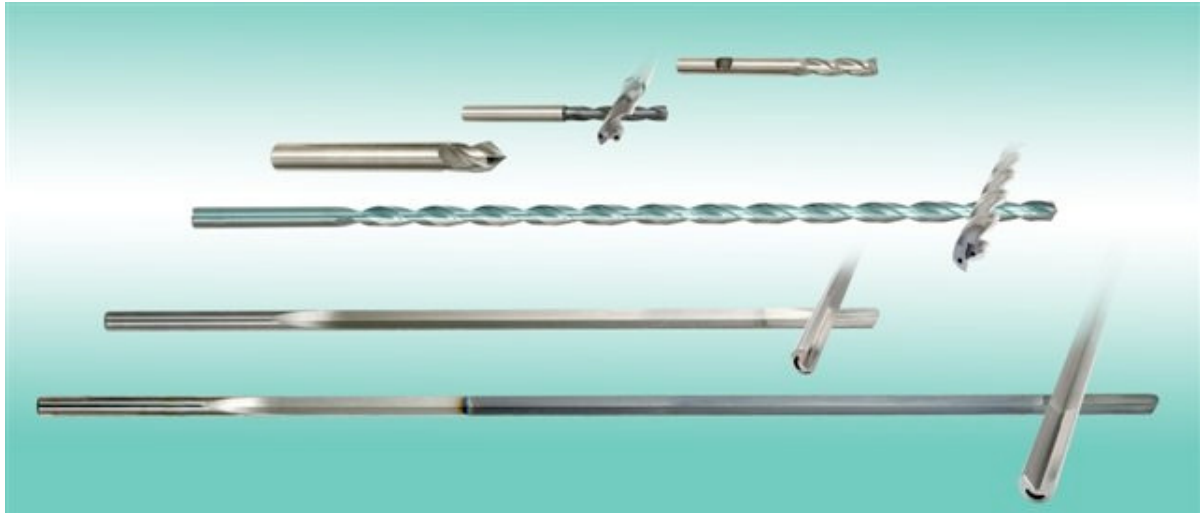


NEW 2010

TBT-HS-TWIST-DRILL



HS-TWIST-Drill-15xD - Drill diameter: 3,00 – 16,00 mm

HS- TWIST-Drill-20xD - Drill diameter: 3,00 – 16,00 mm

HS- TWIST-Drill-25xD - Drill diameter: 3,00 – 14,00 mm

HS- TWIST-Drill-30xD - Drill diameter: 3,00 – 12,00 mm



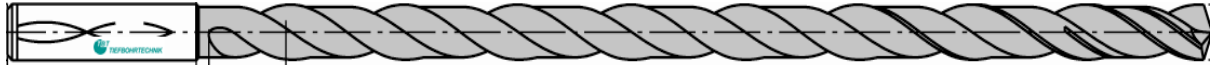
with internal coolant supply

in all dimensions available

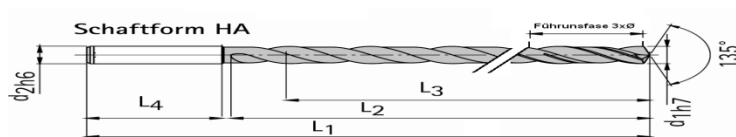
Design:

Coating: MxF ("E")
No. of flutes: 2
Guiding margins: 4
Shank form: HA ("A")
Point geometry: Special point geometry
Point angle: 135°
Helix: 30°

TBT-TWIST-DRILL 15xD

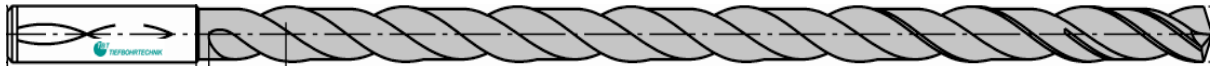


Tool \varnothing	Shank \varnothing	OAL	Flute length	max. drill depth	length x \varnothing	Shank length
d1 h7	d2 h6	L1	L2	L3		L4
3,00	4,00	90,00	56,00	52,00	17,00	32,00
3,50	4,00	100,00	66,00	61,00	17,00	32,00
4,00	4,00	100,00	66,00	60,00	15,00	34,00
4,50	5,00	110,00	74,00	67,00	15,00	34,00
5,00	5,00	120,00	84,00	77,00	15,00	34,00
5,50	6,00	130,00	92,00	84,00	15,00	36,00
6,00	6,00	140,00	102,00	93,00	16,00	36,00
7,00	7,00	155,00	115,00	105,00	15,00	38,00
8,00	8,00	175,00	133,00	121,00	15,00	40,00
9,00	9,00	190,00	148,00	135,00	15,00	40,00
10,00	10,00	210,00	168,00	153,00	15,00	40,00
11,00	11,00	230,00	183,00	167,00	15,00	45,00
12,00	12,00	250,00	250,00	185,00	15,00	45,00
13,00	13,00	265,00	265,00	199,00	15,00	45,00
14,00	14,00	285,00	233,00	212,00	15,00	50,00
15,00	15,00	305,00	253,00	231,00	15,00	50,00
16,00	16,00	320,00	268,00	244,00	15,00	50,00

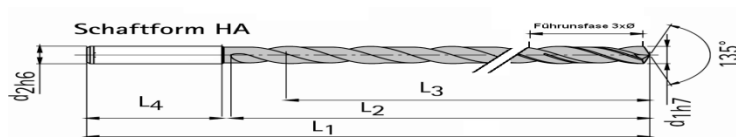


Solide Carbide , Point angle 135°, Shank form: HA,
2 Flutes with 4 Guiding pads, Helix: 30, internal coolant

