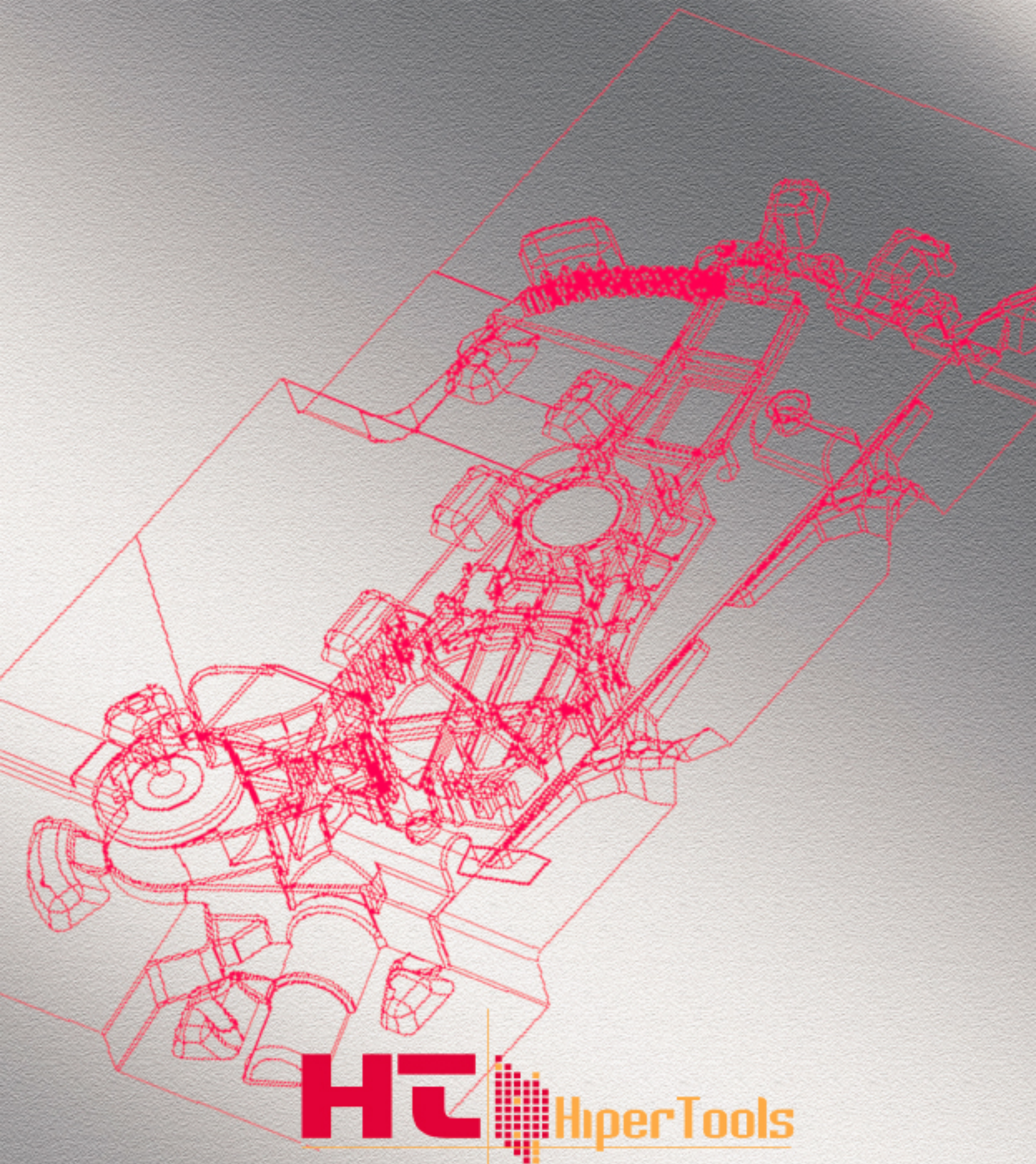
diam.	codice tin	codice tialn	diam	codice tin	codice tialn
23,02	WSA05058	WTA20058	34,93	WSA05124	WTA20124
23,42	WSA05059	WTA20059	35,00	WSA55350	WTA70350
23,81	WSA05060	WTA20060	35,72	WSA05126	WTA20126
24,00	WSA55240	WTA70240	36,00	WSA55360	WTA70360
24,61	WSA05062	WTA20062	36,51	WSA05128	WTA20128
25,00	WSA05063	WTA20063	37,00	WSA55370	WTA70370
25,40	WSA05100	WTA20100	37,31	WSA05130	WTA20130
25,80	WSA05101	WTA20101	38,00	WSA55380	WTA70380
26,00	WSA55260	WTA70260	38,10	WSA05132	WTA20132
26,19	WSA05102	WTA20102	38,89	WSA05134	WTA20134
26,59	WSA05103	WTA20103	39,00	WSA55390	WTA70390
26,99	WSA05104	WTA20104	39,69	WSA05136	WTA20136
27,00	WSA55270	WTA70270	40,00	WSA55400	WTA70400
27,78	WSA05106	WTA20106	40,48	WSA05138	WTA20138
28,00	WSA55280	WTA70280	41,00	WSA55410	WTA70410
28,18	WSA05107	WTA20107	41,28	WSA05140	WTA20140
28,58	WSA05108	WTA20108	42,00	WSA55420	WTA70420
29,00	WSA55290	WTA70290	42,07	WSA05142	WTA20142
29,37	WSA05110	WTA20110	42,86	WSA05144	WTA20144
30,00	WSA55300	WTA70300	43,00	WSA55430	WTA70430
30,16	WSA05112	WTA20112	43,66	WSA05146	WTA20146
30,96	WSA05114	WTA20114	44,00	WSA55440	WTA70440
31,00	WSA55310	WTA70310	44,45	WSA05148	WTA20148
31,75	WSA05116	WTA20116	45,00	WSA55450	WTA70450
32,00	WSA55320	WTA70320	45,24	WSA05150	WTA20150
32,54	WSA05118	WTA20118	46,00	WSA55460	WTA70460
33,00	WSA55330	WTA70330	46,04	WSA05152	WTA20152
33,34	WSA05120	WTA20120	46,83	WSA05154	WTA20154
34,00	WSA55340	WTA70340	47,00	WSA55470	WTA70470
34,13	WSA05122	WTA20122	47,63	WSA05156	WTA20156

