



2R Utensili

Punte in Metallo Duro



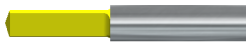
Solid Carbide Twist Drills





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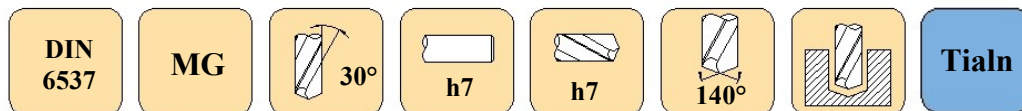
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Micro Punta 3 x D in Metallo Duro Micro Solid Carbide Twist Drills 3D

M3D

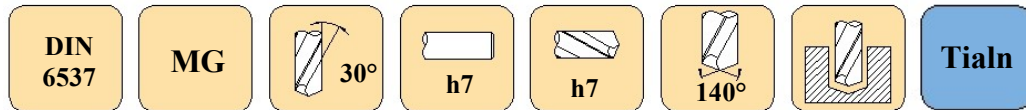


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
M3D050	0.5	3	6	38
M3D060	0.6	3	6	38
M3D070	0.7	3	6	38
M3D080	0.8	3	6	38
M3D090	0.9	3	6	38
M3D100	1.0	3	6	38
M3D110	1.1	3	12	38
M3D120	1.2	3	12	38
M3D130	1.3	3	12	38
M3D140	1.4	3	12	38
M3D150	1.5	3	12	50
M3D160	1.6	3	12	50
M3D170	1.7	3	12	50
M3D180	1.8	3	12	50
M3D190	1.9	3	12	50
M3D200	2.0	3	12	50
M3D210	2.1	3	18	60
M3D220	2.2	3	18	60
M3D230	2.3	3	18	60
M3D240	2.4	3	18	60
M3D250	2.5	3	18	60
M3D260	2.6	3	18	60
M3D270	2.7	3	18	60
M3D280	2.8	3	18	60
M3D290	2.9	3	18	60



Micro Punta 5 x D in Metallo Duro Micro Solid Carbide Twist Drills 5D

M5D

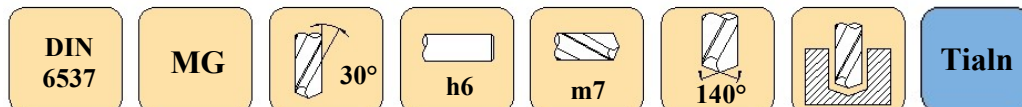


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M5D050	0.5	3	10	50
M5D060	0.6	3	10	50
M5D070	0.7	3	10	50
M5D080	0.8	3	10	50
M5D090	0.9	3	10	50
M5D100	1.0	3	10	50
M5D110	1.1	3	20	50
M5D120	1.2	3	20	60
M5D130	1.3	3	20	60
M5D140	1.4	3	20	60
M5D150	1.5	3	20	60
M5D160	1.6	3	20	60
M5D170	1.7	3	20	60
M5D180	1.8	3	20	60
M5D190	1.9	3	20	60
M5D200	2.0	3	20	60
M5D210	2.1	3	28	66
M5D220	2.2	3	28	66
M5D230	2.3	3	28	66
M5D240	2.4	3	28	66
M5D250	2.5	3	28	66
M5D260	2.6	3	28	66
M5D270	2.7	3	28	66
M5D280	2.8	3	28	66
M5D290	2.9	3	28	66



Punte 3 x D in Metallo Duro Solid Carbide Twist Drills 3D

3D

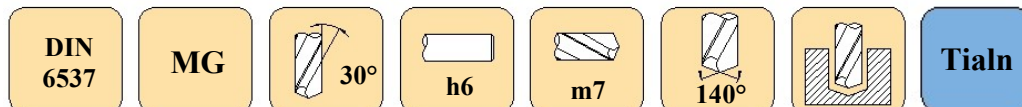


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3D0300	3,00	6	20	62
3D0310	3,10	6	20	62
3D0320	3,20	6	20	62
3D0330	3,30	6	20	62
3D0340	3,40	6	20	62
3D0350	3,50	6	20	62
3D0360	3,60	6	20	62
3D0370	3,70	6	20	62
3D0380	3,80	6	24	66
3D0390	3,90	6	24	66
3D0400	4,00	6	24	66
3D0410	4,10	6	24	66
3D0420	4,20	6	24	66
3D0430	4,30	6	24	66
3D0440	4,40	6	24	66
3D0450	4,50	6	24	66
3D0460	4,60	6	24	66
3D0470	4,70	6	24	66
3D0480	4,80	6	28	66
3D0490	4,90	6	28	66
3D0500	5,00	6	28	66
3D0510	5,10	6	28	66
3D0520	5,20	6	28	66
3D0530	5,30	6	28	66
3D0540	5,40	6	28	66
3D0550	5,50	6	28	66
3D0560	5,60	6	28	66
3D0570	5,70	6	28	66
3D0580	5,80	6	28	66
3D0590	5,90	6	28	66



Punte 3 x D in Metallo Duro Solid Carbide Twist Drills 3D

3D

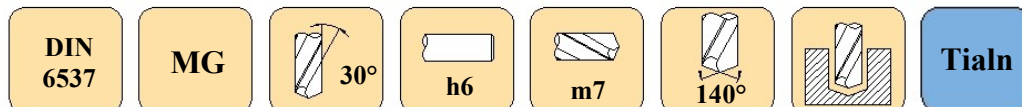


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3D0600	6,00	6	28	66
3D0610	6,10	8	34	79
3D0620	6,20	8	34	79
3D0630	6,30	8	34	79
3D0640	6,40	8	34	79
3D0650	6,50	8	34	79
3D0660	6,60	8	34	79
3D0670	6,70	8	34	79
3D0680	6,80	8	34	79
3D0690	6,90	8	34	79
3D0700	7,00	8	34	79
3D0710	7,10	8	41	79
3D0720	7,20	8	41	79
3D0730	7,30	8	41	79
3D0740	7,40	8	41	79
3D0750	7,50	8	41	79
3D0760	7,60	8	41	79
3D0770	7,70	8	41	79
3D0780	7,80	8	41	79
3D0790	7,90	8	41	79
3D0800	8,00	8	41	79
3D0810	8,10	10	47	89
3D0820	8,20	10	47	89
3D0830	8,30	10	47	89
3D0840	8,40	10	47	89
3D0850	8,50	10	47	89
3D0860	8,60	10	47	89
3D0870	8,70	10	47	89
3D0880	8,80	10	47	89
3D0890	8,90	10	47	89



Punte 3 x D in Metallo Duro Solid Carbide Twist Drills 3D

3D

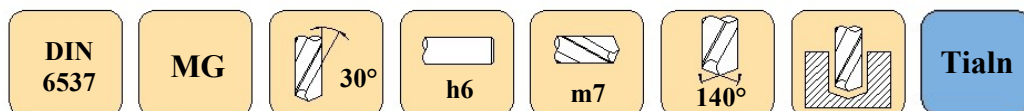


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3D0910	9,10	10	47	89
3D0920	9,20	10	47	89
3D0930	9,30	10	47	89
3D0940	9,40	10	47	89
3D0950	9,50	10	47	89
3D0960	9,60	10	47	89
3D0970	9,70	10	47	89
3D0980	9,80	10	47	89
3D0990	9,90	10	47	89
3D1000	10,00	10	47	89
3D1010	10,10	12	55	102
3D1020	10,20	12	55	102
3D1030	10,30	12	55	102
3D1040	10,40	12	55	102
3D1050	10,50	12	55	102
3D1060	10,60	12	55	102
3D1070	10,70	12	55	102
3D1080	10,80	12	55	102
3D1090	10,90	12	55	102
3D1100	11,00	12	55	102
3D1110	11,10	12	55	102
3D1120	11,20	12	55	102
3D1130	11,30	12	55	102
3D1140	11,40	12	55	102
3D1150	11,50	12	55	102
3D1160	11,60	12	55	102
3D1170	11,70	12	55	102
3D1180	11,80	12	55	102
3D1190	11,90	12	55	102



Punte 3 x D in Metallo Duro Solid Carbide Twist Drills 3D

3D

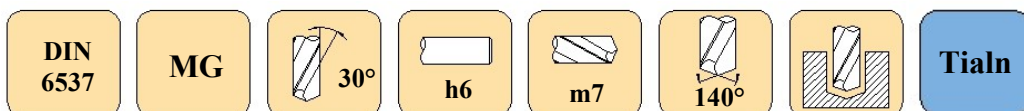
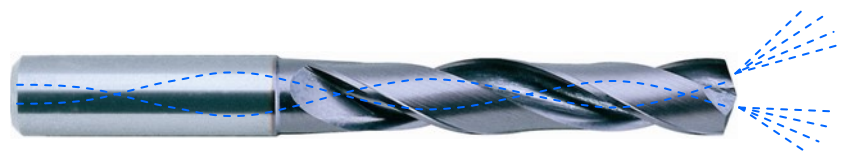


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3D1200	12,00	12	55	102
3D1230	12,30	14	60	107
3D1250	12,50	14	60	107
3D1280	12,80	14	60	109
3D1300	13,00	14	60	107
3D1350	13,50	14	60	107
3D1380	13,80	14	60	107
3D1400	14,00	14	60	107
3D1420	14,20	16	65	115
3D1450	14,50	16	65	115
3D1480	14,80	16	65	115
3D1500	15,00	16	65	115
3D1550	15,50	16	65	115
3D1580	15,80	16	65	115
3D1600	16,00	16	65	115
3D1650	16,50	18	73	123
3D1680	16,80	18	73	123
3D1700	17,00	18	73	123
3D1750	17,50	18	73	123
3D1780	17,80	18	73	123
3D1800	18,00	18	73	123
3D1850	18,50	20	79	131
3D1900	19,00	20	79	131
3D1950	19,50	20	79	131
3D1980	19,80	20	79	131
3D2000	20,00	20	79	131



Punte 3 x D in Metallo Duro forate Solid Carbide Twist Drills 3D with coolant holes

3DF

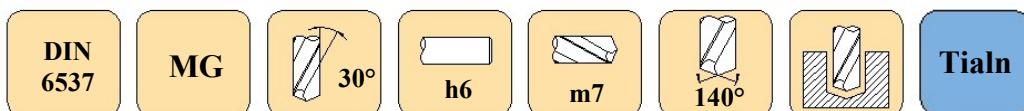
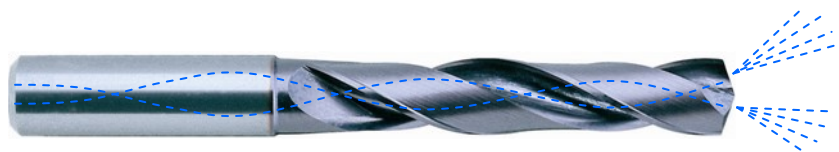


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3DF0300	3,00	6	20	62
3DF0310	3,10	6	20	62
3DF0320	3,20	6	20	62
3DF0330	3,30	6	20	62
3DF0340	3,40	6	20	62
3DF0350	3,50	6	20	62
3DF0360	3,60	6	20	62
3DF0370	3,70	6	20	62
3DF0380	3,80	6	24	66
3DF0390	3,90	6	24	66
3DF0400	4,00	6	24	66
3DF0410	4,10	6	24	66
3DF0420	4,20	6	24	66
3DF0430	4,30	6	24	66
3DF0440	4,40	6	24	66
3DF0450	4,50	6	24	66
3DF0460	4,60	6	24	66
3DF0470	4,70	6	24	66
3DF0480	4,80	6	28	66
3DF0490	4,90	6	28	66
3DF0500	5,00	6	28	66
3DF0510	5,10	6	28	66
3DF0520	5,20	6	28	66
3DF0530	5,30	6	28	66
3DF0540	5,40	6	28	66
3DF0550	5,50	6	28	66
3DF0560	5,60	6	28	66
3DF0570	5,70	6	28	66



Punte 3 x D in Metallo Duro forate Solid Carbide Twist Drills 3D with coolant holes

3DF

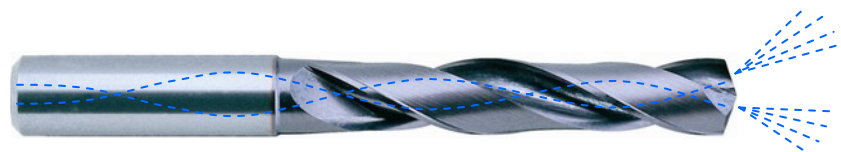


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3DF0580	5,80	6	28	66
3DF0590	5,90	6	28	66
3DF0600	6,00	6	28	66
3DF0610	6,10	8	34	79
3DF0620	6,20	8	34	79
3DF0630	6,30	8	34	79
3DF0640	6,40	8	34	79
3DF0650	6,50	8	34	79
3DF0660	6,60	8	34	79
3DF0670	6,70	8	34	79
3DF0680	6,80	8	34	79
3DF0690	6,90	8	34	79
3DF0700	7,00	8	34	79
3DF0710	7,10	8	41	79
3DF0720	7,20	8	41	79
3DF0730	7,30	8	41	79
3DF0740	7,40	8	41	79
3DF0750	7,50	8	41	79
3DF0760	7,60	8	41	79
3DF0770	7,70	8	41	79
3DF0780	7,80	8	41	79
3DF0790	7,90	8	41	79
3DF0800	8,00	8	41	79
3DF0810	8,10	10	47	89
3DF0820	8,20	10	47	89
3DF0830	8,30	10	47	89
3DF0840	8,40	10	47	89
3DF0850	8,50	10	47	89



Punte 3 x D in Metallo Duro forate Solid Carbide Twist Drills 3D with coolant holes

3DF

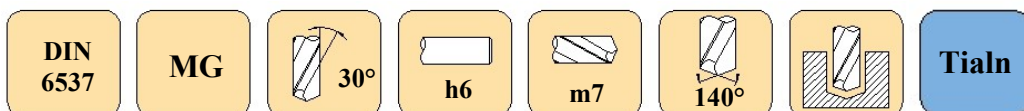
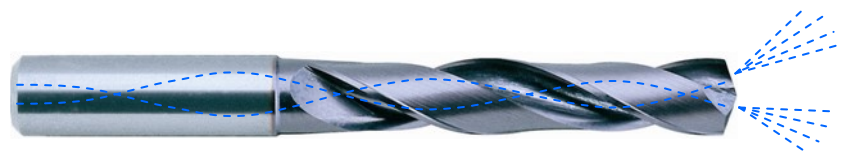


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3DF0860	8,60	10	47	89
3DF0870	8,70	10	47	89
3DF0880	8,80	10	47	89
3DF0890	8,90	10	47	89
3DF0900	9,00	10	47	89
3DF0910	9,10	10	47	89
3DF0920	9,20	10	47	89
3DF0930	9,30	10	47	89
3DF0940	9,40	10	47	89
3DF0950	9,50	10	47	89
3DF0960	9,60	10	47	89
3DF0970	9,70	10	47	89
3DF0980	9,80	10	47	89
3DF0990	9,90	10	47	89
3DF1000	10,00	10	47	89
3DF1010	10,10	12	55	102
3DF1020	10,20	12	55	102
3DF1030	10,30	12	55	102
3DF1040	10,40	12	55	102
3DF1050	10,50	12	55	102
3DF1060	10,60	12	55	102
3DF1070	10,70	12	55	102
3DF1080	10,80	12	55	102
3DF1090	10,90	12	55	102
3DF1100	11,00	12	55	102
3DF1110	11,10	12	55	102
3DF1120	11,20	12	55	102
3DF1130	11,30	12	55	102
3DF1140	11,40	12	55	102



