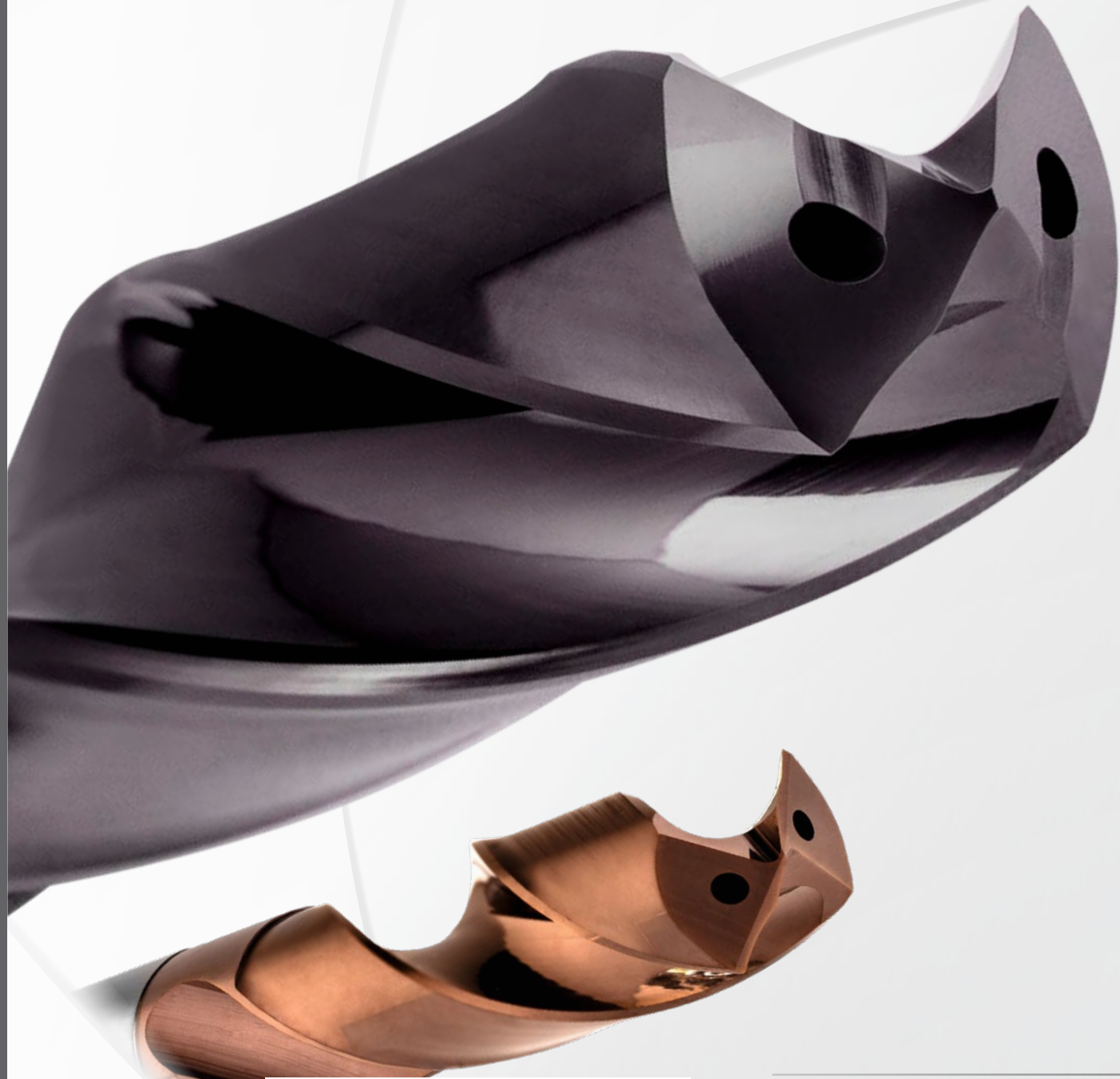




MAYER
TOOLS

Mayer Tools GmbH
Am Sturmbühl 4, DE-78559 Gosheim



Telefon 07426 5197-0
info@mayer.tools, www.mayer.tools

SuperV-X
SuperV-X VA

 **ISTOCK**

Span – um Span – Spitze

Suppe

- kombinierte Optimierung aller Werkzeugparameter ermöglicht hohe Vorschübe und Zeitspannvolumina
- weiterentwickelte TiAlN nano-Beschichtung
- Stahlbearbeitung mit hoher Performance
- neue Geometrieform mit Kegelmantelanschliiff und 4 Führungsfasen



rw-x



SuperV-Bohrer

SuperV-Bohrer mit Innenkühlung

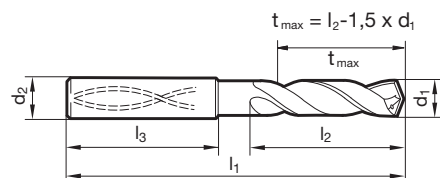


Katalog-Nr. 51784



P	M	K	N	S	H
●	○	○	○	○	○

- Kegelmantelschliff
- Hauptschneidenform konkav
- optimierte Schneidengeometrie
- vier Führungsfasen



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	62,000	20,000	36,000
3,100	6,000	62,000	20,000	36,000
3,170	6,000	62,000	20,000	36,000
3,200	6,000	62,000	20,000	36,000
3,250	6,000	62,000	20,000	36,000
3,300	6,000	62,000	20,000	36,000
3,400	6,000	62,000	20,000	36,000
3,500	6,000	62,000	20,000	36,000
3,570	6,000	62,000	20,000	36,000
3,600	6,000	62,000	20,000	36,000
3,700	6,000	62,000	20,000	36,000
3,800	6,000	66,000	24,000	36,000
3,900	6,000	66,000	24,000	36,000
3,970	6,000	66,000	24,000	36,000
4,000	6,000	66,000	24,000	36,000
4,040	6,000	66,000	24,000	36,000
4,100	6,000	66,000	24,000	36,000
4,200	6,000	66,000	24,000	36,000
4,300	6,000	66,000	24,000	36,000
4,370	6,000	66,000	24,000	36,000
4,400	6,000	66,000	24,000	36,000
4,500	6,000	66,000	24,000	36,000
4,600	6,000	66,000	24,000	36,000
4,650	6,000	66,000	24,000	36,000
4,700	6,000	66,000	24,000	36,000
4,760	6,000	66,000	28,000	36,000
4,800	6,000	66,000	28,000	36,000
4,900	6,000	66,000	28,000	36,000
5,000	6,000	66,000	28,000	36,000
5,100	6,000	66,000	28,000	36,000
5,110	6,000	66,000	28,000	36,000
5,160	6,000	66,000	28,000	36,000
5,200	6,000	66,000	28,000	36,000
5,300	6,000	66,000	28,000	36,000
5,400	6,000	66,000	28,000	36,000
5,410	6,000	66,000	28,000	36,000
5,500	6,000	66,000	28,000	36,000
5,550	6,000	66,000	28,000	36,000
5,560	6,000	66,000	28,000	36,000
5,600	6,000	66,000	28,000	36,000
5,700	6,000	66,000	28,000	36,000
5,800	6,000	66,000	28,000	36,000
5,900	6,000	66,000	28,000	36,000
5,950	6,000	66,000	28,000	36,000
6,000	6,000	66,000	28,000	36,000
6,100	8,000	79,000	34,000	36,000
6,200	8,000	79,000	34,000	36,000
6,300	8,000	79,000	34,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	79,000	34,000	36,000
6,400	8,000	79,000	34,000	36,000
6,500	8,000	79,000	34,000	36,000
6,530	8,000	79,000	34,000	36,000
6,550	8,000	79,000	34,000	36,000
6,600	8,000	79,000	34,000	36,000
6,700	8,000	79,000	34,000	36,000
6,750	8,000	79,000	34,000	36,000
6,800	8,000	79,000	34,000	36,000
6,900	8,000	79,000	34,000	36,000
7,000	8,000	79,000	34,000	36,000
7,100	8,000	79,000	41,000	36,000
7,140	8,000	79,000	41,000	36,000
7,200	8,000	79,000	41,000	36,000
7,300	8,000	79,000	41,000	36,000
7,400	8,000	79,000	41,000	36,000
7,500	8,000	79,000	41,000	36,000
7,540	8,000	79,000	41,000	36,000
7,550	8,000	79,000	41,000	36,000
7,600	8,000	79,000	41,000	36,000
7,650	8,000	79,000	41,000	36,000
7,700	8,000	79,000	41,000	36,000
7,800	8,000	79,000	41,000	36,000
7,900	8,000	79,000	41,000	36,000
7,940	8,000	79,000	41,000	36,000
8,000	8,000	79,000	41,000	36,000
8,100	10,000	89,000	47,000	40,000
8,200	10,000	89,000	47,000	40,000
8,300	10,000	89,000	47,000	40,000
8,330	10,000	89,000	47,000	40,000
8,400	10,000	89,000	47,000	40,000
8,500	10,000	89,000	47,000	40,000
8,600	10,000	89,000	47,000	40,000
8,700	10,000	89,000	47,000	40,000
8,730	10,000	89,000	47,000	40,000
8,800	10,000	89,000	47,000	40,000
8,900	10,000	89,000	47,000	40,000
9,000	10,000	89,000	47,000	40,000
9,100	10,000	89,000	47,000	40,000
9,130	10,000	89,000	47,000	40,000
9,200	10,000	89,000	47,000	40,000
9,250	10,000	89,000	47,000	40,000
9,300	10,000	89,000	47,000	40,000
9,340	10,000	89,000	47,000	40,000
9,400	10,000	89,000	47,000	40,000
9,500	10,000	89,000	47,000	40,000
9,520	10,000	89,000	47,000	40,000
9,550	10,000	89,000	47,000	40,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
14,600	16,000	115,000	65,000	48,000
14,680	16,000	115,000	65,000	48,000
14,700	16,000	115,000	65,000	48,000
14,800	16,000	115,000	65,000	48,000
14,900	16,000	115,000	65,000	48,000
15,000	16,000	115,000	65,000	48,000
15,080	16,000	115,000	65,000	48,000
15,100	16,000	115,000	65,000	48,000
15,200	16,000	115,000	65,000	48,000
15,300	16,000	115,000	65,000	48,000
15,400	16,000	115,000	65,000	48,000
15,480	16,000	115,000	65,000	48,000
15,500	16,000	115,000	65,000	48,000
15,550	16,000	115,000	65,000	48,000
15,600	16,000	115,000	65,000	48,000
15,700	16,000	115,000	65,000	48,000
15,800	16,000	115,000	65,000	48,000
15,870	16,000	115,000	65,000	48,000
15,900	16,000	115,000	65,000	48,000
16,000	16,000	115,000	65,000	48,000
16,270	18,000	123,000	73,000	48,000
16,300	18,000	123,000	73,000	48,000
16,500	18,000	123,000	73,000	48,000
16,670	18,000	123,000	73,000	48,000
16,700	18,000	123,000	73,000	48,000
16,900	18,000	123,000	73,000	48,000
17,000	18,000	123,000	73,000	48,000
17,070	18,000	123,000	73,000	48,000
17,460	18,000	123,000	73,000	48,000
17,500	18,000	123,000	73,000	48,000
17,550	18,000	123,000	73,000	48,000
17,700	18,000	123,000	73,000	48,000
17,860	18,000	123,000	73,000	48,000
18,000	18,000	123,000	73,000	48,000
18,260	20,000	131,000	79,000	50,000
18,500	20,000	131,000	79,000	50,000
18,700	20,000	131,000	79,000	50,000
18,900	20,000	131,000	79,000	50,000
19,000	20,000	131,000	79,000	50,000
19,050	20,000	131,000	79,000	50,000
19,250	20,000	131,000	79,000	50,000
19,300	20,000	131,000	79,000	50,000
19,450	20,000	131,000	79,000	50,000
19,500	20,000	131,000	79,000	50,000
19,550	20,000	131,000	79,000	50,000
19,700	20,000	131,000	79,000	50,000
19,800	20,000	131,000	79,000	50,000
19,840	20,000	131,000	79,000	50,000
20,000	20,000	131,000	79,000	50,000