PARAMETRI DI LAVORAZIONE

Material	Material Hardness (Bhn)	HSS INSERT		Feed mm/Rev						
		Tin	-TiAlN	D. 9,5 12,5	D. 13 17,5	D. 18 24	D. 25 35	D. 36 47	D. 48 65	D. 66 114
Free machining Steel	100 - 150	63	84	0.16	0.23	0.31	0.40	0.48	0.55	0.67
1213, 12L13, 1215	150 - 200	58	81	0.16	0.23	0.31	0.40	0.48	0.55	0.67
12L14, 1118 etc	200 - 250	51	72	0.14	0.23	0.31	0.38	0.48	0.57	0.69
Low Carbon Steel	85 - 125	54	75	0.15	0.22	0.28	0.37	0.46	0.56	0.67
1015, 1020, 1140	125 - 175	51	72	0.15	0.22	0.28	0.37	0.46	0.56	0.67
1025 etc	175 - 225	49	69	0.13	0.19	0.24	0.34	0.43	0.50	0.57
	225 - 275	45	66	0.13	0.19	0.24	0.34	0.43	0.50	0.57
Medium Carbon Steel	125 - 175	52	75	0.14	0.22	0.28	0.35	0.45	0.55	0.65
1035, 1050, 1045	175 - 225	48	69	0.13	0.19	0.23	0.34	0.43	0.50	0.58
1055, 1140 etc	225 - 275	45	63	0.13	0.19	0.23	0.34	0.43	0.50	0.58
	275 - 325	42	58	0.10	0.17	0.21	0.28	0.38	0.45	0.55
Structural Steel	100 - 150	44	63	0.14	0.23	0.29	0.35	0.44	0.50	0.63
A36, A516, A182 etc	150 - 250	39	55	0.13	0.22	0.24	0.28	0.38	0.46	0.59
	250 - 350	32	41	0.10	0.20	0.22	0.24	0.34	0.40	0.48
Cast Iron / S,G Iron	120 - 150	52	75	0.16	0.30	0.40	0.49	0.59	0.69	0.75
A48-76 GR30/GR45	150 - 200	48	70	0.14	0.26	0.35	0.45	0.56	0.64	0.68
A536-72 60-40-18	200 - 220	42	58	0.14	0.23	0.30	0.41	0.46	0.52	0.60
A220-76 GR40010 etc	220 - 260	35	52	0.13	0.17	0.23	0.30	0.35	0.43	0.50
	260 - 320	29	41	0.10	0.15	0.16	0.23	0.28	0.35	0.40
Alloy Steel	125 - 175	48	63	0.15	0.20	0.24	0.36	0.43	0.47	0.53
8620, 4130, 4137	175 - 225	45	58	0.13	0.20	0.24	0.36	0.42	0.46	0.55
4140, 6150 etc	225 - 275	41	56	0.13	0.16	0.23	0.35	0.41	0.44	0.55
	275 - 325	39	53	0.09	0.15	0.22	0.28	0.38	0.41	0.50
	325 - 375	36	46	0.08	0.15	0.21	0.27	0.38	0.40	0.51
Tool Steel	150 - 200	25	34	0.09	0.15	0.19	0.25	0.28	0.36	0.41
H13, H21, A2, S1 etc	200 - 250	19	26	0.09	0.15	0.19	0.25	0.28	0.36	0.41
High Temp. Alloy	140 - 220	11	12	0.08	0.17	0.20	0.24	0.30	0.37	-
Hastelloy B, Inconel etc	220 - 310	10	11	0.08	0.14	0.18	0.19	0.25	0.29	-
High Strength Alloy	225 - 300	25	35	0.13	0.18	0.23	0.24	0.36	0.43	0.50
9840, 4340, 4330V etc	300 - 350	19	27	0.10	0.18	0.23	0.24	0.36	0.43	0.50
	350 - 400	16	21	0.08	0.15	0.20	0.22	0.30	0.48	0.46
Aluminium	30	187	244	0.19	0.33	0.41	0.50	0.54	0.64	0.62
2014, 6061, 7075 etc	180	92	137	0.19	0.33	0.41	0.46	0.54	0.64	0.62
Stainless Steel	135 - 185	24	34	0.14	0.20	0.23	0.26	0.36	0.41	0.50
310, 316, 410, 330 etc	185 - 275	20	29	0.12	0.18	0.20	0.24	0.30	0.36	0.46