Punte 3 x D in Metallo Duro forate Solid Carbide Twist Drills 3D with coolant holes

3DF

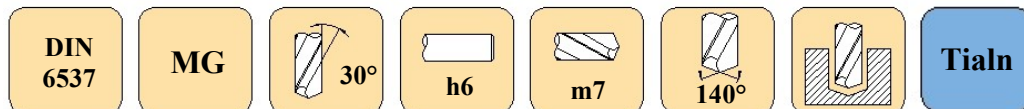


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
3DF1150	11,50	12	55	102
3DF1160	11,60	12	55	102
3DF1170	11,70	12	55	102
3DF1180	11,80	12	55	102
3DF1190	11,90	12	55	102
3DF1200	12,00	12	55	102
3DF1230	12,30	14	60	107
3DF1250	12,50	14	60	107
3DF1280	12,80	14	60	107
3DF1300	13,00	14	60	107
3DF1350	13,50	14	60	107
3DF1380	13,80	14	60	107
3DF1400	14,00	14	60	107
3DF1450	14,50	16	65	115
3DF1480	14,80	16	65	115
3DF1500	15,00	16	65	115
3DF1550	15,50	16	65	115
3DF1580	15,80	16	65	115
3DF1600	16,00	16	65	115
3DF1650	16,50	18	73	123
3DF1680	16,80	18	73	123
3DF1700	17,00	18	73	123
3DF1750	17,50	18	73	123
3DF1780	17,80	18	73	123
3DF1800	18,00	18	73	123
3DF1850	18,50	20	79	131
3DF1900	19,00	20	79	131
3DF1950	19,50	20	79	131
3DF1980	19,80	20	79	131
3DF2000	20,00	20	79	131



Punte 5 x D in Metallo Duro Solid Carbide Twist Drills 5D

5D

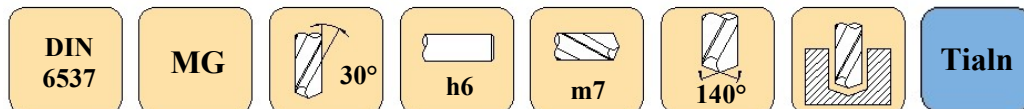


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5D0100	1,00	3	8	55
5D0110	1,10	3	12	55
5D0120	1,20	3	12	55
5D0130	1,30	3	12	55
5D0140	1,40	3	12	55
5D0150	1,50	3	12	55
5D0160	1,60	3	16	55
5D0170	1,70	3	16	55
5D0180	1,80	3	16	55
5D0190	1,90	3	16	55
5D0200	2,00	4	21	57
5D0210	2,10	4	21	57
5D0220	2,20	4	21	57
5D0230	2,30	4	21	57
5D0240	2,40	4	21	57
5D0250	2,50	4	21	57
5D0260	2,60	4	21	57
5D0270	2,70	4	21	57
5D0280	2,80	4	21	57
5D0290	2,90	4	21	57
5D0300	3,00	6	28	66
5D0310	3,10	6	28	66
5D0320	3,20	6	28	66
5D0330	3,30	6	28	66
5D0340	3,40	6	28	66
5D0350	3,50	6	28	66
5D0360	3,60	6	28	66
5D0370	3,70	6	28	66
5D0380	3,80	6	36	74
5D0390	3,90	6	36	74



Punte 5 x D in Metallo Duro Solid Carbide Twist Drills 5D

5D

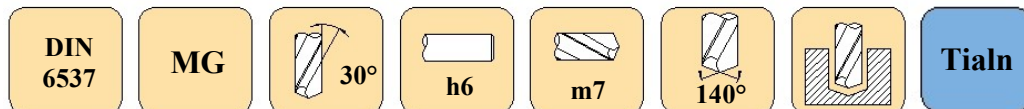


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5D0400	4,00	6	36	74
5D0410	4,10	6	36	74
5D0420	4,20	6	36	74
5D0430	4,30	6	36	74
5D0440	4,40	6	36	74
5D0450	4,50	6	36	74
5D0460	4,60	6	36	74
5D0470	4,70	6	36	74
5D0480	4,80	6	44	82
5D0490	4,90	6	44	82
5D0500	5,00	6	44	82
5D0510	5,10	6	44	82
5D0520	5,20	6	44	82
5D0530	5,30	6	44	82
5D0540	5,40	6	44	82
5D0550	5,50	6	44	82
5D0560	5,60	6	44	82
5D0570	5,70	6	44	82
5D0580	5,80	6	44	82
5D0590	5,90	6	44	82
5D0600	6,00	6	44	82
5D0610	6,10	8	53	91
5D0620	6,20	8	53	91
5D0630	6,30	8	53	91
5D0640	6,40	8	53	91
5D0650	6,50	8	53	91
5D0660	6,60	8	53	91
5D0670	6,70	8	53	91
5D0680	6,80	8	53	91
5D0690	6,90	8	53	91



Punte 5 x D in Metallo Duro Solid Carbide Twist Drills 5D

5D

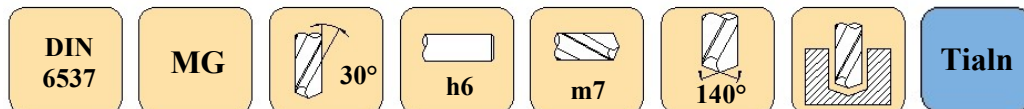


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5D0700	7,00	8	53	91
5D0710	7,10	8	53	91
5D0720	7,20	8	53	91
5D0730	7,30	8	53	91
5D0740	7,40	8	53	91
5D0750	7,50	8	53	91
5D0760	7,60	8	53	91
5D0770	7,70	8	53	91
5D0780	7,80	8	53	91
5D0790	7,90	8	53	91
5D0800	8,00	8	53	91
5D0810	8,10	10	61	103
5D0820	8,20	10	61	103
5D0830	8,30	10	61	103
5D0840	8,40	10	61	103
5D0850	8,50	10	61	103
5D0860	8,60	10	61	103
5D0870	8,70	10	61	103
5D0880	8,80	10	61	103
5D0890	8,90	10	61	103
5D0900	9,00	10	61	103
5D0910	9,10	10	61	103
5D0920	9,20	10	61	103
5D0930	9,30	10	61	103
5D0940	9,40	10	61	103
5D0950	9,50	10	61	103
5D0960	9,60	10	61	103
5D0970	9,70	10	61	103
5D0980	9,80	10	61	103
5D0990	9,90	10	61	103



Punte 5 x D in Metallo Duro Solid Carbide Twist Drills 5D

5D

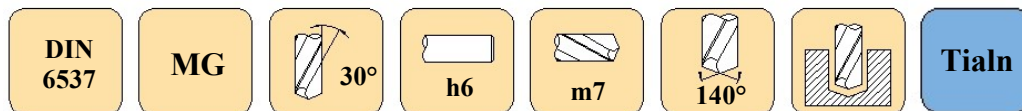


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5D1000	10,00	10	61	103
5D1010	10,10	12	71	118
5D1020	10,20	12	71	118
5D1030	10,30	12	71	118
5D1040	10,40	12	71	118
5D1050	10,50	12	71	118
5D1060	10,60	12	71	118
5D1070	10,70	12	71	118
5D1080	10,80	12	71	118
5D1090	10,90	12	71	118
5D1100	11,00	12	71	118
5D1110	11,10	12	71	118
5D1120	11,20	12	71	118
5D1130	11,30	12	71	118
5D1140	11,40	12	71	118
5D1150	11,50	12	71	118
5D1160	11,60	12	71	118
5D1170	11,70	12	71	118
5D1180	11,80	12	71	118
5D1190	11,90	12	71	118
5D1200	12,00	12	71	118
5D1230	12,30	14	77	124
5D1250	12,50	14	77	124
5D1280	12,80	14	77	124
5D1300	13,00	14	77	124
5D1350	13,50	14	77	124
5D1380	13,80	14	77	124
5D1400	14,00	14	77	124
5D1450	14,50	16	83	133
5D1480	14,80	16	83	133



Punte 5 x D in Metallo Duro Solid Carbide Twist Drills 5D

5D

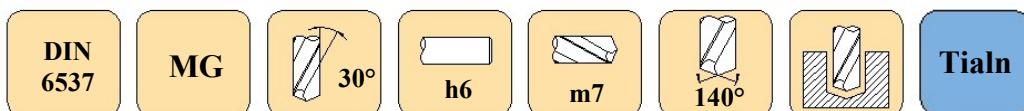
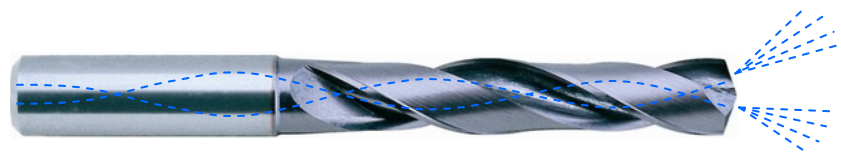


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5D1500	15,00	16	83	133
5D1550	15,50	16	83	133
5D1580	15,80	16	83	133
5D1600	16,00	16	83	133
5D1650	16,50	18	93	143
5D1680	16,80	18	93	143
5D1700	17,00	18	93	143
5D1750	17,50	18	93	143
5D1780	17,80	18	93	143
5D1800	18,00	18	93	143
5D1850	18,50	20	101	153
5D1900	19,00	20	101	153
5D1950	19,50	20	101	153
5D2000	20,00	20	101	153



Punte 5 x D in Metallo Duro forate
Solid Carbide Twist Drills 5D with coolant holes

5DF

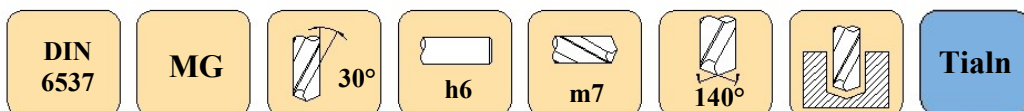
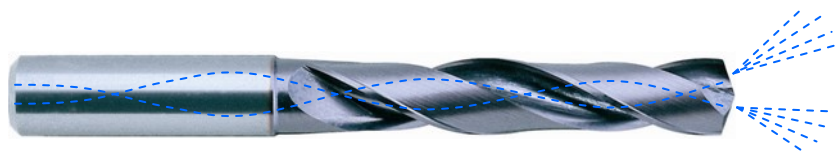


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5DF0100	1,00	3	8	55
5DF0110	1,10	3	12	55
5DF0120	1,20	3	12	55
5DF0130	1,30	3	12	55
5DF0140	1,40	3	12	55
5DF0150	1,50	3	12	55
5DF0160	1,60	3	16	55
5DF0170	1,70	3	16	55
5DF0180	1,80	3	16	55
5DF0190	1,90	3	16	55
5DF0200	2,00	4	21	57
5DF0210	2,10	4	21	57
5DF0220	2,20	4	21	57
5DF0230	2,30	4	21	57
5DF0240	2,40	4	21	57
5DF0250	2,50	4	21	57
5DF0260	2,60	4	21	57
5DF0270	2,70	4	21	57
5DF0280	2,80	4	21	57
5DF0290	2,90	4	21	57
5DF0300	3,00	6	28	66
5DF0310	3,10	6	28	66
5DF0320	3,20	6	28	66
5DF0330	3,30	6	28	66
5DF0340	3,40	6	28	66
5DF0350	3,50	6	28	66
5DF0360	3,60	6	28	66
5DF0370	3,70	6	28	66



Punte 5 x D in Metallo Duro forate
Solid Carbide Twist Drills 5D with coolant holes

5DF

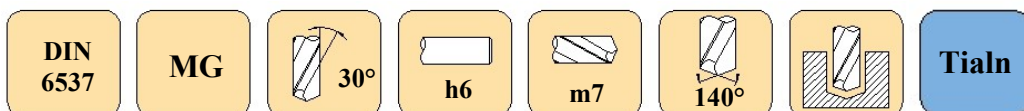
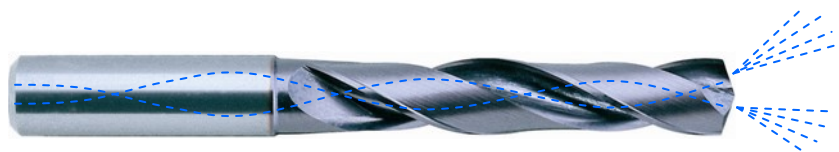


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5DF0380	3,80	6	36	74
5DF0390	3,90	6	36	74
5DF0400	4,00	6	36	74
5DF0410	4,10	6	36	74
5DF0420	4,20	6	36	74
5DF0430	4,30	6	36	74
5DF0440	4,40	6	36	74
5DF0450	4,50	6	36	74
5DF0460	4,60	6	36	74
5DF0470	4,70	6	36	74
5DF0480	4,80	6	44	82
5DF0490	4,90	6	44	82
5DF0500	5,00	6	44	82
5DF0510	5,10	6	44	82
5DF0520	5,20	6	44	82
5DF0530	5,30	6	44	82
5DF0540	5,40	6	44	82
5DF0550	5,50	6	44	82
5DF0560	5,60	6	44	82
5DF0570	5,70	6	44	82
5DF0580	5,80	6	44	82
5DF0590	5,90	6	44	82
5DF0600	6,00	6	44	82
5DF0610	6,10	8	53	91
5DF0620	6,20	8	53	91
5DF0630	6,30	8	53	91
5DF0640	6,40	8	53	91
5DF0650	6,50	8	53	91



Punte 5 x D in Metallo Duro forate
Solid Carbide Twist Drills 5D with coolant holes

5DF

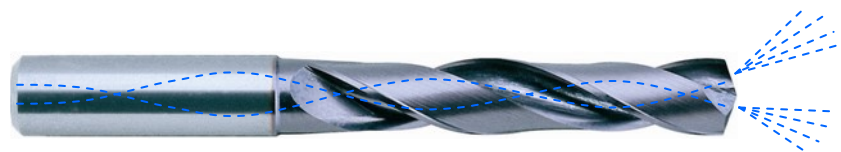


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5DF0660	6,60	8	53	91
5DF0670	6,70	8	53	91
5DF0680	6,80	8	53	91
5DF0690	6,90	8	53	91
5DF0700	7,00	8	53	91
5DF0710	7,10	8	53	91
5DF0720	7,20	8	53	91
5DF0730	7,30	8	53	91
5DF0740	7,40	8	53	91
5DF0750	7,50	8	53	91
5DF0760	7,60	8	53	91
5DF0770	7,70	8	53	91
5DF0780	7,80	8	53	91
5DF0790	7,90	8	53	91
5DF0800	8,00	8	53	91
5DF0810	8,10	10	61	103
5DF0820	8,20	10	61	103
5DF0830	8,30	10	61	103
5DF0840	8,40	10	61	103
5DF0850	8,50	10	61	103
5DF0860	8,60	10	61	103
5DF0870	8,70	10	61	103
5DF0880	8,80	10	61	103
5DF0890	8,90	10	61	103
5DF0900	9,00	10	61	103
5DF0910	9,10	10	61	103
5DF0920	9,20	10	61	103
5DF0930	9,30	10	61	103



Punte 5 x D in Metallo Duro forate Solid Carbide Twist Drills 5D with coolant holes

