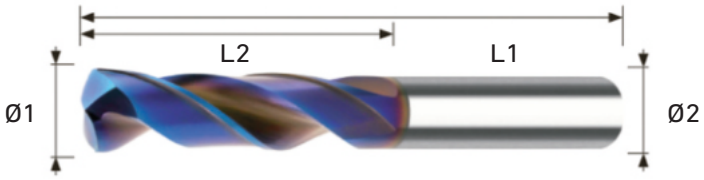
NT-DRILLING

NORMALTECH MF

PRODUZIONE E DISTRIBUZIONE UTENSILI AD ASPORTAZIONE TRUCIOLO

PUNTE MD INTEGRALE HIGH PERFORMANCE 4XD HPC PAG. 259
PUNTE MD INTEGRALE EXTRA CORTA HIGH PERFORMANCE PAG. 260
PUNTE MD INTEGRALE HIGH PERFORMANCE 3XD PAG. 261
PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD PAG. 266
PUNTE MD INTEGRALE HIGH PERFORMANCE 8XD PAG. 276
PUNTE PILOTA MD INTEGRALE HIGH PERFORMANCE 5XD PAG. 278
PUNTE MD INTEGRALE HIGH PERFORMANCE 12XD PAG. 279
PUNTE MD INTEGRALE HIGH PERFORMANCE 15XD PAG. 283
PUNTE MD INTEGRALE HIGH PERFORMANCE 20XD PAG. 285
PUNTE MD INTEGRALE HIGH PERFORMANCE 25XD PAG. 286
PUNTE MD INTEGRALE HIGH PERFORMANCE 30XD PAG. 287
PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD PAG. 288
PUNTE CENTRO CORTE MD INTEGRALE HIGH PERFORMANCE PAG. 290
PUNTE CENTRO EXTRA LUNGHE MD INTEGRALE HIGH PERFORMANCE PAG. 292
PUNTE SPECIALI MD HIGH PERFORMANCE PAG. 293
NOVITÀ FORATURA WCV - SPV - V130 PAG. 295
INSERTI PER FORATURA PAG. 301
PUNTE A CANNONE PAG. 302
ATTACCHI STANDARD PAG. 306
BUSSOLE ANTIVIBRANTI PAG. 308
DISCHI ANTIOLIO PAG. 309

810...



naco blue

HA

werks-norm

4xD

STEEL

HRC 55-60

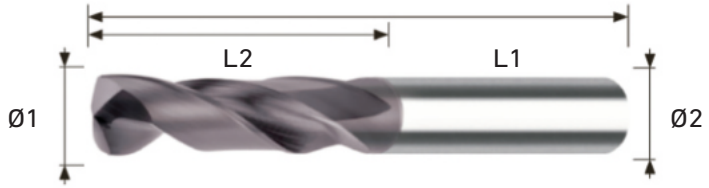
HRC 60-65

Universal

CODICE	Ø1	Ø2	L2	L1
810.028.00	2.80	6.00	20	62
810.030.00	3.00	6.00	20	62
810.033.00	3.30	6.00	20	62
810.034.00	3.40	6.00	20	62
810.035.00	3.50	6.00	20	62
810.038.00	3.80	6.00	24	66
810.040.00	4.00	6.00	24	66
810.042.00	4.20	6.00	24	66
810.043.00	4.30	6.00	24	66
810.045.00	4.50	6.00	24	66
810.048.00	4.80	6.00	28	66
810.050.00	5.00	6.00	28	66
810.052.00	5.20	6.00	28	66
810.055.00	5.50	6.00	28	66
810.058.00	5.80	6.00	28	66
810.060.00	6.00	6.00	28	66
810.065.00	6.50	8.00	34	79
810.068.00	6.80	8.00	34	79
810.070.00	7.00	8.00	34	79
810.072.00	7.20	8.00	41	79
810.078.00	7.80	8.00	41	79
810.080.00	8.00	8.00	41	79

CODICE	Ø1	Ø2	L2	L1
810.085.00	8.50	10.00	47	89
810.087.00	8.70	10.00	47	89
810.088.00	8.80	10.00	47	89
810.090.00	9.00	10.00	47	89
810.098.00	9.80	10.00	47	89
810.100.00	10.00	10.00	47	89
810.102.00	10.20	12.00	55	102
810.103.00	10.30	12.00	55	102
810.105.00	10.50	12.00	55	102
810.108.00	10.80	12.00	55	102
810.110.00	11.00	12.00	55	102
810.118.00	11.80	12.00	55	102
810.120.00	12.00	12.00	55	102
810.125.00	12.50	14.00	60	107
810.128.00	12.80	14.00	60	107
810.130.00	13.00	14.00	60	107
810.138.00	13.80	14.00	60	107
810.140.00	14.00	14.00	60	107
810.148.00	14.80	16.00	65	115
810.150.00	15.00	16.00	65	115
810.158.00	15.80	16.00	65	115
810.160.00	16.00	16.00	65	115

303...



Ø2 = GAMBO NOMINALE

TYP N-H
140°
2
30°
0. IK
h6
TIALN
HA
Universal

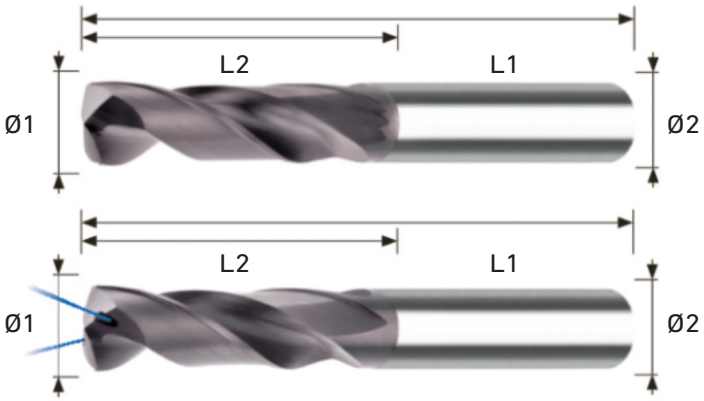
CODICE	Ø1	L2	L1
303.030.00	3.00	16	46
303.031.00	3.10	18	49
303.032.00	3.20	18	49
303.033.00	3.30	18	49
303.034.00	3.40	20	52
303.035.00	3.50	20	52
303.036.00	3.60	20	52
303.037.00	3.70	20	52
303.038.00	3.80	22	55
303.039.00	3.90	22	55
303.040.00	4.00	22	55
303.041.00	4.10	22	55
303.042.00	4.20	22	55
303.043.00	4.30	24	58
303.044.00	4.40	24	58
303.045.00	4.50	24	58
303.046.00	4.60	24	58
303.047.00	4.70	24	58
303.048.00	4.80	26	62
303.049.00	4.90	26	62
303.050.00	5.00	26	62
303.051.00	5.10	26	62
303.052.00	5.20	26	62
303.053.00	5.30	26	62
303.054.00	5.40	28	66
303.055.00	5.50	28	66
303.056.00	5.60	28	66
303.057.00	5.70	28	66
303.058.00	5.80	28	66
303.059.00	5.90	28	66
303.060.00	6.00	28	66

CODICE	Ø1	L2	L1
303.061.00	6.10	31	70
303.062.00	6.20	31	70
303.063.00	6.30	31	70
303.064.00	6.40	31	70
303.065.00	6.50	31	70
303.066.00	6.60	31	70
303.067.00	6.70	31	70
303.068.00	6.80	34	74
303.069.00	6.90	34	74
303.070.00	7.00	34	74
303.071.00	7.10	34	74
303.072.00	7.20	34	74
303.073.00	7.30	34	74
303.074.00	7.40	34	74
303.075.00	7.50	34	74
303.076.00	7.60	37	79
303.077.00	7.70	37	79
303.078.00	7.80	37	79
303.079.00	7.90	37	79
303.080.00	8.00	37	79
303.081.00	8.10	37	79
303.082.00	8.20	37	79
303.083.00	8.30	37	79
303.084.00	8.40	37	79
303.085.00	8.50	37	79
303.086.00	8.60	40	84
303.087.00	8.70	40	84
303.088.00	8.80	40	84
303.089.00	8.90	40	84
303.090.00	9.00	40	84
303.091.00	9.10	40	84

CODICE	Ø1	L2	L1
303.092.00	9.20	40	84
303.093.00	9.30	40	84
303.094.00	9.40	40	84
303.095.00	9.50	40	84
303.096.00	9.60	43	89
303.097.00	9.70	43	89
303.098.00	9.80	43	89
303.99.00	10.00	43	89
303.100.00	10.20	43	89
303.102.00	10.30	43	89
303.103.00	10.50	43	89
303.105.00	11.00	43	89
303.110.00	11.50	47	95
303.115.00	11.80	47	95
303.118.00	11.00	47	95
303.120.00	12.00	51	102
303.130.00	13.00	51	102
303.135.00	13.50	54	107
303.140.00	14.00	54	107
303.145.00	14.50	56	111
303.150.00	15.00	56	111
303.155.00	15.50	58	115
303.160.00	16.00	58	115
303.165.00	16.50	60	119
303.170.00	17.00	60	119
303.175.00	17.50	62	123
303.180.00	18.00	62	123
303.185.00	18.50	64	127
303.190.00	19.00	64	127
303.195.00	19.50	66	131
303.200.00	20.00	66	131

503...

703...



TYP N-H

140°

2

0. IK

m7

TIALN

HA

3xD

Universal

CODICE
503.030.00
503.031.00
503.032.00
503.033.00
503.034.00
503.035.00
503.036.00
503.037.00
503.038.00
503.039.00
503.040.00
503.041.00
503.042.00
503.043.00
503.044.00
503.045.00
503.046.00
503.047.00
503.048.00
503.049.00
503.050.00
503.051.00
503.052.00
503.053.00
503.054.00

TYP N-H

140°

2

IK

m7

TIALN

HA

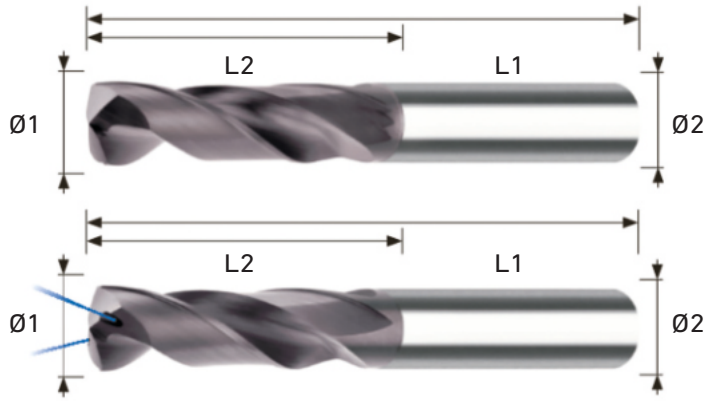
3xD

Universal

CODICE	Ø1	Ø2	L2	L1	NL
703.030.00	3.00	6.00	20	62	14
703.031.00	3.10	6.00	20	62	14
703.032.00	3.20	6.00	20	62	14
703.033.00	3.30	6.00	20	62	14
703.034.00	3.40	6.00	20	62	14
703.035.00	3.50	6.00	20	62	14
703.036.00	3.60	6.00	20	62	14
703.037.00	3.70	6.00	20	62	14
703.038.00	3.80	6.00	24	66	17
703.039.00	3.90	6.00	24	66	17
703.040.00	4.00	6.00	24	66	17
703.041.00	4.10	6.00	24	66	17
703.042.00	4.20	6.00	24	66	17
703.043.00	4.30	6.00	24	66	17
703.044.00	4.40	6.00	24	66	17
703.045.00	4.50	6.00	24	66	17
703.046.00	4.60	6.00	24	66	17
703.047.00	4.70	6.00	24	66	17
703.048.00	4.80	6.00	28	66	20
703.049.00	4.90	6.00	28	66	20
703.050.00	5.00	6.00	28	66	20
703.051.00	5.10	6.00	28	66	20
703.052.00	5.20	6.00	28	66	20
703.053.00	5.30	6.00	28	66	20
703.054.00	5.40	6.00	28	66	20

503...

703...

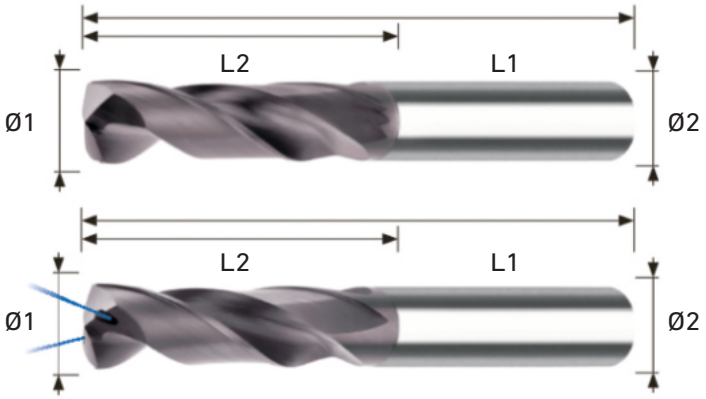


TYP N-H

CODICE	CODICE	Ø1	Ø2	L2	L1	NL
503.055.00	703.055.00	5.50	6.00	28	66	20
503.056.00	703.056.00	5.60	6.00	28	66	20
503.057.00	703.057.00	5.70	6.00	28	66	20
503.058.00	703.058.00	5.80	6.00	28	66	20
503.059.00	703.059.00	5.90	6.00	28	66	20
503.060.00	703.060.00	6.00	6.00	28	66	20
503.061.00	703.061.00	6.10	8.00	34	79	24
503.062.00	703.062.00	6.20	8.00	34	79	24
503.063.00	703.063.00	6.30	8.00	34	79	24
503.064.00	703.064.00	6.40	8.00	34	79	24
503.065.00	703.065.00	6.50	8.00	34	79	24
503.066.00	703.066.00	6.60	8.00	34	79	24
503.067.00	703.067.00	6.70	8.00	34	79	24
503.068.00	703.068.00	6.80	8.00	34	79	24
503.069.00	703.069.00	6.90	8.00	34	79	24
503.070.00	703.070.00	7.00	8.00	34	79	24
503.071.00	703.071.00	7.10	8.00	41	79	29
503.072.00	703.072.00	7.20	8.00	41	79	29
503.073.00	703.073.00	7.30	8.00	41	79	29
503.074.00	703.074.00	7.40	8.00	41	79	29
503.075.00	703.075.00	7.50	8.00	41	79	29
503.076.00	703.076.00	7.60	8.00	41	79	29
503.077.00	703.077.00	7.70	8.00	41	79	29
503.078.00	703.078.00	7.80	8.00	41	79	29
503.079.00	703.079.00	7.90	8.00	41	79	29

503...

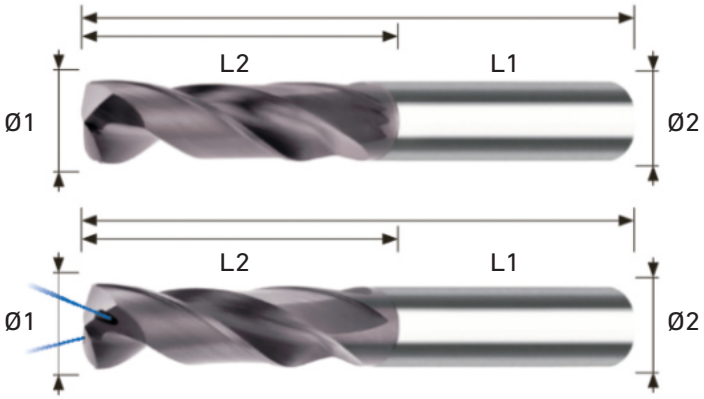
703...



TYP N-H	CODICE	TYP N-H	CODICE	Ø1	Ø2	L2	L1	NL
	503.080.00		703.080.00	8.00	8.00	41	79	29
140°	503.081.00	140°	703.081.00	8.10	10.00	47	35	35
	503.082.00		703.082.00	8.20	10.00	47	35	35
2	503.083.00	2	703.083.00	8.30	10.00	47	35	35
	503.084.00		703.084.00	8.40	10.00	47	35	35
0. IK	503.085.00	IK	703.085.00	8.50	10.00	47	35	35
	503.086.00		703.086.00	8.60	10.00	47	35	35
m7	503.087.00	m7	703.087.00	8.70	10.00	47	35	35
	503.088.00		703.088.00	8.80	10.00	47	35	35
TIALN	503.089.00	TIALN	703.089.00	8.90	10.00	47	35	35
	503.090.00		703.090.00	9.00	10.00	47	35	35
HA	503.091.00	HA	703.091.00	9.10	10.00	47	35	35
	503.092.00		703.092.00	9.20	10.00	47	35	35
3xD	503.093.00	3xD	703.093.00	9.30	10.00	47	35	35
	503.094.00		703.094.00	9.40	10.00	47	35	35
Universal	503.095.00	Universal	703.095.00	9.50	10.00	47	35	35
	503.096.00		703.096.00	9.60	10.00	47	35	35
	503.097.00		703.097.00	9.70	10.00	47	35	35
	503.098.00		703.098.00	9.80	10.00	47	35	35
	503.099.00		703.099.00	9.90	10.00	47	35	35
	503.100.00		703.100.00	10.00	10.00	47	35	35
	503.101.00		703.101.00	10.10	12.00	55	102	35
	503.102.00		703.102.00	10.20	12.00	55	102	40
	503.103.00		703.103.00	10.30	12.00	55	102	40
	503.104.00		703.104.00	10.40	12.00	55	102	40

503...