SuperV-Bohrer

SuperV-Bohrer mit Innenkühlung

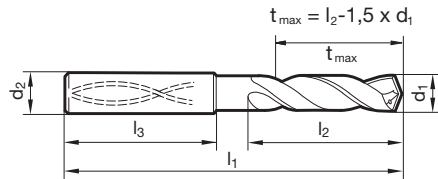


Katalog-Nr. 51786



P	M	K	N	S	H
●	○	○	○	○	○

- Kegelmantelschliff
- Hauptschneidenform konkav
- optimierte Schneidengeometrie
- vier Führungsfasen



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	66,000	28,000	36,000
3,100	6,000	66,000	28,000	36,000
3,170	6,000	66,000	28,000	36,000
3,200	6,000	66,000	28,000	36,000
3,250	6,000	66,000	28,000	36,000
3,300	6,000	66,000	28,000	36,000
3,400	6,000	66,000	28,000	36,000
3,500	6,000	66,000	28,000	36,000
3,570	6,000	66,000	28,000	36,000
3,600	6,000	66,000	28,000	36,000
3,700	6,000	66,000	28,000	36,000
3,800	6,000	74,000	36,000	36,000
3,900	6,000	74,000	36,000	36,000
3,970	6,000	74,000	36,000	36,000
4,000	6,000	74,000	36,000	36,000
4,040	6,000	74,000	36,000	36,000
4,100	6,000	74,000	36,000	36,000
4,200	6,000	74,000	36,000	36,000
4,300	6,000	74,000	36,000	36,000
4,370	6,000	74,000	36,000	36,000
4,400	6,000	74,000	36,000	36,000
4,500	6,000	74,000	36,000	36,000
4,600	6,000	74,000	36,000	36,000
4,650	6,000	74,000	36,000	36,000
4,700	6,000	74,000	36,000	36,000
4,760	6,000	82,000	44,000	36,000
4,800	6,000	82,000	44,000	36,000
4,900	6,000	82,000	44,000	36,000
5,000	6,000	82,000	44,000	36,000
5,100	6,000	82,000	44,000	36,000
5,110	6,000	82,000	44,000	36,000
5,160	6,000	82,000	44,000	36,000
5,200	6,000	82,000	44,000	36,000
5,300	6,000	82,000	44,000	36,000
5,400	6,000	82,000	44,000	36,000
5,410	6,000	82,000	44,000	36,000
5,500	6,000	82,000	44,000	36,000
5,550	6,000	82,000	44,000	36,000
5,560	6,000	82,000	44,000	36,000
5,600	6,000	82,000	44,000	36,000
5,700	6,000	82,000	44,000	36,000
5,800	6,000	82,000	44,000	36,000
5,900	6,000	82,000	44,000	36,000
5,950	6,000	82,000	44,000	36,000
6,000	6,000	82,000	44,000	36,000
6,100	8,000	91,000	53,000	36,000
6,200	8,000	91,000	53,000	36,000
6,300	8,000	91,000	53,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	91,000	53,000	36,000
6,400	8,000	91,000	53,000	36,000
6,500	8,000	91,000	53,000	36,000
6,530	8,000	91,000	53,000	36,000
6,550	8,000	91,000	53,000	36,000
6,600	8,000	91,000	53,000	36,000
6,700	8,000	91,000	53,000	36,000
6,750	8,000	91,000	53,000	36,000
6,800	8,000	91,000	53,000	36,000
6,900	8,000	91,000	53,000	36,000
7,000	8,000	91,000	53,000	36,000
7,100	8,000	91,000	53,000	36,000
7,140	8,000	91,000	53,000	36,000
7,200	8,000	91,000	53,000	36,000
7,300	8,000	91,000	53,000	36,000
7,400	8,000	91,000	53,000	36,000
7,500	8,000	91,000	53,000	36,000
7,540	8,000	91,000	53,000	36,000
7,550	8,000	91,000	53,000	36,000
7,600	8,000	91,000	53,000	36,000
7,650	8,000	91,000	53,000	36,000
7,700	8,000	91,000	53,000	36,000
7,800	8,000	91,000	53,000	36,000
7,900	8,000	91,000	53,000	36,000
7,940	8,000	91,000	53,000	36,000
8,000	8,000	91,000	53,000	36,000
8,100	10,000	103,000	61,000	40,000
8,200	10,000	103,000	61,000	40,000
8,300	10,000	103,000	61,000	40,000
8,330	10,000	103,000	61,000	40,000
8,400	10,000	103,000	61,000	40,000
8,500	10,000	103,000	61,000	40,000
8,600	10,000	103,000	61,000	40,000
8,700	10,000	103,000	61,000	40,000
8,730	10,000	103,000	61,000	40,000
8,800	10,000	103,000	61,000	40,000
8,900	10,000	103,000	61,000	40,000
9,000	10,000	103,000	61,000	40,000
9,100	10,000	103,000	61,000	40,000
9,130	10,000	103,000	61,000	40,000
9,200	10,000	103,000	61,000	40,000
9,250	10,000	103,000	61,000	40,000
9,300	10,000	103,000	61,000	40,000
9,340	10,000	103,000	61,000	40,000
9,400	10,000	103,000	61,000	40,000
9,500	10,000	103,000	61,000	40,000
9,520	10,000	103,000	61,000	40,000
9,550	10,000	103,000	61,000	40,000

SuperV-Bohrer

SuperV-Bohrer mit Innenkühlung

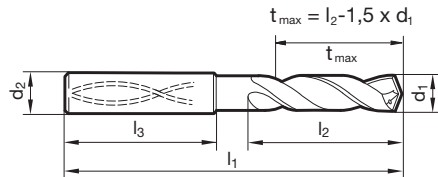


Katalog-Nr. 51791



P	M	K	N	S	H
●	○	○	○	○	○

- Kegelmantelschliff
- Hauptschneidenform konkav
- optimierte Schneidengeometrie
- vier Führungsfasen