5DF

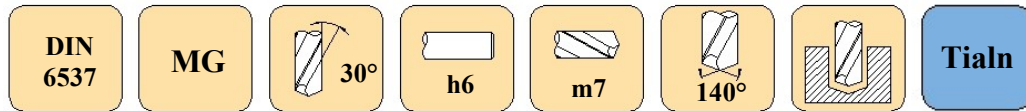


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5DF0940	9,40	10	61	103
5DF0950	9,50	10	61	103
5DF0960	9,60	10	61	103
5DF0970	9,70	10	61	103
5DF0980	9,80	10	61	103
5DF0990	9,90	10	61	103
5DF1000	10,00	10	61	103
5DF1010	10,10	12	71	118
5DF1020	10,20	12	71	118
5DF1030	10,30	12	71	118
5DF1040	10,40	12	71	118
5DF1050	10,50	12	71	118
5DF1060	10,60	12	71	118
5DF1070	10,70	12	71	118
5DF1080	10,80	12	71	118
5DF1090	10,90	12	71	118
5DF1100	11,00	12	71	118
5DF1110	11,10	12	71	118
5DF1120	11,20	12	71	118
5DF1130	11,30	12	71	118
5DF1140	11,40	12	71	118
5DF1150	11,50	12	71	118
5DF1160	11,60	12	71	118
5DF1170	11,70	12	71	118
5DF1180	11,80	12	71	118
5DF1190	11,90	12	71	118
5DF1200	12,00	12	71	118
5DF1250	12,50	14	77	124



Punte 5 x D in Metallo Duro forate
Solid Carbide Twist Drills 5D with coolant holes

5DF

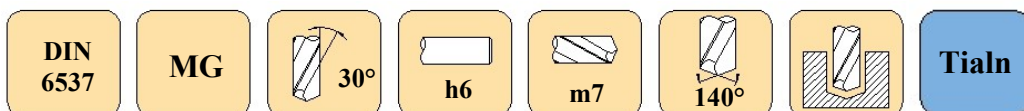
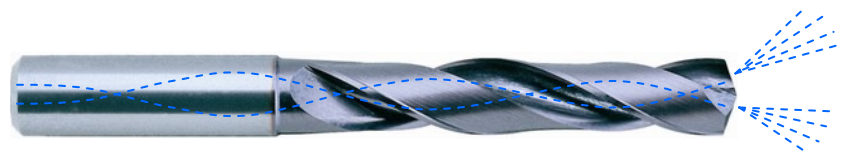


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
5DF1280	12,80	14	77	124
5DF1300	13,00	14	77	124
5DF1350	13,50	14	77	124
5DF1380	13,80	14	77	124
5DF1400	14,00	14	77	124
5DF1450	14,50	16	83	133
5DF1480	14,80	16	83	133
5DF1500	15,00	16	83	133
5DF1550	15,50	16	83	133
5DF1580	15,80	16	83	133
5DF1600	16,00	16	83	133
5DF1650	16,50	18	93	143
5DF1680	16,80	18	93	143
5DF1700	17,00	18	93	143
5DF1750	17,50	18	93	143
5DF1780	17,80	18	93	143
5DF1800	18,00	18	93	143
5DF1850	18,50	20	101	153
5DF1900	19,00	20	101	153
5DF1950	19,50	20	101	153
5DF2000	20,00	20	101	153



Punte 8 x D in Metallo Duro forate
Solid Carbide Twist Drills 8D with coolant holes

8DF

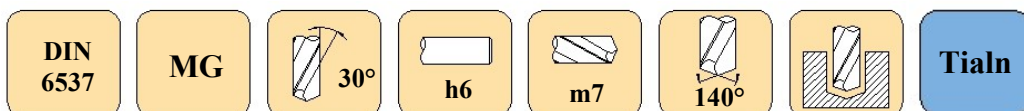
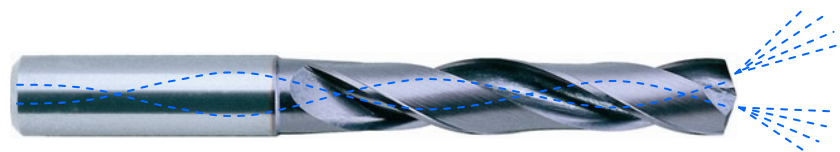


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
8DF0100	1,00	3	11	55
8DF0110	1,10	3	17	55
8DF0120	1,20	3	17	55
8DF0130	1,30	3	17	55
8DF0140	1,40	3	17	55
8DF0150	1,50	3	22	65
8DF0160	1,60	3	22	65
8DF0170	1,70	3	22	65
8DF0180	1,80	3	22	65
8DF0190	1,90	3	22	65
8DF0200	2,00	3	28	74
8DF0210	2,10	3	28	74
8DF0220	2,20	3	28	74
8DF0230	2,30	3	28	74
8DF0240	2,40	3	28	74
8DF0250	2,50	3	32	81
8DF0260	2,50	3	32	81
8DF0270	2,50	3	32	81
8DF0280	2,80	3	32	81
8DF0290	2,90	3	32	81
8DF0300	3,00	6	34	72
8DF0310	3,10	6	34	72
8DF0320	3,20	6	34	72
8DF0330	3,30	6	34	72
8DF0340	3,40	6	34	72
8DF0350	3,50	6	34	72
8DF0360	3,60	6	34	72
8DF0370	3,70	6	34	72
8DF0380	3,80	6	43	81



Punte 8 x D in Metallo Duro forate Solid Carbide Twist Drills 8D with coolant holes

8DF

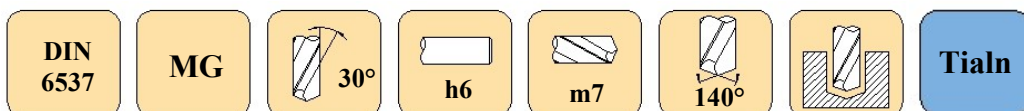
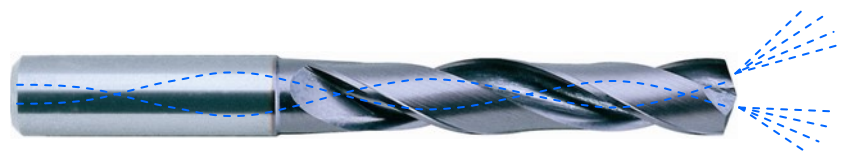


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
8DF0390	3,90	6	43	81
8DF0400	4,00	6	43	81
8DF0410	4,10	6	43	81
8DF0420	4,20	6	43	81
8DF0430	4,30	6	43	81
8DF0440	4,40	6	43	81
8DF0450	4,50	6	43	81
8DF0460	4,60	6	43	81
8DF0470	4,70	6	43	81
8DF0480	4,80	6	57	95
8DF0490	4,90	6	57	95
8DF0500	5,00	6	57	95
8DF0510	5,10	6	57	95
8DF0520	5,20	6	57	95
8DF0530	5,30	6	57	95
8DF0540	5,40	6	57	95
8DF0550	5,50	6	57	95
8DF0560	5,60	6	57	95
8DF0570	5,70	6	57	95
8DF0580	5,80	6	57	95
8DF0590	5,90	6	57	95
8DF0600	6,00	6	57	95
8DF0610	6,10	8	76	114
8DF0620	6,20	8	76	114
8DF0630	6,30	8	76	114
8DF0640	6,40	8	76	114
8DF0650	6,50	8	76	114
8DF0660	6,60	8	76	114



Punte 8 x D in Metallo Duro forate
Solid Carbide Twist Drills 8D with coolant holes

8DF

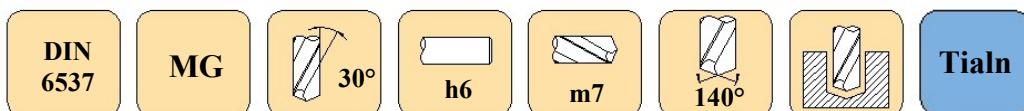
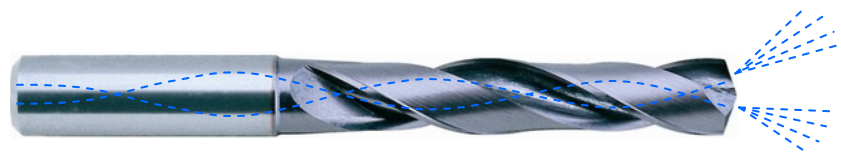


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
8DF0670	6,70	8	76	114
8DF0680	6,80	8	76	114
8DF0690	6,90	8	76	114
8DF0700	7,00	8	76	114
8DF0710	7,10	8	76	114
8DF0720	7,20	8	76	114
8DF0730	7,30	8	76	114
8DF0740	7,40	8	76	114
8DF0750	7,50	8	76	114
8DF0760	7,60	8	76	114
8DF0770	7,70	8	76	114
8DF0780	7,80	8	76	114
8DF0790	7,90	8	76	114
8DF0800	8,00	8	76	114
8DF0810	8,10	10	95	142
8DF0820	8,20	10	95	142
8DF0830	8,30	10	95	142
8DF0840	8,40	10	95	142
8DF0850	8,50	10	95	142
8DF0860	8,60	10	95	142
8DF0870	8,70	10	95	142
8DF0880	8,80	10	95	142
8DF0890	8,90	10	95	142
8DF0900	9,00	10	95	142
8DF0910	9,10	10	95	142
8DF0920	9,20	10	95	142
8DF0930	9,30	10	95	142
8DF0940	9,40	10	95	142



Punte 8 x D in Metallo Duro forate Solid Carbide Twist Drills 8D with coolant holes

8DF

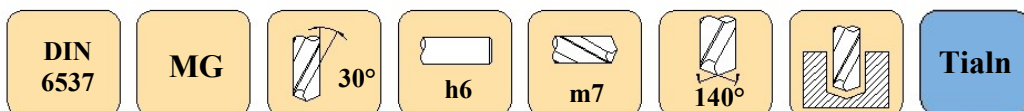
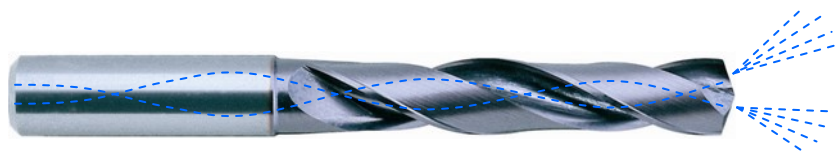


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
8DF0950	9,50	10	95	142
8DF0960	9,60	10	95	142
8DF0970	9,70	10	95	142
8DF0980	9,80	10	95	142
8DF0990	9,90	10	95	142
8DF1000	10,00	10	95	142
8DF1010	10,10	12	114	162
8DF1020	10,20	12	114	162
8DF1030	10,30	12	114	162
8DF1040	10,40	12	114	162
8DF1050	10,50	12	114	162
8DF1060	10,60	12	114	162
8DF1070	10,70	12	114	162
8DF1080	10,80	12	114	162
8DF1090	10,90	12	114	162
8DF1100	11,00	12	114	162
8DF1110	11,10	12	114	162
8DF1120	11,20	12	114	162
8DF1130	11,30	12	114	162
8DF1140	11,40	12	114	162
8DF1150	11,50	12	114	162
8DF1160	11,60	12	114	162
8DF1170	11,70	12	114	162
8DF1180	11,80	12	114	162
8DF1190	11,90	12	114	162
8DF1200	12,00	12	114	162
8DF1250	12,50	14	133	178
8DF1280	12,80	14	133	178



Punte 8 x D in Metallo Duro forate
Solid Carbide Twist Drills 8D with coolant holes

8DF

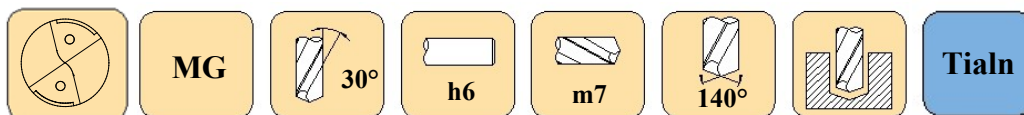


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
8DF1300	13,00	14	133	178
8DF1350	13,50	14	133	178
8DF1400	14,00	14	133	178
8DF1450	14,50	16	152	203
8DF1500	15,00	16	152	203
8DF1550	15,50	16	152	203
8DF1600	16,00	16	152	203
8DF1650	16,50	18	171	222
8DF1700	17,00	18	171	222
8DF1750	17,50	18	171	222
8DF1800	18,00	18	171	222
8DF1850	18,50	20	190	243
8DF1900	19,00	20	190	243
8DF2000	20,00	20	190	243



Punte 10 x D in Metallo Duro forate
Solid Carbide Twist Drills 10D with coolant holes

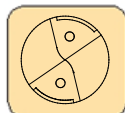
10DF



Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length	€
10DF0300	3,00	3	39	90	154,60
10DF0330	3,30	4	46	97	154,60
10DF0350	3,50	4	46	97	154,60
10DF0400	4,00	4	52	103	154,60
10DF0420	4,20	5	59	112	157,01
10DF0450	4,50	5	59	112	157,01
10DF0500	5,00	5	65	118	157,01
10DF0550	5,50	6	72	127	157,01
10DF0600	6,00	6	78	133	157,01
10DF0650	6,50	7	85	141	194,48
10DF0680	6,80	7	91	147	194,48
10DF0700	7,00	7	91	147	194,48
10DF0750	7,50	8	98	155	194,48
10DF0800	8,00	8	104	161	194,48
10DF0850	8,50	9	111	169	249,57
10DF0900	9,00	9	117	175	249,57
10DF0950	9,50	10	124	182	249,57
10DF1000	10,00	10	130	188	249,57
10DF1050	10,50	11	137	201	343,08
10DF1100	11,00	11	143	207	343,08
10DF1150	11,50	12	150	215	343,08
10DF1200	12,00	12	156	221	343,08
10DF1250	12,50	13	163	229	464,66
10DF1300	13,00	13	169	235	464,66
10DF1350	13,50	14	176	243	464,66
10DF1400	14,00	14	182	249	464,66



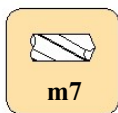
Punte 12 x D in Metallo Duro forate Solid Carbide Twist Drills 12D with coolant holes **12DF**



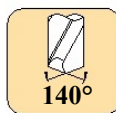
MG



h6



m7



140°

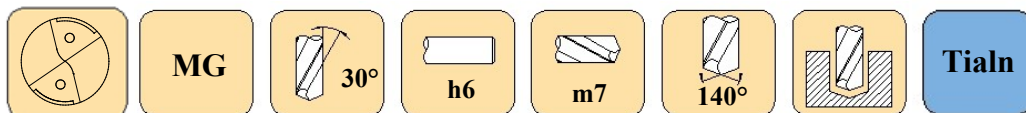


Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
12DF0100	1,00	3	15	55
12DF0110	1,10	3	23	55
12DF0120	1,20	3	23	55
12DF0130	1,30	3	23	55
12DF0140	1,40	3	23	55
12DF0150	1,50	3	30	65
12DF0160	1,60	3	30	65
12DF0170	1,70	3	30	65
12DF0180	1,80	3	30	65
12DF0190	1,90	3	30	65
12DF2000	2,00	3	38	74
12DF0210	2,10	3	38	74
12DF0220	2,20	3	38	74
12DF0230	2,30	3	38	74
12DF0240	2,40	3	38	74
12DF0250	2,50	3	44	81
12DF0260	2,60	3	44	81
12DF0270	2,70	3	44	81
12DF0280	2,80	3	44	81
12DF0290	2,90	3	44	81
12DF0300	3,00	6	54	92
12DF0310	3,10	6	54	92
12DF0320	3,20	6	54	92
12DF0330	3,30	6	54	92
12DF0340	3,40	6	54	92
12DF0350	3,50	6	54	92
12DF0360	3,60	6	54	92
12DF0370	3,70	6	54	92
12DF0380	3,80	6	64	102
12DF0390	3,90	6	64	102



