

GP Общее назначение

	SP	SP-BLF OX	SP-BLF V	SP V	PO	PO OX	PO V	R-D	R-D V
	HSS-E	HSS-E OX	HSS-E COATING	HSS-E COATING	HSS-E	HSS-E OX	HSS-E COATING	HSS-E	HSS-E COATING
									
									
TCTR (допуск)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2X(6HX)	ISO2X(6HX)
THCHT (фаска)	C(2.5P)	C(2.5P)	C(2.5P)	C(2.5P)	B(5P)	B(5P)	B(5P)	2P	2P
	94	106	112	114	212	218	220	352	354
M	DIN371	DIN371	DIN371		DIN371	DIN371	DIN371	DIN371	DIN371
3x0.5	SD3.0GANEB	SD3.0GANEXJ	96473.0TI		PD3.0GANEB	PD3.0GANEX	96303.0TI	RD3.0GBNEBB	93533.0BTI
4x0.7	SD4.0IANEB	SD4.0IANEXJ	96474.0TI		PD4.0IANEB	PD4.0IANEX	96304.0TI	RD4.0IBNEBB	93534.0BTI
5x0.8	SD5.0KANEB	SD5.0KANEXJ	96475.0TI		PD5.0KANEB	PD5.0KANEX	96305.0TI	RD5.0KBNEBB	93535.0BTI
6x1	SD6.0MANEB	SD6.0MANEXJ	96476.0TI		PD6.0MANEB	PD6.0MANEX	96306.0TI	RD6.0MBNEBB	93536.0BTI
8x1.25	SD8.0NANEB	SD8.0NANEXJ	96478.0TI		PD8.0NANEB	PD8.0NANEX	96308.0TI	RD8.0NBNEBB	93538.0BTI
10x1.5	SD010OANEB	SD010OANEXJ	9647010TI		PD010OANEB	PD010OANEX	9630010TI	RD010QBNEBB	9353010BTI
M	DIN376	DIN376	DIN376		DIN376	DIN376	DIN376	DIN376	DIN376
12x1.75	SG012PANEB	SG012PANEXJ	9747012TI		PG012PANEB	PG012PANEX	9730012TI	RG012PBNEBB	9353012BTI
14x2	SG014QANEB	SG014QANEXJ	9747014TI		PG014QANEB	PG014QANEX	9730014TI		9353014BTI
16x2	SG016QANEB	SG016QANEXJ	9747016TI		PG016QANEB	PG016QANEX	9730016TI		9353016BTI
18x2.5	SG018RANEB	SG018RANEXJ	9747018TI		PG018RANEB	PG018RANEX	9730018TI		
20x2.5	SG020RANEB	SG020RANEXJ	9747020TI		PG020RANEB	PG020RANEX	9730020TI		
22x2.5	SG022RANEB		9747022TI		PG022RANEB		9730022TI		
24x3	SG024SANEB		9747024TI		PG024SANEB		9730024TI		
27x3	SG027SANEB				PG027SANEB				
30x3.5	SG030TANEB				PG030TANEB				
	Vc (m/min)								
ISO P	5 ÷ 10	4 ÷ 10	6 ÷ 20	6 ÷ 20	5 ÷ 10	4 ÷ 10	6 ÷ 20	5 ÷ 15	10 ÷ 20
ISO M		4 ÷ 8	6 ÷ 12	6 ÷ 12		4 ÷ 8	6 ÷ 12		8 ÷ 12
ISO K									
ISO N	5 ÷ 10		10 ÷ 20	10 ÷ 20	5 ÷ 10		10 ÷ 20	10 ÷ 15	10 ÷ 20
ISO S									
ISO H									

HT Ручные метчики						Плшки	Центровочные сверла		
6110	6412	ISP	IPO	IHT	IHT	DPO			
HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E			
									
									
ISO2(6H)	ISO2(6H)	-	-	-	-	6g	Тип Угол	A	R
V + M + F	V + F	2.5P	5P	2P	5P	1.5P		60°	Радиус
498	502	504	505	506	506	594		606	607
DIN371		JIS	JIS	JIS	JIS	DIN223	DC x DCON	DIN333	DIN333
61103.0S		SI73.0G	PI73.0G	HI73.0G2	HI73.0G5	PDE3.0GLNEBC	0.5 x 3.15	00210.5	
61104.0S		SI74.0I	PI74.0I	HI74.0I2	HI74.0I5	PDE4.0ILNEBC	1 x 3.15	00211.0	
61105.0S		SI75.0K	PI75.0K	HI75.0K2	HI75.0K5	PDE5.0KLNEBC	1.6 x 4	00211.6	
61106.0S		SI76.0M	PI76.0M	HI76.0M2	HI76.0M5	PDE6.0MLNEBC	2 x 5	00212.0	00232.0
61108.0S		SI78.0N	PI78.0N	HI78.0N2	HI78.0N5	PDG8.0NLNEBC	2.5 x 6.3	00212.5	00232.5
6110010S		SI7010O	PI7010O	HI7010O2	HI7010O5	PDH010OLNEBC	3.15 x 8	00213.1	00233.1
DIN376						DIN223	DC x DCON		
6110012S						PDJ012PLNEBC	4 x 10	00214.0	00234.0
6110014S						PDJ014QLNEBC	5 x 12.5	00215.0	00235.0
6110016S						PDL016QLNEBC	6.3 x 16	00216.3	00236.3
6110018S						PDL018RLNEBC	-		
6110020S						PDL020RLNEBC	-		
6110024S						PDP022RLNEBC	-		
						PDP024SLNEBC	-		
						PDS027SLNEBC	-		
						PDS030TLNEBC	-		
Vc (m/min)								Vc (m/min)	
★	★	<5	<5	<5	<5	2 ÷ 5	ISO P	10 ÷ 30	10 ÷ 30
							ISO M	5 ÷ 12	5 ÷ 12
☆	☆						ISO K		
☆	☆					<5	ISO N		
							ISO S		
							ISO H		