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	70,000	30,000	36,000
3,100	6,000	70,000	30,000	36,000
3,170	6,000	70,000	30,000	36,000
3,200	6,000	70,000	30,000	36,000
3,250	6,000	70,000	30,000	36,000
3,300	6,000	70,000	30,000	36,000
3,400	6,000	75,000	35,500	36,000
3,500	6,000	75,000	35,500	36,000
3,570	6,000	75,000	35,500	36,000
3,600	6,000	75,000	35,500	36,000
3,700	6,000	75,000	35,500	36,000
3,800	6,000	75,000	37,500	36,000
3,900	6,000	75,000	37,500	36,000
3,970	6,000	75,000	37,500	36,000
4,000	6,000	75,000	37,500	36,000
4,040	6,000	75,000	37,500	36,000
4,100	6,000	75,000	37,500	36,000
4,200	6,000	75,000	37,500	36,000
4,300	6,000	85,000	45,000	36,000
4,370	6,000	85,000	45,000	36,000
4,400	6,000	85,000	45,000	36,000
4,500	6,000	85,000	45,000	36,000
4,600	6,000	85,000	45,000	36,000
4,650	6,000	85,000	45,000	36,000
4,700	6,000	85,000	45,000	36,000
4,760	6,000	90,000	50,000	36,000
4,800	6,000	90,000	50,000	36,000
4,900	6,000	90,000	50,000	36,000
5,000	6,000	90,000	50,000	36,000
5,100	6,000	90,000	50,000	36,000
5,110	6,000	90,000	50,000	36,000
5,160	6,000	90,000	50,000	36,000
5,200	6,000	90,000	50,000	36,000
5,300	6,000	90,000	50,000	36,000
5,400	6,000	97,000	57,000	36,000
5,410	6,000	97,000	57,000	36,000
5,500	6,000	97,000	57,000	36,000
5,550	6,000	97,000	57,000	36,000
5,560	6,000	97,000	57,000	36,000
5,600	6,000	97,000	57,000	36,000
5,700	6,000	97,000	57,000	36,000
5,800	6,000	97,000	57,000	36,000
5,900	6,000	97,000	57,000	36,000
5,950	6,000	97,000	57,000	36,000
6,000	6,000	97,000	57,000	36,000
6,100	8,000	106,000	66,000	36,000
6,200	8,000	106,000	66,000	36,000
6,300	8,000	106,000	66,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	106,000	66,000	36,000
6,400	8,000	106,000	66,000	36,000
6,500	8,000	106,000	66,000	36,000
6,530	8,000	106,000	66,000	36,000
6,550	8,000	106,000	66,000	36,000
6,600	8,000	106,000	66,000	36,000
6,700	8,000	106,000	66,000	36,000
6,750	8,000	106,000	66,000	36,000
6,800	8,000	106,000	66,000	36,000
6,900	8,000	116,000	76,000	36,000
7,000	8,000	116,000	76,000	36,000
7,100	8,000	116,000	76,000	36,000
7,140	8,000	116,000	76,000	36,000
7,200	8,000	116,000	76,000	36,000
7,300	8,000	116,000	76,000	36,000
7,400	8,000	116,000	76,000	36,000
7,500	8,000	116,000	76,000	36,000
7,540	8,000	116,000	76,000	36,000
7,550	8,000	116,000	76,000	36,000
7,600	8,000	116,000	76,000	36,000
7,650	8,000	116,000	76,000	36,000
7,700	8,000	116,000	76,000	36,000
7,800	8,000	116,000	76,000	36,000
7,900	8,000	116,000	76,000	36,000
7,940	8,000	116,000	76,000	36,000
8,000	8,000	116,000	76,000	36,000
8,100	10,000	131,000	87,000	40,000
8,200	10,000	131,000	87,000	40,000
8,300	10,000	131,000	87,000	40,000
8,330	10,000	131,000	87,000	40,000
8,400	10,000	131,000	87,000	40,000
8,500	10,000	131,000	87,000	40,000
8,600	10,000	131,000	87,000	40,000
8,700	10,000	131,000	87,000	40,000
8,730	10,000	131,000	87,000	40,000
8,800	10,000	131,000	87,000	40,000
8,900	10,000	131,000	87,000	40,000
9,000	10,000	131,000	87,000	40,000
9,100	10,000	139,000	95,000	40,000
9,130	10,000	139,000	95,000	40,000
9,200	10,000	139,000	95,000	40,000
9,250	10,000	139,000	95,000	40,000
9,300	10,000	139,000	95,000	40,000
9,340	10,000	139,000	95,000	40,000
9,400	10,000	139,000	95,000	40,000
9,500	10,000	139,000	95,000	40,000
9,520	10,000	139,000	95,000	40,000
9,550	10,000	139,000	95,000	40,000

d1	d2	l1	l2	l3
mm	mm	mm	mm	mm
14,100	16,000	204,000	152,000	48,000
14,200	16,000	204,000	152,000	48,000
14,290	16,000	204,000	152,000	48,000
14,300	16,000	204,000	152,000	48,000
14,400	16,000	204,000	152,000	48,000
14,500	16,000	204,000	152,000	48,000
14,600	16,000	204,000	152,000	48,000
14,680	16,000	204,000	152,000	48,000
14,700	16,000	204,000	152,000	48,000
14,800	16,000	204,000	152,000	48,000
14,900	16,000	204,000	152,000	48,000
15,000	16,000	204,000	152,000	48,000
15,080	16,000	204,000	152,000	48,000
15,100	16,000	204,000	152,000	48,000
15,200	16,000	204,000	152,000	48,000
15,300	16,000	204,000	152,000	48,000
15,400	16,000	204,000	152,000	48,000
15,480	16,000	204,000	152,000	48,000
15,500	16,000	204,000	152,000	48,000
15,550	16,000	204,000	152,000	48,000
15,600	16,000	204,000	152,000	48,000
15,700	16,000	204,000	152,000	48,000
15,800	16,000	204,000	152,000	48,000
15,870	16,000	204,000	152,000	48,000
15,900	16,000	204,000	152,000	48,000
16,000	16,000	204,000	152,000	48,000
16,270	18,000	223,000	171,000	48,000
16,300	18,000	223,000	171,000	48,000
16,500	18,000	223,000	171,000	48,000
16,670	18,000	223,000	171,000	48,000
16,700	18,000	223,000	171,000	48,000
16,900	18,000	223,000	171,000	48,000
17,000	18,000	223,000	171,000	48,000
17,070	18,000	223,000	171,000	48,000
17,460	18,000	223,000	171,000	48,000
17,500	18,000	223,000	171,000	48,000
17,550	18,000	223,000	171,000	48,000
17,700	18,000	223,000	171,000	48,000
17,860	18,000	223,000	171,000	48,000
18,000	18,000	223,000	171,000	48,000
18,260	20,000	244,000	190,000	50,000
18,500	20,000	244,000	190,000	50,000
18,900	20,000	244,000	190,000	50,000
19,000	20,000	244,000	190,000	50,000
19,050	20,000	244,000	190,000	50,000
19,250	20,000	244,000	190,000	50,000
19,300	20,000	244,000	190,000	50,000
19,450	20,000	244,000	190,000	50,000
19,500	20,000	244,000	190,000	50,000
19,550	20,000	244,000	190,000	50,000
19,700	20,000	244,000	190,000	50,000
19,800	20,000	244,000	190,000	50,000
19,840	20,000	244,000	190,000	50,000
20,000	20,000	244,000	190,000	50,000

SuperV-Bohrer

SuperV-Bohrer mit Innenkühlung

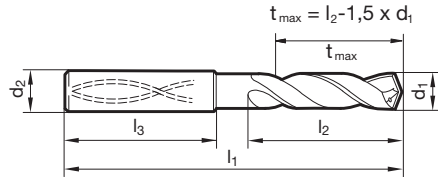


Katalog-Nr. 51792



P	M	K	N	S	H
●	○	○	○	○	○

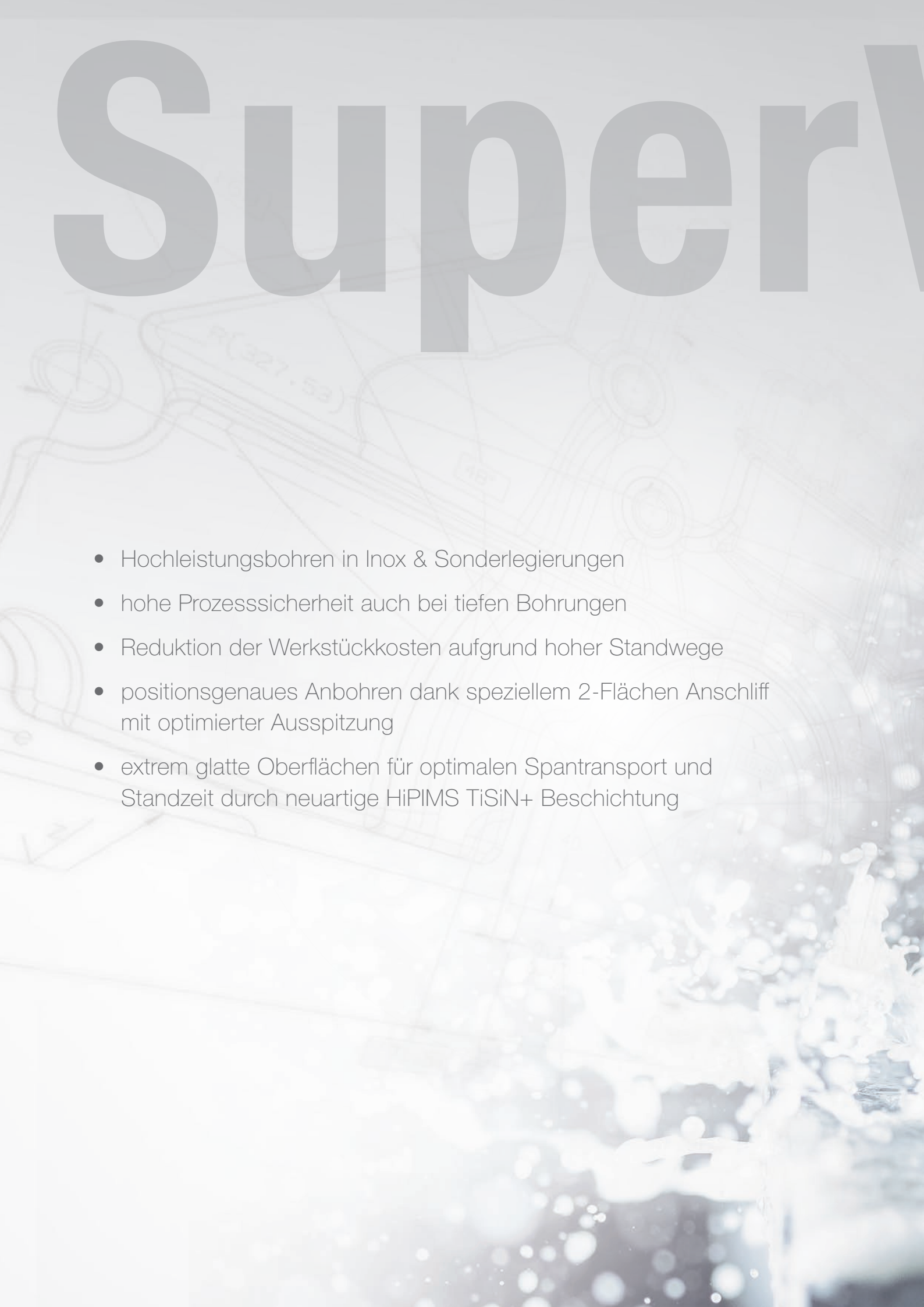
- Kegelmantelschliff
- Hauptschneidenform konkav
- optimierte Schneidengeometrie
- vier Führungsfasen