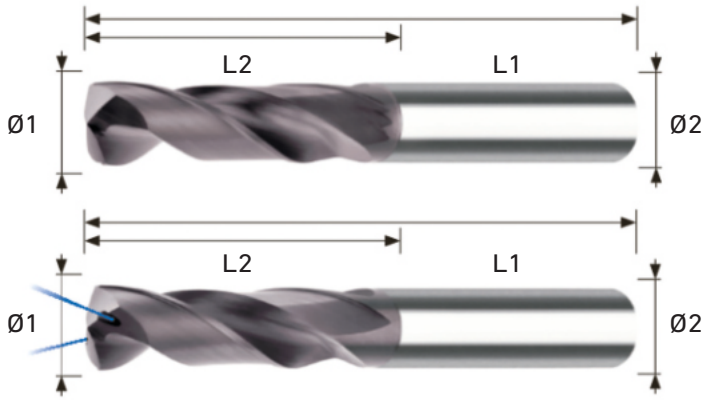
703...



TYP N-H	CODICE	TYP N-H	CODICE	Ø1	Ø2	L2	L1	NL
	503.105.00		703.105.00	10.50	12.00	55	102	40
140°	503.106.00	140°	703.106.00	10.60	12.00	55	102	40
	503.107.00		703.107.00	10.70	12.00	55	102	40
2	503.108.00	2	703.108.00	10.80	12.00	55	102	40
	503.109.00		703.109.00	10.90	12.00	55	102	40
0. IK	503.110.00	IK	703.110.00	11.00	12.00	55	102	40
	503.111.00		703.111.00	11.10	12.00	55	102	40
m7	503.112.00	m7	703.112.00	11.20	12.00	55	102	40
	503.113.00		703.113.00	11.30	12.00	55	102	40
TIALN	503.114.00	TIALN	703.114.00	11.40	12.00	55	102	40
	503.115.00		703.115.00	11.50	12.00	55	102	40
HA	503.116.00	HA	703.116.00	11.60	12.00	55	102	40
	503.117.00		703.117.00	11.70	12.00	55	102	40
3xD	503.118.00	3xD	703.118.00	11.80	12.00	55	102	40
	503.119.00		703.119.00	11.90	12.00	55	102	40
Universal	503.120.00	Universal	703.120.00	12.00	12.00	55	102	40
	503.123.00		703.123.00	12.30	14.00	60	107	43
	503.125.00		703.125.00	12.50	14.00	60	107	43
	503.128.00		703.128.00	12.80	14.00	60	107	43
	503.130.00		703.130.00	13.00	14.00	60	107	43
	503.135.00		703.135.00	13.50	14.00	60	107	43
	503.138.00		703.138.00	13.80	14.00	60	107	43
	503.140.00		703.140.00	14.00	14.00	60	107	43
	503.142.00		703.142.00	14.20	16.00	65	115	45
	503.145.00		703.145.00	14.50	16.00	65	115	45

503...

703...

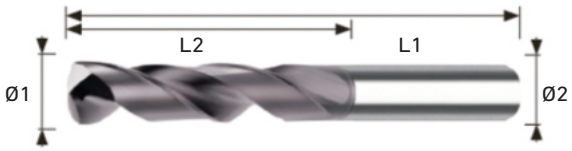


TYP N-H	CODICE
140°	503.148.00
	503.150.00
2	503.155.00
	503.158.00
0. IK	503.160.00
	503.165.00
m7	503.168.00
	503.170.00
TIALN	503.175.00
	503.178.00
HA	503.180.00
	503.185.00
3xD	503.190.00
	503.195.00
Universal	503.198.00
	503.200.00

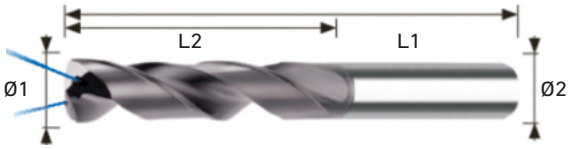
TYP N-H	CODICE	Ø1	Ø2	L2	L1	NL
140°	703.148.00	14.80	16.00	65	115	45
	703.150.00	15.00	16.00	65	115	45
2	703.155.00	15.50	16.00	65	115	45
	703.158.00	15.80	16.00	65	115	45
IK	703.160.00	16.00	16.00	65	115	45
	703.165.00	16.50	18.00	73	123	51
m7	703.168.00	16.80	18.00	73	123	51
	703.170.00	17.00	18.00	73	123	51
TIALN	703.175.00	17.50	18.00	73	123	51
	703.178.00	17.80	18.00	73	123	51
HA	703.180.00	18.00	18.00	73	123	51
	703.185.00	18.50	20.00	79	131	55
3xD	703.190.00	19.00	20.00	79	131	55
	703.195.00	19.50	20.00	79	131	55
Universal	703.198.00	19.80	20.00	79	131	55
	703.200.00	20.00	20.00	79	131	55

NT-DRILLING PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD

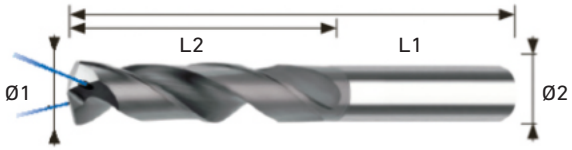
505...



705...

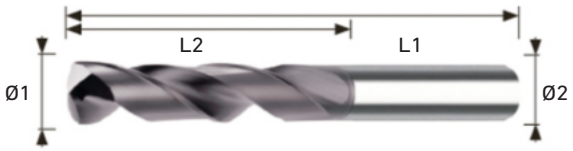


704...

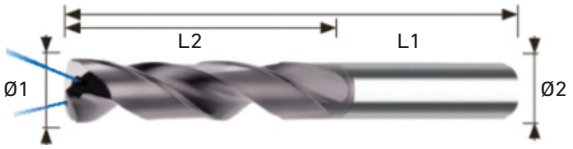


TYP N-H	CODICE	TYP N-H	CODICE	TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
	505.005					0.50	3.00	10	50	
140°	505.006	140°				0.60	3.00	10	50	
	505.007					0.70	3.00	10	50	
2	505.008	2				0.80	3.00	10	50	
	505.009					0.90	3.00	10	50	
0. IK	505.010	IK	705.010	IK	704.010.00	1.00	3.00	10	55	7
	505.011		705.011		704.011.00	1.10	3.00	12	55	10
m7	505.012	m7	705.012	m7	704.012.00	1.20	3.00	12	55	10
	505.013		705.013		704.013.00	1.30	3.00	12	55	10
TIALN	505.014	TIALN	705.014	ALTIN	704.014.00	1.40	3.00	12	55	10
	505.015		705.015		704.015.00	1.50	3.00	12	55	10
	505.016		705.016		704.016.00	1.60	3.00	16	55	13
HA	505.017	HA	705.017	HA	704.017.00	1.70	3.00	16	55	13
	505.018		705.018		704.018.00	1.80	3.00	16	55	13
5xD	505.019	5xD	705.019	5xD	704.019.00	1.90	3.00	16	55	13
	505.020		705.020		704.020.00	2.00	3.00	21	57	16
Universal	505.021	Universal	705.021	INOX VA	704.021.00	2.10	3.00	21	57	16
	505.022		705.022		704.022.00	2.20	3.00	21	57	16
	505.023		705.023		704.023.00	2.30	3.00	21	57	16
	505.024		705.024	Universal	704.024.00	2.40	3.00	21	57	16
	505.025		705.025		704.025.00	2.50	3.00	21	57	16
	505.026		705.026		704.026.00	2.60	3.00	21	57	19
	505.027		705.027		704.027.00	2.70	3.00	21	57	19
			705.275			2.75	3.00	21	57	19
	505.028		705.028		704.028.00	2.80	3.00	21	57	19
	505.029		705.029		704.029.00	2.90	3.00	21	57	18

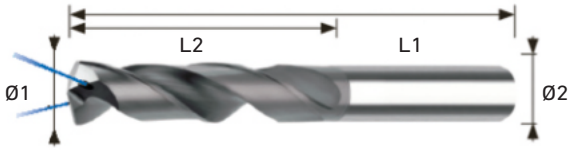
505...



705...



704...



TYP N-H	CODICE
	505.030
140°	505.031
	505.032
2	505.033
	505.034
0. IK	505.035
	505.036
m7	505.037
	505.038
TIALN	505.039
	505.040
	505.041
HA	505.042
	505.043
5xD	505.044
	505.045
Universal	505.046
	505.465
	505.047
	505.048
	505.049
	505.050
	505.051
	505.052
	505.053

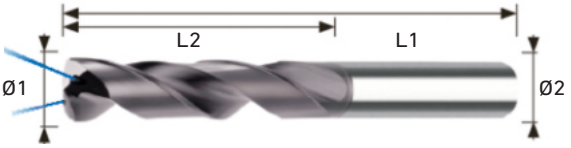
TYP N-H	CODICE
	705.030
140°	705.031
	705.032
2	705.033
	705.034
IK	705.035
	705.036
	705.365
m7	705.037
	705.038
TIALN	705.039
	705.040
	705.041
HA	705.042
	705.043
5xD	705.044
	705.045
Universal	705.046
	705.465
	705.047
	705.048
	705.049
	705.050
	705.051
	705.052
	705.053

TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
	704.030.00	3.00	6.00	28	66	23
140°	704.031.00	3.10	6.00	28	66	23
	704.032.00	3.20	6.00	28	66	23
2	704.033.00	3.30	6.00	28	66	23
	704.034.00	3.40	6.00	28	66	23
IK	704.035.00	3.50	6.00	28	66	23
	704.036.00	3.60	6.00	28	66	23
		3.65	6.00	28	66	23
m7	704.037.00	3.70	6.00	28	66	23
	704.038.00	3.80	6.00	36	74	29
ALTIN	704.039.00	3.90	6.00	36	74	29
	704.040.00	4.00	6.00	36	74	29
	704.041.00	4.10	6.00	36	74	29
HA	704.042.00	4.20	6.00	36	74	29
	704.043.00	4.30	6.00	36	74	29
5xD	704.044.00	4.40	6.00	36	74	29
INOX VA	704.045.00	4.50	6.00	36	74	29
	704.046.00	4.60	6.00	36	74	29
	704.465.00	4.65	6.00	36	74	29
Universal	704.047.00	4.70	6.00	36	74	29
	704.048.00	4.80	6.00	44	82	35
	704.049.00	4.90	6.00	44	82	35
	704.050.00	5.00	6.00	44	82	35
	704.051.00	5.10	6.00	44	82	35
	704.052.00	5.20	6.00	44	82	35
	704.053.00	5.30	6.00	44	82	35

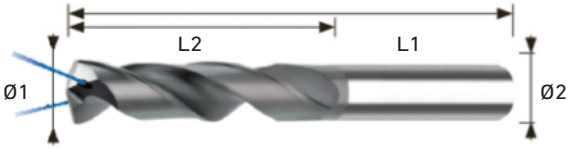
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705...



704...

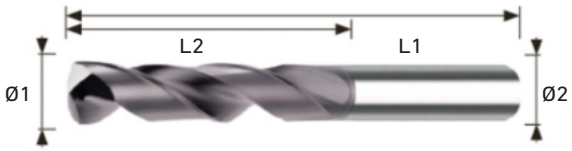


TYP N-H	CODICE
140°	505.054
2	505.055
0. IK	505.055
m7	505.056
TIALN	
HA	505.057
5xD	505.058
Universal	505.059
	505.060
	505.061
	505.062
	505.063
	505.064
	505.065
	505.066
	505.067
	505.068
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	505.072
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	505.074
	505.075
	505.076
	505.0767

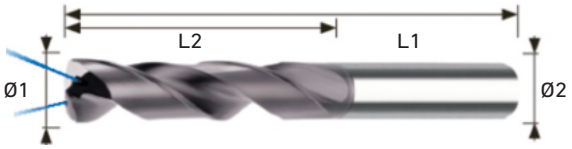
TYP N-H	CODICE
140°	705.054
2	705.055
IK	705.055
m7	705.056
TIALN	705.565
HA	705.057
5xD	705.058
Universal	705.059
	705.069
	705.061
	705.062
	705.063
	705.064
	705.065
	705.066
	705.067
	705.068
	705.069
	705.070
	705.071
	705.072
	705.073
	705.074
	705.075
	705.076
	705.765
	705.077

TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
140°	704.054.00	5.40	6.00	44	82	35
2	704.055.00	5.50	6.00	44	82	35
IK		5.55	6.00	44	82	35
m7	704.056.00	5.60	6.00	44	82	35
ALTIN		5.65	6.00	44	82	35
HA	704.057.00	5.70	6.00	44	82	35
5xD	704.058.00	5.80	6.00	44	82	35
INOX VA	704.059.00	5.90	6.00	44	82	35
Universal	704.060.00	6.00	6.00	44	82	35
	704.061.00	6.10	8.00	53	91	43
	704.062.00	6.20	8.00	53	91	43
	704.063.00	6.30	8.00	53	91	43
	704.064.00	6.40	8.00	53	91	43
	704.065.00	6.50	8.00	53	91	43
	704.066.00	6.60	8.00	53	91	43
	704.067.00	6.70	8.00	53	91	43
	704.068.00	6.80	8.00	53	91	43
	704.069.00	6.90	8.00	53	91	43
	704.070.00	7.00	8.00	53	91	43
	704.071.00	7.10	8.00	53	91	43
	704.072.00	7.20	8.00	53	91	43
	704.073.00	7.30	8.00	53	91	43
	704.074.00	7.40	8.00	53	91	43
	704.075.00	7.50	8.00	53	91	43
	704.076.00	7.60	8.00	53	91	43
		7.65	8.00	53	91	43
	704.077.00	7.70	8.00	53	91	43

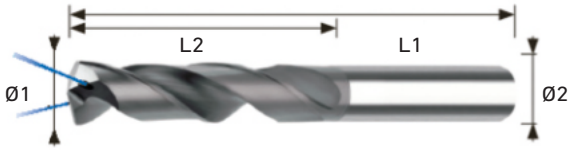
505...



705...



704...



TYP N-H	CODICE
	505.078
	505.079
	505.080
	505.081
	505.082
	505.083
	505.084
	505.085
	505.086
	505.087
	505.088
	505.089
	505.090
	505.091
	505.092
	505.093
	505.094
	505.095
	505.096
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	505.099
	505.100
	505.101
	505.102

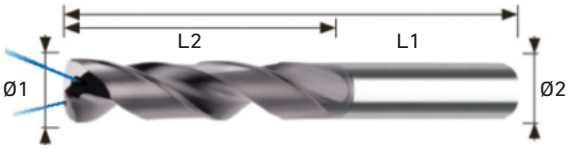
TYP N-H	CODICE
	705.078
	705.079
	705.080
	705.081
	705.082
	705.083
	705.084
	705.085
	705.086
	705.087
	705.088
	705.089
	705.090
	705.091
	705.092
	705.093
	705.094
	705.095
	705.955
	705.096
	705.097
	705.098
	705.099
	705.100
	705.101
	705.102

TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
	704.078.00	7.80	8.00	53	91	43
	704.079.00	7.90	8.00	53	91	43
	704.080.00	8.00	8.00	53	91	43
	704.081.00	8.10	10.00	61	103	49
	704.082.00	8.20	10.00	61	103	49
	704.083.00	8.30	10.00	61	103	49
	704.084.00	8.40	10.00	61	103	49
	704.085.00	8.50	10.00	61	103	49
	704.086.00	8.60	10.00	61	103	49
	704.087.00	8.70	10.00	61	103	49
	704.088.00	8.80	10.00	61	103	49
	704.089.00	8.90	10.00	61	103	49
	704.090.00	9.00	10.00	61	103	49
	704.091.00	9.10	10.00	61	103	49
	704.092.00	9.20	10.00	61	103	49
	704.093.00	9.30	10.00	61	103	49
	704.094.00	9.40	10.00	61	103	49
	704.095.00	9.50	10.00	61	103	49
		9.55	10.00	61	103	49
	704.096.00	9.60	10.00	61	103	49
	704.097.00	9.70	10.00	61	103	49
	704.098.00	9.80	10.00	61	103	49
	704.099.00	9.90	10.00	61	103	49
	704.100.00	10.00	10.00	61	103	49
	704.101.00	10.10	12.00	71	118	56
	704.102.00	10.20	12.00	71	118	56

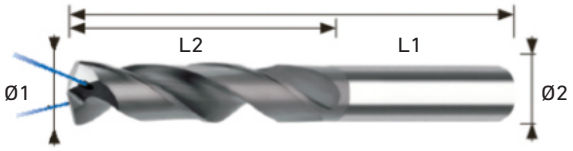
505...



705...



704...



TYP N-H	CODICE
	505.103
	505.104
	505.105
	505.106
	505.107
	505.108
	505.109
	505.110
	505.111
	505.112
	505.113
	505.114
	505.115
	505.116
	505.117
	505.118
	505.119
	505.120
	505.122
	505.123
	505.125
	505.128
	505.130
	505.135
	505.138

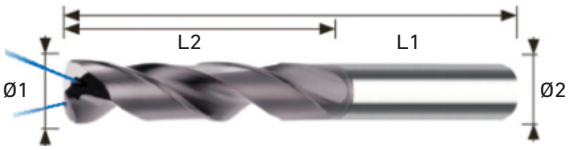
TYP N-H	CODICE
	705.103
	705.104
	705.105
	705.106
	705.107
	705.108
	705.109
	705.110
	705.111
	705.112
	705.113
	705.114
	705.115
	705.1155
	705.116
	705.117
	705.118
	705.119
	705.120
	705.122
	705.123
	705.125
	705.128
	705.130
	705.135
	705.138

TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
	704.103.00	10.30	12.00	71	118	56
	704.104.00	10.40	12.00	71	118	56
	704.105.00	10.50	12.00	71	118	56
	704.106.00	10.60	12.00	71	118	56
	704.107.00	10.70	12.00	71	118	56
	704.108.00	10.80	12.00	71	118	56
	704.109.00	10.90	12.00	71	118	56
	704.110.00	11.00	12.00	71	118	56
	704.111.00	11.10	12.00	71	118	56
	704.112.00	11.20	12.00	71	118	56
	704.113.00	11.30	12.00	71	118	56
	704.114.00	11.40	12.00	71	118	56
	704.115.00	11.50	12.00	71	118	56
		11.55	12.00	71	118	56
	704.116.00	11.60	12.00	71	118	56
	704.117.00	11.70	12.00	71	118	56
	704.118.00	11.80	12.00	71	118	56
	704.119.00	11.90	12.00	71	118	56
	704.120.00	12.00	12.00	71	118	56
	704.122.00	12.20	14.00	77	124	60
	704.123.00	12.30	14.00	77	124	60
	704.125.00	12.50	14.00	77	124	60
	704.128.00	12.80	14.00	77	124	60
	704.130.00	13.00	14.00	77	124	60
	704.135.00	13.50	14.00	77	124	60
	704.138.00	13.80	14.00	77	124	60

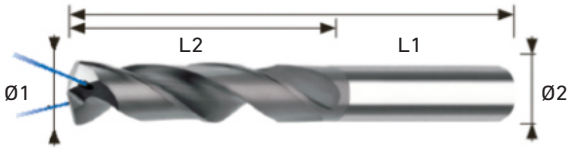
505...