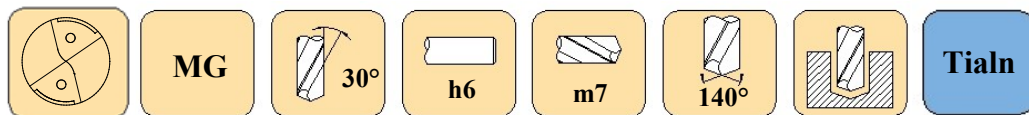
Punte 12 x D in Metallo Duro forate
Solid Carbide Twist Drills 12D with coolant holes **12DF**



Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
12DF0400	4,00	6	64	102
12DF0410	4,10	6	64	102
12DF0420	4,20	6	64	102
12DF0430	4,30	6	64	102
12DF0440	4,40	6	64	102
12DF0450	4,50	6	64	102
12DF0460	4,60	6	64	102
12DF0470	4,70	6	64	102
12DF0480	4,80	6	78	118
12DF0490	4,90	6	78	118
12DF0500	5,00	6	78	118
12DF0510	5,10	6	78	118
12DF0520	5,20	6	78	118
12DF0530	5,30	6	78	118
12DF0540	5,40	6	78	118
12DF0550	5,50	6	78	118
12DF0560	5,60	6	78	118
12DF0570	5,70	6	78	118
12DF0580	5,80	6	78	118
12DF0590	5,90	6	78	118
12DF0600	6,00	6	78	118
12DF0610	6,10	8	108	146
12DF0620	6,20	8	108	146
12DF0630	6,30	8	108	146
12DF0640	6,40	8	108	146
12DF0650	6,50	8	108	146
12DF0660	6,60	8	108	146
12DF0670	6,70	8	108	146
12DF0680	6,80	8	108	146
12DF0690	6,90	8	108	146



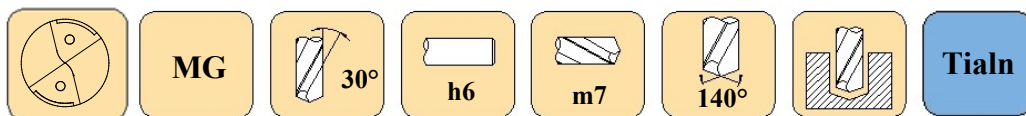
Punte 12 x D in Metallo Duro forate
Solid Carbide Twist Drills 12D with coolant holes **12DF**



Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
12DF0700	7,00	8	108	146
12DF0710	7,10	8	108	146
12DF0720	7,20	8	108	146
12DF0730	7,30	8	108	146
12DF0740	7,40	8	108	146
12DF0750	7,50	8	108	146
12DF0760	7,60	8	108	146
12DF0770	7,70	8	108	146
12DF0780	7,80	8	108	146
12DF0790	7,90	8	108	146
12DF0800	8,00	8	108	146
12DF0810	8,10	10	120	162
12DF0820	8,20	10	120	162
12DF0830	8,30	10	120	162
12DF0840	8,40	10	120	162
12DF0850	8,50	10	120	162
12DF0860	8,60	10	120	162
12DF0870	8,70	10	120	162
12DF0880	8,80	10	120	162
12DF0890	8,90	10	120	162
12DF0900	9,00	10	120	162
12DF0910	9,10	10	120	162
12DF0920	9,20	10	120	162
12DF0930	9,30	10	120	162
12DF0940	9,40	10	120	162
12DF0950	9,50	10	120	162
12DF0960	9,60	10	120	162



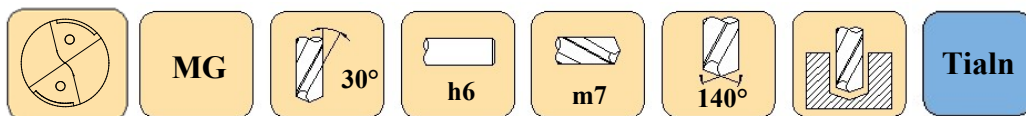
Punte 12 x D in Metallo Duro forate
Solid Carbide Twist Drills 12D with coolant holes **12DF**



Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
12DF0970	9,70	10	120	162
12DF0980	9,80	10	120	162
12DF0990	9,90	10	120	162
12DF1000	10,0	10	120	162
12DF1010	10,1	12	156	204
12DF1020	10,2	12	156	204
12DF1030	10,3	12	156	204
12DF1040	10,4	12	156	204
12DF1050	10,5	12	156	204
12DF1060	10,6	12	156	204
12DF1070	10,7	12	156	204
12DF1080	10,8	12	156	204
12DF1090	10,9	12	156	204
12DF1100	11,0	12	156	204
12DF1110	11,1	12	156	204
12DF1120	11,2	12	156	204
12DF1130	11,3	12	156	204
12DF1140	11,4	12	156	204
12DF1150	11,5	12	156	204
12DF1160	11,6	12	156	204
12DF1170	11,7	12	156	204
12DF1180	11,8	12	156	204
12DF1190	11,9	12	156	204
12DF1200	12	12	156	204
12DF1250	12,5	14	182	230
12DF1280	12,80	14	182	230
12DF1300	13,0	14	182	230



Punte 12 x D in Metallo Duro forate
Solid Carbide Twist Drills 12D with coolant holes **12DF**

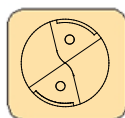


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
12DF1350	13,50	14	182	230
12DF1380	13,80	14	182	230
12DF1400	14,0	14	182	230
12DF1450	14,5	16	208	260
12DF1480	14,8	16	208	260
12DF1500	15,0	16	208	260
12DF1550	15,5	16	208	260
12DF1580	15,8	16	208	260
12DF1600	16,0	16	208	260
12DF1650	16,5	18	234	285
12DF1680	16,8	18	234	285
12DF1700	17,0	18	234	285
12DF1750	17,5	18	234	285
12DF1780	17,8	18	234	285
12DF1800	18,0	18	234	285
12DF1850	18,5	20	258	310
12DF1880	18,8	20	258	310
12DF1900	19,0	20	258	310
12DF1950	19,5	20	258	310
12DF1980	19,8	20	258	310
12DF2000	20,0	20	258	310

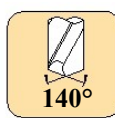
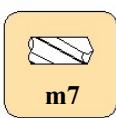
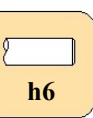


Punte 15 x D in Metallo Duro forate
Solid Carbide Twist Drills 15D with coolant holes

15DF



MG



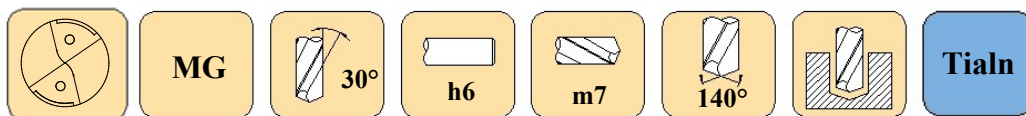
Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
15DF0100	1,00	3	20	60
15DF0110	1,10	3	22	60
15DF0120	1,20	3	24	60
15DF0130	1,30	3	25	60
15DF0140	1,40	3	27	60
15DF0150	1,50	3	27	60
15DF0160	1,60	3	32	65
15DF0170	1,70	3	32	65
15DF0180	1,80	3	32	65
15DF0190	1,90	3	32	65
15DF0200	2,0	3	32	65
15DF0210	2,1	3	40	75
15DF0220	2,2	3	40	75
15DF0230	2,3	3	40	75
15DF0240	2,4	3	40	75
15DF0250	2,5	3	40	75
15DF0260	2,6	3	48	80
15DF0270	2,7	3	48	80
15DF0280	2,8	3	50	80
15DF0290	2,9	3	50	80
15DF0300	3,0	6	60	100
15DF0310	3,1	6	60	100
15DF0320	3,2	6	60	100
15DF0330	3,3	6	60	100
15DF0340	3,4	6	60	100
15DF0350	3,5	6	60	100
15DF0360	3,6	6	78	115



Punte 15 x D in Metallo Duro forate
Solid Carbide Twist Drills 15D with coolant holes

15DF

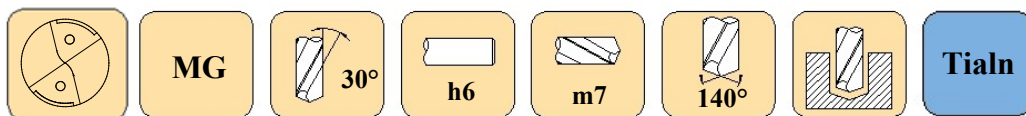


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
15DF0370	3,7	6	78	115
15DF0380	3,8	6	78	115
15DF0390	3,9	6	78	115
15DF0400	4,0	6	78	115
15DF0410	4,1	6	78	115
15DF0420	4,2	6	78	115
15DF0430	4,3	6	78	115
15DF0440	4,4	6	78	115
15DF0450	4,5	6	78	115
15DF0460	4,6	6	92	130
15DF0470	4,7	6	92	130
15DF0480	4,8	6	92	130
15DF0490	4,9	6	92	130
15DF0500	5,0	6	92	130
15DF0510	5,1	6	92	130
15DF0520	5,2	6	92	130
15DF0530	5,3	6	92	130
15DF0540	5,4	6	92	130
15DF0550	5,5	6	100	145
15DF0560	5,6	6	100	145
15DF0570	5,7	6	100	145
15DF0580	5,8	6	100	145
15DF0590	5,9	6	100	145
15DF0600	6,0	6	100	145
15DF0610	6,1	8	100	145
15DF0620	6,2	8	100	145
15DF0630	6,3	8	100	145



Punte 15 x D in Metallo Duro forate
Solid Carbide Twist Drills 15D with coolant holes

15DF

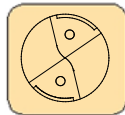


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
15DF0640	6,4	8	100	145
15DF0650	6,5	8	130	170
15DF0660	6,6	8	130	170
15DF0670	6,7	8	130	170
15DF0680	6,8	8	130	170
15DF0690	6,9	8	130	170
15DF0700	7,0	8	130	170
15DF0750	7,5	8	130	170
15DF0780	7,8	8	130	170
15DF0800	8,0	8	130	170
15DF0850	8,5	10	163	208
15DF0880	8,8	10	163	208
15DF0900	9,0	10	163	208
15DF0950	9,5	10	163	208
15DF0980	9,8	10	163	208
15DF1000	10,0	10	163	208
15DF1020	10,2	12	195	245
15DF1050	10,5	12	195	245
15DF1080	10,8	12	195	245
15DF1100	11,0	12	195	245
15DF1120	11,2	12	195	245
15DF1150	11,5	12	195	245
15DF1180	11,8	12	195	245
15DF1200	12,0	12	195	245
15DF1250	12,5	14	230	280
15DF1300	13,0	14	230	280
15DF1380	13,8	14	230	280

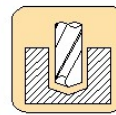
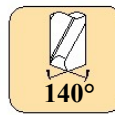
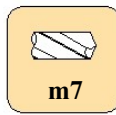
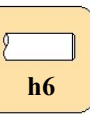


Punte 15 x D in Metallo Duro forate
Solid Carbide Twist Drills 15D with coolant holes

15DF



MG



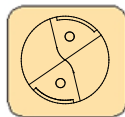
Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
15DF1400	14,0	14	230	280
15DF1480	14,8	16	260	310
15DF1500	15,0	16	260	310
15DF1580	15,8	16	260	310
15DF1600	16,0	16	260	310

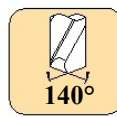
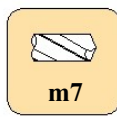
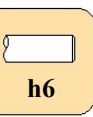


Punte 20 x D in Metallo Duro forate
Solid Carbide Twist Drills 20D with coolant holes

20DF



MG



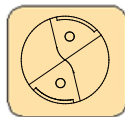
Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
20DF0200	2,0	4	50	92
20DF0220	2,2	4	50	92
20DF0230	2,3	4	50	92
20DF0240	2,4	4	70	112
20DF0250	2,5	4	70	112
20DF0270	2,7	4	70	112
20DF0280	2,8	4	70	112
20DF0290	2,9	4	70	112
20DF0300	3,0	6	80	120
20DF0320	3,2	6	80	120
20DF0330	3,3	6	80	120
20DF0350	3,5	6	80	120
20DF0380	3,8	6	90	130
20DF0400	4,0	6	90	130
20DF0420	4,2	6	110	160
20DF0450	4,5	6	110	160
20DF0460	4,6	6	110	160
20DF0480	4,8	6	120	160
20DF0500	5,0	6	120	160
20DF0550	5,5	6	140	185
20DF0580	5,8	6	140	185
20DF0600	6,0	6	140	185
20DF0650	6,5	8	155	210
20DF0680	6,8	8	160	210
20DF0700	7,0	8	160	210
20DF0750	7,5	8	180	230
20DF0780	7,8	8	180	230



Punte 20 x D in Metallo Duro forate
Solid Carbide Twist Drills 20D with coolant holes

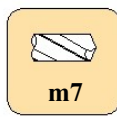
20DF



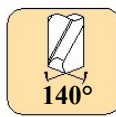
MG



h6



m7



140°



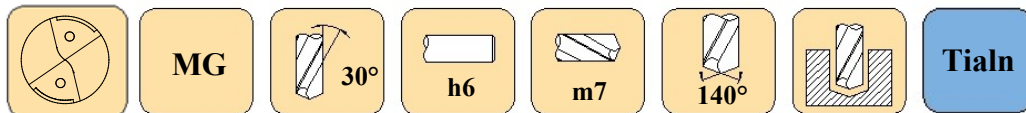
Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
20DF0800	8,0	8	180	230
20DF0850	8,5	10	195	260
20DF0880	8,8	10	230	290
20DF0900	9,0	10	230	290
20DF0980	9,8	10	230	290
20DF1000	10,0	10	230	290
20DF1020	10,2	12	270	315
20DF1080	10,8	12	270	315
20DF1180	11,8	12	270	315
20DF1200	12,0	12	270	315



Punte 25 x D in Metallo Duro forate
Solid Carbide Twist Drills 25D with coolant holes

25DF

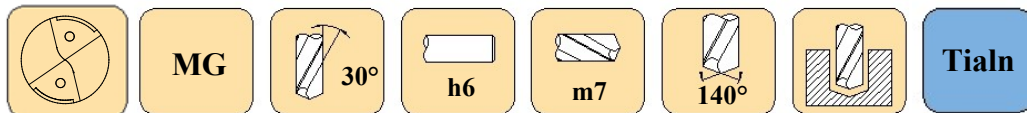


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
25DF0300	3,0	6	98	135
25DF0320	3,2	6	98	135
25DF0330	3,3	6	110	150
25DF0350	3,5	6	110	150
25DF0380	3,5	6	120	160
25DF0400	4,0	6	120	160
25DF0420	4,2	6	120	160
25DF0450	4,5	6	135	180
25DF0480	4,8	6	135	180
25DF0500	5,0	6	135	180
25DF0550	5,5	6	168	205
25DF0580	5,5	6	168	205
25DF0600	6,0	6	168	205
25DF0650	6,5	8	200	240
25DF0680	6,8	8	200	240
25DF0700	7,0	8	200	240
25DF0750	7,5	8	220	260
25DF0780	7,8	8	220	260
25DF0800	8,0	8	220	260
25DF0850	8,5	10	240	285
25DF0880	8,8	10	270	310
25DF0900	9,0	10	270	310
25DF0950	9,5	10	270	310
25DF0980	9,8	10	270	310
25DF1000	10,0	10	270	310
25DF1020	10,2	12	325	375
25DF1080	10,8	12	325	375
25DF1180	11,8	12	325	375
25DF1200	12,0	12	325	375