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	95,000	55,000	36,000
3,100	6,000	95,000	55,000	36,000
3,170	6,000	95,000	55,000	36,000
3,200	6,000	95,000	55,000	36,000
3,250	6,000	95,000	55,000	36,000
3,300	6,000	95,000	55,000	36,000
3,400	6,000	95,000	55,000	36,000
3,500	6,000	102,000	62,000	36,000
3,570	6,000	102,000	62,000	36,000
3,600	6,000	102,000	62,000	36,000
3,700	6,000	102,000	62,000	36,000
3,800	6,000	102,000	62,000	36,000
3,900	6,000	102,000	62,000	36,000
3,970	6,000	102,000	62,000	36,000
4,000	6,000	102,000	62,000	36,000
4,040	6,000	109,000	69,000	36,000
4,100	6,000	109,000	69,000	36,000
4,200	6,000	109,000	69,000	36,000
4,300	6,000	109,000	69,000	36,000
4,370	6,000	109,000	69,000	36,000
4,400	6,000	109,000	69,000	36,000
4,500	6,000	116,000	76,000	36,000
4,600	6,000	116,000	76,000	36,000
4,650	6,000	116,000	76,000	36,000
4,700	6,000	116,000	76,000	36,000
4,760	6,000	116,000	76,000	36,000
4,800	6,000	116,000	76,000	36,000
4,900	6,000	116,000	76,000	36,000
5,000	6,000	116,000	76,000	36,000
5,100	6,000	123,000	83,000	36,000
5,110	6,000	123,000	83,000	36,000
5,160	6,000	123,000	83,000	36,000
5,200	6,000	123,000	83,000	36,000
5,300	6,000	123,000	83,000	36,000
5,400	6,000	123,000	83,000	36,000
5,410	6,000	123,000	83,000	36,000
5,500	6,000	130,000	90,000	36,000
5,550	6,000	130,000	90,000	36,000
5,560	6,000	130,000	90,000	36,000
5,600	6,000	130,000	90,000	36,000
5,700	6,000	130,000	90,000	36,000
5,800	6,000	130,000	90,000	36,000
5,900	6,000	130,000	90,000	36,000
5,950	6,000	130,000	90,000	36,000
6,000	6,000	130,000	90,000	36,000
6,100	8,000	158,000	118,000	36,000
6,200	8,000	158,000	118,000	36,000
6,300	8,000	158,000	118,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	158,000	118,000	36,000
6,400	8,000	158,000	118,000	36,000
6,500	8,000	158,000	118,000	36,000
6,530	8,000	158,000	118,000	36,000
6,550	8,000	158,000	118,000	36,000
6,600	8,000	158,000	118,000	36,000
6,700	8,000	158,000	118,000	36,000
6,750	8,000	158,000	118,000	36,000
6,800	8,000	158,000	118,000	36,000
6,900	8,000	158,000	118,000	36,000
7,000	8,000	158,000	118,000	36,000
7,100	8,000	158,000	118,000	36,000
7,140	8,000	158,000	118,000	36,000
7,200	8,000	158,000	118,000	36,000
7,300	8,000	158,000	118,000	36,000
7,400	8,000	158,000	118,000	36,000
7,500	8,000	158,000	118,000	36,000
7,540	8,000	158,000	118,000	36,000
7,550	8,000	158,000	118,000	36,000
7,600	8,000	158,000	118,000	36,000
7,650	8,000	158,000	118,000	36,000
7,700	8,000	158,000	118,000	36,000
7,800	8,000	158,000	118,000	36,000
7,900	8,000	158,000	118,000	36,000
7,940	8,000	158,000	118,000	36,000
8,000	8,000	158,000	118,000	36,000
8,100	10,000	190,000	146,000	40,000
8,200	10,000	190,000	146,000	40,000
8,300	10,000	190,000	146,000	40,000
8,330	10,000	190,000	146,000	40,000
8,400	10,000	190,000	146,000	40,000
8,500	10,000	190,000	146,000	40,000
8,600	10,000	190,000	146,000	40,000
8,700	10,000	190,000	146,000	40,000
8,730	10,000	190,000	146,000	40,000
8,800	10,000	190,000	146,000	40,000
8,900	10,000	190,000	146,000	40,000
9,000	10,000	190,000	146,000	40,000
9,100	10,000	190,000	146,000	40,000
9,130	10,000	190,000	146,000	40,000
9,200	10,000	190,000	146,000	40,000
9,250	10,000	190,000	146,000	40,000
9,300	10,000	190,000	146,000	40,000
9,340	10,000	190,000	146,000	40,000
9,400	10,000	190,000	146,000	40,000
9,500	10,000	190,000	146,000	40,000
9,520	10,000	190,000	146,000	40,000
9,550	10,000	190,000	146,000	40,000

SuperV



- Hochleistungsbohren in Inox & Sonderlegierungen
- hohe Prozesssicherheit auch bei tiefen Bohrungen
- Reduktion der Werkstückkosten aufgrund hoher Standwege
- positionsgenaueres Anbohren dank speziellem 2-Flächen Anschliff mit optimierter Ausspitzung
- extrem glatte Oberflächen für optimalen Spantransport und Standzeit durch neuartige HiPIMS TiSiN+ Beschichtung

V-X VA



SuperV-Bohrer mit Innenkühlung

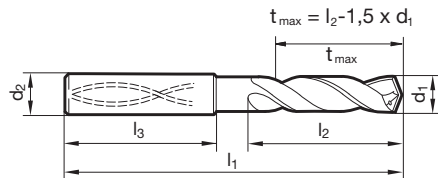


Katalog-Nr. 51743



P	M	K	N	S	H
○	●			●	

- höchste Leistungsfähigkeit
- optimierte Schneidengeometrie
- Hauptschneidenform leicht konkav
- höchste Bohrungsqualitäten



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	62,000	20,000	36,000
3,100	6,000	62,000	20,000	36,000
3,170	6,000	62,000	20,000	36,000
3,200	6,000	62,000	20,000	36,000
3,250	6,000	62,000	20,000	36,000
3,300	6,000	62,000	20,000	36,000
3,400	6,000	62,000	20,000	36,000
3,500	6,000	62,000	20,000	36,000
3,570	6,000	62,000	20,000	36,000
3,600	6,000	62,000	20,000	36,000
3,700	6,000	62,000	20,000	36,000
3,800	6,000	66,000	24,000	36,000
3,900	6,000	66,000	24,000	36,000
3,970	6,000	66,000	24,000	36,000
4,000	6,000	66,000	24,000	36,000
4,040	6,000	66,000	24,000	36,000
4,100	6,000	66,000	24,000	36,000
4,200	6,000	66,000	24,000	36,000
4,300	6,000	66,000	24,000	36,000
4,370	6,000	66,000	24,000	36,000
4,400	6,000	66,000	24,000	36,000
4,500	6,000	66,000	24,000	36,000
4,600	6,000	66,000	24,000	36,000
4,650	6,000	66,000	24,000	36,000
4,700	6,000	66,000	24,000	36,000
4,760	6,000	66,000	28,000	36,000
4,800	6,000	66,000	28,000	36,000
4,900	6,000	66,000	28,000	36,000
5,000	6,000	66,000	28,000	36,000
5,100	6,000	66,000	28,000	36,000
5,110	6,000	66,000	28,000	36,000
5,160	6,000	66,000	28,000	36,000
5,200	6,000	66,000	28,000	36,000
5,300	6,000	66,000	28,000	36,000
5,400	6,000	66,000	28,000	36,000
5,410	6,000	66,000	28,000	36,000
5,500	6,000	66,000	28,000	36,000
5,550	6,000	66,000	28,000	36,000
5,560	6,000	66,000	28,000	36,000
5,600	6,000	66,000	28,000	36,000
5,700	6,000	66,000	28,000	36,000
5,800	6,000	66,000	28,000	36,000
5,900	6,000	66,000	28,000	36,000
5,950	6,000	66,000	28,000	36,000
6,000	6,000	66,000	28,000	36,000
6,100	8,000	79,000	34,000	36,000
6,200	8,000	79,000	34,000	36,000
6,300	8,000	79,000	34,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	79,000	34,000	36,000
6,400	8,000	79,000	34,000	36,000
6,500	8,000	79,000	34,000	36,000
6,530	8,000	79,000	34,000	36,000
6,550	8,000	79,000	34,000	36,000
6,600	8,000	79,000	34,000	36,000
6,700	8,000	79,000	34,000	36,000
6,750	8,000	79,000	34,000	36,000
6,800	8,000	79,000	34,000	36,000
6,900	8,000	79,000	34,000	36,000
7,000	8,000	79,000	34,000	36,000
7,100	8,000	79,000	41,000	36,000
7,140	8,000	79,000	41,000	36,000
7,200	8,000	79,000	41,000	36,000
7,300	8,000	79,000	41,000	36,000
7,400	8,000	79,000	41,000	36,000
7,500	8,000	79,000	41,000	36,000
7,540	8,000	79,000	41,000	36,000
7,550	8,000	79,000	41,000	36,000
7,600	8,000	79,000	41,000	36,000
7,650	8,000	79,000	41,000	36,000
7,700	8,000	79,000	41,000	36,000
7,800	8,000	79,000	41,000	36,000
7,900	8,000	79,000	41,000	36,000
7,940	8,000	79,000	41,000	36,000
8,000	8,000	79,000	41,000	36,000
8,100	10,000	89,000	47,000	40,000
8,200	10,000	89,000	47,000	40,000
8,300	10,000	89,000	47,000	40,000
8,330	10,000	89,000	47,000	40,000
8,400	10,000	89,000	47,000	40,000
8,500	10,000	89,000	47,000	40,000
8,600	10,000	89,000	47,000	40,000
8,700	10,000	89,000	47,000	40,000
8,730	10,000	89,000	47,000	40,000
8,800	10,000	89,000	47,000	40,000
8,900	10,000	89,000	47,000	40,000
9,000	10,000	89,000	47,000	40,000
9,100	10,000	89,000	47,000	40,000
9,130	10,000	89,000	47,000	40,000
9,200	10,000	89,000	47,000	40,000
9,250	10,000	89,000	47,000	40,000
9,300	10,000	89,000	47,000	40,000
9,340	10,000	89,000	47,000	40,000
9,400	10,000	89,000	47,000	40,000
9,500	10,000	89,000	47,000	40,000
9,520	10,000	89,000	47,000	40,000
9,550	10,000	89,000	47,000	40,000