★ Первый выбор ☆ Подходит

GP Общее назначение

	SP	SP-BLF OX	SP-BLF V	SP V	PO	PO OX	PO V	R-D	R-D V
	HSS-E	HSS-E OX	HSS-E COATING	HSS-E COATING	HSS-E	HSS-E OX	HSS-E COATING	HSS-E	HSS-E COATING
									
									
TCTR (допуск)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2(6H)	ISO2X(6HX)	ISO2X(6HX)
THCHT (фаска)	C(2.5P)	C(2.5P)	C(2.5P)	C(2.5P)	B(5P)	B(5P)	B(5P)	2P	2P
	94	106	112	114	212	218	220	352	354
MF	DIN374			DIN374	DIN374		DIN374		
8x1	SM8.0MANEB			98408.0MTI	PM8.0MANEB		98308.0MTI		
10x1.25	SM010NANEB			9840010NTI	PM010NANEB		9830010NTI		
10x1	SM010MANEB			9840010MTI	PM010MANEB		9830010MTI		
12x1.5	SM012OANEB			9840012OTI	PM012OANEB		9830012OTI		
12x1.25	SM012NANEB			9840012NTI	PM012NANEB		9830012NTI		
14x1.5	SM014OANEB			9840014OTI	PM014OANEB		9830014OTI		
16x1.5	SM016OANEB			9840016OTI	PM016OANEB		9830016OTI		
18x1.5	SM018OANEB			9840018OTI	PM018OANEB		9830018OTI		
20x1.5	SM020OANEB			9840020OTI	PM020OANEB		9830020OTI		
G(BSP)	DIN5156			DIN5156	DIN5156		DIN5156	DIN5156	DIN5156
1/8	SVG0020NEB			9940R02TI	PVG0020NEB		9930R02TI	RVG0026NEBB	9953R02TI
1/4	SVG0040NEB			9940R04TI	PVG0040NEB		9930R04TI	RVG0047NEBB	9953R04TI
3/8	SVG0060NEB			9940R06TI	PVG0060NEB		9930R06TI	RVG0067NEBB	9953R06TI
1/2	SVG0080NEB			9940R08TI	PVG0080NEB		9930R08TI		
3/4	SVG0120NEB								
1	SVG0160NEB								
	Vc (m/min)								
ISO P	5 ÷ 10	4 ÷ 10	6 ÷ 20	6 ÷ 20	5 ÷ 10	4 ÷ 10	6 ÷ 20	5 ÷ 15	10 ÷ 20
ISO M		4 ÷ 8	6 ÷ 12	6 ÷ 12		4 ÷ 8	6 ÷ 12		8 ÷ 12
ISO K									
ISO N	5 ÷ 10		10 ÷ 20	10 ÷ 20	5 ÷ 10		10 ÷ 20	10 ÷ 15	10 ÷ 20
ISO S									
ISO H									

HT Ручные метчики						Плашки
6110	6412	ISP	IPO	IHT	IHT	DPO
HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
						
						
ISO2(6H)	ISO2(6H)	-	-	-	-	6g
C(2.5P)	C(2.5P)	2.5P	5P	2P	5P	1.5P
498	502	504	505	506	506	594
						DIN223
						PDG8.0MLNEBC
						PDH010NLNEBC
						PDH010MLNEBC
						PDJ012OLNEBC
						PDJ012NLNEBC
						PDJ014OLNEBC
						PDL016OLNEBC
						PDL018OLNEBC
						PDL020OLNEBC
	DIN5156					DIN5158
	6412G02S					PVHG0020NEBC
	6412G04S					PVJG0040NEBC
	6412G06S					PVLG0060NEBC
	6412G08S					PVLG0080NEBC
	6412G12S					PVPG0120NEBC
	6412G16S					PVSG0160NEBC
Vc (m/min)						
★	★	<5	<5	<5	<5	2 ÷ 5
☆	☆					
☆	☆					<5

★ Первый выбор ☆ Подходит

РАСТОЧЕННОЕ ОТВЕРСТИЕ И ДИАМЕТР СВЕРЛА

МЕТЧИКИ ДЛЯ РЕЗКИ

М	Ø сверла	Ø отверстия*
M 1.4 × 0.3	1.10	1.13
M 1.6 × 0.35	1.25	1.30
M 2 × 0.4	1.60	1.65
M 2.5 × 0.45	2.10	2.11
M 2.6 × 0.45	2.20	2.21
M 3 × 0.5	2.50	2.56
M 3.5 × 0.6	2.90	2.97
M 4 × 0.7	3.30	3.38
M 5 × 0.8	4.20	4.28
M 6 × 1	5.00	5.09
M 7 × 1	6.00	6.09
M 8 × 1.25	6.80	6.85
M 9 × 1.25	7.80	7.85
M 10 × 1.5	8.50	8.60
M 11 × 1.5	9.50	9.60
M 12 × 1.75	10.30	10.36
M 14 × 2	12.00	12.12
M 16 × 2	14.00	14.12
M 18 × 2.5	15.50	15.63
M 20 × 2.5	17.50	17.63
M 22 × 2.5	19.50	19.63
M 24 × 3	21.00	21.13
M 27 × 3	24.00	24.13
M 30 × 3.5	26.50	26.63
M 33 × 3.5	29.50	29.63
M 36 × 4	32.00	32.12