705...



704...



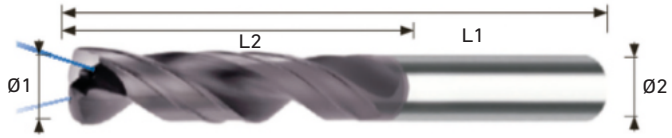
TYP N-H	CODICE
	505.140
140°	505145
	505.148
2	505.150
	505.155
0. IK	505.158
	505.160
m7	505.165
	505.168
TIALN	505.170
	505.175
HA	505.178
	505.180
5xD	505.185
	505.190
Universal	505.195
	505.200

TYP N-H	CODICE
	705.140
140°	705.145
	705.148
2	705.150
	705.151
IK	705.155
	705.158
m7	705.160
	705.165
TIALN	705.168
	705.170
HA	705.175
	705.178
5xD	705.180
	705.185
Universal	705.190
	705.195
	705.200

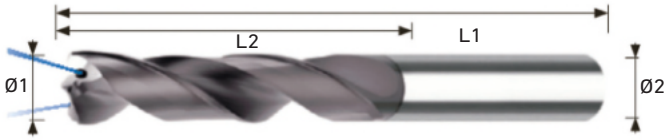
TYP N-W	CODICE	Ø1	Ø2	L2	L1	NL
	704.140.00	14.00	14.00	77	124	60
140°	704.145.00	14.50	16.00	83	133	63
	704.148.00	14.80	16.00	83	133	63
2	704.150.00	15.00	16.00	83	133	63
		15.10	16.00	83	133	63
IK	704.155.00	15.50	16.00	83	133	63
	704.158.00	15.80	16.00	83	133	63
m7	704.160.00	16.00	18.00	83	133	63
	704.165.00	16.50	18.00	93	143	71
ALTIN	704.168.00	16.80	18.00	93	143	71
	704.170.00	17.00	18.00	93	143	71
HA	704.175.00	17.50	18.00	93	143	71
	704.178.00	17.80	18.00	93	143	71
5xD	704.180.00	18.00	20.00	93	143	71
	704.185.00	18.50	20.00	101	153	77
INOX VA	704.190.00	19.00	20.00	101	153	77
	704.195.00	19.50	20.00	101	153	77
Universal	704.200.00	20.00	20.00	101	153	77

NT-DRILLING PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD

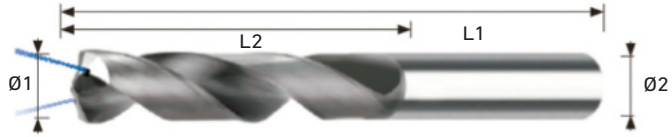
805...



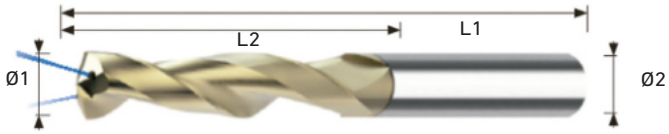
845...



905...



706...



TYP N-H	CODICE
	805.030.00
140°	805.031.00
	805.032.00
2	805.033.00
	805.034.00
IK	805.035.00
	805.036.00
5xD	805.037.00
	805.038.00
HPC	805.039.00
	805.040.00
m7	805.041.00
	805.042.00
TIALN	805.043.00
	805.044.00
HA	805.045.00
	805.046.00
Universal	
	805.047.00
4 Fasi	805.048.00
	805.049.00
	805.050.00
	805.051.00
	805.052.00
	805.053.00
	805.054.00
	805.055.00
	805.056.00

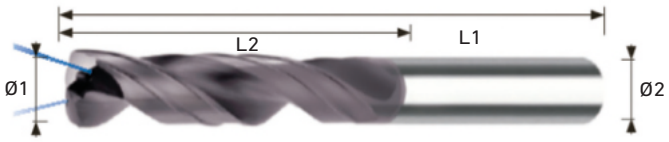
TYP N	CODICE
	905.030.00
140°	905.031.00
	905.032.00
2	905.033.00
	905.034.00
IK	905.035.00
	905.036.00
5xD	905.037.00
	905.038.00
HPC	905.039.00
	905.040.00
m7	905.041.00
	905.042.00
nacro	905.043.00
	905.044.00
HA	905.045.00
	905.046.00
Universal	905.465.00
	905.047.00
3 Fasi	905.048.00
	905.049.00
	905.050.00
	905.051.00
	905.052.00
	905.053.00
	905.054.00
	905.055.00
	905.555.00
	905.056.00

TYP N	CODICE
	845.030.00
140°	845.031.00
	845.032.00
2	845.033.00
	845.034.00
IK	845.035.00
	845.036.00
5xD	845.037.00
	845.038.00
HPC	845.039.00
	845.040.00
m7	845.041.00
	845.042.00
TIALN	845.043.00
	845.044.00
HA	845.045.00
	845.046.00
INOX VA	845.465.00
	845.047.00
Universal	845.048.00
	845.049.00
	845.050.00
	845.051.00
	845.052.00
	845.053.00
	845.054.00
	845.055.00
	845.056.00

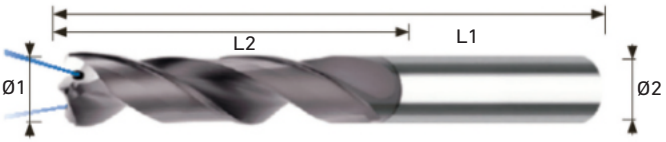
TYP W	CODICE	Ø1	Ø2	L2	L1	NL
	706.030.00	3.00	6.00	28	66	23
140°	706.031.00	3.10	6.00	28	66	23
	706.032.00	3.20	6.00	28	66	23
2	706.033.00	3.30	6.00	28	66	23
	706.034.00	3.40	6.00	28	66	23
IK	706.035.00	3.50	6.00	28	66	23
	706.036.00	3.60	6.00	28	66	23
5xD	706.037.00	3.70	6.00	28	66	23
	706.038.00	3.80	6.00	36	74	29
HPC	706.039.00	3.90	6.00	36	74	29
	706.040.00	4.00	6.00	36	74	29
m7	706.041.00	4.10	6.00	36	74	29
	706.042.00	4.20	6.00	36	74	29
ZrN	706.043.00	4.30	6.00	36	74	29
	706.044.00	4.40	6.00	36	74	29
HA	706.045.00	4.50	6.00	36	74	29
	706.046.00	4.60	6.00	36	74	29
	706.465.00	4.65	6.00	36	74	29
ALU NE	704.047.00	4.70	6.00	36	74	29
	704.048.00	4.80	6.00	44	82	35
	706.049.00	4.90	6.00	44	82	35
Plastic	706.050.00	5.00	6.00	44	82	35
	706.051.00	5.10	6.00	44	82	35
	706.052.00	5.20	6.00	44	82	35
	706.053.00	5.30	6.00	44	82	35
	706.054.00	5.40	6.00	44	82	35
	706.055.00	5.50	6.00	44	82	35
		5.50	6.00	44	82	35
	706.056.00	5.60	6.00	44	82	35

NT-DRILLING PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD

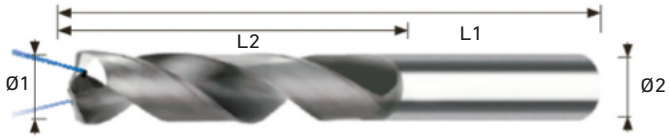
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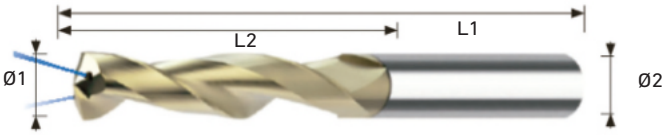
845...



905...



706...



TYP N-H	CODICE
140°	805.057.00
	805.058.00
	805.059.00
	805.060.00
	805.061.00
	805.062.00
IK	805.063.00
	805.064.00
5xD	805.065.00
	805.066.00
HPC	805.067.00
	805.068.00
	805.069.00
m7	805.070.00
	805.071.00
TIALN	805.072.00
	805.073.00
HA	805.074.00
	805.075.00
	805.076.00
Universal	805.077.00
	805.078.00
4 Fasi	805.079.00
	805.080.00
	805.081.00
	805.082.00
	805.083.00
	805.084.00
	805.085.00
	805.086.00

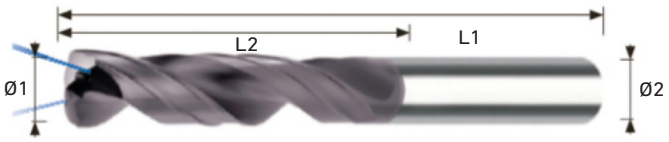
TYP N	CODICE
140°	905.057.00
	905.058.00
	905.059.00
2	905.060.00
	905.061.00
	905.062.00
IK	905.063.00
	905.064.00
5xD	905.065.00
	905.066.00
HPC	905.067.00
	905.068.00
	905.069.00
m7	905.070.00
	905.071.00
nacro	905.072.00
	905.073.00
HA	905.074.00
	905.075.00
	905.076.00
Universal	905.077.00
	905.078.00
3 Fasi	905.079.00
	905.080.00
	905.081.00
	905.082.00
	905.083.00
	905.084.00
	905.085.00
	905.086.00

TYP N	CODICE
140°	845.057.00
	845.058.00
	845.059.00
2	845.060.00
	845.061.00
	845.062.00
IK	845.063.00
	845.064.00
5xD	845.065.00
	845.066.00
HPC	845.067.00
	845.068.00
	845.069.00
m7	845.070.00
	845.071.00
TIALN	845.072.00
	845.073.00
HA	845.074.00
	845.075.00
	845.076.00
INOX VA	845.077.00
	845.078.00
Universal	845.079.00
	845.080.00
	845.081.00
	845.082.00
	845.083.00
	845.084.00
	845.085.00
	845.086.00

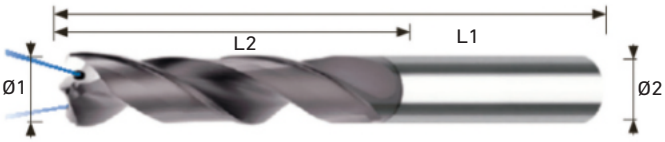
TYP W	CODICE	Ø1	Ø2	L2	L1	NL
140°	706.057.00	5.70	6.00	44	82	35
	706.058.00	5.80	6.00	44	82	35
	706.059.00	5.90	6.00	44	82	35
2	706.060.00	6.00	6.00	44	82	35
	706.061.00	6.10	8.00	53	91	43
	706.062.00	6.20	8.00	53	91	43
IK	706.063.00	6.30	8.00	53	91	43
	706.064.00	6.40	8.00	53	91	43
5xD	706.065.00	6.50	8.00	53	91	43
	706.066.00	6.60	8.00	53	91	43
HPC	706.067.00	6.70	8.00	53	91	43
	706.068.00	6.80	8.00	53	91	43
	706.069.00	6.90	8.00	53	91	43
m7	706.070.00	7.00	8.00	53	91	43
	706.071.00	7.10	8.00	53	91	43
ZrN	706.072.00	7.20	8.00	53	91	43
	706.073.00	7.30	8.00	53	91	43
HA	706.074.00	7.40	8.00	53	91	43
	704.075.00	7.50	8.00	53	91	43
	704.076.00	7.60	8.00	53	91	43
ALU NE	706.077.00	7.70	8.00	53	91	43
	706.078.00	7.80	8.00	53	91	43
Plastic	706.079.00	7.90	8.00	53	91	43
	706.080.00	8.00	8.00	53	91	43
	706.081.00	8.10	10.00	61	103	49
	706.082.00	8.20	10.00	61	103	49
	706.083.00	8.30	10.00	61	103	49
	706.084.00	8.40	10.00	61	103	49
	706.085.00	8.50	10.00	61	103	49
	706.086.00	8.60	10.00	61	103	49

NT-DRILLING PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD

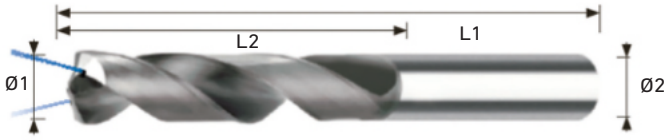
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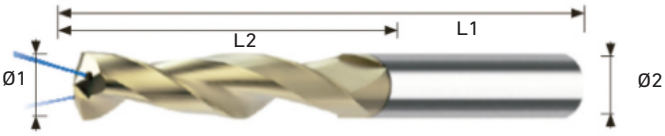
845...



905...



706...



TYP N-H	CODICE
140°	805.087.00
	805.088.00
	805.089.00
	805.090.00
	805.091.00
	805.092.00
IK	805.093.00
	805.094.00
5xD	805.095.00
	805.096.00
HPC	805.097.00
	805.098.00
	805.099.00
m7	805.100.00
	805.101.00
TIALN	805.102.00
	805.103.00
HA	805.104.00
	805.105.00
	805.106.00
Universal	805.107.00
	805.108.00
4 Fasi	805.109.00
	805.110.00
	805.111.00
	805.112.00
	805.113.00
	805.114.00
	805.115.00
	805.116.00

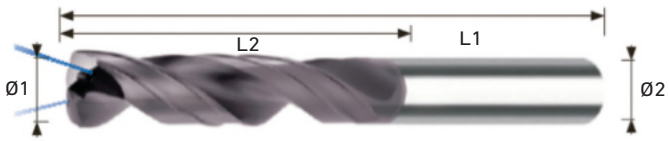
TYP N	CODICE
140°	905.087.00
	905.088.00
	905.089.00
2	905.090.00
	905.091.00
	905.092.00
IK	905.093.00
	905.094.00
5xD	905.095.00
	905.096.00
HPC	905.097.00
	905.098.00
	905.099.00
m7	905.100.00
	905.101.00
nacro	905.102.00
	905.103.00
HA	905.104.00
	905.105.00
	905.106.00
Universal	905.107.00
	905.108.00
3 Fasi	905.109.00
	905.110.00
	905.111.00
	905.112.00
	905.113.00
	905.114.00
	905.115.00
	905.116.00

TYP N	CODICE
140°	845.087.00
	845.088.00
	845.089.00
2	845.090.00
	845.091.00
	845.092.00
IK	845.093.00
	845.094.00
5xD	845.095.00
	845.096.00
HPC	845.097.00
	845.098.00
	845.099.00
m7	845.100.00
	845.101.00
TIALN	845.102.00
	845.103.00
HA	845.104.00
	845.105.00
	845.106.00
INOX VA	845.107.00
	845.108.00
Universal	845.109.00
	845.110.00
	845.111.00
	845.112.00
	845.113.00
	845.114.00
	845.115.00
	845.116.00

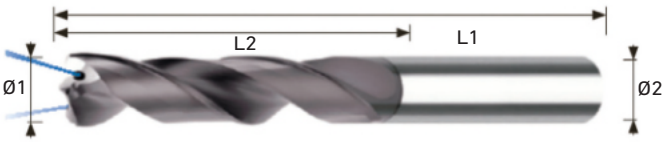
TYP W	CODICE	Ø1	Ø2	L2	L1	NL
140°	706.087.00	8.70	10.00	61	103	49
	706.088.00	8.80	10.00	61	103	49
	706.089.00	8.90	10.00	61	103	49
	706.090.00	9.00	10.00	61	103	49
	706.091.00	9.10	10.00	61	103	49
	706.092.00	9.20	10.00	61	103	49
IK	706.093.00	9.30	10.00	61	103	49
	706.094.00	9.40	10.00	61	103	49
5xD	706.095.00	9.50	10.00	61	103	49
	706.096.00	9.60	10.00	61	103	49
HPC	706.097.00	9.70	10.00	61	103	49
	706.098.00	9.80	10.00	61	103	49
	706.099.00	9.90	10.00	61	103	49
m7	706.100.00	10.00	10.00	61	103	49
	706.101.00	10.10	12.00	71	118	56
ZrN	706.102.00	10.20	12.00	71	118	56
	706.103.00	10.30	12.00	71	118	56
HA	706.104.00	10.40	12.00	71	118	56
	704.105.00	10.50	12.00	71	118	56
	704.106.00	10.60	12.00	71	118	56
ALU NE	706.107.00	10.70	12.00	71	118	56
	706.108.00	10.80	12.00	71	118	56
	706.109.00	10.90	12.00	71	118	56
Plastic	706.110.00	11.00	12.00	71	118	56
	706.111.00	11.10	12.00	71	118	56
	706.112.00	11.20	12.00	71	118	56
	706.113.00	11.30	12.00	71	118	56
	706.114.00	11.40	12.00	71	118	56
	706.115.00	11.50	12.00	71	118	56
	706.116.00	11.60	12.00	71	118	56

NT-DRILLING PUNTE MD INTEGRALE HIGH PERFORMANCE 5XD

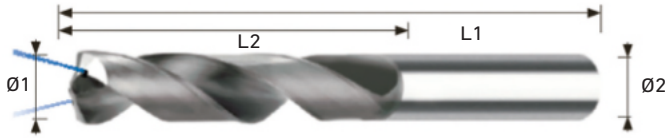
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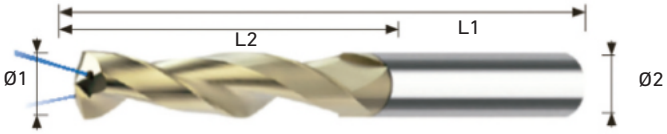
845...