SuperV-Bohrer mit Innenkühlung

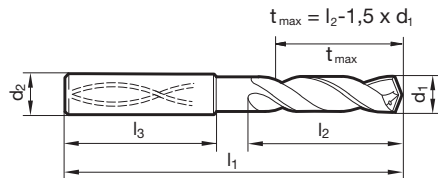


Katalog-Nr. 51745



P	M	K	N	S	H
○	●			●	

- höchste Leistungsfähigkeit
- optimierte Schneidengeometrie
- Hauptschneidenform leicht konkav
- höchste Bohrungsqualitäten



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	66,000	28,000	36,000
3,100	6,000	66,000	28,000	36,000
3,170	6,000	66,000	28,000	36,000
3,200	6,000	66,000	28,000	36,000
3,250	6,000	66,000	28,000	36,000
3,300	6,000	66,000	28,000	36,000
3,400	6,000	66,000	28,000	36,000
3,500	6,000	66,000	28,000	36,000
3,570	6,000	66,000	28,000	36,000
3,600	6,000	66,000	28,000	36,000
3,700	6,000	66,000	28,000	36,000
3,800	6,000	74,000	36,000	36,000
3,900	6,000	74,000	36,000	36,000
3,970	6,000	74,000	36,000	36,000
4,000	6,000	74,000	36,000	36,000
4,040	6,000	74,000	36,000	36,000
4,100	6,000	74,000	36,000	36,000
4,200	6,000	74,000	36,000	36,000
4,300	6,000	74,000	36,000	36,000
4,370	6,000	74,000	36,000	36,000
4,400	6,000	74,000	36,000	36,000
4,500	6,000	74,000	36,000	36,000
4,600	6,000	74,000	36,000	36,000
4,650	6,000	74,000	36,000	36,000
4,700	6,000	74,000	36,000	36,000
4,760	6,000	82,000	44,000	36,000
4,800	6,000	82,000	44,000	36,000
4,900	6,000	82,000	44,000	36,000
5,000	6,000	82,000	44,000	36,000
5,100	6,000	82,000	44,000	36,000
5,110	6,000	82,000	44,000	36,000
5,160	6,000	82,000	44,000	36,000
5,200	6,000	82,000	44,000	36,000
5,300	6,000	82,000	44,000	36,000
5,400	6,000	82,000	44,000	36,000
5,410	6,000	82,000	44,000	36,000
5,500	6,000	82,000	44,000	36,000
5,550	6,000	82,000	44,000	36,000
5,560	6,000	82,000	44,000	36,000
5,600	6,000	82,000	44,000	36,000
5,700	6,000	82,000	44,000	36,000
5,800	6,000	82,000	44,000	36,000
5,900	6,000	82,000	44,000	36,000
5,950	6,000	82,000	44,000	36,000
6,000	6,000	82,000	44,000	36,000
6,100	8,000	91,000	53,000	36,000
6,200	8,000	91,000	53,000	36,000
6,300	8,000	91,000	53,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	91,000	53,000	36,000
6,400	8,000	91,000	53,000	36,000
6,500	8,000	91,000	53,000	36,000
6,530	8,000	91,000	53,000	36,000
6,550	8,000	91,000	53,000	36,000
6,600	8,000	91,000	53,000	36,000
6,700	8,000	91,000	53,000	36,000
6,750	8,000	91,000	53,000	36,000
6,800	8,000	91,000	53,000	36,000
6,900	8,000	91,000	53,000	36,000
7,000	8,000	91,000	53,000	36,000
7,100	8,000	91,000	53,000	36,000
7,140	8,000	91,000	53,000	36,000
7,200	8,000	91,000	53,000	36,000
7,300	8,000	91,000	53,000	36,000
7,400	8,000	91,000	53,000	36,000
7,500	8,000	91,000	53,000	36,000
7,540	8,000	91,000	53,000	36,000
7,550	8,000	91,000	53,000	36,000
7,600	8,000	91,000	53,000	36,000
7,650	8,000	91,000	53,000	36,000
7,700	8,000	91,000	53,000	36,000
7,800	8,000	91,000	53,000	36,000
7,900	8,000	91,000	53,000	36,000
7,940	8,000	91,000	53,000	36,000
8,000	8,000	91,000	53,000	36,000
8,100	10,000	103,000	61,000	40,000
8,200	10,000	103,000	61,000	40,000
8,300	10,000	103,000	61,000	40,000
8,330	10,000	103,000	61,000	40,000
8,400	10,000	103,000	61,000	40,000
8,500	10,000	103,000	61,000	40,000
8,600	10,000	103,000	61,000	40,000
8,700	10,000	103,000	61,000	40,000
8,730	10,000	103,000	61,000	40,000
8,800	10,000	103,000	61,000	40,000
8,900	10,000	103,000	61,000	40,000
9,000	10,000	103,000	61,000	40,000
9,100	10,000	103,000	61,000	40,000
9,130	10,000	103,000	61,000	40,000
9,200	10,000	103,000	61,000	40,000
9,250	10,000	103,000	61,000	40,000
9,300	10,000	103,000	61,000	40,000
9,340	10,000	103,000	61,000	40,000
9,400	10,000	103,000	61,000	40,000
9,500	10,000	103,000	61,000	40,000
9,520	10,000	103,000	61,000	40,000
9,550	10,000	103,000	61,000	40,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
14,600	16,000	133,000	83,000	48,000
14,680	16,000	133,000	83,000	48,000
14,700	16,000	133,000	83,000	48,000
14,800	16,000	133,000	83,000	48,000
14,900	16,000	133,000	83,000	48,000
15,000	16,000	133,000	83,000	48,000
15,080	16,000	133,000	83,000	48,000
15,100	16,000	133,000	83,000	48,000
15,200	16,000	133,000	83,000	48,000
15,300	16,000	133,000	83,000	48,000
15,400	16,000	133,000	83,000	48,000
15,480	16,000	133,000	83,000	48,000
15,500	16,000	133,000	83,000	48,000
15,550	16,000	133,000	83,000	48,000
15,600	16,000	133,000	83,000	48,000
15,700	16,000	133,000	83,000	48,000
15,800	16,000	133,000	83,000	48,000
15,870	16,000	133,000	83,000	48,000
15,900	16,000	133,000	83,000	48,000
16,000	16,000	133,000	83,000	48,000
16,270	18,000	143,000	93,000	48,000
16,300	18,000	143,000	93,000	48,000
16,500	18,000	143,000	93,000	48,000
16,670	18,000	143,000	93,000	48,000
16,700	18,000	143,000	93,000	48,000
16,900	18,000	143,000	93,000	48,000
17,000	18,000	143,000	93,000	48,000
17,070	18,000	143,000	93,000	48,000
17,460	18,000	143,000	93,000	48,000
17,500	18,000	143,000	93,000	48,000
17,550	18,000	143,000	93,000	48,000
17,700	18,000	143,000	93,000	48,000
17,860	18,000	143,000	93,000	48,000
18,000	18,000	143,000	93,000	48,000
18,260	20,000	153,000	101,000	50,000
18,500	20,000	153,000	101,000	50,000
18,700	20,000	153,000	101,000	50,000
18,900	20,000	153,000	101,000	50,000
19,000	20,000	153,000	101,000	50,000
19,050	20,000	153,000	101,000	50,000
19,250	20,000	153,000	101,000	50,000
19,300	20,000	153,000	101,000	50,000
19,450	20,000	153,000	101,000	50,000
19,500	20,000	153,000	101,000	50,000
19,550	20,000	153,000	101,000	50,000
19,700	20,000	153,000	101,000	50,000
19,800	20,000	153,000	101,000	50,000
19,840	20,000	153,000	101,000	50,000
20,000	20,000	153,000	101,000	50,000

SuperV-Bohrer mit Innenkühlung

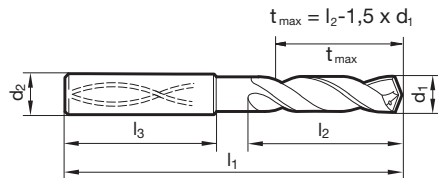


Katalog-Nr. 51747



P	M	K	N	S	H
○	●			●	

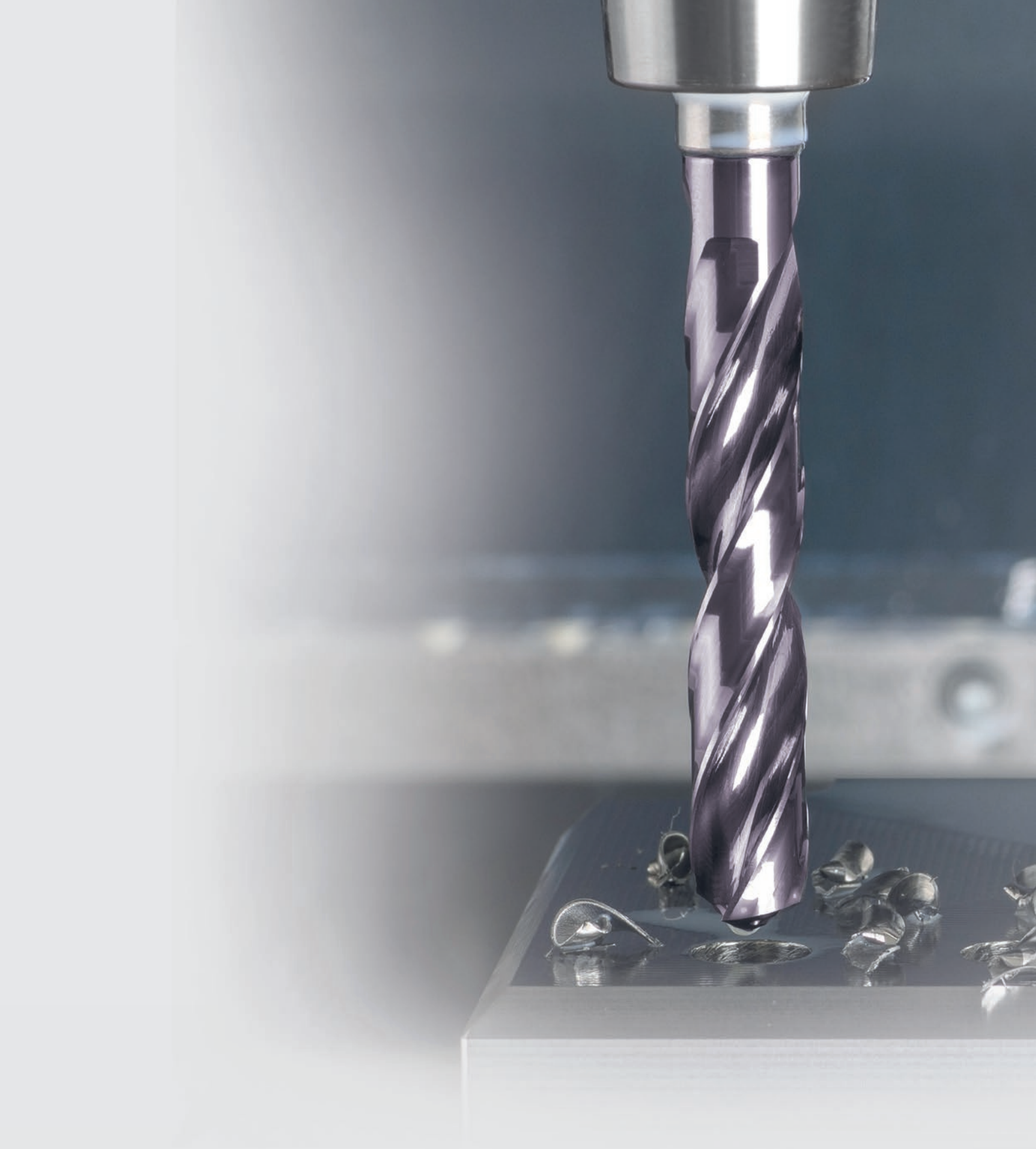
- höchste Leistungsfähigkeit
- optimierte Schneidengeometrie
- Hauptschneidenform leicht konkav
- höchste Bohrungsqualitäten