PARAMETRI DI LAVORAZIONE

Material	SPEED (MIN)			Feed mm/Rev				
	Material Hardness (Bhn)	Carbide	Tin - Tialn	D. 9,5 12,5	D. 13 17,5	D. 18 24	D. 25 35	D. 36 47
Free machining Steel	100 - 150	P40	101 125	0.13	0.21	0.29	0.36	0.47
1213, 12L13, 1215	150 - 200	P40	88 110	0.13	0.19	0.27	0.31	0.42
12L14, 1118 etc	200 - 250	P40	82 101	0.12	0.18	0.24	0.29	0.38
Low Carbon Steel	85 - 125	P40	94 119	0.15	0.19	0.25	0.35	0.45
1015, 1020, 1140	125 - 175	P40	82 107	0.13	0.19	0.24	0.34	0.44
1025 etc	175 - 225	P40	76 96	0.10	0.17	0.20	0.30	0.41
	225 - 275	P40	62 84	0.10	0.17	0.19	0.29	0.37
Medium Carbon Steel	125 - 175	P40	82 102	0.12	0.19	0.24	0.34	0.42
1035, 1050, 1045	175 - 225	P40	75 93	0.11	0.17	0.20	0.30	0.40
1055, 1140 etc	225 - 275	P40	66 84	0.10	0.17	0.19	0.29	0.38
	275 - 325	P40	56 67	0.10	0.14	0.16	0.25	0.35
Structural Steel	100 - 150	P40	75 91	0.14	0.23	0.27	0.29	0.40
A36, A516, A182 etc	150 - 250	P40	62 75	0.13	0.19	0.24	0.26	0.38
	250 - 350	P40	55 73	0.10	0.17	0.20	0.22	0.32
Cast Iron / S,G Iron	120 - 150	K20-10	98 137	0.13	0.22	0.27	0.37	0.48
A48-76 GR30/GR45	150 - 200	K20-10	95 125	0.12	0.20	0.25	0.35	0.46
A536-72 60-40-18	200 - 220	K20-10	75 111	0.12	0.18	0.20	0.31	0.35
A220-76 GR40010 etc	220 - 260	K20-10	66 93	0.10	0.15	0.17	0.24	0.33
	260 - 320	K20-10	56 79	0.10	0.14	0.14	0.20	0.27
Alloy Steel	125 - 175	P40	79 98	0.13	0.20	0.24	0.31	0.39
8620, 4130, 4137	175 - 225	P40	73 88	0.13	0.19	0.22	0.30	0.37
4140, 6150 etc	225 - 275	P40	66 81	0.10	0.18	0.21	0.29	0.36
	275 - 325	P40	62 78	0.09	0.15	0.20	0.28	0.35
	325 - 375	P40	53 64	0.08	0.13	0.19	0.24	0.33
Tool Steel	150 - 200	P40	50 67	0.07	0.12	0.17	0.22	0.27
H13, H21, A2, S1 etc	200 - 250	P40	37 50	0.07	0.12	0.16	0.21	0.26
High Temp. Alloy	140 - 220	K20	26 30	0.08	0.32	0.17	0.22	0.26
Hastelloy B, Inconel etc	220 - 310	K20	20 24	0.08	0.28	0.15	0.19	0.23
High Strength Alloy	225 - 300	P40	49 62	0.13	0.18	0.19	0.23	0.34
9840, 4340, 4330V etc	300 - 350	P40	43 55	0.10	0.15	0.18	0.22	0.30
	350 - 400	P40	38 47	0.08	0.13	0.15	0.19	0.24
Aluminium	30	K20	366 427	0.19	0.32	0.40	0.47	0.52
2014, 6061, 7075 etc	180	K20	244 291	0.17	0.27	0.34	0.45	0.49
Stainless Steel	135 - 185	K20	50 62	0.14	0.20	0.22	0.26	0.32
310, 316, 410, 330 etc	185 - 275	K20	38 46	0.12	0.1	0.19	0.24	0.28



HT  **HiperTools**