MF	Ø сверла	Ø отверстия*
MF 6 × 0.75	5.30	5.33
MF 8 × 1	7.00	7.09
MF 8 × 0.75	7.30	7.33
MF 10 × 1.25	8.80	8.85
MF 10 × 1	9.00	9.09
MF 12 × 1.5	10.50	10.60
MF 12 × 1.25	10.80	10.85
MF 12 × 1	11.00	11.09
MF 14 × 1.5	12.50	12.60
MF 14 × 1	13.00	13.09
MF 16 × 1.5	14.50	14.60
MF 16 × 1	15.00	15.09
MF 18 × 2	16.00	16.12
MF 18 × 1.5	16.50	16.60
MF 18 × 1	17.00	17.09
MF 20 × 2	18.00	18.12
MF 20 × 1.5	18.50	18.60
MF 20 × 1	19.00	19.09
MF 22 × 1.5	20.50	20.60
MF 24 × 2	22.00	22.12
MF 24 × 1.5	22.50	22.60

БЕССТРУЖЕЧНЫЕ МЕТЧИКИ

М	Ø сверла	Ø отверстия* Max.	Min.
M 1.4 × 0.3	1.27	1.28	1.25
M 1.6 × 0.35	1.46	1.48	1.43
M 2 × 0.4	1.83	1.86	1.80
M 2.5 × 0.45	2.31	2.34	2.27
M 2.6 × 0.45	2.41	2.44	2.37
M 3 × 0.5	2.80	2.83	2.76
M 3.5 × 0.6	3.25	3.29	3.21
M 4 × 0.7	3.71	3.75	3.66
M 5 × 0.8	4.65	4.70	4.60
M 6 × 1	5.56	5.61	5.50
M 8 × 1.25	7.45	7.52	7.38
M 10 × 1.5	9.34	9.41	9.26
M 12 × 1.75	11.22	11.3	11.13
M 14 × 2	13.10	13.19	13.00
M 16 × 2	15.10	15.19	15.00

MF	Ø сверла	Ø отверстия* Max.	Min.
MF 10 × 1.25	9.45	9.51	9.38
MF 10 × 1	9.55	9.61	9.49
MF 12 × 1.5	11.32	11.39	11.24
MF 12 × 1.25	11.45	11.51	11.38
MF 14 × 1.5	13.32	13.39	13.24
MF 16 × 1.5	15.31	15.38	15.23

G(BSP)	Ø сверла	Ø отверстия* Max.	Min.
G 1/8 - 28	9.29	9.36	9.22
G 1/4 - 19	12.53	12.64	12.42
G 3/8 - 19	16.03	16.14	15.92
G 1/2 - 14	20.12	20.25	19.99

UNC	Ø сверла	Ø отверстия*
No. 2 - 56 UNC	1.80	1.83
No. 4 - 40 UNC	2.30	2.33
No. 6 - 32 UNC	2.80	2.83
No. 8 - 32 UNC	3.40	3.47
No. 10 - 24 UNC	3.90	3.89
1/4 - 20 UNC	5.10	5.19
5/16 - 18 UNC	6.60	6.65
3/8 - 16 UNC	8.00	8.07
7/16 - 14 UNC	9.40	9.45
1/2 - 13 UNC	10.90	10.91
9/16 - 12 UNC	12.20	12.33
5/8 - 11 UNC	13.60	13.75
3/4 - 10 UNC	16.60	16.70
7/8 - 9 UNC	19.60	19.61
1 - 8 UNC	22.30	22.45

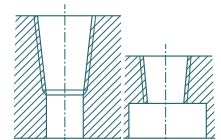
UNF	Ø сверла	Ø отверстия*
No. 6 - 40 UNF	2.90	2.97
No. 8 - 36 UNF	3.50	3.55
No. 10 - 32 UNF	4.10	4.12
1/4 - 28 UNF	5.50	5.53
5/16 - 24 UNF	6.90	6.97
3/8 - 24 UNF	8.50	8.57
7/16 - 20 UNF	9.90	9.96
1/2 - 20 UNF	11.50	11.54
9/16 - 18 UNF	12.90	13.00
5/8 - 18 UNF	14.50	14.60
3/4 - 16 UNF	17.50	17.59
7/8 - 14 UNF	20.50	20.57
1 - 12 UNF	23.30	23.46

NPT	Ø сверла	Ø отверстия*
NPT 1/16 - 27	6.00	6.05
NPT 1/8 - 27	8.35	8.39
NPT 1/4 - 18	10.80	10.85
NPT 3/8 - 18	14.25	14.27
NPT 1/2 - 14	17.50	17.60
NPT 3/4 - 14	22.90	22.91
NPT 1 - 11 1/2	28.75	28.78

G(BSP)	Ø сверла	Ø отверстия*
G 1/8 - 28	8.75	8.78
G 1/4 - 19	11.75	11.78
G 3/8 - 19	15.25	15.28
G 1/2 - 14	19.00	19.04
G 3/4 - 14	24.50	24.50
G 1 - 11	30.75	30.77

Rp(BSPP)	Ø сверла	Ø отверстия*
Rp 1/8 - 28	8.50	8.55
Rp 1/4 - 19	11.40	11.50
Rp 3/8 - 19	14.80	14.90
Rp 1/2 - 14	18.50	18.55
Rp 3/4 - 14	24.00	24.10
Rp 1 - 11	30.20	30.25

Rc(BSPT)	A	B
Rc 1/8 - 28	8.10	8.20
Rc 1/4 - 19	10.70	10.90
Rc 3/8 - 19	14.20	14.40
Rc 1/2 - 14	17.60	17.90
Rc 3/4 - 14	23.00	23.30
Rc 1 - 11	29.00	29.30