Punte 30 x D in Metallo Duro forate
Solid Carbide Twist Drills 30D with coolant holes

30DF

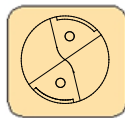


Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
30DF0200	2,0	4	70	115
30DF0220	2,2	4	70	115
30DF0230	2,3	4	70	115
30DF0240	2,4	4	90	138
30DF0250	2,5	4	90	138
30DF0270	2,7	4	90	138
30DF0280	2,8	4	90	138
30DF0290	2,9	4	90	138
30DF0300	3,0	6	105	150
30DF0320	3,2	6	105	150
30DF0330	3,3	6	135	185
30DF0350	3,5	6	135	185
30DF0380	3,8	6	135	185
30DF0400	4,0	6	135	185
30DF0420	4,2	6	135	185
30DF0450	4,5	6	165	215
30DF0460	4,6	6	165	215
30DF0480	4,8	6	165	215
30DF0500	5,0	6	165	215
30DF0550	5,5	6	180	230
30DF0580	5,8	6	180	230
30DF0600	6,0	6	180	230
30DF0650	6,5	8	215	280
30DF0680	6,8	8	230	280
30DF0700	7,0	8	230	280
30DF0750	7,5	8	230	280
30DF0780	7,8	8	265	315
30DF0800	8,0	8	265	315
30DF0850	8,5	8	295	350



Punte 30 x D in Metallo Duro forate
Solid Carbide Twist Drills 30D with coolant holes

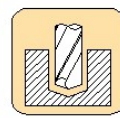
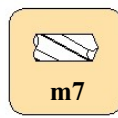
30DF



MG



h6



Tialn

Codice Code	Diametro Diameter	Diametro Gambo Shank Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
30DF0880	8,8	10	330	380
30DF0900	9,0	10	330	380
30DF0950	9,5	10	330	380
30DF0980	9,8	10	330	380
30DF1000	10,0	10	330	380



Punte DIN 1897 in Metallo Duro Solid Carbide Twist Drills DIN 1897

DIN1897



Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN18970200	2,00	12	38
DIN18970210	2,10	12	38
DIN18970220	2,20	13	40
DIN18970230	2,30	13	40
DIN18970240	2,40	14	43
DIN18970250	2,50	14	43
DIN18970260	2,60	14	43
DIN18970270	2,70	16	46
DIN18970280	2,80	16	46
DIN18970290	2,90	16	46
DIN18970300	3,00	16	46
DIN18970310	3,10	18	49
DIN18970320	3,20	18	49
DIN18970330	3,30	18	49
DIN18970340	3,40	20	52
DIN18970350	3,50	20	52
DIN18970360	3,60	20	52
DIN18970370	3,70	20	52
DIN18970380	3,80	20	52
DIN18970390	3,90	22	55
DIN18970400	4,00	22	55
DIN18970410	4,10	22	55
DIN18970420	4,20	22	55
DIN18970430	4,30	24	58
DIN18970440	4,40	24	58
DIN18970450	4,50	24	58
DIN18970460	4,60	24	58
DIN18970470	4,70	24	58
DIN18970480	4,80	26	62



Punte DIN 1897 in Metallo Duro Solid Carbide Twist Drills DIN 1897

DIN1897



Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN18970490	4,90	26	62
DIN18970500	5,00	26	62
DIN18970510	5,10	26	62
DIN18970520	5,20	26	62
DIN18970530	5,30	26	62
DIN18970540	5,40	28	66
DIN18970550	5,50	28	66
DIN18970560	5,60	28	66
DIN18970570	5,70	28	66
DIN18970580	5,80	28	66
DIN18970590	5,90	28	66
DIN18970600	6,00	28	66
DIN18970610	6,10	31	70
DIN18970620	6,20	31	70
DIN18970630	6,30	31	70
DIN18970640	6,40	31	70
DIN18970650	6,50	31	70
DIN18970660	6,60	31	70
DIN18970670	6,70	31	70
DIN18970680	6,80	34	74
DIN18970690	6,90	34	74
DIN18970700	7,00	34	74
DIN18970710	7,10	34	74
DIN18970720	7,20	34	74
DIN18970730	7,30	34	74
DIN18970740	7,40	34	74
DIN18970750	7,50	34	74
DIN18970760	7,60	37	79
DIN18970770	7,70	37	79



Punte DIN 1897 in Metallo Duro Solid Carbide Twist Drills DIN 1897

DIN1897



Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN18970780	7,80	37	79
DIN18970790	7,90	37	79
DIN18970800	8,00	37	79
DIN18970810	8,10	37	79
DIN18970820	8,20	37	79
DIN18970830	8,30	37	79
DIN18970840	8,40	37	79
DIN18970850	8,50	37	79
DIN18970860	8,60	40	84
DIN18970870	8,70	40	84
DIN18970880	8,80	40	84
DIN18970890	8,90	40	84
DIN18970900	9,00	40	84
DIN18970910	9,10	40	84
DIN18970920	9,20	40	84
DIN18970930	9,30	40	84
DIN18970940	9,40	40	84
DIN18970950	9,50	40	84
DIN18970960	9,60	43	89
DIN18970970	9,70	43	89
DIN18970980	9,80	43	89
DIN18970990	9,90	43	89
DIN18971000	10,00	43	89
DIN18971020	10,20	43	89
DIN18971030	10,30	43	89
DIN18971050	10,50	43	89
DIN18971110	11,00	47	95
DIN18971150	11,50	47	95
DIN18971200	12,00	51	102



Punte DIN 338 in Metallo Duro Solid Carbide Twist Drills DIN 338

DIN338



Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN3380200	2,00	24	49
DIN3380210	2,10	24	49
DIN3380220	2,20	27	53
DIN3380230	2,30	27	53
DIN3380240	2,40	30	57
DIN3380250	2,50	30	57
DIN3380260	2,60	30	57
DIN3380270	2,70	33	61
DIN3380280	2,80	33	61
DIN3380290	2,90	33	61
DIN3380300	3,00	33	61
DIN3380310	3,10	36	65
DIN3380320	3,20	36	65
DIN3380330	3,30	36	65
DIN3380340	3,40	39	70
DIN3380350	3,50	39	70
DIN3380360	3,60	39	70
DIN3380370	3,70	43	75
DIN3380380	3,80	43	75
DIN3380390	3,90	43	75
DIN3380400	4,00	43	75
DIN3380410	4,10	43	75
DIN3380420	4,20	43	75
DIN3380430	4,30	47	80
DIN3380440	4,40	47	80
DIN3380450	4,50	47	80
DIN3380460	4,60	47	80
DIN3380470	4,70	47	80
DIN3380480	4,80	52	86



Punte DIN 338 in Metallo Duro Solid Carbide Twist Drills DIN 338

DIN338



Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN3380490	4,90	52	86
DIN3380500	5,00	52	86
DIN3380510	5,10	52	86
DIN3380520	5,20	52	86
DIN3380530	5,30	52	86
DIN3380540	5,40	57	93
DIN3380550	5,50	57	93
DIN3380560	5,60	57	93
DIN3380570	5,70	57	93
DIN3380580	5,80	57	93
DIN3380590	5,90	57	93
DIN3380600	6,00	57	93
DIN3380610	6,10	63	101
DIN3380620	6,20	63	101
DIN3380630	6,30	63	101
DIN3380640	6,40	63	101
DIN3380650	6,50	63	101
DIN3380660	6,60	63	101
DIN3380670	6,70	63	101
DIN3380680	6,80	69	109
DIN3380690	6,90	69	109
DIN3380700	7,00	69	109
DIN3380710	7,10	69	109
DIN3380720	7,20	69	109
DIN3380730	7,30	69	109
DIN3380740	7,40	69	109
DIN3380750	7,50	69	109
DIN3380760	7,60	75	117
DIN3380770	7,70	75	117



Punte DIN 338 in Metallo Duro Solid Carbide Twist Drills DIN 338

DIN338

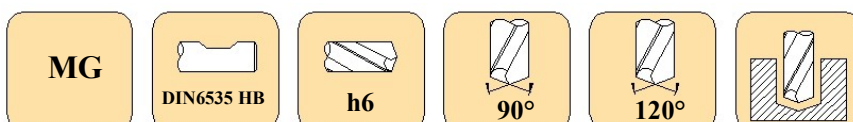


Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length
DIN3380780	7,80	75	117
DIN3380790	7,90	75	117
DIN3380800	8,00	75	117
DIN3380810	8,10	75	117
DIN3380820	8,20	75	117
DIN3380830	8,30	75	117
DIN3380840	8,40	75	117
DIN3380850	8,50	75	117
DIN3380860	8,60	81	125
DIN3380870	8,70	81	125
DIN3380880	8,80	81	125
DIN3380890	8,90	81	125
DIN3380900	9,00	81	125
DIN3380910	9,10	81	125
DIN3380920	9,20	81	125
DIN3380930	9,30	81	125
DIN3380940	9,40	81	125
DIN3380950	9,50	81	125
DIN3380960	9,60	87	133
DIN3380970	9,70	87	133
DIN3380980	9,80	87	133
DIN3380990	9,90	87	133
DIN3381000	10,00	87	133
DIN3381020	10,20	87	133
DIN3381050	10,50	87	133
DIN3381100	11,00	94	142
DIN3381150	11,50	94	142
DIN3381200	12,00	101	151



Punta da Centro in Metallo duro Solid Carbide Spotting Drills

PC90
PC120

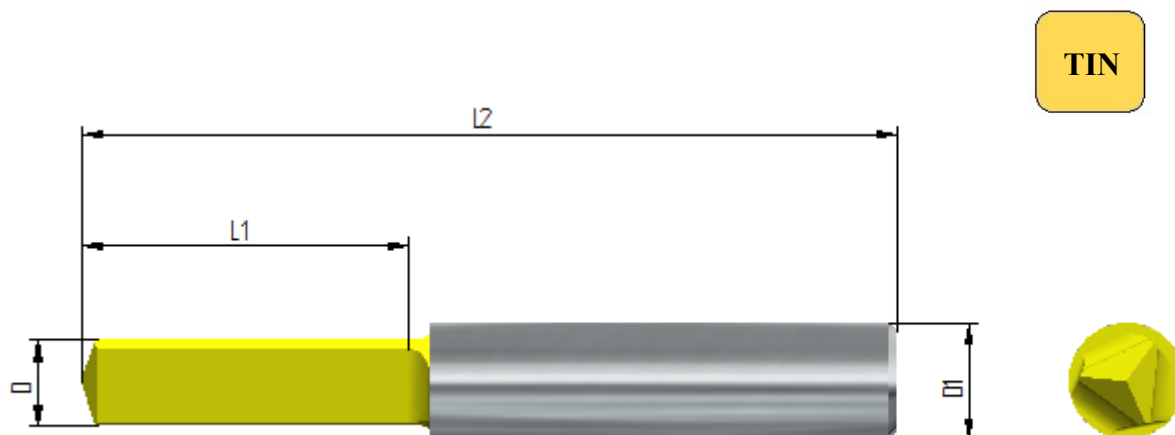


PC90

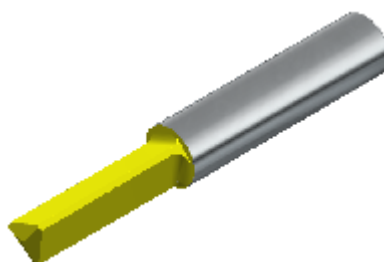
Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length	Angolo testa Angle Point
PC900300	3,00	8	38	90°
PC900400	4,00	10	50	90°
PC900500	5,00	13	50	90°
PC900600	6,00	13	57	90°
PC900800	8,00	19	63	90°
PC901000	10,00	20	66	90°
PC901200	12,00	22	73	90°
PC901600	16,00	24	82	90°
PC902000	20,00	30	92	90°

PC120

Codice Code	Diametro Diameter	Lunghezza Taglio Cutting Length	Lunghezza Totale Overall Length	Angolo testa Angle Point
PC1200300	3,00	8	38	90°
PC1200400	4,00	10	50	90°
PC1200500	5,00	13	50	90°
PC1200600	6,00	13	57	120°
PC1200800	8,00	19	63	120°
PC1201000	10,00	20	66	120°
PC1201200	12,00	22	73	120°
PC1201600	16,00	24	82	120°
PC1202000	20,00	30	92	120°



Codice Code	D	D1	L1	L	Z	Filetto Thread
DM04	3,3	6	15	50	3	M4
DM05	4,2	6	15	50	3	M5
DM06	5,0	6	15	50	3	M6
DM08	6,8	8	20	60	3	M8
DM10	8,5	10	25	70	3	M10
DM12	10,2	12	30	75	3	M12
DM14	12,0	12	30	75	3	M14
DM16	14,0	14	40	100	3	M16
DM18	15,5	16	40	100	3	M18
DM20	17,5	18	50	100	3	M20





Dati Tecnici

Technical Details



Informazioni Tecniche Technical Details

Valori Indicativi di Foratura con punte in metallo duro **senza fori di lubrificazione**
Indicative values for drilling with solid carbide drills **without coolant holes**

Tipo di Materiale Material to be Machined	Velocità di taglio Cutting Speed mt/min	Avanz. Feed mm/giro Ø 4	Avanz. Feed mm/giro Ø 6	Avanz. Feed mm/giro Ø 8	Avanz. Feed mm/giro Ø 10	Avanz. Feed mm/giro Ø 12	Avanz. Feed mm/giro Ø 14	Avanz. Feed mm/giro Ø 16	Avanz. Feed mm/giro Ø 18	Avanz. Feed mm/giro Ø 20
Acciai fino a 700N/mm ² - Steel < 700N/mm ² Tipo: St 37-2-C35-9SMnPB28-6MnCr5G-Fe37-C10 AISI: 1035-2012-1212-1010-5115	60/140	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55
Acciai fino a 700N/mm ² - Steel < 700N/mm ² Tipo: C45V-C60U-N-36Mn5V-38MnSi4V-31NiCr14V-34Cr4V AISI: 1045-1060-1146-3310-3415-9314-5132	60/100	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
Acciai da 900N/mm ² a 1200N/mm ² - Steel 900-1200N/mm ² Tipo: 46MnSi4V-36NiCr10V-36CrMn4V-50CrV4V AISI: 5140-4140-4142-4340-9840-6145-6150	40/80	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40
Acciai superiori a 1200N/mm ² - Steel > 1200N/mm ² Tipo: 60SiMn5-55NiCrMoV6V-58CrV4 AISI: 9260-P600-300M	20/60	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29
Acciai Inox buona lavorabilità—Stainless Steel good working Tipo: X6CrAl13-X10Cr13-X20Cr13-X46Cr13 AISI: 301-316-317	15/40	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20
Acciai Inox difficile lavorabilità—Stainless Steel hard working Tipo: X10CrNiS189-X12CrNi18-8-X5iN18-9	10/30	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.19
Ghisa Grigia bassa durezza—Gray Iron low hardness Tipo: GG10-GG15-GG20	100/180	0.08	0.15	0.22	0.29	0.36	0.43	0.50	0.57	0.64
Ghisa malleabile media durezza — Malleable Cast Iron Tipo: GG25-GG30-GG40	70/120	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54
Ghisa nodulare alta durezza — Nodular Cast Iron Tipo: GS400-GS500	40/80	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36
Ghisa difficile lavorabilità — Cast Iron hard working Tipo: GS600	20/60	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27
Alluminio con Si < 15% - Aluminium Si < 15% Tipo: AlMgSiPb-AlMgSi1-AlMg3-AlSi5Mg-AlSi6Cu4-AlSi12	80/300	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60
Alluminio con Si > 15% - Aluminium Si > 15% Tipo: AlMgSiPb-AlMgSi1-AlMg3-AlSi5Mg-AlSi6Cu4-AlSi12	60/180	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
Ottone / Zinco—Brass / Zinc Tipo: CuZn39Pb2-CuZn40Pb2-CuZn36Pb1-OT52-OT58-GDZnA14	80/160	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54
Bronzo Cupro / Nickel—Bronze / Nickel Tipo: CuSn6(SnBz6)-G-CuSn10Zn(Rg10)-GCuSn7ZnPb(Rg7)	60/100	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.48	0.52
Titanio Ti6Al4V—Titanium Tipo: Ti99,7-TiCu2	10/50	0.05	0.08	0.10	0.13	0.15	0.18	0.20	0.22	0.24