905...



706...



TYP N-H	CODICE
140°	805.117.00
	805.118.00
	805.119.00
	805.120.00
	805.122.00
	805.123.00
IK	805.125.00
	805.128.00
5xD	805.130.00
	805.135.00
HPC	805.138.00
	805.140.00
	805.145.00
m7	805.148.00
	805.150.00
TIALN	805.155.00
	805.158.00
HA	805.160.00
	805.165.00
Universal	805.168.00
	805.170.00
	805.175.00
4 Fasi	805.178.00
	805.180.00
	805.185.00
	805.190.00
	805.195.00
	805.200.00

TYP N	CODICE
140°	905.117.00
	905.118.00
	905.119.00
	905.120.00
2	905.122.00
	905.123.00
IK	905.125.00
	905.128.00
5xD	905.130.00
	905.135.00
HPC	905.138.00
	905.140.00
	905.145.00
m7	905.148.00
	905.150.00
nacro	905.155.00
	905.158.00
HA	905.160.00
	905.165.00
Universal	905.168.00
	905.170.00
	905.175.00
3 Fasi	905.178.00
	905.180.00
	905.185.00
	905.190.00
	905.195.00
	905.200.00

TYP N	CODICE
140°	845.117.00
	845.118.00
	845.119.00
	845.120.00
2	845.122.00
	845.123.00
IK	845.125.00
	845.128.00
5xD	845.130.00
	845.135.00
HPC	845.138.00
	845.140.00
	845.145.00
m7	845.148.00
	845.150.00
TIALN	845.155.00
	845.158.00
HA	845.160.00
	845.165.00
INOX VA	845.168.00
	845.170.00
	845.175.00
Universal	845.178.00
	845.180.00
	845.185.00
	845.190.00
	845.195.00
	845.200.00

TYP W	CODICE	Ø1	Ø2	L2	L1	NL
140°	706.117.00	11.70	12.00	71	118	56
	706.118.00	11.80	12.00	71	118	56
	706.119.00	11.90	12.00	71	118	56
	706.120.00	12.00	12.00	71	118	56
	706.122.00	12.20	14.00	77	124	60
	706.123.00	12.30	14.00	77	124	60
IK	706.125.00	12.50	14.00	77	124	60
	706.128.00	12.80	14.00	77	124	60
5xD	706.130.00	13.00	14.00	77	124	60
	706.135.00	13.50	14.00	77	124	60
HPC	706.138.00	13.80	14.00	77	124	60
	706.140.00	14.00	14.00	77	124	60
	706.145.00	14.50	16.00	83	133	63
m7	706.148.00	14.80	16.00	83	133	63
	706.150.00	15.00	16.00	83	133	63
ZrN	706.155.00	15.50	16.00	83	133	63
	706.158.00	15.80	16.00	83	133	63
HA	706.160.00	16.00	16.00	83	133	63
	704.165.00	16.50	18.00	93	143	71
ALU NE	704.168.00	16.80	18.00	93	143	71
	706.170.00	17.00	18.00	93	143	71
	706.175.00	17.50	18.00	93	143	71
Plastic	706.178.00	17.80	18.00	93	143	71
	706.180.00	18.00	18.00	93	143	72
	706.185.00	18.50	20.00	101	153	77
	706.190.00	19.00	20.00	101	153	77
	706.195.00	19.50	20.00	101	153	77
	706.200.00	20.00	20.00	101	153	77

708...



TYP N-H

140°

2

IK

h7

TIALN

HA

8xD

Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1	NL
708.010	1.00	3.00	11	55	9.0
708.011	1.10	3.00	17	55	13.5
708.012	1.20	3.00	17	55	13.5
708.013	1.30	3.00	17	55	13.5
708.014	1.40	3.00	17	55	13.5
708.015	1.50	3.00	22	65	17.5
708.016	1.60	3.00	22	65	17.5
708.017	1.70	3.00	22	65	17.5
708.018	1.80	3.00	22	65	17.5
708.019	1.90	3.00	22	65	17.5
708.020	2.00	3.00	28	74	22.5
708.021	2.10	3.00	28	74	22.5
708.022	2.20	3.00	28	74	22.5
708.023	2.30	3.00	28	74	22.5
708.024	2.40	3.00	28	74	22.5
708.025	2.50	3.00	32	81	22.5
708.026	2.60	3.00	32	81	22.5
708.027	2.70	3.00	32	81	22.5
708.028	2.80	3.00	32	81	22.5
708.029	2.90	3.00	32	81	22.5
708.030	3.00	6.00	34	72	27
708.031	3.10	6.00	34	72	27
708.032	3.20	6.00	34	72	27
708.033	3.30	6.00	34	72	27
708.034	3.40	6.00	34	72	27
708.035	3.50	6.00	34	72	27
708.036	3.60	6.00	34	72	27
708.037	3.70	6.00	34	72	27
708.038	3.80	6.00	43	81	35
708.039	3.90	6.00	43	81	35
708.040	4.00	6.00	43	81	35
708.041	4.10	6.00	43	81	35
708.042	4.20	6.00	43	81	35
708.043	4.30	6.00	43	81	35
708.044	4.40	6.00	43	81	35

CODICE	Ø1	Ø2	L2	L1	NL
708.045	4.50	6.00	43	81	35
708.046	4.60	6.00	43	81	35
708.047	4.70	6.00	57	95	35
708.048	4.80	6.00	57	95	45
708.049	4.90	6.00	57	95	45
708.050	5.00	6.00	57	95	45
708.051	5.10	6.00	57	95	45
708.052	5.20	6.00	57	95	45
708.053	5.30	6.00	57	95	45
708.054	5.40	6.00	57	95	45
708.055	5.50	6.00	57	95	45
708.056	5.60	6.00	57	95	45
708.057	5.70	6.00	57	95	45
708.058	5.80	6.00	57	95	45
708.059	5.90	6.00	57	95	45
708.060	6.00	6.00	57	95	45
708.061	6.10	8.00	76	114	52
708.062	6.20	8.00	76	114	52
708.063	6.30	8.00	76	114	52
708.064	6.40	8.00	76	114	52
708.065	6.50	8.00	76	114	52
708.066	6.60	8.00	76	114	52
708.067	6.70	8.00	76	114	52
708.068	6.80	8.00	76	114	52
708.069	6.90	8.00	76	114	52
708.070	7.00	8.00	76	114	60
708.071	7.10	8.00	76	114	60
708.072	7.20	8.00	76	114	60
708.073	7.30	8.00	76	114	60
708.074	7.40	8.00	76	114	60
708.075	7.50	8.00	76	114	60
708.076	7.60	8.00	76	114	60
708.077	7.70	8.00	76	114	60
708.078	7.80	8.00	76	114	60
708.079	7.90	8.00	76	114	60

708...



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8xD

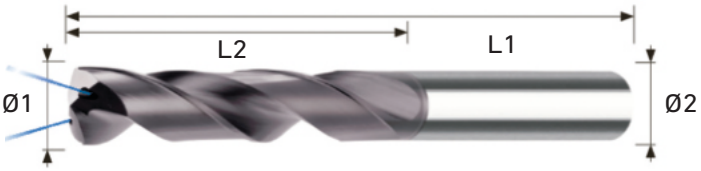
Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1	NL
708.080	8.00	8.00	76	114	60
708.081	8.10	10.00	95	142	68
708.082	8.20	10.00	95	142	68
708.083	8.30	10.00	95	142	68
708.084	8.40	10.00	95	142	68
708.085	8.50	10.00	95	142	68
708.086	8.60	10.00	95	142	68
708.087	8.70	10.00	95	142	68
708.088	8.80	10.00	95	142	68
708.089	8.90	10.00	95	142	68
708.090	9.00	10.00	95	142	68
708.091	9.10	10.00	95	142	76
708.092	9.20	10.00	95	142	76
708.093	9.30	10.00	95	142	76
708.094	9.40	10.00	95	142	76
708.095	9.50	10.00	95	142	76
708.096	9.60	10.00	95	142	76
708.097	9.70	10.00	95	142	76
708.098	9.80	10.00	95	142	76
708.099	9.90	10.00	95	142	76
708.100	10.00	10.00	95	142	76
708.101	10.10	12.00	114	162	90
708.102	10.20	12.00	114	162	90
708.103	10.30	12.00	114	162	90
708.104	10.40	12.00	114	162	90
708.105	10.50	12.00	114	162	90
708.106	10.60	12.00	114	162	90
708.107	10.70	12.00	114	162	90
708.108	10.80	12.00	114	162	90
708.109	10.90	12.00	114	162	90

CODICE	Ø1	Ø2	L2	L1	NL
708.110	11.00	12.00	114	162	90
708.111	11.10	12.00	114	162	90
708.112	11.20	12.00	114	162	90
708.113	11.30	12.00	114	162	90
708.114	11.40	12.00	114	162	
708.115	11.50	12.00	114	162	90
708.116	11.60	12.00	114	162	90
708.117	11.70	12.00	114	162	90
708.118	11.80	12.00	114	162	90
708.119	11.90	12.00	114	162	90
708.120	12.00	12.00	114	162	90
708.125	12.50	14.00	133	178	106
708.128	12.80	14.00	133	178	106
708.130	13.00	14.00	133	178	106
708.135	13.50	14.00	133	178	106
708.140	14.00	14.00	133	178	106
708.145	14.50	16.00	152	203	122
708.150	15.00	16.00	152	203	122
708.155	15.50	16.00	152	203	122
708.160	16.00	16.00	152	203	122
708.165	16.50	18.00	171	222	150
708.170	17.00	18.00	171	222	150
708.175	17.50	18.00	171	222	150
708.180	18.00	18.00	171		150
708.185	18.50	20.00	190	243	170
708.190	19.00	20.00	190		170
708.200	20.00	20.00	190	243	170

705...



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CODICE	Ø1	Ø2	L2	L1	Z
705.202	2.02	3.00	16	57	2
705.222	2.22	3.00	21	57	2
705.232	2.32	3.00	21	57	2
705.242	2.42	3.00	21	57	2
705.252	2.52	3.00	21	57	2
705.272	2.72	3.00	21	57	2
705.282	2.82	3.00	21	57	2
705.302	3.02	6.00	28	66	2
705.322	3.22	6.00	28	66	2
705.332	3.32	6.00	28	66	2
705.352	3.52	6.00	28	66	2
705.382	3.82	6.00	36	74	2
705.402	4.02	6.00	36	74	2
705.422	4.22	6.00	36	74	2
705.452	4.52	6.00	36	74	2
705.482	4.82	6.00	44	82	2
705.502	5.02	6.00	44	82	2
705.552	5.52	6.00	44	82	2

CODICE	Ø1	Ø2	L2	L1	Z
705.582	5.82	6.00	44	82	2
705.602	6.02	6.00	44	82	2
705.652	6.52	8.00	53	91	2
705.682	6.82	8.00	53	91	2
705.702	7.02	8.00	53	91	2
705.752	7.52	8.00	53	91	2
705.782	7.82	8.00	53	91	2
705.802	8.03	8.00	53	91	2
705.852	8.52	10.00	61	103	2
705.882	8.82	10.00	61	103	2
705.902	9.02	10.00	61	103	2
705.982	9.82	10.00	61	103	2
705.983	10.02	10.00	61	103	2
705.984	10.22	12.00	71	118	2
705.985	10.82	12.00	71	118	2
705.986	11.82	12.00	71	118	2
705.987	12.02	12.00	71	118	2

710...



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Universal

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CODICE	Ø1	Ø2	L2	L1	NL
710.010.00	1.00	3.00	15	55	12.0
710.011.00	1.10	3.00	23	55	18.5
710.012.00	1.20	3.00	23	55	18.5
710.013.00	1.30	3.00	23	55	18.5
710.014.00	1.40	3.00	23	55	18.5
710.015.00	1.50	3.00	30	65	24.0
710.016.00	1.60	3.00	30	65	24.0
710.017.00	1.70	3.00	30	65	24.0
710.018.00	1.80	3.00	30	65	24.0
710.019.00	1.90	3.00	30	65	24.0
710.020.00	2.00	3.00	38	74	24.0
710.021.00	2.10	3.00	38	74	30.5
710.022.00	2.20	3.00	38	74	30.5
710.023.00	2.30	3.00	38	74	30.5
710.024.00	2.40	3.00	38	74	30.5
710.025.00	2.50	3.00	44	81	35.0
710.026.00	2.60	3.00	44	81	35.0
710.027.00	2.70	3.00	44	81	35.0
710.028.00	2.80	3.00	44	81	35.0
710.029.00	2.90	3.00	44	81	35.0
710.030.00	3.00	6.00	54	92	48.0
710.031.00	3.10	6.00	54	92	48.0
710.032.00	3.20	6.00	54	92	48.0
710.033.00	3.30	6.00	54	92	48.0
710.034.00	3.40	6.00	54	92	48.0
710.035.00	3.50	6.00	54	92	48.0
710.036.00	3.60	6.00	54	92	48.0
710.037.00	3.70	6.00	54	92	48.0
710.038.00	3.80	6.00	64	102	58.0
710.039.00	3.90	6.00	64	102	58.0
710.040.00	4.00	6.00	64	102	58.0
710.041.00	4.10	6.00	64	102	58.0
710.042.00	4.20	6.00	64	102	58.0

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Universal

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CODICE	Ø1	Ø2	L2	L1	NL
710.043.00	4.30	6.00	64	102	58
710.044.00	4.40	6.00	64	102	58
710.045.00	4.50	6.00	64	102	58
710.046.00	4.60	6.00	64	102	58
710.047.00	4.70	6.00	64	102	58
710.048.00	4.80	6.00	78	118	70
710.049.00	4.90	6.00	78	118	70
710.050.00	5.00	6.00	118	78	70
710.051.00	5.10	6.00	118	78	70
710.052.00	5.20	6.00	118	78	70
710.053.00	5.30	6.00	118	78	70
710.054.00	5.40	6.00	118	78	70
710.055.00	5.50	6.00	118	78	70
710.056.00	5.60	6.00	118	78	70
710.057.00	5.70	6.00	118	78	70
710.058.00	5.80	6.00	118	78	70
710.059.00	5.90	6.00	118	78	70
710.060.00	6.00	6.00	118	78	70
710.061.00	6.10	8.00	146	108	94
710.062.00	6.20	8.00	146	108	94
710.063.00	6.30	8.00	146	108	94
710.064.00	6.40	8.00	146	108	94
710.065.00	6.50	8.00	146	108	94
710.066.00	6.60	8.00	146	108	94
710.067.00	6.70	8.00	146	108	94
710.068.00	6.80	8.00	146	108	94
710.069.00	6.90	8.00	146	108	94
710.070.00	7.00	8.00	146	108	94
710.071.00	7.10	8.00	146	108	94
710.072.00	7.20	8.00	146	108	94
710.073.00	7.30	8.00	146	108	94
710.074.00	7.40	8.00	146	108	94
710.075.00	7.50	8.00	146	108	94
710.076.00	7.60	8.00	146	108	94

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Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1	NL
710.077.00	7.70	8.00	108	146	94
710.078.00	7.80	8.00	108	146	94
710.079.00	7.90	8.00	108	146	94
710.080.00	8.00	8.00	108	146	94
710.081.00	8.10	10.00	120	162	110
710.082.00	8.20	10.00	120	162	110
710.083.00	8.30	10.00	120	162	110
710.084.00	8.40	10.00	120	162	110
710.085.00	8.50	10.00	120	162	110
710.086.00	8.60	10.00	120	162	110
710.087.00	8.70	10.00	120	162	110
710.088.00	8.80	10.00	120	162	110
710.089.00	8.90	10.00	120	162	110
710.090.00	9.00	10.00	120	162	110
710.091.00	9.10	10.00	120	162	110
710.092.00	9.20	10.00	120	162	110
710.093.00	9.30	10.00	120	162	110
710.094.00	9.40	10.00	120	162	110
710.095.00	9.50	10.00	120	162	110
710.096.00	9.60	10.00	120	162	110
710.097.00	9.70	10.00	120	162	110
710.098.00	9.80	10.00	120	162	110
710.099.00	9.90	10.00	120	162	110
710.100.00	10.00	10.00	120	162	110
710.101.00	10.10	12.00	156	204	142
710.102.00	10.20	12.00	156	204	142
710.103.00	10.30	12.00	156	204	142
710.104.00	10.40	12.00	156	204	142
710.105.00	10.50	12.00	156	204	142
710.106.00	10.60	12.00	156	204	142
710.107.00	10.70	12.00	156	204	142
710.108.00	10.80	12.00	156	204	142
710.109.00	10.90	12.00	156	204	142
710.110.00	11.00	12.00	156	204	142

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Universal

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CODICE	Ø1	Ø2	L2	L1	NL
710.111.00	11.10	12.00	156	204	142
710.112.00	11.20	12.00	156	204	142
710.113.00	11.30	12.00	156	204	142
710.114.00	11.40	12.00	156	204	142
710.115.00	11.50	12.00	156	204	142
710.116.00	11.60	12.00	156	204	142
710.117.00	11.70	12.00	156	204	142
710.118.00	11.80	12.00	156	204	142
710.119.00	11.90	12.00	156	204	142
710.120.00	12.00	12.00	156	204	142
710.125.00	12.50	14.00	182	230	166
710.128.00	12.80	14.00	182	230	166
710.130.00	13.00	14.00	182	230	166
710.135.00	13.50	14.00	182	230	166
710.138.00	13.80	14.00	182	230	166
710.140.00	14.00	14.00	182	230	166
710.145.00	14.50	16.00	208	260	192
710.148.00	14.80	16.00	208	260	192
710.150.00	15.00	16.00	208	260	192
710.155.00	15.50	16.00	208	260	192
710.158.00	15.80	16.00	208	260	192
710.160.00	16.00	16.00	208	260	192
710.165.00	16.50	18.00	234	285	216
710.168.00	16.80	18.00	234	285	216
710.170.00	17.00	18.00	234	285	216
710.175.00	17.50	18.00	234	285	216
710.178.00	17.80	18.00	234	285	216
710.180.00	18.80	18.00	234	285	216
710.185.00	18.50	20.00	258	310	238
710.188.00	18.80	20.00	258	310	238
710.190.00	19.00	20.00	258	310	238
710.195.00	19.50	20.00	258	310	238
710.198.00	19.80	20.00	258	310	238
710.200.00	20.00	20.00	258	310	238

915...