A: Есть неполная резьба
B: Нет неполной резьбы

138N

Свёрла HSS-HSS/Co общего назначения с пароксидированием

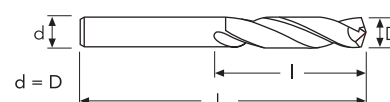


* < Ø2 mm = BR



P	M	K	N	S	H
H	I	I	I	I	I

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
0.20	0/-0.014	0.2	2.5	19	10	P138NB0020	●
0.30	0/-0.014	0.3	3	19	10	P138NB0030	●
0.40	0/-0.014	0.4	5	20	10	P138NB0040	●
0.50	0/-0.014	0.5	6	22	10	P138NB0050	●
0.60	0/-0.014	0.6	7	24	10	P138NB0060	●
0.70	0/-0.014	0.7	9	28	10	P138NB0070	●
0.80	0/-0.014	0.8	10	30	10	P138NB0080	●
0.90	0/-0.014	0.9	11	32	10	P138NB0090	●
1.00	0/-0.014	1	12	34	10	P138NB0100	●
1.10	0/-0.014	1.1	14	36	10	P138NB0110	●
1.20	0/-0.014	1.2	16	38	10	P138NB0120	●
1.25	0/-0.014	1.25	16	38	10	P138NB0125	●
1.30	0/-0.014	1.3	16	38	10	P138NB0130	●
1.40	0/-0.014	1.4	18	40	10	P138NB0140	●
1.50	0/-0.014	1.5	18	40	10	P138NB0150	●
1.60	0/-0.014	1.6	20	43	10	P138NB0160	●
1.70	0/-0.014	1.7	20	43	10	P138NB0170	●
1.75	0/-0.014	1.75	22	46	10	P138NB0175	●
1.80	0/-0.014	1.8	22	46	10	P138NB0180	●
1.90	0/-0.014	1.9	22	46	10	P138NB0190	●
2.00	0/-0.014	2	24	49	10	P138N0200	●
2.10	0/-0.014	2.1	24	49	10	P138N0210	●
2.20	0/-0.014	2.2	27	53	10	P138N0220	●
2.25	0/-0.014	2.25	27	53	10	P138N0225	●
2.30	0/-0.014	2.3	27	53	10	P138N0230	●
2.40	0/-0.014	2.4	30	57	10	P138N0240	●
2.50	0/-0.014	2.5	30	57	10	P138N0250	●
2.60	0/-0.014	2.6	30	57	10	P138N0260	●
2.70	0/-0.014	2.7	33	61	10	P138N0270	●
2.75	0/-0.014	2.75	33	61	10	P138N0275	●
2.80	0/-0.014	2.8	33	61	10	P138N0280	●
2.90	0/-0.014	2.9	33	61	10	P138N0290	●
3.00	0/-0.014	3	33	61	10	P138N0300	●
3.10	0/-0.018	3.1	36	65	10	P138N0310	●
3.20	0/-0.018	3.2	36	65	10	P138N0320	●
3.25	0/-0.018	3.25	36	65	10	P138N0325	●
3.30	0/-0.018	3.3	36	65	10	P138N0330	●
3.40	0/-0.018	3.4	39	70	10	P138N0340	●
3.50	0/-0.018	3.5	39	70	10	P138N0350	●

138N

Свёрла HSS-HSS/Co общего назначения с пароксидированием

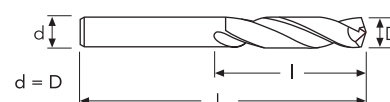


* < Ø2 mm = BR



P	M	K	N	S	H
H	I	I	I	I	I

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
3.60	0/-0.018	3.6	39	70	10	P138N0360	●
3.70	0/-0.018	3.7	39	70	10	P138N0370	●
3.75	0/-0.018	3.75	39	70	10	P138N0375	●
3.80	0/-0.018	3.8	43	75	10	P138N0380	●
3.90	0/-0.018	3.9	43	75	10	P138N0390	●
4.00	0/-0.018	4	43	75	10	P138N0400	●
4.10	0/-0.018	4.1	43	75	10	P138N0410	●
4.20	0/-0.018	4.2	43	75	10	P138N0420	●
4.25	0/-0.018	4.25	43	75	10	P138N0425	●
4.30	0/-0.018	4.3	47	80	10	P138N0430	●
4.40	0/-0.018	4.4	47	80	10	P138N0440	●
4.50	0/-0.018	4.5	47	80	10	P138N0450	●
4.60	0/-0.018	4.6	47	80	10	P138N0460	●
4.70	0/-0.018	4.7	47	80	10	P138N0470	●
4.75	0/-0.018	4.75	47	80	10	P138N0475	●
4.80	0/-0.018	4.8	52	86	10	P138N0480	●
4.90	0/-0.018	4.9	52	86	10	P138N0490	●
5.00	0/-0.018	5	52	86	10	P138N0500	●
5.10	0/-0.018	5.1	52	86	10	P138N0510	●
5.20	0/-0.018	5.2	52	86	10	P138N0520	●
5.25	0/-0.018	5.25	52	86	10	P138N0525	●
5.30	0/-0.018	5.3	52	86	10	P138N0530	●
5.40	0/-0.018	5.4	57	93	10	P138N0540	●
5.50	0/-0.018	5.5	57	93	10	P138N0550	●
5.60	0/-0.018	5.6	57	93	10	P138N0560	●
5.70	0/-0.018	5.7	57	93	10	P138N0570	●
5.75	0/-0.018	5.75	57	93	10	P138N0575	●
5.80	0/-0.018	5.8	57	93	10	P138N0580	●
5.90	0/-0.018	5.9	57	93	10	P138N0590	●
6.00	0/-0.018	6	57	93	10	P138N0600	●
6.10	0/-0.022	6.1	63	101	10	P138N0610	●
6.20	0/-0.022	6.2	63	101	10	P138N0620	●
6.25	0/-0.022	6.25	63	101	10	P138N0625	●
6.30	0/-0.022	6.3	63	101	10	P138N0630	●
6.40	0/-0.022	6.4	63	101	10	P138N0640	●
6.50	0/-0.022	6.5	63	101	10	P138N0650	●
6.60	0/-0.022	6.6	63	101	5	P138N0660	●
6.70	0/-0.022	6.7	63	101	5	P138N0670	●
6.75	0/-0.022	6.75	69	109	5	P138N0675	●