Attenzione : Per le punte 9/D - 12/D l'avanzamento deve essere ridotto del ~ 50%
While using drills 9/D - 12/D reduced Feed of ~ 50%



Informazioni Tecniche Technical Details

Valori Indicativi di Foratura con punte in metallo duro **con fori di lubrificazione**
Indicative values for drilling with solid carbide drills **with coolant holes**

Tipo di Materiale Material to be Machined	Velocità di taglio Cutting Speed mt/min	Avanz. Feed mm/giro Ø 4	Avanz. Feed mm/giro Ø 6	Avanz. Feed mm/giro Ø 8	Avanz. Feed mm/giro Ø 10	Avanz. Feed mm/giro Ø 12	Avanz. Feed mm/giro Ø 14	Avanz. Feed mm/giro Ø 16	Avanz. Feed mm/giro Ø 18	Avanz. Feed mm/giro Ø 20
Acciai fino a 700N/mm ² - Steel < 700N/mm ² Tipo: St 37-2-C35-9SMnPb28-6MnCr5G-Fe37-C10 AISI: 1035-2012-1212-1010-5115	60/180	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55
Acciai fino a 700N/mm ² - Steel < 700N/mm ² Tipo: C45V-C60U-N-36Mn5V-38MnSi4V-31NiCr14V-34Cr4V AISI: 1045-1060-1146-3310-3415-9314-5132	80/120	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
Acciai da 900N/mm ² a 1200N/mm ² - Steel 900-1200N/mm ² Tipo: 46MnSi4V-36NiCr10V-36CrMn4V-50CrV4V AISI: 5140-4140-4142-4340-9840-6145-6150	60/100	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40
Acciai superiori a 1200N/mm ² - Steel > 1200N/mm ² Tipo: 60SiMn5-55NiCrMoV6V-58CrV4 AISI: 9260-P600-300M	40/80	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29
Acciai Inox buona lavorabilità—Stainless Steel good working Tipo: X6CrAl13-X10Cr13-X20Cr13-X46Cr13 AISI: 301-316-317	20/60	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20
Acciai Inox difficile lavorabilità—Stainless Steel hard working Tipo: X10CrNiS189-X12CrNi18-8-X5iN18-9	10/50	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.19
Ghisa Grigia bassa durezza—Gray Iron low hardness Tipo: GG10-GG15-GG20	100/200	0.08	0.15	0.22	0.29	0.36	0.43	0.50	0.57	0.64
Ghisa malleabile media durezza — Malleable Cast Iron Tipo: GG25-GG30-GG40	70/140	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54
Ghisa nodulare alta durezza — Nodular Cast Iron Tipo: GS400-GS500	40/100	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36
Ghisa difficile lavorabilità — Cast Iron hard working Tipo: GS600	30/80	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27
Alluminio con Si < 15% - Aluminium Si < 15% Tipo: AlMgSiPb-AlMgSi1-AlMg3-AlSi5Mg-AlSi6Cu4-AlSi12	100/300	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60
Alluminio con Si > 15% - Aluminium Si > 15% Tipo: AlMgSiPb-AlMgSi1-AlMg3-AlSi5Mg-AlSi6Cu4-AlSi12	80/200	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
Ottone / Zinco—Brass / Zinc Tipo: CuZn39Pb2-CuZn40Pb2-CuZn36Pb1-OT52-OT58-GDZnA14	90/180	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54
Bronzo Cupro / Nickel—Bronze / Nickel Tipo: CuSn6(SnBz6)-G-CuSn10Zn(Rg10)-G-CuSn7ZnPb(Rg7)	80/140	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.48	0.52
Titanio Ti/6Al/4V—Titanium Tipo: Ti99,7-TiCu2	10/70	0.05	0.08	0.10	0.13	0.15	0.18	0.20	0.22	0.24

Attenzione : Per le punte 9/D - 12/D l'avanzamento deve essere ridotto del ~ 50%
While using drills 9/D - 12/D Feed must be reduced of ~ 50%



Formule Formula

Velocità di Taglio
Cutting Speed

$$V_c = \frac{\pi \times \text{rpm} \times D}{1000} = \text{m/min}$$

Numero di giri
Revolutions per minute

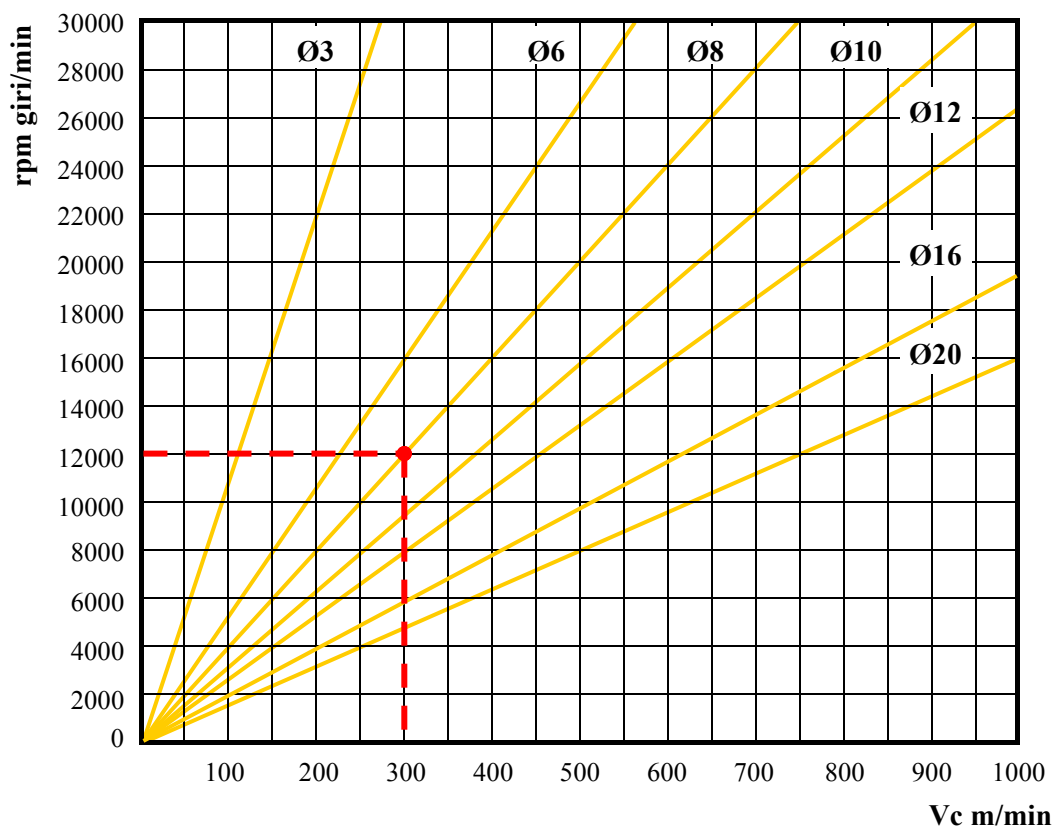
$$\text{rpm} = \frac{V_c \times 1000}{\pi \times D} = \text{giri/min}$$

Avanzamento
Feed

$$V_f = \text{rpm} \times F_n = \text{mm/min}$$

Avanzamento per giro
Feed Revolution

$$F_n = \frac{F}{\text{rpm}} = \text{mm}$$



Esempio lettura grafico
Example how to read the graphic

$D = 8 \text{ mm}$; $V_c = 300 \text{ m/min}$, **rpm = 12000**



Listino - Price List



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M3D050	€28.5	M5D180	€38.5	3D0560	€ 30,75	3D0950	€ 63,30
M3D060	€28.5	M5D190	€38.5	3D0570	€ 30,75	3D0960	€ 63,30
M3D070	€28.5	M5D200	€38.5	3D0580	€ 30,75	3D0970	€ 63,30
M3D080	€28.5	M5D210	€48.5	3D0590	€ 30,75	3D0980	€ 63,30
M3D090	€28.5	M5D220	€48.5	3D0600	€ 30,75	3D0990	€ 63,30
M3D100	€32.5	M5D230	€48.5	3D0610	€ 44,63	3D1000	€ 64,33
M3D110	€32.5	M5D240	€48.5	3D0620	€ 44,63	3D1010	€ 82,43
M3D120	€32.5	M5D250	€48.5	3D0630	€ 44,63	3D1020	€ 82,43
M3D130	€32.5	M5D260	€48.5	3D0640	€ 44,63	3D1030	€ 82,43
M3D140	€32.5	M5D270	€48.5	3D0650	€ 44,63	3D1040	€ 85,27
M3D150	€32.5	M5D280	€48.5	3D0660	€ 44,63	3D1050	€ 86,19
M3D160	€32.5	M5D290	€48.5	3D0670	€ 44,63	3D1060	€ 86,19
M3D170	€32.5			3D0680	€ 44,63	3D1070	€ 88,11
M3D180	€32.5	3D0300	€ 28,91	3D0690	€ 43,13	3D1080	€ 88,11
M3D190	€32.5	3D0310	€ 28,91	3D0700	€ 44,63	3D1090	€ 88,11
M3D200	€32.5	3D0320	€ 28,91	3D0710	€ 45,66	3D1100	€ 88,11
M3D210	€36.5	3D0330	€ 28,91	3D0720	€ 45,66	3D1110	€ 88,11
M3D220	€36.5	3D0340	€ 28,91	3D0730	€ 45,66	3D1120	€ 88,11
M3D230	€36.5	3D0350	€ 28,91	3D0740	€ 45,66	3D1130	€ 88,11
M3D240	€36.5	3D0360	€ 28,91	3D0750	€ 45,66	3D1140	€ 89,03
M3D250	€36.5	3D0370	€ 28,91	3D0760	€ 45,66	3D1150	€ 89,03
M3D260	€36.5	3D0380	€ 28,91	3D0770	€ 45,66	3D1160	€ 89,03
M3D270	€36.5	3D0390	€ 28,91	3D0780	€ 45,66	3D1170	€ 89,03
M3D280	€36.5	3D0400	€ 30,75	3D0790	€ 45,66	3D1180	€ 89,03
M3D290	€36.5	3D0410	€ 30,75	3D0800	€ 45,66	3D1190	€ 89,03
		3D0420	€ 30,75	3D0810	€ 60,35	3D1200	€ 91,86
M5D050	€32.5	3D0430	€ 30,75	3D0820	€ 60,35	3D1230	€ 116,21
M5D060	€32.5	3D0440	€ 30,75	3D0830	€ 60,35	3D1250	€ 116,21
M5D070	€32.5	3D0450	€ 30,75	3D0840	€ 60,35	3D1280	€ 116,21
M5D080	€32.5	3D0460	€ 30,75	3D0850	€ 60,35	3D1300	€ 116,21
M5D090	€32.5	3D0470	€ 30,75	3D0860	€ 60,35	3D1350	€ 116,21
M5D100	€32.5	3D0480	€ 30,75	3D0870	€ 60,35	3D1380	€ 116,21
M5D110	€38.5	3D0490	€ 30,75	3D0880	€ 60,35	3D1400	€ 118,20
M5D120	€38.5	3D0500	€ 30,75	3D0890	€ 61,38	3D1420	€ 146,11
M5D130	€38.5	3D0510	€ 30,75	3D0900	€ 57,66	3D1450	€ 146,11
M5D140	€38.5	3D0520	€ 30,75	3D0910	€ 61,38	3D1480	€ 146,11
M5D150	€38.5	3D0530	€ 30,75	3D0920	€ 61,38	3D1500	€ 147,07
M5D160	€38.5	3D0540	€ 30,75	3D0930	€ 61,38	3D1550	€ 148,11
M5D170	€38.5	3D0550	€ 30,75	3D0940	€ 62,34	3D1580	€ 148,11



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3D1600	€ 149,07	3DF0560	€ 41,74	3DF0950	€ 77,12	3DF1650	€ 243,58
3D1650	€ 189,51	3DF0570	€ 41,74	3DF0960	€ 77,12	3DF1680	€ 243,58
3D1680	€ 189,51	3DF0580	€ 41,74	3DF0970	€ 77,12	3DF1700	€ 244,60
3D1700	€ 190,47	3DF0590	€ 41,74	3DF0980	€ 77,12	3DF1750	€ 246,66
3D1750	€ 192,31	3DF0600	€ 42,81	3DF0990	€ 77,12	3DF1780	€ 246,66
3D1780	€ 192,31	3DF0610	€ 60,81	3DF1000	€ 78,15	3DF1800	€ 247,72
3D1800	€ 193,27	3DF0620	€ 60,81	3DF1010	€ 107,10	3DF1850	€ 307,35
3D1850	€ 233,87	3DF0630	€ 60,81	3DF1020	€ 107,10	3DF1900	€ 308,34
3D1900	€ 234,79	3DF0640	€ 60,81	3DF1030	€ 107,10	3DF1980	€ 309,37
3D1950	€ 235,71	3DF0650	€ 60,81	3DF1040	€ 108,08	3DF1950	€ 309,37
3D1980	€ 235,71	3DF0660	€ 60,81	3DF1050	€ 108,08	3DF2000	€ 310,39
3D2000	€ 236,67	3DF0670	€ 60,81	3DF1060	€ 108,08		
		3DF0680	€ 60,81	3DF1070	€ 109,15	5D0100	€ 32,66
3DF0300	€ 39,02	3DF0690	€ 60,81	3DF1080	€ 109,15	5D0110	€ 31,63
3DF0310	€ 39,02	3DF0700	€ 61,92	3DF1090	€ 109,15	5D0120	€ 31,63
3DF0320	€ 39,02	3DF0710	€ 61,92	3DF1100	€ 109,15	5D0130	€ 31,63
3DF0330	€ 39,02	3DF0720	€ 61,92	3DF1110	€ 109,15	5D0140	€ 31,63
3DF0340	€ 39,02	3DF0730	€ 61,92	3DF1120	€ 109,15	5D0150	€ 31,63
3DF0350	€ 39,02	3DF0740	€ 61,92	3DF1130	€ 109,15	5D0160	€ 32,54
3DF0360	€ 40,08	3DF0750	€ 61,92	3DF1140	€ 109,15	5D0170	€ 32,54
3DF0370	€ 40,08	3DF0760	€ 61,92	3DF1150	€ 110,18	5D0180	€ 32,54
3DF0380	€ 40,71	3DF0770	€ 61,92	3DF1160	€ 110,18	5D0190	€ 32,54
3DF0390	€ 41,78	3DF0780	€ 61,92	3DF1170	€ 110,18	5D0200	€ 32,54
3DF0400	€ 41,78	3DF0790	€ 61,92	3DF1180	€ 110,18	5D0210	€ 32,54
3DF0410	€ 41,78	3DF0800	€ 61,92	3DF1190	€ 110,18	5D0220	€ 32,54
3DF0420	€ 41,78	3DF0810	€ 76,10	3DF1200	€ 111,20	5D0230	€ 32,54
3DF0430	€ 41,78	3DF0820	€ 76,10	3DF1230	€ 140,11	5D0240	€ 32,54
3DF0440	€ 41,78	3DF0830	€ 76,10	3DF1250	€ 140,11	5D0250	€ 32,54
3DF0450	€ 41,78	3DF0840	€ 76,10	3DF1280	€ 140,11	5D0260	€ 30,92
3DF0460	€ 41,78	3DF0850	€ 76,10	3DF1300	€ 140,11	5D0270	€ 30,92
3DF0470	€ 41,78	3DF0860	€ 76,10	3DF1350	€ 141,18	5D0280	€ 30,92
3DF0480	€ 41,78	3DF0870	€ 76,10	3DF1380	€ 141,18	5D0290	€ 30,92
3DF0490	€ 41,78	3DF0880	€ 76,10	3DF1400	€ 143,35	5D0300	€ 31,71
3DF0500	€ 41,74	3DF0890	€ 76,10	3DF1450	€ 180,08	5D0310	€ 31,71
3DF0510	€ 41,74	3DF0900	€ 76,10	3DF1480	€ 170,52	5D0320	€ 31,71
3DF0520	€ 41,74	3DF0910	€ 76,10	3DF1500	€ 181,10	5D0330	€ 31,71
3DF0530	€ 41,74	3DF0920	€ 76,10	3DF1550	€ 182,17	5D0340	€ 31,71
3DF0540	€ 41,74	3DF0930	€ 76,10	3DF1580	€ 183,20	5D0350	€ 31,71
3DF0550	€ 41,74	3DF0940	€ 76,10	3DF1600	€ 183,20	5D0360	€ 31,71