d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
3,000	6,000	70,000	30,000	36,000
3,100	6,000	70,000	30,000	36,000
3,170	6,000	70,000	30,000	36,000
3,200	6,000	70,000	30,000	36,000
3,250	6,000	70,000	30,000	36,000
3,300	6,000	70,000	30,000	36,000
3,400	6,000	75,000	35,500	36,000
3,500	6,000	75,000	35,500	36,000
3,570	6,000	75,000	35,500	36,000
3,600	6,000	75,000	35,500	36,000
3,700	6,000	75,000	35,500	36,000
3,800	6,000	75,000	37,500	36,000
3,900	6,000	75,000	37,500	36,000
3,970	6,000	75,000	37,500	36,000
4,000	6,000	75,000	37,500	36,000
4,040	6,000	75,000	37,500	36,000
4,100	6,000	75,000	37,500	36,000
4,200	6,000	75,000	37,500	36,000
4,300	6,000	85,000	45,000	36,000
4,370	6,000	85,000	45,000	36,000
4,400	6,000	85,000	45,000	36,000
4,500	6,000	85,000	45,000	36,000
4,600	6,000	85,000	45,000	36,000
4,650	6,000	85,000	45,000	36,000
4,700	6,000	85,000	45,000	36,000
4,760	6,000	90,000	50,000	36,000
4,800	6,000	90,000	50,000	36,000
4,900	6,000	90,000	50,000	36,000
5,000	6,000	90,000	50,000	36,000
5,100	6,000	90,000	50,000	36,000
5,110	6,000	90,000	50,000	36,000
5,160	6,000	90,000	50,000	36,000
5,200	6,000	90,000	50,000	36,000
5,300	6,000	90,000	50,000	36,000
5,400	6,000	97,000	57,000	36,000
5,410	6,000	97,000	57,000	36,000
5,500	6,000	97,000	57,000	36,000
5,550	6,000	97,000	57,000	36,000
5,560	6,000	97,000	57,000	36,000
5,600	6,000	97,000	57,000	36,000
5,700	6,000	97,000	57,000	36,000
5,800	6,000	97,000	57,000	36,000
5,900	6,000	97,000	57,000	36,000
5,950	6,000	97,000	57,000	36,000
6,000	6,000	97,000	57,000	36,000
6,100	8,000	106,000	66,000	36,000
6,200	8,000	106,000	66,000	36,000
6,300	8,000	106,000	66,000	36,000

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm
6,350	8,000	106,000	66,000	36,000
6,400	8,000	106,000	66,000	36,000
6,500	8,000	106,000	66,000	36,000
6,530	8,000	106,000	66,000	36,000
6,550	8,000	106,000	66,000	36,000
6,600	8,000	106,000	66,000	36,000
6,700	8,000	106,000	66,000	36,000
6,750	8,000	106,000	66,000	36,000
6,800	8,000	106,000	66,000	36,000
6,900	8,000	116,000	76,000	36,000
7,000	8,000	116,000	76,000	36,000
7,100	8,000	116,000	76,000	36,000
7,140	8,000	116,000	76,000	36,000
7,200	8,000	116,000	76,000	36,000
7,300	8,000	116,000	76,000	36,000
7,400	8,000	116,000	76,000	36,000
7,500	8,000	116,000	76,000	36,000
7,540	8,000	116,000	76,000	36,000
7,550	8,000	116,000	76,000	36,000
7,600	8,000	116,000	76,000	36,000
7,650	8,000	116,000	76,000	36,000
7,700	8,000	116,000	76,000	36,000
7,800	8,000	116,000	76,000	36,000
7,900	8,000	116,000	76,000	36,000
7,940	8,000	116,000	76,000	36,000
8,000	8,000	116,000	76,000	36,000
8,100	10,000	131,000	87,000	40,000
8,200	10,000	131,000	87,000	40,000
8,300	10,000	131,000	87,000	40,000
8,330	10,000	131,000	87,000	40,000
8,400	10,000	131,000	87,000	40,000
8,500	10,000	131,000	87,000	40,000
8,600	10,000	131,000	87,000	40,000
8,700	10,000	131,000	87,000	40,000
8,730	10,000	131,000	87,000	40,000
8,800	10,000	131,000	87,000	40,000
8,900	10,000	131,000	87,000	40,000
9,000	10,000	131,000	87,000	40,000
9,100	10,000	139,000	95,000	40,000
9,130	10,000	139,000	95,000	40,000
9,200	10,000	139,000	95,000	40,000
9,250	10,000	139,000	95,000	40,000
9,300	10,000	139,000	95,000	40,000
9,340	10,000	139,000	95,000	40,000
9,400	10,000	139,000	95,000	40,000
9,500	10,000	139,000	95,000	40,000
9,520	10,000	139,000	95,000	40,000
9,550	10,000	139,000	95,000	40,000

d1 mm	d2 mm	I1 mm	I2 mm	I3 mm
14,600	16,000	204,000	152,000	48,000
14,680	16,000	204,000	152,000	48,000
14,700	16,000	204,000	152,000	48,000
14,800	16,000	204,000	152,000	48,000
14,900	16,000	204,000	152,000	48,000
15,000	16,000	204,000	152,000	48,000
15,080	16,000	204,000	152,000	48,000
15,100	16,000	204,000	152,000	48,000
15,200	16,000	204,000	152,000	48,000
15,300	16,000	204,000	152,000	48,000
15,400	16,000	204,000	152,000	48,000
15,480	16,000	204,000	152,000	48,000
15,500	16,000	204,000	152,000	48,000
15,550	16,000	204,000	152,000	48,000
15,600	16,000	204,000	152,000	48,000
15,700	16,000	204,000	152,000	48,000
15,800	16,000	204,000	152,000	48,000
15,870	16,000	204,000	152,000	48,000
15,900	16,000	204,000	152,000	48,000
16,000	16,000	204,000	152,000	48,000
16,270	18,000	223,000	171,000	48,000
16,300	18,000	223,000	171,000	48,000
16,500	18,000	223,000	171,000	48,000
16,670	18,000	223,000	171,000	48,000
16,700	18,000	223,000	171,000	48,000
16,900	18,000	223,000	171,000	48,000
17,000	18,000	223,000	171,000	48,000
17,070	18,000	223,000	171,000	48,000
17,460	18,000	223,000	171,000	48,000
17,500	18,000	223,000	171,000	48,000
17,550	18,000	223,000	171,000	48,000
17,700	18,000	223,000	171,000	48,000
17,860	18,000	223,000	171,000	48,000
18,000	18,000	223,000	171,000	48,000
18,260	20,000	244,000	190,000	50,000
18,500	20,000	244,000	190,000	50,000
18,700	20,000	244,000	190,000	50,000
18,900	20,000	244,000	190,000	50,000
19,000	20,000	244,000	190,000	50,000
19,050	20,000	244,000	190,000	50,000
19,250	20,000	244,000	190,000	50,000
19,300	20,000	244,000	190,000	50,000
19,450	20,000	244,000	190,000	50,000
19,500	20,000	244,000	190,000	50,000
19,550	20,000	244,000	190,000	50,000
19,700	20,000	244,000	190,000	50,000
19,800	20,000	244,000	190,000	50,000
19,840	20,000	244,000	190,000	50,000
20,000	20,000	244,000	190,000	50,000



Arbeits



srichtwerte

SuperV-Bohrer, Typ X, 51784 (3xD) / 51786 (5xD)