TBT-TWIST-DRILL 20xD

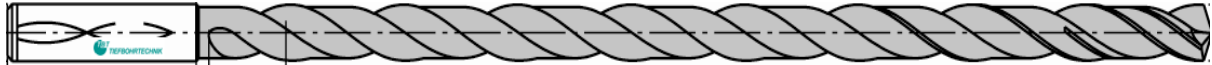


Tool \varnothing	Shank \varnothing	OAL	Flute length	max. drill depth	Length x \varnothing	Shank length
d1 h7	d2 h6	L1	L2	L3		L4
3,00	3,00	110,00	74,00	70,00	23,00	32,00
3,50	3,50	120,00	86,00	81,00	23,00	32,00
4,00	4,00	120,00	86,00	80,00	20,00	32,00
4,50	4,50	135,00	98,00	91,00	20,00	34,00
5,00	5,00	145,00	109,00	102,00	20,00	34,00
5,50	5,50	160,00	120,00	112,00	20,00	36,00
6,00	6,00	170,00	130,00	121,00	20,00	36,00
7,00	7,00	190,00	150,00	140,00	20,00	38,00
8,00	8,00	215,00	173,00	161,00	20,00	40,00
9,00	9,00	240,00	196,00	183,00	20,00	40,00
10,00	10,00	260,00	218,00	203,00	20,00	40,00
11,00	11,00	285,00	238,00	222,00	20,00	45,00
12,00	12,00	305,00	258,00	240,00	20,00	45,00
13,00	13,00	330,00	283,00	264,00	20,00	45,00
14,00	14,00	355,00	303,00	282,00	20,00	50,00
15,00	15,00	375,00	323,00	301,00	20,00	50,00
16,00	16,00	400,00	348,00	324,00	20,00	50,00

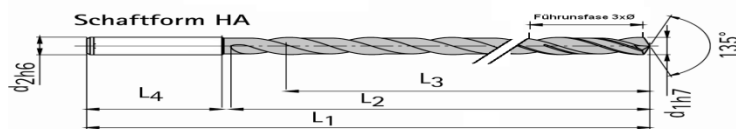


Solide Carbide , Point angle 135°, Shank form: HA,
2 Flutes with 4 Guiding pads, Helix: 30, internal coolant

TBT-TWIST-DRILL 25xD

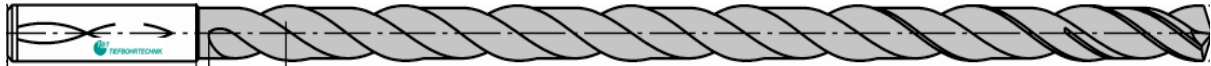


Tool \varnothing	Shank \varnothing	OAL	Flute length	max. drill depth	length x \varnothing	Shank length
d1 h7	d2 h6	L1	L2	L3		L4
3,00	4,00	125,00	91,00	87,00	29,00	32,00
3,50	4,00	140,00	106,00	101,00	29,00	32,00
4,00	4,00	140,00	106,00	100,00	25,00	32,00
4,50	5,00	155,00	119,00	112,00	25,00	34,00
5,00	5,00	170,00	134,00	127,00	25,00	34,00
5,50	6,00	185,00	147,00	139,00	25,00	36,00
6,00	6,00	200,00	160,00	151,00	25,00	36,00
7,00	7,00	225,00	185,00	175,00	25,00	38,00
8,00	8,00	255,00	213,00	201,00	25,00	40,00
9,00	9,00	280,00	238,00	225,00	25,00	40,00
10,00	10,00	310,00	268,00	253,00	25,00	40,00
11,00	11,00	340,00	293,00	277,00	25,00	45,00
12,00	12,00	365,00	318,00	300,00	25,00	45,00
13,00	13,00	390,00	343,00	324,00	25,00	45,00
14,00	14,00	425,00	373,00	352,00	25,00	50,00

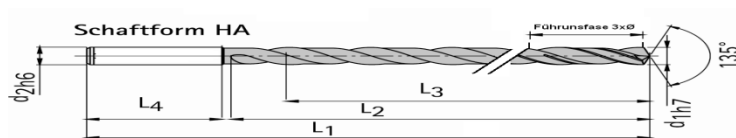


Solide Carbide , Point angle 135°, Shank form: HA,
2 Flutes with 4 Guiding pads, Helix: 30, internal coolant

TBT-TWIST-DRILL 30xD



Tool \varnothing	Shank \varnothing	OAL	Flute length	max. drill depth	length x \varnothing	Shank length
d1 h7	d2 h6	L1	L2	L3		L4
3,00	3,00	145,00	110,00	106,00	35,00	32,00
3,50	3,50	160,00	126,00	121,00	35,00	32,00
4,00	4,00	160,00	126,00	120,00	30,00	32,00
4,50	4,50	180,00	144,00	137,00	31,00	34,00
5,00	5,00	195,00	159,00	152,00	30,00	34,00
5,50	5,50	210,00	172,00	164,00	30,00	36,00
6,00	6,00	230,00	192,00	183,00	31,00	36,00
7,00	7,00	260,00	220,00	210,00	30,00	38,00
8,00	8,00	295,00	253,00	241,00	30,00	40,00
9,00	9,00	325,00	283,00	270,00	30,00	40,00
10,00	10,00	360,00	318,00	303,00	30,00	40,00
11,00	11,00	400,00	353,00	337,00	31,00	45,00
12,00	12,00	430,00	383,00	365,00	30,00	45,00



Solide Carbide , Point angle 135°, Shank form: HA,
2 Flutes with 4 Guiding pads, Helix: 30, internal coolant