TYP N-H

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HA

15xD

Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1
915.010.00	1.00	3.00	20	60
915.011.00	1.10	3.00	22	60
915.012.00	1.20	3.00	24	60
915.013.00	1.30	3.00	25	60
915.014.00	1.40	3.00	27	60
915.015.00	1.50	3.00	27	60
915.016.00	1.60	3.00	32	65
915.017.00	1.70	3.00	32	65
915.018.00	1.80	3.00	35	65
915.019.00	1.90	3.00	35	65
915.020.00	2.00	3.00	35	65
915.021.00	2.10	3.00	40	75
915.022.00	2.20	3.00	40	75
915.023.00	2.30	3.00	40	75
915.024.00	2.40	3.00	45	75
915.025.00	2.50	3.00	45	75
915.026.00	2.60	3.00	48	80
915.027.00	2.70	3.00	48	80
915.028.00	2.80	3.00	50	80
915.029.00	2.90	3.00	50	80
915.030.00	3.00	6.00	60	100
915.031.00	3.10	6.00	60	100
915.032.00	3.20	6.00	60	100
915.033.00	3.30	6.00	60	100
915.034.00	3.40	6.00	60	100
915.035.00	3.50	6.00	60	100
915.036.00	3.60	6.00	78	115
915.037.00	3.70	6.00	78	115
915.038.00	3.80	6.00	78	115
915.039.00	3.90	6.00	78	115
915.040.00	4.00	6.00	78	115
915.041.00	4.10	6.00	78	115
915.042.00	4.20	6.00	78	115
915.043.00	4.20	6.00	78	115
915.044.00	4.40	6.00	78	115
915.045.00	4.50	6.00	78	115

915...



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TIALN

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15xD

Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1
915.046.00	4.60	6.00	92	130
915.047.00	4.70	6.00	92	130
915.048.00	4.80	6.00	92	130
915.049.00	4.90	6.00	92	130
915.050.00	5.00	6.00	92	130
915.051.00	5.10	6.00	92	130
915.052.00	5.20	6.00	92	130
915.053.00	5.30	6.00	92	130
915.054.00	5.40	6.00	92	130
915.055.00	5.50	6.00	100	145
915.056.00	5.60	6.00	100	145
915.057.00	5.70	6.00	100	145
915.058.00	5.80	6.00	100	145
915.059.00	5.90	6.00	100	145
915.060.00	6.00	6.00	100	145
915.061.00	6.10	8.00	108	145
915.062.00	6.20	8.00	108	145
915.063.00	6.30	8.00	108	145
915.064.00	6.40	8.00	108	145
915.065.00	6.50	8.00	130	170
915.066.00	6.60	8.00	130	170
915.067.00	6.70	8.00	130	170
915.068.00	6.80	8.00	130	170
915.069.00	6.90	8.00	130	170
915.070.00	7.00	8.00	130	170
915.075.00	7.50	8.00	130	170
915.078.00	7.80	8.00	130	170
915.080.00	8.00	8.00	130	170
915.085.00	8.50	10.00	163	208
915.088.00	8.80	10.00	163	208
915.090.00	9.00	10.00	163	208
915.095.00	9.50	10.00	163	208
915.098.00	9.80	10.00	163	208
915.100.00	10.00	10.00	163	208
915.102.00	10.20	12.00	195	245
915.105.00	10.50	12.00	195	245
915.108.00	10.80	12.00	195	245
915.110.00	11.00	12.00	195	245
915.112.00	11.20	12.00	195	245
915.115.00	11.50	12.00	195	245
915.118.00	11.80	12.00	195	245
915.120.00	12.00	12.00	195	245
915.125.00	12.50	14.00	230	280
915.130.00	13.00	14.00	230	280
915.138.00	13.80	14.00	230	280
915.140.00	14.00	14.00	230	280
915.148.00	14.80	16.00	260	310
915.150.00	15.00	16.00	260	310
915.158.00	15.80	16.00	260	310
915.160.00	16.00	16.00	260	310

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Werks-norm

20xD

Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1
920.020.00	2.00	4.00	50	92
920.022.00	2.20	4.00	50	92
920.023.00	2.30	4.00	50	92
920.024.00	2.40	4.00	70	112
920.025.00	2.50	4.00	70	112
920.027.00	2.70	4.00	70	112
920.028.00	2.80	4.00	70	112
920.029.00	2.90	4.00	70	112
920.030.00	3.00	6.00	80	120
920.032.00	3.20	6.00	80	120
920.033.00	3.30	6.00	80	120
920.035.00	3.50	6.00	80	120
920.038.00	3.80	6.00	90	130
920.040.00	4.00	6.00	90	130
920.042.00	4.20	6.00	110	160
920.045.00	4.50	6.00	110	160
920.046.00	4.60	6.00	110	160
920.048.00	4.80	6.00	120	160
920.050.00	5.00	6.00	120	160
920.055.00	5.50	6.00	140	185
920.058.00	5.80	6.00	140	185
920.060.00	6.00	6.00	140	185
920.065.00	6.50	8.00	155	210
920.068.00	6.80	8.00	160	210
920.070.00	7.00	8.00	160	210
920.075.00	7.50	8.00	180	230
920.078.00	7.80	8.00	180	230
920.080.00	8.00	8.00	180	230
920.085.00	8.50	10.00	195	260
920.088.00	8.80	10.00	230	290
920.090.00	9.00	10.00	230	290
920.098.00	9.80	10.00	230	290
920.100.00	10.00	10.00	230	290
920.102.00	10.20	12.00	270	315
920.108.00	10.80	12.00	270	315
920.118.00	11.80	12.00	270	315
920.120.00	12.00	12.00	270	315

926...



TYP N

140°

2

IK

h7

TIALN

HA

Werks-norm

25xD

Universal

4 Fasi

CODICE	Ø1	Ø2	L2	L1
926.030.00	3.00	6.00	98	135
926.032.00	3.20	6.00	98	135
926.033.00	3.30	6.00	110	150
926.035.00	3.50	6.00	110	150
926.038.00	3.80	6.00	120	160
926.040.00	4.00	6.00	120	160
926.042.00	4.20	6.00	120	160
926.045.00	4.50	6.00	135	180
926.048.00	4.80	6.00	135	180
926.050.00	5.00	6.00	135	180
926.055.00	5.50	6.00	168	205
926.058.00	5.80	6.00	168	205
926.060.00	6.00	6.00	168	205
926.065.00	6.50	8.00	200	240
926.068.00	6.80	8.00	200	240
926.070.00	7.00	8.00	200	240
926.075.00	7.50	8.00	220	260
926.078.00	7.80	8.00	220	260
926.080.00	8.00	8.00	220	260
926.085.00	8.50	10.00	240	285
926.088.00	8.80	10.00	270	310
926.090.00	9.00	10.00	270	310
926.095.00	9.50	10.00	270	310
926.098.00	9.80	10.00	270	310
926.100.00	10.00	10.00	270	310
926.102.00	10.20	12.00	325	375
926.108.00	10.80	12.00	325	375
926.118.00	11.80	12.00	325	375
926.120.00	12.00	12.00	325	375

931...



TYP N

140°

2

IK

h7

TIALN

HA

Werks-norm

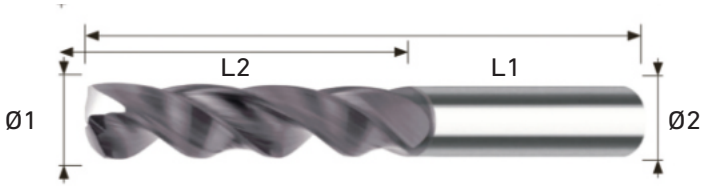
30xD

Universal

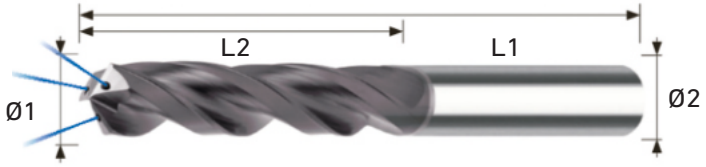
4 Fasi

CODICE	Ø1	Ø2	L2	L1
931.020.00	2.00	4.00	70	115
931.022.00	2.20	4.00	70	115
931.023.00	2.30	4.00	70	115
931.024.00	2.40	4.00	90	138
931.025.00	2.50	4.00	90	138
931.027.00	2.70	4.00	90	138
931.028.00	2.80	4.00	90	138
931.029.00	2.90	4.00	90	138
931.030.00	3.00	6.00	105	150
931.032.00	3.20	6.00	105	150
931.033.00	3.30	6.00	135	185
931.035.00	3.50	6.00	135	185
931.038.00	3.80	6.00	135	185
931.040.00	4.00	6.00	135	185
931.042.00	4.20	6.00	135	185
931.045.00	4.50	6.00	165	215
931.046.00	4.60	6.00	165	215
931.048.00	4.80	6.00	165	215
931.050.00	5.00	6.00	165	215
931.055.00	5.50	6.00	180	230
931.058.00	5.80	6.00	180	230
931.060.00	6.00	6.00	180	230
931.065.00	6.50	8.00	215	230
931.068.00	6.80	8.00	230	280
931.070.00	7.00	8.00	230	280
931.075.00	7.50	8.00	230	280
931.078.00	7.80	8.00	265	280
931.080.00	8.00	8.00	265	315
931.085.00	8.50	10.00	295	315
931.088.00	8.80	10.00	330	380
931.090.00	9.00	10.00	330	380
931.095.00	9.50	10.00	330	380
931.098.00	9.80	10.00	330	380
931.100.00	10.00	10.00	330	380

807...



808...



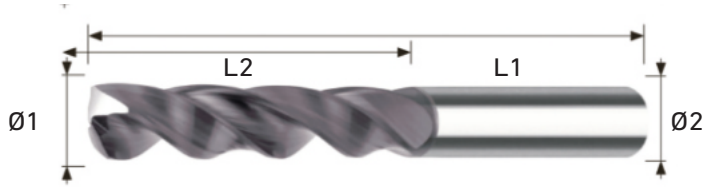
TYP N
140°
2
0. IK
m7
TIALN
HA
5xD
Universal
Stabile
Foro trasv.
4 Fasi

CODICE	Z
807.050.00	2
807.051.00	2
807.052.00	2
807.055.00	2
807.058.00	2
807.060.00	2
807.062.00	2
807.065.00	2
807.068.00	2
807.070.00	2
807.072.00	2
807.075.00	2
807.078.00	2
807.080.00	2
807.082.00	2
807.085.00	2
807.088.00	2
807.090.00	2
807.092.00	2
807.095.00	2
807.098.00	2

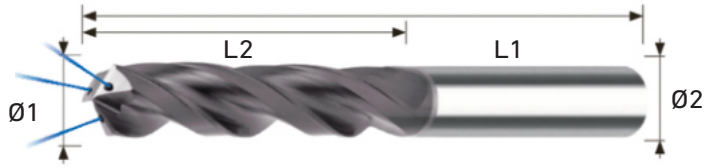
TYP N
140°
3
IK
m7
TIALN
HA
5xD
Universal
Pilotaggio

CODICE	Z	Ø1	Ø2	L2	L1
808.040.00	3	4.00	6.00	39	77
808.042.00	3	4.20	6.00	39	77
808.045.00	3	4.50	6.00	39	77
808.048.00	3	4.80	6.00	39	77
808.050.00	3	5.00	6.00	39	77
808.051.00	3	5.10	6.00	39	77
808.052.00	3	5.20	6.00	39	77
808.055.00	3	5.50	6.00	39	77
808.058.00	3	5.80	6.00	39	77
808.060.00	3	6.00	6.00	39	77
808.062.00	3	6.20	8.00	52	90
808.065.00	3	6.50	8.00	52	90
808.068.00	3	6.80	8.00	52	90
808.070.00	3	7.00	8.00	52	90
808.072.00	3	7.20	8.00	52	90
808.075.00	3	7.50	8.00	52	90
808.078.00	3	7.80	8.00	52	90
808.080.00	3	8.00	8.00	52	90
808.082.00	3	8.20	10.00	60	102
808.085.00	3	8.50	10.00	60	102
808.088.00	3	8.80	10.00	60	102
808.090.00	3	9.00	10.00	60	102
808.092.00	3	9.20	10.00	60	102
808.095.00	3	9.50	10.00	60	102
808.098.00	3	9.80	10.00	60	102

807...



808...



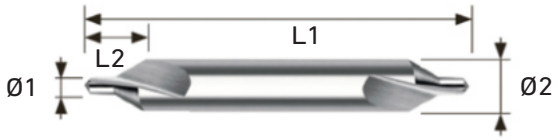
TYP N
140°
2
0. IK
m7
TIALN
HA
5xD
Universal
Stabile
Foro trasv.
4 Fasi

CODICE	Z
807.100.00	2
807.102.00	2
807.105.00	2
807.108.00	2
807.110.00	2
807.112.00	2
807.115.00	2
807.118.00	2
807.120.00	2
807.125.00	2
807.128.00	2
807.130.00	2
807.135.00	2
807.138.00	2
807.140.00	2
807.145.00	2
807.148.00	2
807.150.00	2
807.155.00	2
807.158.00	2
807.160.00	2

TYP N
140°
3
IK
m7
TIALN
HA
5xD
Universal
Pilotaggio

CODICE	Z	Ø1	Ø2	L2	L1
808.100.00	3	10.00	10.00	60	102
808.102.00	3	10.20	12.00	72	120
808.105.00	3	10.50	12.00	72	120
808.108.00	3	10.80	12.00	72	120
808.1100.00	3	11.00	12.00	72	120
808.112.00	3	11.20	12.00	72	120
808.115.00	3	11.50	12.00	72	120
808.118.00	3	11.80	12.00	72	120
808.120.00	3	12.00	12.00	72	120
808.125.00	3	12.50	14.00	82	130
808.128.00	3	12.80	14.00	82	130
808.130.00	3	13.00	14.00	82	130
808.135.00	3	13.50	14.00	82	130
808.138.00	3	13.80	14.00	82	130
808.140.00	3	14.00	14.00	82	130
808.145.00	3	14.50	16.00	85	135
808.148.00	3	14.80	16.00	85	135
808.150.00	3	15.00	16.00	85	135
808.155.00	3	15.50	16.00	85	135
808.158.00	3	15.80	16.00	85	135
808.160.00	3	16.00	16.00	85	135

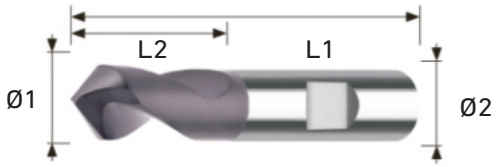
608...



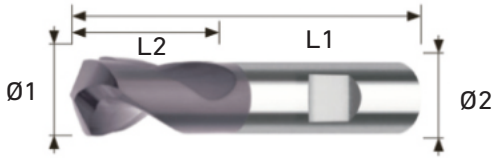
TYP N
h10
blank
HA
Werks-norm
Universal

CODICE	Ø1	Ø2	L2	L1
608.050.09	0.50	3.15	0.80	31.50
608.080.09	0.80	3.15	1.10	31.50
608.100.09	1.00	3.15	1.30	31.50
608.125.09	1.25	3.15	1.60	31.50
608.160.09	1.60	4.00	2.00	35.50
608.200.09	2.00	5.00	2.50	40.00
608.250.09	2.50	6.30	3.10	45.00
608.315.09	3.15	8.00	3.90	50.00
608.400.09	4.00	10.00	5.00	56.00
608.500.09	5.00	12.50	6.30	63.00
608.630.09	6.30	16.00	8.00	71.00

890...



860...



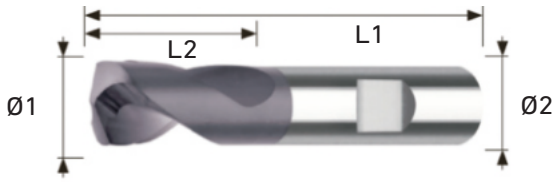
TYP N
90°
2
30°
0. IK
TIALN
HB
Werks-norm
Universal

CODICE
860.030.00
860.040.00
860.050.00
860.060.00
860.080.00
860.100.00
860.120.00
860.160.00
860.200.00

TYP N
120°
2
30°
0. IK
TIALN
HB
Werks-norm
Universal

CODICE	Ø1	Ø2	L2	L1	Z
890.030.00	3.00	3.00	8	38	2
890.040.00	4.00	4.00	8	50	2
890.050.00	5.00	5.00	13	50	2
890.060.00	6.00	6.00	13	57	2
890.080.00	8.00	8.00	19	63	2
890.100.00	10.00	10.00	20	66	2
890.120.00	12.00	12.00	22	73	2
890.160.00	16.00	16.00	24	82	2
890.200.00	20.00	20.00	30	92	2

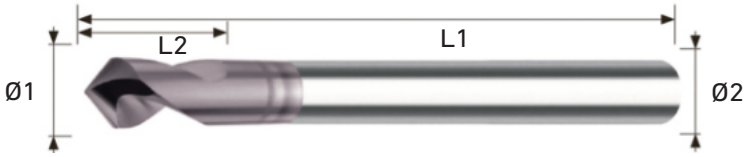
814...