Zerspanungsgruppe		f (mm/U) bei Nenn-Ø							
									
	v _c (m/min)	3	6	8	10	12	14	16	20
P1.1.1 Unlegierter Stahl, gegläht, 0,15 % C, Rm 420 N/mm ² , 125 HB	180	0,190	0,325	0,405	0,480	0,550	0,620	0,685	0,815
P1.1.2 Unlegierter Stahl, vergütet, 0,15 % C, Rm 420 N/mm ² , 125 HB	160	0,175	0,295	0,365	0,430	0,495	0,560	0,615	0,730
P1.1.3 Unlegierter Stahl, gegläht, 0,45 % C, Rm 640 N/mm ² , 190 HB	160	0,175	0,295	0,365	0,430	0,495	0,560	0,615	0,730
P1.1.4 Unlegierter Stahl, vergütet, 0,45 % C, Rm 640 N/mm ² , 190 HB	155	0,165	0,275	0,345	0,410	0,470	0,525	0,585	0,690
P1.1.5 Unlegierter Stahl, vergütet, 0,45 % C, Rm 850 N/mm ² , 250 HB	155	0,165	0,275	0,345	0,410	0,470	0,525	0,585	0,690
P1.1.6 Unlegierter Stahl, gegläht, 0,75 % C, Rm 915 N/mm ² , 270 HB	145	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P1.1.7 Unlegierter Stahl, vergütet, 0,75 % C, Rm 1020 N/mm ² , 300 HB	135	0,145	0,245	0,305	0,360	0,415	0,465	0,515	0,610
P2.1.1 Niedriglegierter Stahl, gegläht, Rm 610 N/mm ² , 180 HB	120	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P2.1.2 Niedriglegierter Stahl, vergütet, Rm 930 N/mm ² , 275 HB	120	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P2.1.3 Niedriglegierter Stahl, vergütet, Rm 1020 N/mm ² , 300 HB	100	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB	90	0,115	0,195	0,245	0,290	0,330	0,370	0,410	0,490
P3.1.1 Hochlegierter Stahl und Werkzeugstahl, gegläht, Rm 680 N/mm ² , 200 HB	90	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P3.1.2 Hochlegierter Stahl und Werkzeugstahl, gehärtet und angelassen, Rm 1100 N/mm ² , 325 HB	75	0,105	0,175	0,220	0,260	0,300	0,335	0,375	0,440
M1.1.1 Nichtrostender Stahl, ferritisch/martensitisch, mit Zerspanungsadditiven	80	0,075	0,130	0,160	0,190	0,220	0,250	0,275	0,325
M1.1.2 Nichtrostender Stahl, ferritisch/martensitisch, gegläht, Rm 680 N/mm ² , 200 HB	70	0,070	0,115	0,145	0,175	0,200	0,225	0,245	0,295
M1.1.3 Nichtrostender Stahl, ferritisch/martensitisch, vergütet, Rm 810 N/mm ² , 240 HB	70	0,065	0,110	0,140	0,165	0,185	0,210	0,235	0,275
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB									
M2.2.1 Duplexstahl, hochfeste nichtrostende Stähle									
K1.1.1 Grauguss, perlitisch/ferritisch, 180 HB	110	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
K1.1.2 Grauguss, perlitisch/martensitisch, 260 HB	95	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
K1.2.1 Gusseisen mit Kugelgraphit, ferritisch, 160 HB	95	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
K1.2.2 Gusseisen mit Kugelgraphit, perlitisch, 250 HB	90	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
K1.3.1 Temporguss, ferritisch, 130 HB	90	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
K1.3.2 Temporguss, perlitisch, 230 HB	75	0,110	0,180	0,225	0,270	0,310	0,345	0,385	0,455
K2.1.1 Gusseisen mit Vermiculargraphit (GJV)	90	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
K2.2.1 Austenitisch-ferritisches Gusseisen mit Kugelgraphit (ADI)	70	0,115	0,195	0,245	0,290	0,330	0,370	0,410	0,490
N1.1.1 Aluminium-Knetlegierungen, nicht aushärtbar, 60 HB									
N1.1.2 Aluminium-Knetlegierungen, ausgehärtet, 100 HB									
N2.1.1 Aluminium-Gusslegierungen, nicht aushärtbar, ≤ 12 % Si, 75 HB									
N2.1.2 Aluminium-Gusslegierungen, ausgehärtet, ≤ 12 % Si, 90 HB									
N2.1.3 Aluminium-Gusslegierungen, nicht aushärtbar, > 12 % Si, 130 HB									
N3.1.1 Kupfer und Kupferlegierungen: Automatenlegierung, Pb > 1 %									
N3.1.2 Kupfer und Kupferlegierungen: CuZn, CuSnZn									
N3.1.3 Kupfer und Kupferlegierungen: CuSn, bleifreies Kupfer und Elektrolytkupfer									
N4.1.1 Nichtmetallische Werkstoffe: Duroplaste, Faserverstärkte Kunststoffe									
N4.1.2 Nichtmetallische Werkstoffe: Hartgummi, Holz usw.									
N4.1.3 Nichtmetallische Werkstoffe: Graphit									
S1.1.1 Warmfeste Legierungen, Fe-Basis, gegläht, 200 HB	40	0,060	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S1.1.2 Warmfeste Legierungen, Fe-Basis, ausgehärtet, 280 HB	30	0,050	0,085	0,105	0,120	0,140	0,160	0,175	0,205
S1.1.3 Warmfeste Legierungen, Ni- oder Co-Basis, gegläht, 250 HB	35	0,060	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S1.1.4 Warmfeste Legierungen, Ni- oder Co-Basis, ausgehärtet, 350 HB	20	0,045	0,075	0,090	0,105	0,125	0,140	0,155	0,180
S1.1.5 Warmfeste Legierungen, Ni- oder Co-Basis, gegossen, 320 HB	25	0,045	0,075	0,090	0,105	0,125	0,140	0,155	0,180
S2.1.1 Titanlegierungen, Reintitan, Rm 400 N/mm ²	40	0,060	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S2.1.2 Titanlegierungen, Alpha- und Beta-Legierungen, ausgehärtet, Rm 1050 N/mm ²	30	0,050	0,085	0,105	0,120	0,140	0,160	0,175	0,205
H1.1.1 Gehärteter Stahl, gehärtet und angelassen, < 55 HRC	55	0,050	0,080	0,100	0,120	0,140	0,155	0,175	0,205
H1.1.2 Gehärteter Stahl, gehärtet und angelassen, < 60 HRC									
H1.1.3 Gehärteter Stahl, gehärtet und angelassen, > 60 HRC									
H2.1.1 Hartguss, gegossen, 400 HB									
H2.1.2 Hartguss, gehärtet und angelassen, < 55 HRC									

SuperV-Bohrer, Typ X, 51791 (7xD) / 51792 (12xD)



Zerspanungsgruppe		f (mm/U) bei Nenn-Ø							
									
	v _c (m/min)	3	6	8	10	12	14	16	20
P1.1.1 Unlegierter Stahl, gegläht, 0,15 % C, Rm 420 N/mm ² , 125 HB	160	0,190	0,325	0,405	0,480	0,550	0,620	0,685	0,815
P1.1.2 Unlegierter Stahl, vergütet, 0,15 % C, Rm 420 N/mm ² , 125 HB	145	0,175	0,295	0,365	0,430	0,495	0,560	0,615	0,730
P1.1.3 Unlegierter Stahl, gegläht, 0,45 % C, Rm 640 N/mm ² , 190 HB	145	0,175	0,295	0,365	0,430	0,495	0,560	0,615	0,730
P1.1.4 Unlegierter Stahl, vergütet, 0,45 % C, Rm 640 N/mm ² , 190 HB	135	0,165	0,275	0,345	0,410	0,470	0,525	0,585	0,690
P1.1.5 Unlegierter Stahl, vergütet, 0,45 % C, Rm 850 N/mm ² , 250 HB	135	0,165	0,275	0,345	0,410	0,470	0,525	0,585	0,690
P1.1.6 Unlegierter Stahl, gegläht, 0,75 % C, Rm 915 N/mm ² , 270 HB	130	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P1.1.7 Unlegierter Stahl, vergütet, 0,75 % C, Rm 1020 N/mm ² , 300 HB	120	0,145	0,245	0,305	0,360	0,415	0,465	0,515	0,610
P2.1.1 Niedriglegierter Stahl, gegläht, Rm 610 N/mm ² , 180 HB	110	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P2.1.2 Niedriglegierter Stahl, vergütet, Rm 930 N/mm ² , 275 HB	110	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P2.1.3 Niedriglegierter Stahl, vergütet, Rm 1020 N/mm ² , 300 HB	95	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB	85	0,115	0,195	0,245	0,290	0,330	0,370	0,410	0,490
P3.1.1 Hochlegierter Stahl und Werkzeugstahl, gegläht, Rm 680 N/mm ² , 200 HB	80	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P3.1.2 Hochlegierter Stahl und Werkzeugstahl, gehärtet und angelassen, Rm 1100 N/mm ² , 325 HB	70	0,105	0,175	0,220	0,260	0,300	0,335	0,375	0,440
M1.1.1 Nichtrostender Stahl, ferritisch/martensitisch, mit Zerspanungsadditiven	70	0,075	0,130	0,160	0,190	0,220	0,250	0,275	0,325
M1.1.2 Nichtrostender Stahl, ferritisch/martensitisch, gegläht, Rm 680 N/mm ² , 200 HB	65	0,070	0,115	0,145	0,175	0,200	0,225	0,245	0,295
M1.1.3 Nichtrostender Stahl, ferritisch/martensitisch, vergütet, Rm 810 N/mm ² , 240 HB	60	0,065	0,110	0,140	0,165	0,185	0,210	0,235	0,275
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB									
M2.2.1 Duplexstahl, hochfeste nichtrostende Stähle									
K1.1.1 Grauguss, perlitisch/ferritisch, 180 HB	110	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
K1.1.2 Grauguss, perlitisch/martensitisch, 260 HB	95	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
K1.2.1 Gusseisen mit Kugelgraphit, ferritisch, 160 HB	95	0,130	0,220	0,275	0,325	0,375	0,420	0,465	0,555
K1.2.2 Gusseisen mit Kugelgraphit, perlitisch, 250 HB	90	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
K1.3.1 Temporguss, ferritisch, 130 HB	90	0,125	0,210	0,260	0,305	0,355	0,395	0,440	0,520
K1.3.2 Temporguss, perlitisch, 230 HB	75	0,110	0,180	0,225	0,270	0,310	0,345	0,385	0,455
K2.1.1 Gusseisen mit Vermiculargraphit (GJV)	90	0,155	0,260	0,325	0,385	0,440	0,495	0,550	0,650
K2.2.1 Austenitisch-ferritisches Gusseisen mit Kugelgraphit (ADI)	70	0,115	0,195	0,245	0,290	0,330	0,370	0,410	0,490
N1.1.1 Aluminium-Knetlegierungen, nicht aushärtbar, 60 HB									
N1.1.2 Aluminium-Knetlegierungen, ausgehärtet, 100 HB									
N2.1.1 Aluminium-Gusslegierungen, nicht aushärtbar, ≤ 12 % Si, 75 HB									
N2.1.2 Aluminium-Gusslegierungen, ausgehärtet, ≤ 12 % Si, 90 HB									
N2.1.3 Aluminium-Gusslegierungen, nicht aushärtbar, > 12 % Si, 130 HB									
N3.1.1 Kupfer und Kupferlegierungen: Automatenlegierung, Pb > 1 %									
N3.1.2 Kupfer und Kupferlegierungen: CuZn, CuSnZn									
N3.1.3 Kupfer und Kupferlegierungen: CuSn, bleifreies Kupfer und Elektrolytkupfer									
N4.1.1 Nichtmetallische Werkstoffe: Duroplaste, Faserverstärkte Kunststoffe									
N4.1.2 Nichtmetallische Werkstoffe: Hartgummi, Holz usw.									
N4.1.3 Nichtmetallische Werkstoffe: Graphit									
S1.1.1 Warmfeste Legierungen, Fe-Basis, gegläht, 200 HB	40	0,050	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S1.1.2 Warmfeste Legierungen, Fe-Basis, ausgehärtet, 280 HB	30	0,040	0,065	0,080	0,095	0,110	0,125	0,140	0,165
S1.1.3 Warmfeste Legierungen, Ni- oder Co-Basis, gegläht, 250 HB	35	0,050	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S1.1.4 Warmfeste Legierungen, Ni- oder Co-Basis, ausgehärtet, 350 HB	20	0,035	0,055	0,070	0,085	0,095	0,110	0,120	0,145
S1.1.5 Warmfeste Legierungen, Ni- oder Co-Basis, gegossen, 320 HB	25	0,035	0,055	0,070	0,085	0,095	0,110	0,120	0,145
S2.1.1 Titanlegierungen, Reintitan, Rm 400 N/mm ²	40	0,050	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S2.1.2 Titanlegierungen, Alpha- und Beta-Legierungen, ausgehärtet, Rm 1050 N/mm ²	30	0,040	0,065	0,080	0,095	0,110	0,125	0,140	0,165
H1.1.1 Gehärteter Stahl, gehärtet und angelassen, < 55 HRC	55	0,040	0,065	0,080	0,095	0,110	0,125	0,135	0,165
H1.1.2 Gehärteter Stahl, gehärtet und angelassen, < 60 HRC									
H1.1.3 Gehärteter Stahl, gehärtet und angelassen, > 60 HRC									
H2.1.1 Hartguss, gegossen, 400 HB									
H2.1.2 Hartguss, gehärtet und angelassen, < 55 HRC									