138N

Свёрла HSS-HSS/Co общего назначения с пароксидированием

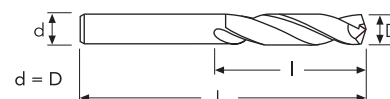


* < Ø2 mm = BR



P	M	K	N	S	H
H	I	I	I	I	I

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
6.80	0/-0.022	6.8	69	109	5	P138N0680	●
6.90	0/-0.022	6.9	69	109	5	P138N0690	●
7.00	0/-0.022	7	69	109	5	P138N0700	●
7.10	0/-0.022	7.1	69	109	5	P138N0710	●
7.20	0/-0.022	7.2	69	109	5	P138N0720	●
7.25	0/-0.022	7.25	69	109	5	P138N0725	●
7.30	0/-0.022	7.3	69	109	5	P138N0730	●
7.40	0/-0.022	7.4	69	109	5	P138N0740	●
7.50	0/-0.022	7.5	69	109	5	P138N0750	●
7.60	0/-0.022	7.6	75	117	5	P138N0760	●
7.70	0/-0.022	7.7	75	117	5	P138N0770	●
7.75	0/-0.022	7.75	75	117	5	P138N0775	●
7.80	0/-0.022	7.8	75	117	5	P138N0780	●
7.90	0/-0.022	7.9	75	117	5	P138N0790	●
8.00	0/-0.022	8	75	117	5	P138N0800	●
8.10	0/-0.022	8.1	75	117	5	P138N0810	●
8.20	0/-0.022	8.2	75	117	5	P138N0820	●
8.25	0/-0.022	8.25	75	117	5	P138N0825	●
8.30	0/-0.022	8.3	75	117	5	P138N0830	●
8.40	0/-0.022	8.4	75	117	5	P138N0840	●
8.50	0/-0.022	8.5	75	117	5	P138N0850	●
8.60	0/-0.022	8.6	81	125	5	P138N0860	●
8.70	0/-0.022	8.7	81	125	5	P138N0870	●
8.75	0/-0.022	8.75	81	125	5	P138N0875	●
8.80	0/-0.022	8.8	81	125	5	P138N0880	●
8.90	0/-0.022	8.9	81	125	5	P138N0890	●
9.00	0/-0.022	9	81	125	5	P138N0900	●
9.10	0/-0.022	9.1	81	125	5	P138N0910	●
9.20	0/-0.022	9.2	81	125	5	P138N0920	●
9.25	0/-0.022	9.25	81	125	5	P138N0925	●
9.30	0/-0.022	9.3	81	125	5	P138N0930	●
9.40	0/-0.022	9.4	81	125	5	P138N0940	●
9.50	0/-0.022	9.5	81	125	5	P138N0950	●
9.60	0/-0.022	9.6	87	133	5	P138N0960	●
9.70	0/-0.022	9.7	87	133	5	P138N0970	●
9.75	0/-0.022	9.75	87	133	5	P138N0975	●
9.80	0/-0.022	9.8	87	133	5	P138N0980	●
9.90	0/-0.022	9.9	87	133	5	P138N0990	●
10.00	0/-0.022	10	87	133	5	P138N1000	●

138N

Свёрла HSS-HSS/Co общего назначения с пароксидированием

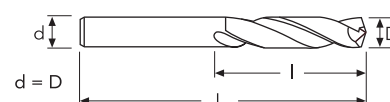


* < Ø2 mm = BR



P	M	K	N	S	H
H	I	I	I	I	I

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
10.10	0/-0.027	10.1	87	133	5	P138N1010	●
10.20	0/-0.027	10.2	87	133	5	P138N1020	●
10.25	0/-0.027	10.25	87	133	5	P138N1025	●
10.30	0/-0.027	10.3	87	133	5	P138N1030	●
10.40	0/-0.027	10.4	87	133	5	P138N1040	●
10.50	0/-0.027	10.5	87	133	5	P138N1050	●
10.60	0/-0.027	10.6	87	133	5	P138N1060	●
10.70	0/-0.027	10.7	94	142	5	P138N1070	●
10.75	0/-0.027	10.75	94	142	5	P138N1075	●
10.80	0/-0.027	10.8	94	142	5	P138N1080	●
10.90	0/-0.027	10.9	94	142	5	P138N1090	●
11.00	0/-0.027	11	94	142	5	P138N1100	●
11.10	0/-0.027	11.1	94	142	5	P138N1110	●
11.20	0/-0.027	11.2	94	142	5	P138N1120	●
11.25	0/-0.027	11.25	94	142	5	P138N1125	●
11.30	0/-0.027	11.3	94	142	5	P138N1130	●
11.40	0/-0.027	11.4	94	142	5	P138N1140	●
11.50	0/-0.027	11.5	94	142	5	P138N1150	●
11.60	0/-0.027	11.6	94	142	5	P138N1160	●
11.70	0/-0.027	11.7	94	142	5	P138N1170	●
11.75	0/-0.027	11.75	94	142	5	P138N1175	●
11.80	0/-0.027	11.8	94	142	5	P138N1180	●
11.90	0/-0.027	11.9	101	151	5	P138N1190	●
12.00	0/-0.027	12	101	151	5	P138N1200	●
12.10	0/-0.027	12.1	101	151	5	P138N1210	●
12.20	0/-0.027	12.2	101	151	5	P138N1220	●
12.25	0/-0.027	12.25	101	151	5	P138N1225	●
12.30	0/-0.027	12.3	101	151	5	P138N1230	●
12.40	0/-0.027	12.4	101	151	5	P138N1240	●
12.50	0/-0.027	12.5	101	151	5	P138N1250	●
12.60	0/-0.027	12.6	101	151	5	P138N1260	●
12.70	0/-0.027	12.7	101	151	5	P138N1270	●
12.75	0/-0.027	12.75	101	151	5	P138N1275	●
12.80	0/-0.027	12.8	101	151	5	P138N1280	●
12.90	0/-0.027	12.9	101	151	5	P138N1290	●
13.00	0/-0.027	13	101	151	5	P138N1300	●
13.25	0/-0.027	13.25	108	160	1	P138N1325	●
13.50	0/-0.027	13.5	108	160	1	P138N1350	●
13.75	0/-0.027	13.75	108	160	1	P138N1375	●