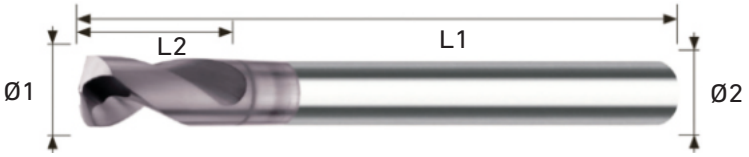
TYP N | TIALN | 142° | HB | 2 | Werks-norm | 30° | Universal | 0. IK

CODICE	Ø1	Ø2	L2	L1	Z
814.030.00	3.00	3.00	8	38	2
814.040.00	4.00	4.00	10	50	2
814.050.00	5.00	5.00	13	50	2
814.060.00	6.00	6.00	11	57	2
814.080.00	8.00	8.00	19	63	2
814.100.00	10.00	10.00	20	66	2
814.120.00	12.00	12.00	22	73	2
814.160.00	16.00	16.00	24	82	2
814.200.00	20.00	20.00	30	92	2

820...



830...



TYP N

90° | 2 | 0. IK | TIALN | HA | Universal

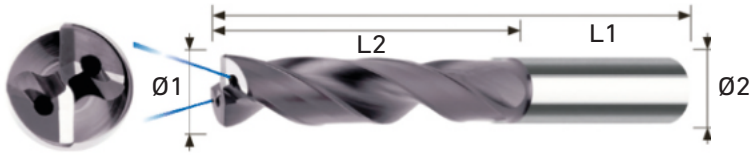
CODICE
820.040.00
820.050.00
820.060.00
820.080.00
820.100.00
820.120.00
820.160.00

TYP N

142° | 2 | 0. IK | TIALN | HA | Universal

CODICE	Ø1	Ø2	L2	L1	Z
830.040.00	4.00	6.00	10	120	2
830.050.00	5.00	6.00	13	132	2
830.060.00	6.00	6.00	15	139	2
830.080.00	8.00	8.00	17	165	2
830.100.00	10.00	10.00	20	184	2
830.120.00	12.00	12.00	25	205	2
830.160.00	16.00	16.00	30	230	2

818...



TYP N | TIALN | 180° | HA | 2 | Werks-norm | IK | 5xD | m7 | Universal | 4 Fasi

CODICE	Ø1	Ø2	L2	L1	Z
818.080.00	8.00	8.00	53	91	2
818.090.00	9.00	10.00	61	103	2
818.100.00	10.00	10.00	61	103	2
818.110.00	11.00	12.00	69	116	2
818.150.00	15.00	16.00	81	131	2
818.180.00	18.00	18.00	91	141	2
818.200.00	20.00	20.00	99	151	2

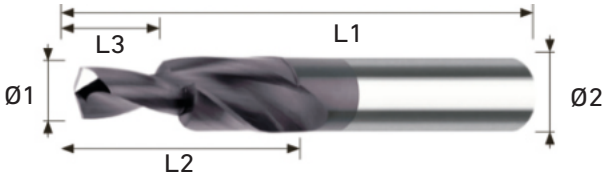
711...



TYP N | TIALN | 140° | HA | 2-6 | Werks-norm | IK | 5xD | h7 | STEEL

CODICE	Ø1	Ø2	L2	L1	Z
711.051.00	5.98	6.00	44	81	2/6
711.052.00	5.99	6.00	44	81	2/6
711.060.00	6.00	6.00	44	81	2/6
711.061.00	6.01	6.00	44	81	2/6
711.062.00	6.02	6.00	53	91	2/6
711.070.00	7.98	8.00	53	91	2/6
711.071.00	7.99	8.00	53	91	2/6
711.080.00	8.00	8.00	53	91	2/6
711.081.00	8.01	8.00	53	91	2/6
711.082.00	8.02	8.00	53	91	2/6
711.090.00	9.98	10.00	61	103	2/6
711.091.00	9.99	10.00	61	102	2/6
711.092.00	10.00	10.00	61	103	2/6
711.100.00	10.00	10.00	61	103	2/6
711.101.00	10.01	10.00	61	103	2/6
711.110.00	10.02	12.00	71	118	2/6
711.111.00	11.98	12.00	71	118	2/6
711.120.00	11.99	12.00	71	118	2/6
711.121.00	12.00	12.00	71	118	2/6
711.122.00	12.01	12.00	71	118	2/6
711.140.00	12.02	14.00	77	124	2/6
711.160.00	14.00	16.00	83	133	2/6
711.180.00	18.00	18.00	93	143	2/6
711.200.00	20.00	20.00	101	153	2/6

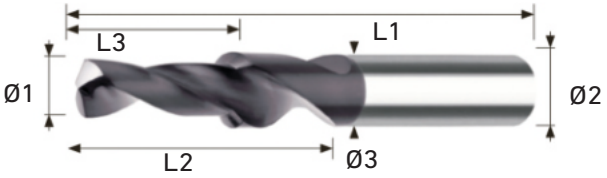
841...



TYP N · h8 · 2 · TIALN · 0. IK · HA

CODICE	Ø	Ø1	Ø2	L3	L2	L1	Z
841.034.00	6.00	3.40	6.00	9	28	64	2
841.045.00	8.00	4.50	8.00	11	37	79	2
841.055.00	10.00	5.50	10.00	13	43	89	2
841.066.00	11.00	6.60	12.00	15	55	102	2
841.090.00	15.00	9.00	16.00	19	65	115	2
841.110.00	18.00	11.00	18.00	23	62	123	2

850...

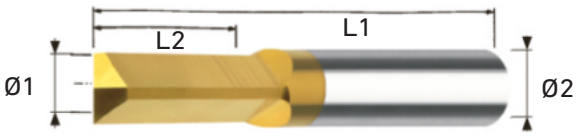


TYP N · h7 · 140° · TIALN · 2 · HA · 30° · Werks-norm · 0. IK

CODICE	Ø1	Ø2	L2	L1	Ø3	L3	Z
850.025.00	2.50	6.00	28	66	8.80	21.00	2
850.033.00	3.30	6.00	28	66	11.40	21.00	2
850.042.00	4.20	6.00	28	66	13.60	21.00	2
850.050.00	5.00	8.00	41	79	16.50	29.00	2
850.068.00	6.80	10.00	47	89	21.00	35.00	2
850.085.00	8.50	12.00	55	102	25.50	40.00	2
850.102.00	10.20	14.00	60	107	30.00	45.00	2

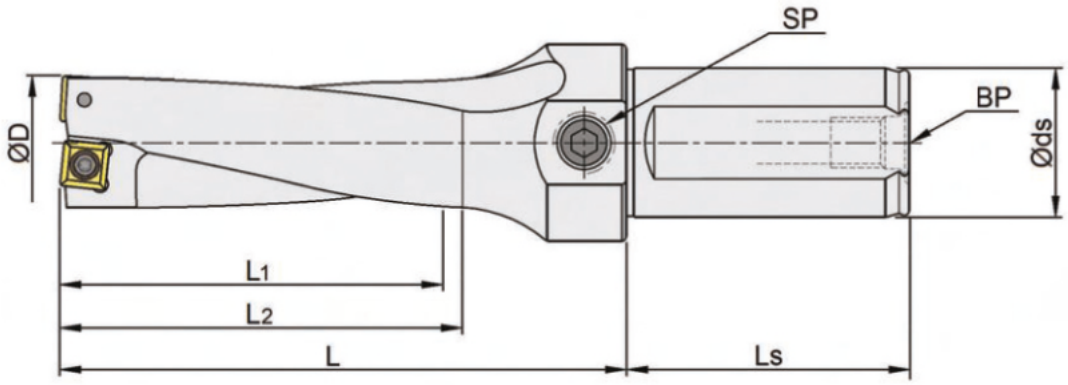
400...

SOLID CARBIDE THREAD MILL DESTROYER



TYP H · HA · 2 · Werks-norm · 3 · STEEL · TIN · HRC 60-65

CODICE	SIZE	Ø1	Ø2	L2	L1	Z
400.025	M3	2.50	6.00	12	50	2
400.033	M4	3.30	6.00	15	50	3
400.042	M5	4.20	6.00	15	50	3
400.050	M6	5.00	6.00	15	50	3
400.068	M8	6.80	8.00	20	60	3
400.085	M10	8.50	10.00	25	70	3
400.102	M12	10.20	12.00	30	75	3
400.120	M14	12.00	12.00	30	75	3
400.140	M16	14.00	14.00	40	100	3
400.155	M18	15.50	16.00	40	100	3
400.175	M20	17.50	18.00	50	100	3



ØD - DIAMETRO PUNTA

Øds - DIAMETRO ATTACCO

L1 - LUNGHEZZA UTILE DI FORATURA = 3D

L2 - LUNGHEZZA UTILE DI SICUREZZA

L - LUNGHEZZA INGOMBRO TOTALE

Ls - LUNGHEZZA ATTACCO

SP - TAPPO REFRIGERANTE DIETRO

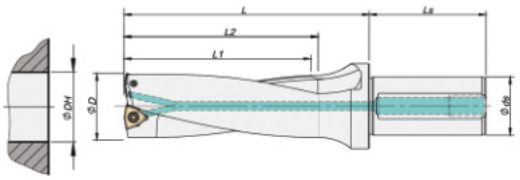
BP - TAPPO LATERALE

ØDH - DIAMETRO FORO

NT-DRILLING WCV

NOVITÀ

ATTACCO WELDON



ØDH TOLLERANZA

Ø D	3D
13-21.5	-0.10/+0.15
22-50	-0.12/+0.20
50-58	-0.15/+0.25

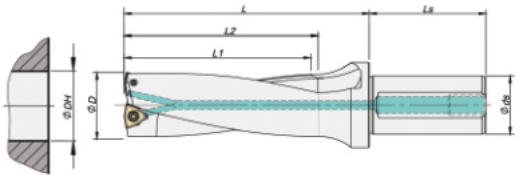
Ø ds	Ls	BP/SP
20	50	PT-1/8
25	56	PT-1/8
32	60	PT-1/4
40	70	PT-1/4

CODICE	Ø D	Øds	L1	L2	L	INSERTO	VITE	TORX
WCV 13020-3D	13	20	39	42	62	WC..02T104	P0180500	T06
WCV 13520-3D	13.5	20	41	44	64	WC..02T104	P0180500	T06
WCV 14020-3D	14	20	42	45	65	WC..02T104	P0180500	T06
WCV 14520-3D	14.5	20	44	47	67	WC..02T104	P0180500	T06
WCV 15020-3D	15	20	45	48	68	WC..02T104	P0180500	T06
WCV 15520-3D	15.5	20	47	50	70	WC..02T104	P0180500	T06
WCV 16025-3D	16	25	48	51	76	WC..030204	P0220500	T07
WCV 16525-3D	16.5	25	50	53	78	WC..030204	P0220500	T07
WCV 17025-3D	17	25	51	54	79	WC..030204	P0220500	T07
WCV 17525-3D	17.5	25	53	56	81	WC..030204	P0220500	T07
WCV 18025-3D	18	25	54	57	82	WC..030204	P0220500	T07
WCV 18525-3D	18.5	25	56	59	84	WC..030204	P0220500	T07
WCV 19025-3D	19	25	57	60	85	WC..030204	P0220500	T07
WCV 19525-3D	19.5	25	59	62	87	WC..030204	P0220500	T07
WCV 20025-3D	20	25	60	63	88	WC..030204	P0220500	T07
WCV 20525-3D	20.5	25	62	65	90	WC..040204	P0250503	T08
WCV 21025-3D	21	25	63	66	91	WC..040204	P0250503	T08
WCV 21525-3D	21.5	25	65	68	93	WC..040204	P0250503	T08
WCV 22025-3D	22	25	66	69	94	WC..040204	P0250503	T08
WCV 22525-3D	22.5	25	68	71	96	WC..040204	P0250503	T08
WCV 23025-3D	23	25	69	72	97	WC..040204	P0250503	T08
WCV 23525-3D	23.5	25	71	74	99	WC..040204	P0250503	T08
WCV 24025-3D	24	25	72	75	100	WC..040204	P0250503	T08
WCV 24525-3D	24.5	25	74	77	102	WC..040204	P0250503	T08
WCV 25025-3D	25	25	75	78	103	WC..040204	P0250503	T08
WCV 25532-3D	25.5	32	77	80	110	WC..050308	P0300701	T08
WCV 26032-3D	26	32	78	81	111	WC..050308	P0300701	T08
WCV 26532-3D	26.5	32	80	83	113	WC..050308	P0300701	T08
WCV 27032-3D	27	32	81	84	114	WC..050308	P0300701	T08
WCV 27532-3D	27.5	32	83	86	113	WC..050308	P0300701	T08

SU RICHIESTA

NOVITÀ

ATTACCO WELDON



ØDH TOLLERANZA

Ø D	3D
13-21.5	-0.10/+0.15
22-50	-0.12/+0.20
50-58	-0.15/+0.25

Ø ds	Ls	BP/SP
20	50	PT-1/8
25	56	PT-1/8
32	60	PT-1/4
40	70	PT-1/4

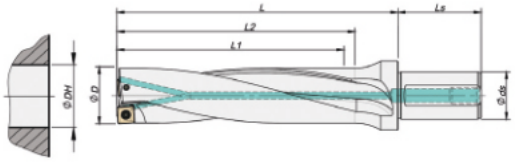
CODICE	Ø D	Øds	L1	L2	L	INSERTO	VITE	TORX
WCV 28032-3D	28	32	84	87	117	WC..050308	P0300701	T08
WCV 28532-3D	28.5	32	86	89	119	WC..050308	P0300701	T08
WCV 29032-3D	29	32	87	90	120	WC..050308	P0300701	T08
WCV 29532-3D	29.5	32	89	92	122	WC..050308	P0300701	T08
WCV 30032-3D	30	32	90	93	123	WC..050308	P0300701	T08
WCV 31032-3D	31	32	93	96	126	WC..06T308	P0350903	T15
WCV 32032-3D	32	32	96	99	129	WC..06T308	P0350903	T15
WCV 33032-3D	33	32	99	102	132	WC..06T308	P0350903	T15
WCV 34032-3D	34	32	102	105	135	WC..06T308	P0350903	T15
WCV 35032-3D	35	32	105	108	138	WC..06T308	P0350903	T15
WCV 36032-3D	36	32	108	111	141	WC..06T308	P0350903	T15
WCV 37032-3D	37	32	110	114	144	WC..06T308	P0350903	T15
WCV 38032-3D	38	32	114	117	147	WC..06T308	P0350903	T15
WCV 39032-3D	39	32	117	120	150	WC..06T308	P0350903	T15
WCV 40032-3D	40	32	120	123	153	WC..06T308	P0350903	T15
WCV 41032-3D	41	32	123	126	156	WC..06T308	P0350903	T15
WCV 42040-3D	42	40	126	129	164	WC..080408	P0401101	T15
WCV 43040-3D	43	40	129	132	167	WC..080408	P0401101	T15
WCV 44040-3D	44	40	132	135	170	WC..080408	P0401101	T15
WCV 45040-3D	45	40	135	138	173	WC..080408	P0401101	T15
WCV 46040-3D	46	40	138	141	176	WC..080408	P0401101	T15
WCV 47040-3D	47	40	141	144	179	WC..080408	P0401101	T15
WCV 48040-3D	48	40	144	147	182	WC..080408	P0401101	T15
WCV 49040-3D	49	40	147	150	185	WC..080408	P0401101	T15
WCV 50040-3D	50	40	150	153	188	WC..080408	P0401101	T15
WCV 51040-3D	51	40	153	156	191	WC..080408	P0401101	T15
WCV 52040-3D	52	40	156	159	194	WC..080408	P0401101	T15
WCV 53040-3D	53	40	159	162	197	WC..080408	P0401101	T15
WCV 54040-3D	54	40	162	165	200	WC..080408	P0401101	T15
WCV 55040-3D	55	40	165	168	203	WC..080408	P0401101	T15
WCV 56040-3D	56	40	168	171	206	WC..080408	P0401101	T15
WCV 57040-3D	57	40	171	174	209	WC..080408	P0401101	T15
WCV 58040-3D	58	40	174	177	212	WC..080408	P0401101	T15

SU RICHIESTA

NT-DRILLING SPV

NOVITÀ

ATTACCO WELDON



ØDH TOLLERANZA

Ø D	3D
13-21.5	-0.10/+0.15
22-50	-0.12/+0.20

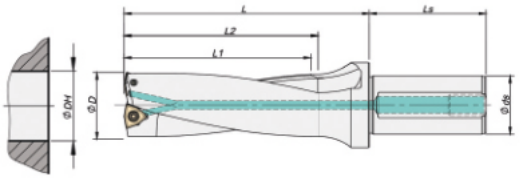
Ø ds	Ls	BP/SP
20	50	PT-1/8
25	56	PT-1/8
32	60	PT-1/4
40	70	PT-1/4