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5D0370	€ 31,71	5D0760	€ 59,63	5D1150	€ 107,18	5DF0190	€ 48,45
5D0380	€ 34,47	5D0770	€ 59,63	5D1160	€ 107,18	5DF0200	€ 48,81
5D0390	€ 34,47	5D0780	€ 59,63	5D1170	€ 107,18	5DF0210	€ 48,81
5D0400	€ 37,56	5D0790	€ 59,63	5D1180	€ 107,18	5DF0220	€ 48,81
5D0410	€ 37,56	5D0800	€ 59,63	5D1190	€ 107,18	5DF0230	€ 48,81
5D0420	€ 37,56	5D0810	€ 72,15	5D1200	€ 109,19	5DF0240	€ 48,81
5D0430	€ 37,56	5D0820	€ 72,15	5D1230	€ 128,38	5DF0250	€ 40,71
5D0440	€ 37,56	5D0830	€ 74,12	5D1250	€ 128,38	5DF0260	€ 40,71
5D0450	€ 37,56	5D0840	€ 74,12	5D1280	€ 128,38	5DF0270	€ 40,71
5D0460	€ 37,56	5D0850	€ 74,12	5D1300	€ 129,37	5DF0280	€ 40,71
5D0470	€ 37,56	5D0860	€ 74,12	5D1350	€ 129,37	5DF0290	€ 40,71
5D0480	€ 39,41	5D0870	€ 74,12	5D1380	€ 129,37	5DF0300	€ 40,71
5D0490	€ 37,56	5D0880	€ 74,12	5D1400	€ 123,05	5DF0310	€ 40,71
5D0500	€ 37,67	5D0890	€ 74,12	5D1450	€ 162,27	5DF0320	€ 40,71
5D0510	€ 39,41	5D0900	€ 74,12	5D1480	€ 162,27	5DF0330	€ 40,71
5D0520	€ 39,41	5D0910	€ 75,15	5D1500	€ 148,64	5DF0340	€ 40,71
5D0530	€ 39,41	5D0920	€ 75,15	5D1550	€ 162,27	5DF0350	€ 40,52
5D0540	€ 39,41	5D0930	€ 75,15	5D1580	€ 164,20	5DF0360	€ 41,62
5D0550	€ 39,41	5D0940	€ 75,15	5D1600	€ 168,15	5DF0370	€ 41,62
5D0560	€ 39,41	5D0950	€ 75,15	5D1650	€ 196,35	5DF0380	€ 44,39
5D0570	€ 39,41	5D0960	€ 75,15	5D1680	€ 196,35	5DF0390	€ 44,39
5D0580	€ 39,41	5D0970	€ 75,15	5D1700	€ 196,35	5DF0400	€ 44,98
5D0590	€ 39,41	5D0980	€ 75,15	5D1750	€ 196,35	5DF0410	€ 47,15
5D0600	€ 41,82	5D0990	€ 75,15	5D1780	€ 196,35	5DF0420	€ 47,15
5D0610	€ 56,67	5D1000	€ 78,11	5D1800	€ 196,35	5DF0430	€ 47,15
5D0620	€ 56,67	5D1010	€ 104,25	5D1850	€ 264,51	5DF0440	€ 47,15
5D0630	€ 56,67	5D1020	€ 104,25	5D1900	€ 266,40	5DF0450	€ 48,22
5D0640	€ 56,67	5D1030	€ 104,25	5D1950	€ 266,40	5DF0460	€ 52,56
5D0650	€ 56,67	5D1040	€ 104,25	5D2000	€ 266,40	5DF0470	€ 52,56
5D0660	€ 56,67	5D1050	€ 104,25			5DF0480	€ 52,56
5D0670	€ 56,67	5D1060	€ 104,25	5DF0100	€ 51,10	5DF0490	€ 52,56
5D0680	€ 56,67	5D1070	€ 104,25	5DF0110	€ 51,10	5DF0500	€ 52,36
5D0690	€ 56,67	5D1080	€ 104,25	5DF0120	€ 51,10	5DF0510	€ 52,36
5D0700	€ 59,63	5D1090	€ 104,25	5DF0130	€ 51,10	5DF0520	€ 52,36
5D0710	€ 59,63	5D1100	€ 106,19	5DF0140	€ 51,10	5DF0530	€ 52,36
5D0720	€ 59,63	5D1110	€ 106,19	5DF0150	€ 48,45	5DF0540	€ 52,36
5D0730	€ 59,63	5D1120	€ 106,19	5DF0160	€ 48,45	5DF0550	€ 52,36
5D0740	€ 59,63	5D1130	€ 106,19	5DF0170	€ 48,45	5DF0560	€ 52,36
5D0750	€ 59,63	5D1140	€ 106,19	5DF0180	€ 48,45	5DF0570	€ 52,36



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5DF0580	€ 52,36	5DF0970	€ 88,58	5DF1750	€ 282,59	8DF0410	€ 74,95
5DF0590	€ 52,36	5DF0980	€ 88,58	5DF1780	€ 282,59	8DF0420	€ 74,95
5DF0600	€ 52,36	5DF0990	€ 88,58	5DF1800	€ 286,50	8DF0430	€ 74,95
5DF0610	€ 72,15	5DF1000	€ 91,70	5DF1850	€ 339,97	8DF0440	€ 74,95
5DF0620	€ 72,15	5DF1010	€ 119,73	5DF1900	€ 342,02	8DF0450	€ 77,44
5DF0630	€ 72,15	5DF1020	€ 120,80	5DF1950	€ 342,02	8DF0460	€ 82,46
5DF0640	€ 72,15	5DF1030	€ 120,80	5DF2000	€ 344,12	8DF0470	€ 84,94
5DF0650	€ 72,15	5DF1040	€ 120,80			8DF0480	€ 84,94
5DF0660	€ 72,15	5DF1050	€ 120,80	8DF0100	€ 53,15	8DF0490	€ 84,94
5DF0670	€ 72,15	5DF1060	€ 120,80	8DF0110	€ 53,15	8DF0500	€ 84,94
5DF0680	€ 72,15	5DF1070	€ 120,80	8DF0120	€ 53,15	8DF0510	€ 84,94
5DF0690	€ 72,15	5DF1080	€ 120,80	8DF0130	€ 53,15	8DF0520	€ 84,94
5DF0700	€ 75,27	5DF1090	€ 120,80	8DF0140	€ 53,15	8DF0530	€ 84,94
5DF0710	€ 75,27	5DF1100	€ 120,80	8DF0150	€ 56,12	8DF0540	€ 84,94
5DF0720	€ 75,27	5DF1110	€ 122,85	8DF0160	€ 56,12	8DF0550	€ 84,94
5DF0730	€ 75,27	5DF1120	€ 122,85	8DF0170	€ 56,12	8DF0560	€ 84,94
5DF0740	€ 75,27	5DF1130	€ 122,85	8DF0180	€ 56,12	8DF0570	€ 84,94
5DF0750	€ 75,27	5DF1140	€ 122,85	8DF0190	€ 56,12	8DF0580	€ 84,63
5DF0760	€ 75,27	5DF1150	€ 123,88	8DF0200	€ 63,34	8DF0590	€ 91,18
5DF0770	€ 75,27	5DF1160	€ 123,88	8DF0210	€ 63,34	8DF0600	€ 91,18
5DF0780	€ 75,27	5DF1170	€ 123,88	8DF0220	€ 63,34	8DF0610	€ 117,40
5DF0790	€ 75,27	5DF1180	€ 123,88	8DF0230	€ 63,34	8DF0620	€ 122,42
5DF0800	€ 75,27	5DF1190	€ 123,88	8DF0240	€ 63,34	8DF0630	€ 122,42
5DF0810	€ 85,46	5DF1200	€ 125,97	8DF0250	€ 49,32	8DF0640	€ 122,42
5DF0820	€ 87,55	5DF1250	€ 156,62	8DF0260	€ 49,32	8DF0650	€ 123,64
5DF0830	€ 87,55	5DF1280	€ 156,62	8DF0270	€ 49,32	8DF0660	€ 123,64
5DF0840	€ 87,55	5DF1300	€ 157,68	8DF0280	€ 49,32	8DF0670	€ 123,64
5DF0850	€ 87,55	5DF1350	€ 157,68	8DF0290	€ 49,32	8DF0680	€ 123,64
5DF0860	€ 87,55	5DF1380	€ 157,68	8DF0300	€ 67,45	8DF0690	€ 123,64
5DF0870	€ 87,55	5DF1400	€ 159,86	8DF0310	€ 67,45	8DF0700	€ 123,64
5DF0880	€ 87,55	5DF1450	€ 205,35	8DF0320	€ 67,45	8DF0710	€ 123,64
5DF0890	€ 87,55	5DF1480	€ 205,35	8DF0330	€ 67,45	8DF0720	€ 123,64
5DF0900	€ 87,55	5DF1500	€ 205,35	8DF0340	€ 67,45	8DF0730	€ 123,64
5DF0910	€ 88,58	5DF1550	€ 213,25	8DF0350	€ 67,45	8DF0740	€ 123,64
5DF0920	€ 88,58	5DF1580	€ 207,44	8DF0360	€ 68,67	8DF0750	€ 126,13
5DF0930	€ 86,68	5DF1600	€ 211,55	8DF0370	€ 68,67	8DF0760	€ 126,13
5DF0940	€ 88,58	5DF1650	€ 280,46	8DF0380	€ 71,20	8DF0770	€ 133,63
5DF0950	€ 88,58	5DF1680	€ 280,46	8DF0390	€ 71,20	8DF0780	€ 133,63
5DF0960	€ 88,58	5DF1700	€ 282,59	8DF0400	€ 72,46	8DF0790	€ 133,63



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8DF0800	€ 131,15	8DF1190	€ 231,06	10DF1150	€ 531,99	12DF0420	€ 93,20
8DF0810	€ 166,10	8DF1200	€ 232,32	10DF1200	€ 531,99	12DF0430	€ 93,20
8DF0820	€ 166,10	8DF1250	€ 323,94	10DF1250	€ 720,55	12DF0440	€ 93,20
8DF0830	€ 166,10	8DF1280	€ 323,78	10DF1300	€ 720,55	12DF0450	€ 93,20
8DF0840	€ 166,10	8DF1300	€ 323,78	10DF1350	€ 720,55	12DF0460	€ 95,85
8DF0850	€ 166,10	8DF1350	€ 323,94	10DF1400	€ 720,55	12DF0470	€ 95,85
8DF0860	€ 166,10	8DF1400	€ 323,94			12DF0480	€ 95,85
8DF0870	€ 166,10	8DF1450	€ 432,22	12DF0100	€ 50,26	12DF0490	€ 95,85
8DF0880	€ 166,10	8DF1500	€ 432,22	12DF0110	€ 50,26	12DF0500	€ 95,85
8DF0890	€ 166,10	8DF1550	€ 432,22	12DF0120	€ 50,26	12DF0510	€ 95,85
8DF0900	€ 167,36	8DF1600	€ 432,22	12DF0130	€ 50,26	12DF0520	€ 95,85
8DF0910	€ 167,36	8DF1650	€ 572,61	12DF0140	€ 50,26	12DF0530	€ 95,85
8DF0920	€ 167,36	8DF1700	€ 572,61	12DF0150	€ 50,26	12DF0540	€ 95,85
8DF0930	€ 167,36	8DF1750	€ 572,61	12DF0160	€ 50,26	12DF0550	€ 95,85
8DF0940	€ 167,36	8DF1800	€ 572,61	12DF0170	€ 50,26	12DF0560	€ 95,85
8DF0950	€ 168,58	8DF1850	€ 714,10	12DF0180	€ 50,26	12DF0570	€ 95,85
8DF0960	€ 168,58	8DF1900	€ 714,10	12DF0190	€ 50,26	12DF0580	€ 95,85
8DF0970	€ 169,85	8DF2000	€ 713,98	12DF2000	€ 52,10	12DF0590	€ 95,85
8DF0980	€ 169,85			12DF0210	€ 52,10	12DF0600	€ 95,85
8DF0990	€ 169,85	10DF0300	€ 239,71	12DF0220	€ 52,10	12DF0610	€ 155,24
8DF1000	€ 176,09	10DF0330	€ 239,71	12DF0230	€ 52,10	12DF0620	€ 155,24
8DF1010	€ 222,33	10DF0350	€ 239,71	12DF0240	€ 52,10	12DF0630	€ 155,24
8DF1020	€ 222,33	10DF0400	€ 239,71	12DF0250	€ 55,82	12DF0640	€ 155,24
8DF1030	€ 223,55	10DF0420	€ 243,53	12DF0260	€ 55,82	12DF0650	€ 155,24
8DF1040	€ 223,55	10DF0450	€ 243,53	12DF0270	€ 55,82	12DF0660	€ 155,24
8DF1050	€ 224,82	10DF0500	€ 243,53	12DF0280	€ 55,82	12DF0670	€ 155,24
8DF1060	€ 224,82	10DF0550	€ 243,53	12DF0290	€ 55,82	12DF0680	€ 155,24
8DF1070	€ 226,04	10DF0600	€ 243,53	12DF0300	€ 91,59	12DF0690	€ 155,24
8DF1080	€ 226,04	10DF0650	€ 301,46	12DF0310	€ 91,59	12DF0700	€ 155,24
8DF1090	€ 226,04	10DF0680	€ 301,46	12DF0320	€ 91,59	12DF0710	€ 159,57
8DF1100	€ 227,31	10DF0700	€ 301,46	12DF0330	€ 91,59	12DF0720	€ 159,57
8DF1110	€ 227,31	10DF0750	€ 301,46	12DF0340	€ 91,59	12DF0730	€ 159,57
8DF1120	€ 228,53	10DF0800	€ 301,46	12DF0350	€ 91,59	12DF0740	€ 159,57
8DF1130	€ 228,53	10DF0850	€ 386,98	12DF0360	€ 93,20	12DF0750	€ 159,57
8DF1140	€ 228,53	10DF0900	€ 386,98	12DF0370	€ 93,20	12DF0760	€ 159,57
8DF1150	€ 229,79	10DF0950	€ 386,98	12DF0380	€ 93,20	12DF0770	€ 159,57
8DF1160	€ 229,79	10DF1000	€ 386,98	12DF0390	€ 93,20	12DF0780	€ 159,57
8DF1170	€ 231,06	10DF1050	€ 531,99	12DF0400	€ 93,20	12DF0790	€ 159,57
8DF1180	€ 231,06	10DF1100	€ 531,99	12DF0410	€ 93,20	12DF0800	€ 159,57