138N

Свёрла HSS-HSS/Co общего назначения с пароксидированием

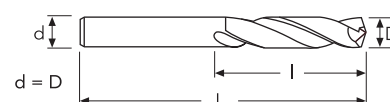


* < Ø2 mm = BR



P	M	K	N	S	H
H	I	I	I	I	I

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
14.00	0/-0.027	14	108	160	1	P138N1400	●
14.25	0/-0.027	14.25	114	169	1	P138N1425	●
14.50	0/-0.027	14.5	114	169	1	P138N1450	●
14.75	0/-0.027	14.75	114	169	1	P138N1475	●
15.00	0/-0.027	15	114	169	1	P138N1500	●
15.25	0/-0.027	15.25	120	178	1	P138N1525	●
15.50	0/-0.027	15.5	120	178	1	P138N1550	●
15.75	0/-0.027	15.75	120	178	1	P138N1575	●
16.00	0/-0.027	16	120	178	1	P138N1600	●
16.25	0/-0.027	16.25	125	184	1	P138N1625	●
16.50	0/-0.027	16.5	125	184	1	P138N1650	●
16.75	0/-0.027	16.75	125	184	1	P138N1675	●
17.00	0/-0.027	17	125	184	1	P138N1700	●
17.50	0/-0.027	17.5	130	191	1	P138N1750	●
18.00	0/-0.027	18	130	191	1	P138N1800	●
18.50	0/-0.033	18.5	135	198	1	P138N1850	●
19.00	0/-0.033	19	135	198	1	P138N1900	●
19.50	0/-0.033	19.5	140	205	1	P138N1950	●
20.00	0/-0.033	20	140	205	1	P138N2000	●

● stock standard ○ non-standard stock ▽ stock exhaustion

138N

Material Group ISO 513	P1 P2	P3 P4	K1 K2	N1 N5	N2 N3 N4	
Hardness/Rm	500÷700 N/mm ²	600÷1000 N/mm ²	150÷350 HB			
Vc (m/min)	25÷35	20÷30	25÷35	50÷70	40÷60	
D (mm)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	
0.2	0.007	0.006	0.008	0.010	0.007	
0.5	0.011	0.009	0.012	0.015	0.011	
0.8	0.013	0.011	0.014	0.018	0.013	
1	0.017	0.014	0.019	0.024	0.017	
1.5	0.035	0.030	0.039	0.049	0.035	
2	0.050	0.043	0.055	0.070	0.050	
2.5	0.060	0.051	0.066	0.084	0.060	
3	0.070	0.060	0.077	0.098	0.070	
3.5	0.080	0.068	0.088	0.112	0.080	
4	0.090	0.077	0.099	0.126	0.090	
5	0.100	0.085	0.110	0.140	0.100	
6	0.110	0.094	0.121	0.154	0.110	
7	0.120	0.102	0.132	0.168	0.120	
8	0.130	0.111	0.143	0.182	0.130	
9	0.140	0.119	0.154	0.196	0.140	
10	0.160	0.136	0.176	0.224	0.160	
11	0.170	0.145	0.187	0.238	0.170	
12	0.180	0.153	0.198	0.252	0.180	
13	0.190	0.162	0.209	0.266	0.190	
14	0.200	0.170	0.220	0.280	0.200	
15	0.210	0.179	0.231	0.294	0.210	
16	0.220	0.187	0.242	0.308	0.220	
17	0.230	0.196	0.253	0.322	0.230	
18	0.240	0.204	0.264	0.336	0.240	
19	0.250	0.213	0.275	0.350	0.250	
20	0.260	0.221	0.286	0.364	0.260	