CODICE	Ø D	Øds	L1	L2	L	INSERTO	VITE	TORX
SPV 13020-3D	13	20	39	42	62	SP..050204	P0200500	T06
SPV 13520-3D	13.5	20	41	44	64	SP..050204	P0200500	T06
SPV 14020-3D	14	20	42	45	65	SP..050204	P0200500	T06
SPV 14520-3D	14.5	20	44	47	67	SP..050204	P0200500	T06
SPV 15020-3D	15	20	45	48	68	SP..050204	P0200500	T06
SPV 15520-3D	15.5	20	47	50	70	SP..060204	P0220500	T07
SPV 16025-3D	16	25	48	51	76	SP..060204	P0220500	T07
SPV 16525-3D	16.5	25	50	53	78	SP..060204	P0220500	T07
SPV 17025-3D	17	25	51	54	79	SP..060204	P0220500	T07
SPV 17525-3D	17.5	25	53	56	81	SP..060204	P0220500	T07
SPV 18025-3D	18	25	54	57	82	SP..060204	P0220500	T07
SPV 18525-3D	18.5	25	56	59	84	SP..060204	P0220500	T07
SPV 19025-3D	19	25	57	60	85	SP..060204	P0220500	T07
SPV 19525-3D	19.5	25	59	62	87	SP..060204	P0220500	T07
SPV 20025-3D	20	25	60	63	88	SP..060204	P0220500	T07
SPV 20525-3D	20.5	25	62	65	90	SP..060204	P0220500	T07
SPV 21025-3D	21	25	63	66	91	SP..060204	P0220500	T07
SPV 21525-3D	21.5	25	65	68	93	SP..060204	P0220500	T07
SPV 22025-3D	22	25	66	69	99	SP..07T308	P0250704	T08
SPV 22525-3D	22.5	25	68	71	101	SP..040204	P0250704	T08
SPV 23025-3D	23	25	69	72	102	SP..07T308	P0250704	T08
SPV 23525-3D	23.5	25	71	74	104	SP..07T308	P0250704	T08
SPV 24025-3D	24	25	72	75	105	SP..07T308	P0250704	T08
SPV 24525-3D	24.5	25	74	77	107	SP..07T308	P0250704	T08
SPV 25025-3D	25	25	75	78	108	SP..07T308	P0250704	T08
SPV 25532-3D	25.5	32	77	80	110	SP..07T308	P0250704	T08
SPV 26032-3D	26	32	78	81	111	SP..07T308	P0250704	T08
SPV 26532-3D	26.5	32	80	83	113	SP..07T308	P0250704	T08
SPV 27032-3D	27	32	81	84	114	SP..07T308	P0250704	T08
SPV 27532-3D	27.5	32	83	86	116	SP..07T308	P0250704	T08

SU RICHIESTA

NOVITÀ

ATTACCO WELDON



ØDH TOLLERANZA

Ø D	3D
13-21.5	-0.10/+0.15
22-50	-0.12/+0.20

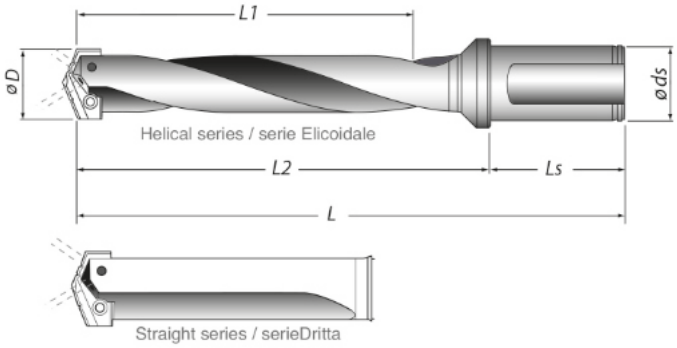
Ø ds	Ls	BP/SP
20	50	PT-1/8
25	56	PT-1/8
32	60	PT-1/4
40	70	PT-1/4

CODICE	Ø D	Øds	L1	L2	L	INSERTO	VITE	TORX
SPV 28032-3D	28	32	84	87	117	SP..090408	P0350903	T08
SPV 28532-3D	28.5	32	86	89	119	SP..090408	P0350903	T08
SPV 29032-3D	29	32	87	90	120	SP..090408	P0350903	T08
SPV 29532-3D	29.5	32	89	93	123	SP..090408	P0350903	T08
SPV 30032-3D	30	32	90	95	125	SP..090408	P0350903	T08
SPV 31032-3D	31	32	93	98	128	SP..090408	P0350903	T15
SPV 32032-3D	32	32	96	101	131	SP..090408	P0350903	T15
SPV 33032-3D	33	32	99	104	134	SP..110408	P0350903	T15
SPV 34040-3D	34	40	102	107	142	SP..06T308	P0401200	T15
SPV 35040-3D	35	40	105	110	145	SP..110408	P0401200	T15
SPV 36040-3D	36	40	108	113	148	SP..110408	P0401200	T15
SPV 37040-3D	37	40	110	116	151	SP..110408	P0401200	T15
SPV 38040-3D	38	40	114	119	154	SP..110408	P0401200	T15
SPV 39040-3D	39	40	117	122	157	SP..110408	P0401200	T15
SPV 40040-3D	40	40	120	125	160	SP..110408	P0401200	T15
SPV 41040-3D	41	40	123	128	163	SP..110408	P0401200	T15
SPV 42040-3D	42	40	126	131	166	SP..140512	P0501300	T20
SPV 43040-3D	43	40	129	134	169	SP..140512	P0501300	T20
SPV 44040-3D	44	40	132	137	172	SP..140512	P0501300	T20
SPV 45040-3D	45	40	135	140	175	SP..140512	P0501300	T20
SPV 46040-3D	46	40	138	143	178	SP..140512	P0501300	T20
SPV 47040-3D	47	40	141	146	181	SP..140512	P0501300	T20
SPV 48040-3D	48	40	144	149	184	SP..140512	P0501300	T20
SPV 49040-3D	49	40	147	152	187	SP..140512	P0501300	T20
SPV 50040-3D	50	40	150	155	190	SP..140512	P0501300	T20

SU RICHIESTA

NT-DRILLING V130

NOVITÀ



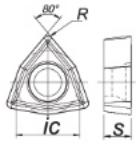
ATTACCO WELDON

CODICE	Ø D	Øds	L1	L2	L	LS	INSERTO	SCARICO
V130-175-U63-W20	13-17.5	20	63.5	92	142	50	HSS M48.. DA Ø13 A Ø17.5	ELICOIDALE
V130-175-U114-W20	13-17.5	20	114.3	143	193	50		ELICOIDALE
V130-175-U177-W20	13-17.5	20	177.8	206	256	50		ELICOIDALE
V130-175-U295D-W20	13-17.5	20	295	324	374	50		ELICOIDALE
V130-175-U387D-W20	13-17.5	20	387	416	466	50		ELICOIDALE
V155-175-U63-W20	31	32	93	98	128	50	HSS M48.. DA Ø15.5 A Ø17.5	ELICOIDALE
V155-175-U114-W20	32	32	96	101	131	50		ELICOIDALE
V155-175-U177-W20	33	32	99	104	134	50		ELICOIDALE
V180-240-U117-W25	34	40	102	107	142	56	HSS M48.. DA Ø18 A Ø24	ELICOIDALE
V180-240-U168-W25	35	40	105	110	145	56		ELICOIDALE
V180-240-U269-W25	36	40	108	113	148	56		ELICOIDALE
V180-240-U457D-W25	37	40	110	116	151	56		ELICOIDALE
V180-240-U569D-W25	38	40	114	119	154	56		ELICOIDALE
V250-350-U136-W32	39	40	117	122	157	60	HSS M48.. DA Ø25 A Ø35	ELICOIDALE
V250-350-U187-W32	40	40	120	125	160	60		ELICOIDALE
V250-350-U288-W32	41	40	123	128	163	60		ELICOIDALE
V250-350-U511DW32	42	40	126	131	166	60		ELICOIDALE
V250-350-U692D-W32	43	40	129	134	169	60		ELICOIDALE
V360-470-U165-W40	44	40	132	137	172	70	HSS M48.. DA Ø36 A Ø47	ELICOIDALE
V360-470-U209-W40	41	40	123	128	163	70		ELICOIDALE

NOVITÀ



INSERTO WCKX

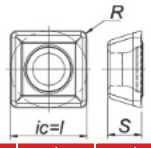


	P							M			K										N		S		H						
CODICE ISO	VHP103	VHP910	VHP920	VHP930	VHP740	VHP125	VHP135	VHP920	VHP930	VHP740	VHP910	VHP920	VHP930	VHP740	VHP705	VHP325	VHC705	VHC740	VHX910	VHPCD	VHX910	VHP920	VHP740	VHP103	VHCBN	iC	S	L	R	a
WCKX 02T104		o	o					o	o			o											o				4.76	1.98	-	0.4	-
WCKX 030204		o	o					o	o			o											o				5.56	2.38	-	0.4	-
WCKX 050308		o	o					o	o			o											o				6.35	2.38	-	0.4	-
WCKX 06T308		o	o					o	o			o											o				7.94	2.38	-	0.8	-
WCKX 080408		o	o					o	o			o											o				9.55	3.97	-	0.8	-
WCKX 030204		o	o					o	o			o											o				12.7	4.76	-	0.8	-

NOVITÀ



INSERTO SPKX



	P							M			K										N		S		H						
CODICE ISO	VHP103	VHP910	VHP920	VHP930	VHP740	VHP125	VHP135	VHP920	VHP930	VHP740	VHP910	VHP920	VHP930	VHP740	VHP705	VHP325	VHC705	VHC740	VHX910	VHPCD	VHX910	VHP920	VHP740	VHP103	VHCBN	iC	S	L	R	a
SPKX 050204		o	o					o	o			o											o				5.00	1.98	5.00	0.4	-
SPKX 060204		o	o					o	o			o											o				6.00	2.38	6.00	0.4	-
SPKX 07T308		o	o					o	o			o											o				7.94	2.38	7.94	0.8	-
SPKX 090408		o	o					o	o			o											o				9.80	2.38	9.80	0.8	-
SPKX 110408		o	o					o	o			o											o				11.5	3.97	11.5	0.8	-
SPKX 140512		o	o					o	o			o											o				14.3	4.76	14.3	1.2	-

• A MAGAZZINO ○ SU RICHIESTA



CARATTERISTICHE DELLE PUNTE A CANNONE.

Le punte a cannone sono composte da una cuspide in metallo duro, da un tubo profilato e da un attacco per il fissaggio al mandrino. Si possono pure prendere in pinza ER usando l'anello di tenuta e la relativa ghiera. Le punte sono caratterizzate da un foro per la lubrificazione interna e da una gola a forma di V per l'evaquazione del truciolo.

LO STELO DELLA PUNTA.

Lo stelo della punta è un tubo d'acciaio sul quale viene profilata una gola longitudinale a forma di V. Le sue caratteristiche meccaniche di resistenza alla torsione, un foro di sezione piuttosto grande per assicurare il passaggio del flusso lubrificante e una gola a V per l'evaquazione del truciolo lo rendono adatto allo scopo della foratura profonda.

LA CUSPIDE DELLA PUNTA.

La cuspide della punta è in metallo duro e può essere rivestita TIN – TCN – TIALN ecc. sulla sua lunghezza presenta una leggera conicità onde ridurre il rischio grippaggio. Dopo varie riaffilature la precisione del diametro viene meno perdendo la tolleranza nominale.
La riaffilatura delle punte rivestite riduce di poco il beneficio dello stesso.

L'ATTACCO DELLA PUNTA.

L'attacco della punta può essere di diverse dimensioni determinate dal tipo di macchina usata e dall'impiego delle punte su altre macchine rese adatte dall'ingegno umano.
Lo stelo può essere preso in pinza nella parte cilindrica purché non si usi molta forza di serraggio. Queste punte grazie alle migliorie dei metalli duri e dei rivestimenti sono in grado di eseguire fori particolarmente profondi e non, con una notevole precisione (H7) e un'ottima finitura.

MACCHINE CONVENZIONALI E CENTRI LAVORO.

Le punte a cannone non sono utensili autocentranti e per questo necessitano di una bussola guida (fig. 1) se la macchina lo consente, oppure di un foro di guida (fig.2). In questo modo le punte possono essere usate sui centri di lavoro. Non appena la punta è fissata nel giusto modo, essa si auto guida grazie ai relativi pattini di guida.
La pressione di taglio trasmessa ai pattini di guida permette pure la calibratura del foro. Al fine di ridurre al massimo l'attrito si eseguono rivestimenti e forme particolari di pattini, in funzione del materiale e dalla sua omogeneità. La forma ed il taglio del truciolo condizionano il loro giusto avanzamento. La correzione della forma del truciolo è ottenuta tramite l'intervento al livello dei parametri di taglio, velocità, avanzamento e angoli stridenti dell'utensile.

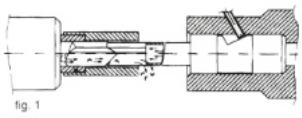
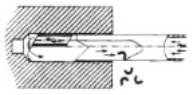
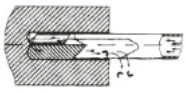
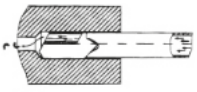
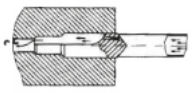

fig. 1


fig. 2


fig. 3


fig. 4


fig. 5


fig. 6

- Verifica delle tolleranze
- Rettilineità
- Migliore qualità di superficie da un RA 0.4 a 1.6
- Si evita l'operazione di alesatura

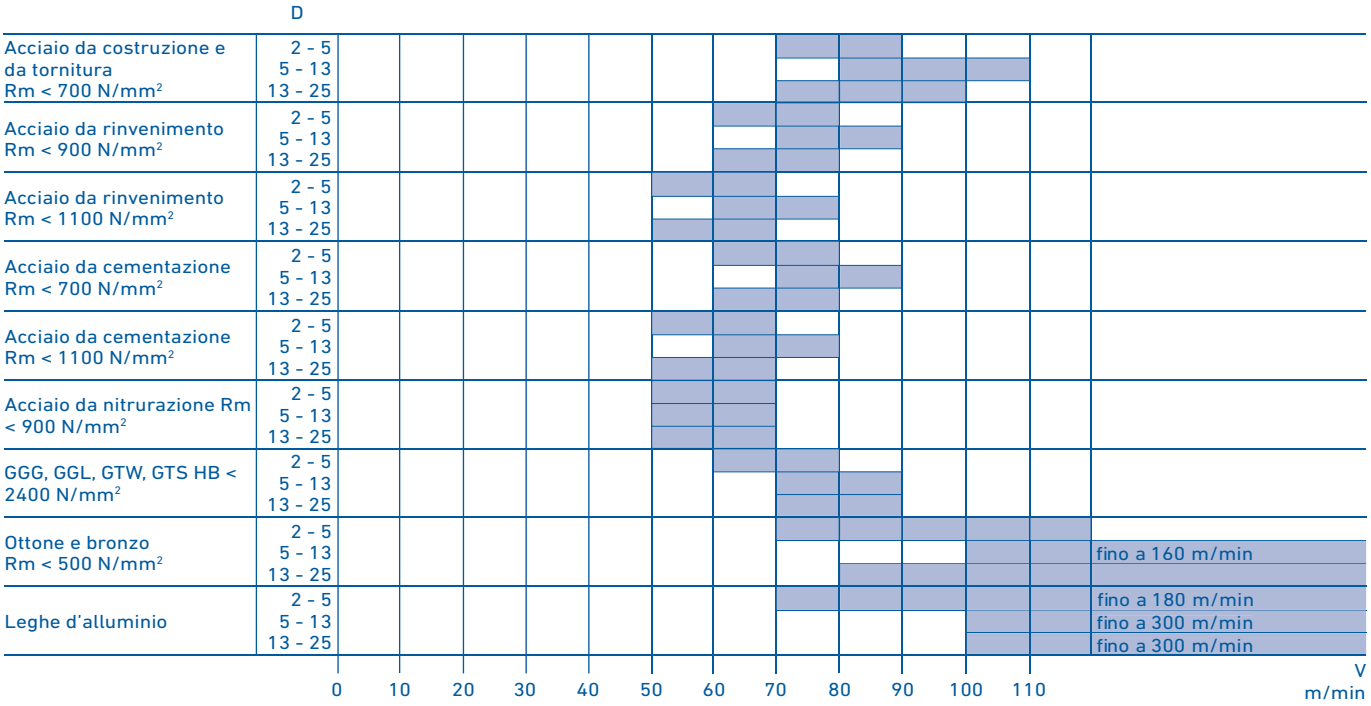
CICLO DI FORATURA

Quando ci si appresta ad utilizzare una punta a cannone su cento di lavoro o in generale su macchine dove non esistono lunette di guida è fondamentale NON AZIONARE MAI LA ROTAZIONE DEL MANDRINO OLTRE I 20 RPM, QUANDO LA PUNTA NON È ANCORA IN GUIDA NEL PREFORO.
Pertanto il ciclo di foratura per punte a cannone prevederà:

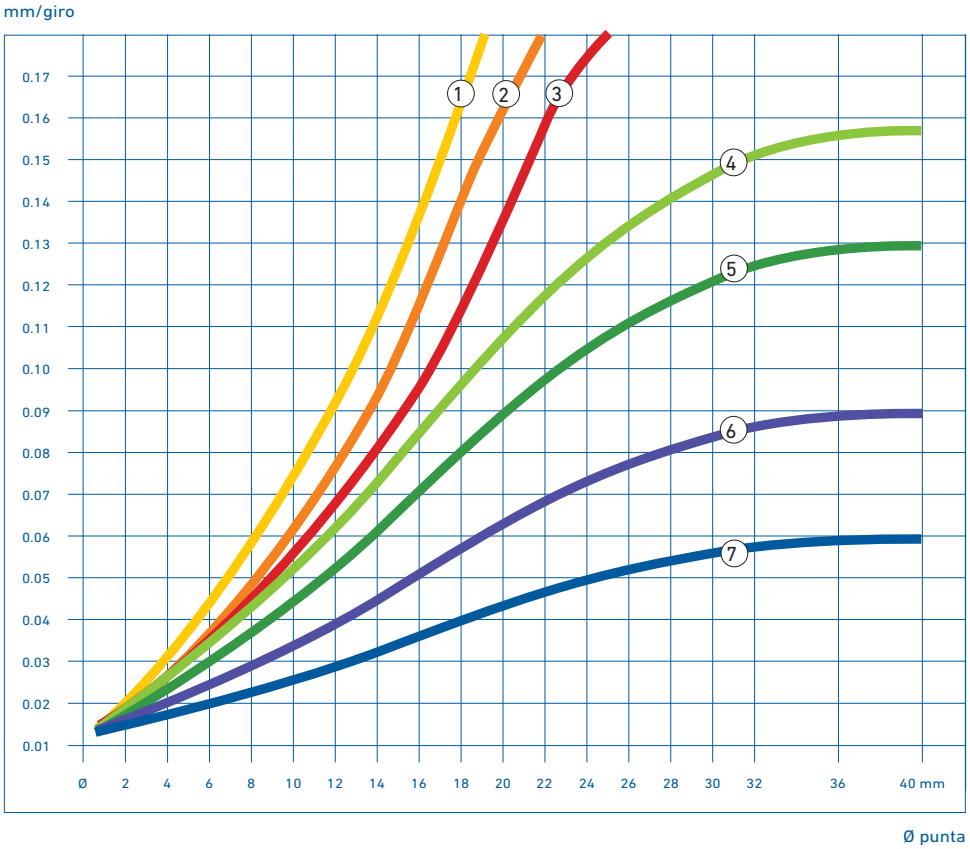
1. Esecuzione preforo dello stesso diametro della punta da utilizzare con profondità pari 2xØ.
   N.B. per ottenere un foro quanto più rettilineo possibile è indispensabile che il foro di guida sia in tolleranza con la cuspide della punta a cannone.
2. Azionare la rotazione della punta a cannone con S=20 RPM per imboccare il foro di guida.
3. Azionare la lubrificazione interna della punta a cannone.
4. Procedere nell'esecuzione del foro in base ai parametri consigliati.
5. Terminare l'esecuzione della foratura, fermare la rotazione del mandrino e uscire dal foro (anche in rapido).