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12DF0810	€ 208,22	12DF1200	€ 289,05	15DF0230	€ 169,41	15DF0620	€ 286,70
12DF0820	€ 208,22	12DF1250	€ 385,16	15DF0240	€ 169,41	15DF0630	€ 286,70
12DF0830	€ 208,22	12DF1280	€ 385,16	15DF0250	€ 169,41	15DF0640	€ 286,70
12DF0840	€ 208,22	12DF1300	€ 385,16	15DF0260	€ 175,93	15DF0650	€ 299,73
12DF0850	€ 208,22	12DF1350	€ 385,16	15DF0270	€ 175,93	15DF0660	€ 299,73
12DF0860	€ 208,22	12DF1380	€ 385,16	15DF0280	€ 175,93	15DF0670	€ 299,73
12DF0870	€ 208,22	12DF1400	€ 391,68	15DF0290	€ 175,93	15DF0680	€ 299,73
12DF0880	€ 208,22	12DF1450	€ 507,66	15DF0300	€ 201,99	15DF0690	€ 299,73
12DF0890	€ 208,22	12DF1480	€ 507,66	15DF0310	€ 201,99	15DF0700	€ 299,73
12DF0900	€ 208,22	12DF1500	€ 507,66	15DF0320	€ 201,99	15DF0750	€ 319,32
12DF0910	€ 216,05	12DF1550	€ 514,18	15DF0330	€ 201,99	15DF0780	€ 319,32
12DF0920	€ 216,05	12DF1580	€ 507,66	15DF0340	€ 201,99	15DF0800	€ 332,31
12DF0930	€ 216,05	12DF1600	€ 518,51	15DF0350	€ 201,99	15DF0850	€ 371,41
12DF0940	€ 216,05	12DF1650	€ 543,01	15DF0360	€ 201,99	15DF0880	€ 371,41
12DF0950	€ 216,05	12DF1680	€ 543,01	15DF0370	€ 201,99	15DF0900	€ 371,41
12DF0960	€ 216,05	12DF1700	€ 543,01	15DF0380	€ 201,99	15DF0950	€ 403,98
12DF0970	€ 216,05	12DF1750	€ 543,01	15DF0390	€ 201,99	15DF0980	€ 403,98
12DF0980	€ 216,05	12DF1780	€ 543,01	15DF0400	€ 215,02	15DF1000	€ 403,98
12DF0990	€ 216,05	12DF1800	€ 543,01	15DF0410	€ 215,02	15DF1020	€ 475,66
12DF1000	€ 216,05	12DF1850	€ 660,29	15DF0420	€ 215,02	15DF1050	€ 475,66
12DF1010	€ 284,67	12DF1880	€ 660,29	15DF0430	€ 215,02	15DF1080	€ 475,66
12DF1020	€ 284,67	12DF1900	€ 660,29	15DF0440	€ 215,02	15DF1100	€ 475,66
12DF1030	€ 284,67	12DF1950	€ 660,29	15DF0450	€ 228,06	15DF1120	€ 475,66
12DF1040	€ 284,67	12DF1980	€ 660,29	15DF0460	€ 228,06	15DF1150	€ 475,66
12DF1050	€ 284,67	12DF2000	€ 660,29	15DF0470	€ 228,06	15DF1180	€ 475,66
12DF1060	€ 284,67			15DF0480	€ 228,06	15DF1200	€ 475,66
12DF1070	€ 284,67	15DF0100	€ 156,38	15DF0490	€ 228,06	15DF1250	€ 716,75
12DF1080	€ 284,67	15DF0110	€ 156,38	15DF0500	€ 228,06	15DF1300	€ 716,75
12DF1090	€ 284,67	15DF0120	€ 156,38	15DF0510	€ 259,33	15DF1380	€ 716,75
12DF1100	€ 286,86	15DF0130	€ 156,38	15DF0520	€ 259,33	15DF1400	€ 716,75
12DF1110	€ 286,86	15DF0140	€ 156,38	15DF0530	€ 259,33	15DF1480	€ 886,16
12DF1120	€ 286,86	15DF0150	€ 156,38	15DF0540	€ 259,33	15DF1500	€ 886,16
12DF1130	€ 286,86	15DF0160	€ 156,38	15DF0550	€ 259,33	15DF1580	€ 886,16
12DF1140	€ 286,86	15DF0170	€ 156,38	15DF0560	€ 259,33	15DF1600	€ 886,16
12DF1150	€ 286,86	15DF0180	€ 156,38	15DF0570	€ 259,33		
12DF1160	€ 286,86	15DF0190	€ 156,38	15DF0580	€ 259,33	20DF0200	€ 169,41
12DF1170	€ 286,86	15DF0200	€ 156,38	15DF0590	€ 259,33	20DF0220	€ 169,41
12DF1180	€ 286,86	15DF0210	€ 169,41	15DF0600	€ 259,33	20DF0230	€ 169,41
12DF1190	€ 289,05	15DF0220	€ 169,41	15DF0610	€ 286,70	20DF0240	€ 169,41



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20DF0250	€ 169,41	25DF0400	€ 325,79	30DF0420	€ 390,95	DIN18970380	€ 16,15
20DF0270	€ 169,41	25DF0420	€ 325,79	30DF0450	€ 390,95	DIN18970390	€ 16,19
20DF0280	€ 169,41	25DF0450	€ 338,83	30DF0460	€ 390,95	DIN18970400	€ 16,47
20DF0290	€ 169,41	25DF0480	€ 338,83	30DF0480	€ 390,95	DIN18970410	€ 16,94
20DF0300	€ 169,41	25DF0500	€ 338,83	30DF0500	€ 403,98	DIN18970420	€ 19,27
20DF0320	€ 234,57	25DF0550	€ 364,89	30DF0550	€ 403,98	DIN18970430	€ 17,93
20DF0330	€ 234,57	25DF0580	€ 364,89	30DF0580	€ 403,98	DIN18970440	€ 17,97
20DF0350	€ 234,57	25DF0600	€ 364,89	30DF0600	€ 443,08	DIN18970450	€ 18,52
20DF0380	€ 254,12	25DF0650	€ 403,98	30DF0650	€ 469,14	DIN18970460	€ 19,11
20DF0400	€ 254,12	25DF0680	€ 403,98	30DF0680	€ 469,14	DIN18970470	€ 19,15
20DF0420	€ 273,67	25DF0700	€ 403,98	30DF0700	€ 469,14	DIN18970480	€ 21,96
20DF0450	€ 273,67	25DF0750	€ 456,11	30DF0750	€ 469,14	DIN18970490	€ 26,46
20DF0460	€ 273,67	25DF0780	€ 456,11	30DF0780	€ 521,27	DIN18970500	€ 25,16
20DF0480	€ 286,70	25DF0800	€ 456,11	30DF0800	€ 521,27	DIN18970510	€ 25,95
20DF0500	€ 286,70	25DF0850	€ 521,27	30DF0850	€ 586,43	DIN18970520	€ 25,95
20DF0550	€ 306,25	25DF0880	€ 547,33	30DF0880	€ 612,49	DIN18970530	€ 27,25
20DF0580	€ 306,25	25DF0900	€ 547,33	30DF0900	€ 612,49	DIN18970540	€ 29,46
20DF0600	€ 306,25	25DF0950	€ 547,33	30DF0950	€ 612,49	DIN18970550	€ 30,53
20DF0650	€ 312,76	25DF0980	€ 547,33	30DF0980	€ 612,49	DIN18970560	€ 30,92
20DF0680	€ 351,86	25DF1000	€ 547,33	30DF1000	€ 612,49	DIN18970570	€ 31,12
20DF0700	€ 351,86	25DF1020	€ 650,29			DIN18970580	€ 31,36
20DF0750	€ 390,95	25DF1080	€ 650,29	DIN18970200	€ 7,46	DIN18970590	€ 31,51
20DF0780	€ 390,95	25DF1180	€ 650,29	DIN18970210	€ 7,86	DIN18970600	€ 31,63
20DF0800	€ 390,95	25DF1200	€ 650,29	DIN18970220	€ 8,13	DIN18970610	€ 34,59
20DF0850	€ 430,05			DIN18970230	€ 8,21	DIN18970620	€ 35,66
20DF0880	€ 469,14	30DF0200	€ 195,48	DIN18970240	€ 9,40	DIN18970630	€ 35,66
20DF0900	€ 469,14	30DF0220	€ 195,48	DIN18970250	€ 9,64	DIN18970640	€ 36,80
20DF0980	€ 469,14	30DF0230	€ 195,48	DIN18970260	€ 10,23	DIN18970650	€ 38,11
20DF1000	€ 469,14	30DF0240	€ 195,48	DIN18970270	€ 10,66	DIN18970660	€ 38,15
20DF1020	€ 521,27	30DF0250	€ 195,48	DIN18970280	€ 11,18	DIN18970670	€ 39,06
20DF1080	€ 521,27	30DF0270	€ 195,48	DIN18970290	€ 11,85	DIN18970680	€ 44,19
20DF1180	€ 521,27	30DF0280	€ 195,48	DIN18970300	€ 11,77	DIN18970690	€ 44,58
20DF1200	€ 521,27	30DF0290	€ 195,48	DIN18970310	€ 13,39	DIN18970700	€ 44,11
		30DF0300	€ 364,89	DIN18970320	€ 13,11	DIN18970710	€ 44,78
25DF0300	€ 299,73	30DF0320	€ 364,89	DIN18970330	€ 13,31	DIN18970720	€ 45,06
25DF0320	€ 299,73	30DF0330	€ 390,95	DIN18970340	€ 13,98	DIN18970730	€ 45,14
25DF0330	€ 312,76	30DF0350	€ 390,95	DIN18970350	€ 14,14	DIN18970740	€ 45,26
25DF0350	€ 312,76	30DF0380	€ 390,95	DIN18970360	€ 15,12	DIN18970750	€ 45,97
25DF0380	€ 325,79	30DF0400	€ 390,95	DIN18970370	€ 15,09	DIN18970760	€ 50,51



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DIN18970770	€ 50,86	DIN3380280	€ 13,27	DIN3380670	€ 43,52	PC900300	€ 25,06
DIN18970780	€ 51,65	DIN3380290	€ 13,27	DIN3380680	€ 48,22	PC900400	€ 25,06
DIN18970790	€ 51,85	DIN3380300	€ 13,11	DIN3380690	€ 49,40	PC900500	€ 25,06
DIN18970800	€ 47,90	DIN3380310	€ 14,93	DIN3380700	€ 48,34	PC900600	€ 34,12
DIN18970810	€ 51,85	DIN3380320	€ 14,45	DIN3380710	€ 49,84	PC900800	€ 42,65
DIN18970820	€ 51,85	DIN3380330	€ 14,45	DIN3380720	€ 54,97	PC901000	€ 58,64
DIN18970830	€ 52,52	DIN3380340	€ 15,95	DIN3380730	€ 56,19	PC901200	€ 71,44
DIN18970840	€ 53,23	DIN3380350	€ 15,88	DIN3380740	€ 54,89	PC901600	€ 126,88
DIN18970850	€ 52,17	DIN3380360	€ 17,02	DIN3380750	€ 54,14	PC902000	€ 212,18
DIN18970860	€ 53,47	DIN3380370	€ 17,18	DIN3380760	€ 62,39		
DIN18970870	€ 60,74	DIN3380380	€ 18,36	DIN3380770	€ 62,83	PC1200300	€ 25,06
DIN18970880	€ 61,68	DIN3380390	€ 18,72	DIN3380780	€ 60,97	PC1200400	€ 25,06
DIN18970890	€ 62,16	DIN3380400	€ 19,03	DIN3380790	€ 61,76	PC1200500	€ 25,06
DIN18970900	€ 61,13	DIN3380410	€ 19,35	DIN3380800	€ 59,95	PC1200600	€ 34,12
DIN18970910	€ 65,67	DIN3380420	€ 19,11	DIN3380810	€ 70,21	PC1200800	€ 42,65
DIN18970920	€ 66,58	DIN3380430	€ 21,72	DIN3380820	€ 69,50	PC1201000	€ 58,64
DIN18970930	€ 67,45	DIN3380440	€ 21,76	DIN3380830	€ 70,06	PC1201200	€ 71,44
DIN18970940	€ 67,61	DIN3380450	€ 22,43	DIN3380840	€ 70,10	PC1201600	€ 126,88
DIN18970950	€ 67,13	DIN3380460	€ 22,55	DIN3380850	€ 68,00	PC1202000	€ 212,18
DIN18970960	€ 75,39	DIN3380470	€ 23,14	DIN3380860	€ 81,82		
DIN18970970	€ 72,46	DIN3380480	€ 26,42	DIN3380870	€ 81,67	DM04	€ 42,65
DIN18970980	€ 72,70	DIN3380490	€ 27,05	DIN3380880	€ 81,15	DM05	€ 44,78
DIN18970990	€ 73,77	DIN3380500	€ 26,18	DIN3380890	€ 82,89	DM06	€ 51,18
DIN18971000	€ 72,70	DIN3380510	€ 28,27	DIN3380900	€ 79,06	DM08	€ 63,97
DIN18971020	€ 83,13	DIN3380520	€ 28,71	DIN3380910	€ 83,68	DM10	€ 79,97
DIN18971030	€ 83,13	DIN3380530	€ 28,95	DIN3380920	€ 90,75	DM12	€ 99,16
DIN18971050	€ 82,77	DIN3380540	€ 32,38	DIN3380930	€ 89,96	DM14	€ 133,28
DIN18971110	€ 90,95	DIN3380550	€ 31,51	DIN3380940	€ 91,18	DM16	€ 170,60
DIN18971150	€ 108,91	DIN3380560	€ 32,58	DIN3380950	€ 88,06	DM18	€ 255,90
DIN18971200	€ 120,64	DIN3380570	€ 34,79	DIN3380960	€ 98,41	DM20	€ 287,88
		DIN3380580	€ 33,72	DIN3380970	€ 97,86		
DIN3380200	€ 8,96	DIN3380590	€ 34,55	DIN3380980	€ 95,45		
DIN3380210	€ 9,60	DIN3380600	€ 33,13	DIN3380990	€ 97,46		
DIN3380220	€ 10,31	DIN3380610	€ 39,92	DIN3381000	€ 93,39		
DIN3380230	€ 10,15	DIN3380620	€ 39,81	DIN3381020	€ 110,38		
DIN3380240	€ 11,29	DIN3380630	€ 40,20	DIN3381050	€ 109,31		
DIN3380250	€ 11,29	DIN3380640	€ 43,00	DIN3381100	€ 126,92		
DIN3380260	€ 12,04	DIN3380650	€ 41,98	DIN3381150	€ 139,40		
DIN3380270	€ 13,62	DIN3380660	€ 42,89	DIN3381200	€ 157,09		