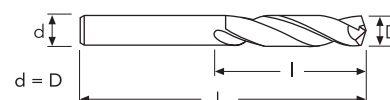
2386STI

Свёрла HSS-HSS/Co с покрытием TiN для твёрдых материалов



P	M	K	N	S	H
H	H	H	I	I	

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
1.00	0/-0.014	1	12	34	10	P2385NTI0100	●
1.10	0/-0.014	1.1	14	36	10	P2385NTI0110	●
1.20	0/-0.014	1.2	16	38	10	P2385NTI0120	●
1.30	0/-0.014	1.3	16	38	10	P2385NTI0130	●
1.40	0/-0.014	1.4	18	40	10	P2385NTI0140	●
1.50	0/-0.014	1.5	18	40	10	P2385NTI0150	●
1.60	0/-0.014	1.6	20	43	10	P2386STI0160	●
1.70	0/-0.014	1.7	20	43	10	P2386STI0170	●
1.80	0/-0.014	1.8	22	46	10	P2386STI0180	●
1.90	0/-0.014	1.9	22	46	10	P2386STI0190	●
2.00	0/-0.014	2	24	49	10	P2386STI0200	●
2.10	0/-0.014	2.1	24	49	10	P2386STI0210	●
2.20	0/-0.014	2.2	27	53	10	P2386STI0220	●
2.30	0/-0.014	2.3	27	53	10	P2386STI0230	●
2.40	0/-0.014	2.4	30	57	10	P2386STI0240	●
2.50	0/-0.014	2.5	30	57	10	P2386STI0250	●
2.60	0/-0.014	2.6	30	57	10	P2386STI0260	●
2.70	0/-0.014	2.7	33	61	10	P2386STI0270	●
2.80	0/-0.014	2.8	33	61	10	P2386STI0280	●
2.90	0/-0.014	2.9	33	61	10	P2386STI0290	●
3.00	0/-0.014	3	33	61	10	P2386STI0300	●
3.10	0/-0.018	3.1	36	65	10	P2386STI0310	●
3.20	0/-0.018	3.2	36	65	10	P2386STI0320	●
3.30	0/-0.018	3.3	36	65	10	P2386STI0330	●
3.40	0/-0.018	3.4	39	70	10	P2386STI0340	●
3.50	0/-0.018	3.5	39	70	10	P2386STI0350	●
3.60	0/-0.018	3.6	39	70	10	P2386STI0360	●
3.70	0/-0.018	3.7	39	70	10	P2386STI0370	●
3.80	0/-0.018	3.8	43	75	10	P2386STI0380	●
3.90	0/-0.018	3.9	43	75	10	P2386STI0390	●
4.00	0/-0.018	4	43	75	10	P2386STI0400	●
4.10	0/-0.018	4.1	43	75	10	P2386STI0410	●
4.20	0/-0.018	4.2	43	75	10	P2386STI0420	●
4.30	0/-0.018	4.3	47	80	10	P2386STI0430	●
4.40	0/-0.018	4.4	47	80	10	P2386STI0440	●
4.50	0/-0.018	4.5	47	80	10	P2386STI0450	●
4.60	0/-0.018	4.6	47	80	10	P2386STI0460	●
4.70	0/-0.018	4.7	47	80	10	P2386STI0470	●
4.80	0/-0.018	4.8	52	86	10	P2386STI0480	●

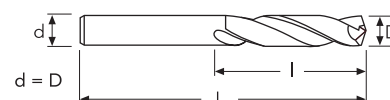
2386STI

Свёрла HSS-HSS/Co с покрытием TiN для твёрдых материалов



P	M	K	N	S	H
H	H	H	I	I	

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
4.90	0/-0.018	4.9	52	86	10	P2386STI0490	●
5.00	0/-0.018	5	52	86	10	P2386STI0500	●
5.10	0/-0.018	5.1	52	86	10	P2386STI0510	●
5.20	0/-0.018	5.2	52	86	10	P2386STI0520	●
5.30	0/-0.018	5.3	52	86	10	P2386STI0530	●
5.40	0/-0.018	5.4	57	93	10	P2386STI0540	●
5.50	0/-0.018	5.5	57	93	10	P2386STI0550	●
5.60	0/-0.018	5.6	57	93	10	P2386STI0560	●
5.70	0/-0.018	5.7	57	93	10	P2386STI0570	●
5.80	0/-0.018	5.8	57	93	10	P2386STI0580	●
5.90	0/-0.018	5.9	57	93	10	P2386STI0590	●
6.00	0/-0.018	6	57	93	10	P2386STI0600	●
6.10	0/-0.022	6.1	63	101	10	P2386STI0610	●
6.20	0/-0.022	6.2	63	101	10	P2386STI0620	●
6.30	0/-0.022	6.3	63	101	10	P2386STI0630	●
6.40	0/-0.022	6.4	63	101	10	P2386STI0640	●
6.50	0/-0.022	6.5	63	101	10	P2386STI0650	●
6.60	0/-0.022	6.6	63	101	5	P2386STI0660	●
6.70	0/-0.022	6.7	63	101	5	P2386STI0670	●
6.80	0/-0.022	6.8	69	109	5	P2386STI0680	●
6.90	0/-0.022	6.9	69	109	5	P2386STI0690	●
7.00	0/-0.022	7	69	109	5	P2386STI0700	●
7.10	0/-0.022	7.1	69	109	5	P2386STI0710	●
7.20	0/-0.022	7.2	69	109	5	P2386STI0720	●
7.30	0/-0.022	7.3	69	109	5	P2386STI0730	●
7.40	0/-0.022	7.4	69	109	5	P2386STI0740	●
7.50	0/-0.022	7.5	69	109	5	P2386STI0750	●
7.60	0/-0.022	7.6	75	117	5	P2386STI0760	●
7.70	0/-0.022	7.7	75	117	5	P2386STI0770	●
7.80	0/-0.022	7.8	75	117	5	P2386STI0780	●
7.90	0/-0.022	7.9	75	117	5	P2386STI0790	●
8.00	0/-0.022	8	75	117	5	P2386STI0800	●
8.10	0/-0.022	8.1	75	117	5	P2386STI0810	●
8.20	0/-0.022	8.2	75	117	5	P2386STI0820	●
8.30	0/-0.022	8.3	75	117	5	P2386STI0830	●
8.40	0/-0.022	8.4	75	117	5	P2386STI0840	●
8.50	0/-0.022	8.5	75	117	5	P2386STI0850	●
8.60	0/-0.022	8.6	81	125	5	P2386STI0860	●
8.70	0/-0.022	8.7	81	125	5	P2386STI0870	●