PARAMETRI DI FORATURA IN FUNZIONE DEI MATERIALI.

I valori qui riportati sono adatti per le forature con macchine specificatamente costruite per tale funzione. Possono raddoppiare nei casi di rivestimento delle punte o essere ridotti sensibilmente nei casi di un utilizzo delle punte con apparecchi e su macchine non propriamente nate per tale funzione.



AVANZAMENTO/GIRO



Curva 1
Lega in alluminio

Curva 2
Lega in ghisa

Curva 3
Ghisa grigia e acciaio a basso tenore di carbonio

Curva 4
Acciaio basso legato

Curva 5
Acciaio alto legato

Curva 6
Acciaio temprato

Curva 7
Acciaio inox ferritico e austenitico

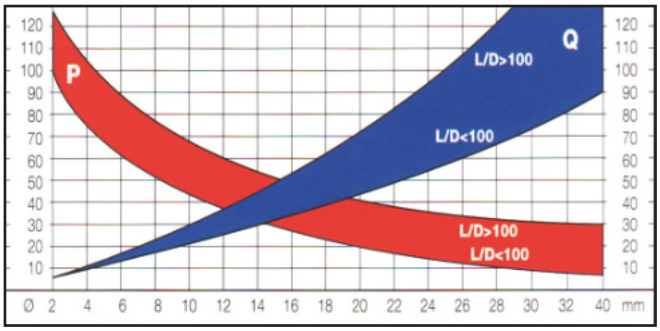
PRECISAZIONI TECNICHE

È dimostrato che il 70% della qualità del foro e della durata della punta a cannone sono in stretto rapporto con la qualità ed il sistema di lubrificazione macchine convenzionali. Le migliori performance sono ottenute con l'olio interno. Esistono applicazioni alternative che impiegano liquidi diversi (emulsioni) o, ultimo nato, il sistema di foratura con dosatore minimale.

I punti importanti per un'ottimale foratura sono:

- La pressione e la portata del flusso lubrificante.

PRESSIONE E PORTATA LUBRIFICANTE



P bar
Ql/min

Ø foro

- Il filtraggio del liquido, assai importante per non immettere in circolo micro parti abrasive che riducono la vita delle punte a cannone.

- La temperatura del pezzo, che deve essere contenuta nei limiti minimi altrimenti la punta potrebbe danneggiarsi.

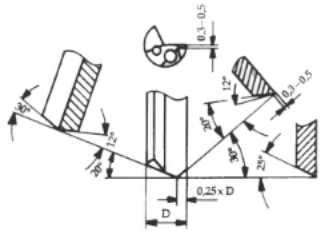


fig. 1

A seconda delle tolleranze da ottenere con la foratura e dal materiale da forare, si possono modificare indicativamente gli angoli frontali di spoglia.
Fig. 1
Affilatura standard per materiali di buona truciolabilità.

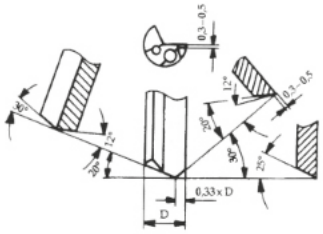


fig. 2

Fig. 2
Per materiale che da problemi di frazionamento del truciolo.

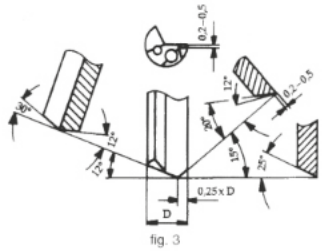


fig. 3

Fig. 3
Per forature che richiedono una particolare riduzione delle deviazione.

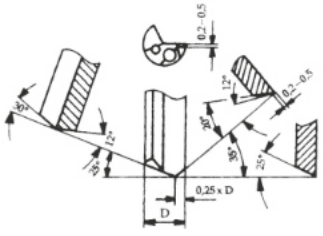
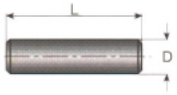
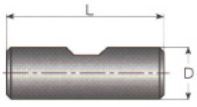
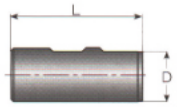
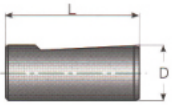
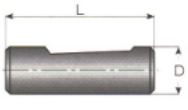
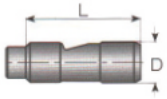
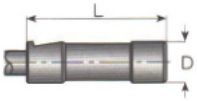
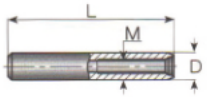
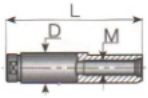
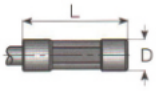
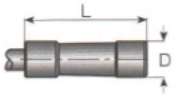
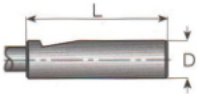


Fig. 4
Per acciaio inox.

TIPO ATTACCO	DISEGNO	ØDxL	CODICE	PUNTE STANDARD	PUNTE IN MD
Cylindrical DIN1835A DIN6535HA		4x28	01	•	•
		5x28	02		•
		6x36	03	•	•
		8x36	04	•	•
		10x40	05	•	•
		12x45	06	•	•
		14x45	07		•
		16x48	08	•	•
		18x48	09		
		20x50	10	•	
		25x56	11	•	
		32x60	12	•	
		40x70	13		
		50x80	14		
		63x90	15		
Weldon DIN1835B DIN6535HB	 	6x36	16	•	
		8x36	17	•	
		10x40	18	•	•
		12x45	19	•	•
		16x48	20	•	•
		18x48	21		
		20x50	22	•	•
		25x56	23	•	
		32x60	24	•	
		40x70	25		
		58x80	26		
		63x90	27		
Whistle Notch DIN1835E		6x36	28	•	
		8x36	29	•	
		10x40	30	•	•
		12x45	31	•	•
		16x48	32	•	•
		18x48	33		
		20x50	34	•	•
		25x56	35	•	
		32x60	36	•	
		40x70	37		
Whistle Notch DIN6535HE		6x36	38	•	
		8x36	39	•	
		10x40	40	•	•
		12x45	41	•	•
		16x48	42	•	•
		18x48	43		
		20x50	44	•	•
DIN228AK		CM1	45		
		CM2	46	•	
		CM3	47		
		CM4	48		
DIN228BK		CM1	49		
		CM2	50	•	
		CM3	51		
		CM4	52		

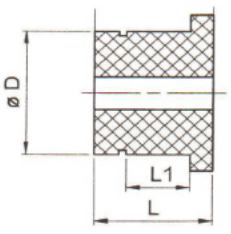
• Raccomandato

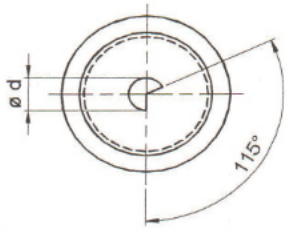
TIPO ATTACCO	DISEGNO	ØDxL	CODICE	PUNTE STANDARD	PUNTE IN MD
Central Clamping Surface 15°		6x30	53		•
		10x40	54	•	•
		16x45	55	•	
		19.05x69.8	56	•	
		25x70	57	•	
		25.4x69.8	58	•	
		31.75x69.8	59	•	
		38.1x69.8	60		
Frontal Clamping Surface 15°		16x50	61	•	
Cylindrical with Thread		10x50 M6X0.5	62		•
		10x60 M6X0.5	63	•	
		12.7x50 M6X0.5	64		•
		16x80 M10X1	65	•	•
		25x100 M16X1.5	66	•	
		36X120 M24X1.5	67		
VDI Design		10x68 M6x0.5	68	•	
		16x90 M10X1	69	•	•
		25x112 M16X1.5	70	•	
		36x135 M24X1.5	71		
Central Clamping Hexagonal		25x70	72	•	
		32x70	73	•	
Central Clamping Tapered		12.7x38.1	74	•	•
		16x70	75		
		19.05x69.8	76	•	
		20x70	77		
Frontal Clamping Surface 2°		12.7x38.1	78	•	
		19.05x69.8	79	•	
		25.4x69.8	80	•	
		25.4x100	81	•	
		31.75x69.8	82		
		31.75x100	83	•	
		38.1x69.8	84		
		38.1x100	85		
Trapezoidal Thread		16x112 Tr 16x1.5	86	•	
		20x126 Tr 20x2	87	•	
		28x126 Tr28x2	88	•	
		36x162 Tr 36x2	89		
Spraymist Driver		16x40	90	•	
		25x50	91	•	
		35x60	92	•	

• Raccomandato

Ø PUNTA da - a	Ø d	Diametro esterno ØD			
		20	30	45	75
1.850 - 1.999	1.80	L1=12.0 L=20.0	L1=14.0 L=26.0	L1=16.0 L=26.0	
2.000 - 2.099	1.90				
2.100 - 2.199	2.00				
2.200 - 2.299	2.10				
2.300 - 2.399	2.20				
2.400 - 2.499	2.30				
2.500 - 2.599	2.40				
2.600 - 2.699	2.50				
2.700 - 2.799	2.60				
2.800 - 2.899	2.70				
2.900 - 3.099	2.80				
3.100 - 3.359	3.00				
3.360 - 2.459	3.20				
3.460 - 3.559	3.30				
3.560 - 3.799	3.40				
3.800 - 3.959	3.60				
3.960 - 4.259	3.75	X			
4.260 - 4.499	4.00	X			
4.500 - 4.749	4.25	X			
4.750 - 4.999	4.50	X	USARE ØD 4.50		
5.000 - 5.249	4.75	X			
5.250 - 5.499	5.00	X	USARE ØD 5.00		
5.500 - 5.749	5.25	X			
5.750 - 5.999	5.50	X	X		
6.000 - 6.249	5.75	X	X		
6.250 - 6.449	6.00	X	X		
6.450 - 6.749	6.20	X	X		
6.750 - 6.999	6.50	X	X		
7.000 - 7.299	6.70	X	X		
7.300 - 7.599	7.00	X	X		
7.600 - 7.799	7.30	X	X		
7.800 - 7.999	7.50	X	X	X	
8.000 - 8.299	7.70	X	X	X	
8.300 - 8.699	8.00	X	X	X	
8.700 - 8.999	8.40	X	X	X	
9.000 - 9.299	8.70	X	X	X	
9.300 - 9.699	9.00	X	X	X	

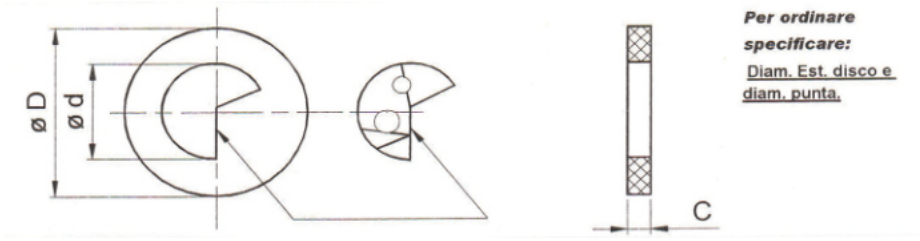
Ø PUNTA da - a	Ø d	Diametro esterno ØD			
		20	30	45	75
9.700 - 9.999	9.40	X	X	X	L1=17.7 L=40.0
10.000 - 10.299	9.70	X		X	
10.300 - 10.799	10.00	X	X	X	
10.800 - 11.299	10.50	X	X	X	
11.300 - 11.799	11.00	X	X	X	
11.800 - 12.399	11.50	X	X	X	
12.400 - 12.899	12.00		X	X	
12.900 - 13.399	12.50		X	X	
13.400 - 13.899	13.00		X	X	
13.900 - 14.399	13.50		X	X	
14.400 - 14.899	14.00		X	X	
14.900 - 15.399	14.50		X	X	
15.400 - 15.899	15.00		X	X	
15.900 - 16.399	15.50		X	X	
16.400 - 16.899	16.00		X	X	
16.900 - 17.399	16.50		X	X	
17.400 - 17.899	17.00		X	X	
17.900 - 18.399	17.50		X	X	
18.400 - 19.509	18.00		X	X	
19.510 - 20.509	19.00		X	X	
20.510 - 21.509	20.00		X	X	
21.5100 - 22.609	21.00		X	X	
22.610 - 23.609	22.00			X	
23.610 - 24.609	23.00			X	
24.610 - 25.609	24.00			X	
25.610 - 26.609	25.00			X	
26.610 - 27.609	26.00			X	
27.610 - 28.609	27.00			X	
28.610 - 29.609	28.00			X	
29.610 - 30.609	29.00			X	X
30.610 - 32.609	30.00			X	X
32.610 - 34.699	32.00			X	X
34.700 - 36.699	34.00			X	X
36.700 - 38.699	36.00				X
38.700 - 42.699	38.00				X
42.700 - 45.699	42.00				X
45.700 - 48.999	45.00				X
49.000 - max	48.00				X





Ø PUNTA da - a	Ø d	C	Diametro esterno ØD		
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2.000 - 2.099	1.90	3	20		
2.100 - 2.199	2.00	3	20		
2.200 - 2.299	2.10	3	20		
2.300 - 2.399	2.20	3	20		
2.400 - 2.499	2.30	3	20		
2.500 - 2.599	2.40	3	20		
2.600 - 2.699	2.50	3	20		
2.700 - 2.799	2.60	3	20		
2.800 - 2.899	2.70	3	20		
2.900 - 3.099	2.80	3	20		
3.100 - 3.359	3.00	3	20		
3.360 - 2.459	3.20	3	20		
3.460 - 3.559	3.30	3	20		
3.560 - 3.799	3.40	3	20		
3.800 - 3.959	3.60	3	20		
3.960 - 4.259	3.75	3	20		
4.260 - 4.499	4.00	3	20		
4.500 - 4.749	4.25	3	20		
4.750 - 4.999	4.50	3	20		
5.000 - 5.249	4.75	3	20		
5.250 - 5.499	5.00	3	20	32	
5.500 - 5.749	5.25	3	20	32	
5.750 - 5.999	5.50	4		32	40
6.000 - 6.249	5.75	4		32	40
6.250 - 6.449	6.00	4		32	40
6.450 - 6.749	6.20	4		32	40
6.750 - 6.999	6.50	4		32	40
7.000 - 7.299	6.70	4		32	40
7.300 - 7.599	7.00	4		32	40
7.600 - 7.799	7.30	4		32	40
7.800 - 7.999	7.50	4		32	40
8.000 - 8.299	7.70	4		32	40
8.300 - 8.699	8.00	4		32	40
8.700 - 8.999	8.40	4		32	40
9.000 - 9.299	8.70	4		32	40
9.300 - 9.699	9.00	4		32	40

Ø PUNTA da - a	Ø d	C	Diametro esterno ØD		
9.700 - 9.999	9.40	4	32	40	
10.000 - 10.299	9.70	4	32	40	
10.300 - 10.799	10.00	4	32	40	
10.800 - 11.299	10.50	4	32	40	
11.300 - 11.799	11.00	4	32	40	
11.800 - 12.399	11.50	4	32	40	
12.400 - 12.899	12.00	4	32	40	
12.900 - 13.399	12.50	4	32	40	
13.400 - 13.899	13.00	4	32	40	
13.900 - 14.399	13.50	4	32	40	
14.400 - 14.899	14.00	4	32	40	
14.900 - 15.399	14.50	4	32	40	
15.400 - 15.899	15.00	4	32	40	
15.900 - 16.399	15.50	4	32	40	
16.400 - 16.899	16.00	4	32	40	
16.900 - 17.399	16.50	4	32	40	
17.400 - 17.899	17.00	4	32	40	
17.900 - 18.399	17.50	4	32	40	
18.400 - 19.509	18.00	4	32	40	
19.510 - 20.509	19.00	4	32	40	
20.510 - 21.509	20.00	4		40	
21.5100 - 22.609	21.00	4		40	
22.610 - 23.609	22.00	4		40	
23.610 - 24.609	23.00	4		40	90
24.610 - 25.609	24.00	4		40	90
25.610 - 26.609	25.00	4			90
26.610 - 27.609	26.00	4			90
27.610 - 28.609	27.00	4			90
28.610 - 29.609	28.00	4			90
29.610 - 30.609	29.00	4			90
30.610 - 32.609	30.00	4			90
32.610 - 34.699	32.00	4			90
34.700 - 36.699	34.00	4			90
36.700 - 38.699	36.00	4			90
38.700 - 42.699	38.00	4			90
42.700 - 45.699	42.00	4			90
45.700 - 48.999	45.00	4			90
49.000 - max	48.00	4			90



Per ordinare specificare:
Diam. Est. disco e diam. punta.