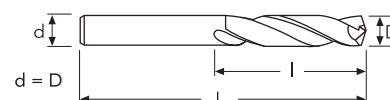
2386STI

Свёрла HSS-HSS/Co с покрытием TiN для твёрдых материалов



P	M	K	N	S	H
H	H	H	I	I	

H 1st choice I suitable



D(h8)	D Tol.	d	I	L	PACKAGING	EDP No.	Stock
8.80	0/-0.022	8.8	81	125	5	P2386STI0880	●
8.90	0/-0.022	8.9	81	125	5	P2386STI0890	●
9.00	0/-0.022	9	81	125	5	P2386STI0900	●
9.10	0/-0.022	9.1	81	125	5	P2386STI0910	●
9.20	0/-0.022	9.2	81	125	5	P2386STI0920	●
9.30	0/-0.022	9.3	81	125	5	P2386STI0930	●
9.40	0/-0.022	9.4	81	125	5	P2386STI0940	●
9.50	0/-0.022	9.5	81	125	5	P2386STI0950	●
9.60	0/-0.022	9.6	87	133	5	P2386STI0960	●
9.70	0/-0.022	9.7	87	133	5	P2386STI0970	●
9.80	0/-0.022	9.8	87	133	5	P2386STI0980	●
9.90	0/-0.022	9.9	87	133	5	P2386STI0990	●
10.00	0/-0.022	10	87	133	5	P2386STI1000	●
10.10	0/-0.027	10.1	87	133	5	P2386STI1010	●
10.20	0/-0.027	10.2	87	133	5	P2386STI1020	●
10.30	0/-0.027	10.3	87	133	5	P2386STI1030	●
10.40	0/-0.027	10.4	87	133	5	P2386STI1040	●
10.50	0/-0.027	10.5	87	133	5	P2386STI1050	●
10.60	0/-0.027	10.6	87	133	5	P2386STI1060	●
10.70	0/-0.027	10.7	94	142	5	P2386STI1070	●
10.80	0/-0.027	10.8	94	142	5	P2386STI1080	●
10.90	0/-0.027	10.9	94	142	5	P2386STI1090	●
11.00	0/-0.027	11	94	142	5	P2386STI1100	●
11.10	0/-0.027	11.1	94	142	5	P2386STI1110	●
11.20	0/-0.027	11.2	94	142	5	P2386STI1120	●
11.30	0/-0.027	11.3	94	142	5	P2386STI1130	●
11.40	0/-0.027	11.4	94	142	5	P2386STI1140	●
11.50	0/-0.027	11.5	94	142	5	P2386STI1150	●
11.60	0/-0.027	11.6	94	142	5	P2386STI1160	●
11.70	0/-0.027	11.7	94	142	5	P2386STI1170	●
11.80	0/-0.027	11.8	94	142	5	P2386STI1180	●
11.90	0/-0.027	11.9	101	151	5	P2386STI1190	●
12.00	0/-0.027	12	101	151	5	P2386STI1200	●
12.10	0/-0.027	12.1	101	151	5	P2386STI1210	●
12.20	0/-0.027	12.2	101	151	5	P2386STI1220	●
12.30	0/-0.027	12.3	101	151	5	P2386STI1230	●
12.40	0/-0.027	12.4	101	151	5	P2386STI1240	●
12.50	0/-0.027	12.5	101	151	5	P2386STI1250	●
12.60	0/-0.027	12.6	101	151	5	P2386STI1260	●

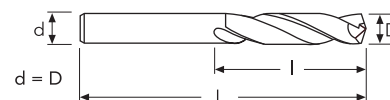
2386STI

Свёрла HSS-HSS/Co с покрытием TiN для твёрдых материалов



P	M	K	N	S	H
H	H	H	I	I	

H 1st choice I suitable

[illegible]

● stock standard ○ non-standard stock ▽ stock exhaustion

2386STI

Material Group ISO 513	P1 P2	P3 P4	P7	M1	M2	
Hardness/Rm	500÷700 N/mm ²	600÷1000 N/mm ²				
Vc (m/min)	30÷40	25÷35	15÷25	15÷25	12÷18	
D (mm)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	
1	0.017	0.014	0.012	0.012	0.009	
1.5	0.035	0.030	0.025	0.025	0.018	
2	0.050	0.043	0.035	0.035	0.025	
2.5	0.075	0.064	0.053	0.053	0.038	
3	0.090	0.077	0.063	0.063	0.045	
3.5	0.105	0.089	0.074	0.074	0.053	
4	0.110	0.094	0.077	0.077	0.055	
5	0.125	0.106	0.088	0.088	0.063	
6	0.160	0.136	0.112	0.112	0.080	
7	0.175	0.149	0.123	0.123	0.088	
8	0.200	0.170	0.140	0.140	0.100	
9	0.210	0.179	0.147	0.147	0.105	
10	0.220	0.187	0.154	0.154	0.110	
11	0.235	0.200	0.165	0.165	0.118	
12	0.250	0.213	0.175	0.175	0.125	
13	0.265	0.225	0.186	0.186	0.133	

Material Group ISO 513	K1 K2	K3 K4	N1 N5	N2 N3 N4	S1 S2 S4	
Hardness/Rm	150÷350 HB	<350 HB			<35 HRC	
Vc (m/min)	30÷40	25÷35	60÷80	50÷70	12÷18	
D (mm)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	fn (mm/rev)	
1	0.019	0.013	0.024	0.017	0.007	
1.5	0.039	0.026	0.049	0.035	0.014	
2	0.055	0.038	0.070	0.050	0.020	
2.5	0.083	0.056	0.105	0.075	0.030	
3	0.099	0.068	0.126	0.090	0.036	
3.5	0.116	0.079	0.147	0.105	0.042	
4	0.121	0.083	0.154	0.110	0.044	
5	0.138	0.094	0.175	0.125	0.050	
6	0.176	0.120	0.224	0.160	0.064	
7	0.193	0.131	0.245	0.175	0.070	
8	0.220	0.150	0.280	0.200	0.080	
9	0.231	0.158	0.294	0.210	0.084	
10	0.242	0.165	0.308	0.220	0.088	
11	0.259	0.176	0.329	0.235	0.094	
12	0.275	0.188	0.350	0.250	0.100	
13	0.292	0.199	0.371	0.265	0.106	