SuperV-Bohrer, Typ X-VA, 51743 (3xD) / 51745 (5xD)



Zerspanungsgruppe		f (mm/U) bei Nenn-Ø								
										
	v _c (m/min)	3	4	6	8	10	12	14	16	20
P1.1.1 Unlegierter Stahl, gegläht, 0,15 % C, Rm 420 N/mm ² , 125 HB	140	0,155	0,190	0,260	0,325	0,385	0,440	0,495	0,550	0,650
P1.1.2 Unlegierter Stahl, vergütet, 0,15 % C, Rm 420 N/mm ² , 125 HB	125	0,140	0,170	0,235	0,290	0,345	0,395	0,445	0,495	0,585
P1.1.3 Unlegierter Stahl, gegläht, 0,45 % C, Rm 640 N/mm ² , 190 HB	125	0,140	0,170	0,235	0,290	0,345	0,395	0,445	0,495	0,585
P1.1.4 Unlegierter Stahl, vergütet, 0,45 % C, Rm 640 N/mm ² , 190 HB	120	0,130	0,165	0,220	0,275	0,325	0,375	0,420	0,465	0,555
P1.1.5 Unlegierter Stahl, vergütet, 0,45 % C, Rm 850 N/mm ² , 250 HB	120	0,130	0,165	0,220	0,275	0,325	0,375	0,420	0,465	0,555
P1.1.6 Unlegierter Stahl, gegläht, 0,75 % C, Rm 915 N/mm ² , 270 HB	110	0,125	0,155	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P1.1.7 Unlegierter Stahl, vergütet, 0,75 % C, Rm 1020 N/mm ² , 300 HB	105	0,115	0,145	0,195	0,245	0,290	0,330	0,370	0,410	0,490
P2.1.1 Niedriglegierter Stahl, gegläht, Rm 610 N/mm ² , 180 HB	115	0,125	0,155	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P2.1.2 Niedriglegierter Stahl, vergütet, Rm 930 N/mm ² , 275 HB	115	0,125	0,155	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P2.1.3 Niedriglegierter Stahl, vergütet, Rm 1020 N/mm ² , 300 HB	100	0,105	0,130	0,175	0,220	0,260	0,300	0,335	0,375	0,440
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB	85	0,090	0,115	0,155	0,195	0,230	0,265	0,295	0,330	0,390
P3.1.1 Hochlegierter Stahl und Werkzeugstahl, gegläht, Rm 680 N/mm ² , 200 HB	75	0,095	0,120	0,165	0,205	0,240	0,275	0,310	0,345	0,405
P3.1.2 Hochlegierter Stahl und Werkzeugstahl, gehärtet und angelassen, Rm 1100 N/mm ² , 325 HB	65	0,080	0,100	0,140	0,170	0,205	0,235	0,265	0,290	0,345
M1.1.1 Nichtrostender Stahl, ferritisch/martensitisch, mit Zerspanungsadditiven	105	0,095	0,120	0,165	0,205	0,240	0,275	0,310	0,345	0,405
M1.1.2 Nichtrostender Stahl, ferritisch/martensitisch, gegläht, Rm 680 N/mm ² , 200 HB	95	0,085	0,110	0,145	0,180	0,215	0,250	0,280	0,310	0,365
M1.1.3 Nichtrostender Stahl, ferritisch/martensitisch, vergütet, Rm 810 N/mm ² , 240 HB	90	0,080	0,100	0,140	0,170	0,205	0,235	0,265	0,290	0,345
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB	85	0,075	0,095	0,130	0,160	0,190	0,220	0,250	0,275	0,325
M2.2.1 Duplexstahl, hochfeste nichtrostende Stähle	70	0,065	0,080	0,110	0,140	0,165	0,185	0,210	0,235	0,275
K1.1.1 Grauguss, perlitisch/ferritisch, 180 HB										
K1.1.2 Grauguss, perlitisch/martensitisch, 260 HB										
K1.2.1 Gusseisen mit Kugelgraphit, ferritisch, 160 HB										
K1.2.2 Gusseisen mit Kugelgraphit, perlitisch, 250 HB										
K1.3.1 Temporguss, ferritisch, 130 HB										
K1.3.2 Temporguss, perlitisch, 230 HB										
K2.1.1 Gusseisen mit Vermiculargraphit (GJV)										
K2.2.1 Austenitisch-ferritisches Gusseisen mit Kugelgraphit (ADI)										
N1.1.1 Aluminium-Knetlegierungen, nicht aushärtbar, 60 HB										
N1.1.2 Aluminium-Knetlegierungen, ausgehärtet, 100 HB										
N2.1.1 Aluminium-Gusslegierungen, nicht aushärtbar, ≤ 12 % Si, 75 HB										
N2.1.2 Aluminium-Gusslegierungen, ausgehärtet, ≤ 12 % Si, 90 HB										
N2.1.3 Aluminium-Gusslegierungen, nicht aushärtbar, > 12 % Si, 130 HB										
N3.1.1 Kupfer und Kupferlegierungen: Automatenlegierung, Pb > 1 %										
N3.1.2 Kupfer und Kupferlegierungen: CuZn, CuSnZn										
N3.1.3 Kupfer und Kupferlegierungen: CuSn, bleifreies Kupfer und Elektrolytkupfer										
N4.1.1 Nichtmetallische Werkstoffe: Duroplaste, Faserverstärkte Kunststoffe										
N4.1.2 Nichtmetallische Werkstoffe: Hartgummi, Holz usw.										
N4.1.3 Nichtmetallische Werkstoffe: Graphit										
S1.1.1 Warmfeste Legierungen, Fe-Basis, gegläht, 200 HB	60	0,060	0,075	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S1.1.2 Warmfeste Legierungen, Fe-Basis, ausgehärtet, 280 HB	50	0,050	0,060	0,085	0,105	0,120	0,140	0,160	0,175	0,205
S1.1.3 Warmfeste Legierungen, Ni- oder Co-Basis, gegläht, 250 HB	50	0,060	0,075	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S1.1.4 Warmfeste Legierungen, Ni- oder Co-Basis, ausgehärtet, 350 HB	35	0,045	0,055	0,075	0,090	0,105	0,125	0,140	0,155	0,180
S1.1.5 Warmfeste Legierungen, Ni- oder Co-Basis, gegossen, 320 HB	35	0,045	0,055	0,075	0,090	0,105	0,125	0,140	0,155	0,180
S2.1.1 Titanlegierungen, Reintitan, Rm 400 N/mm ²	60	0,060	0,075	0,105	0,130	0,155	0,175	0,200	0,220	0,260
S2.1.2 Titanlegierungen, Alpha- und Beta-Legierungen, ausgehärtet, Rm 1050 N/mm ²	45	0,050	0,060	0,085	0,105	0,120	0,140	0,160	0,175	0,205
H1.1.1 Gehärteter Stahl, gehärtet und angelassen, < 55 HRC										
H1.1.2 Gehärteter Stahl, gehärtet und angelassen, < 60 HRC										
H1.1.3 Gehärteter Stahl, gehärtet und angelassen, > 60 HRC										
H2.1.1 Hartguss, gegossen, 400 HB										
H2.1.2 Hartguss, gehärtet und angelassen, < 55 HRC										

SuperV-Bohrer, Typ X-VA, 51747 (7xD)



Zerspanungsgruppe		f (mm/U) bei Nenn-Ø								
										
	v _c (m/min)	3	4	6	8	10	12	14	16	20
P1.1.1 Unlegierter Stahl, gegläht, 0,15 % C, Rm 420 N/mm ² , 125 HB	140	0,125	0,155	0,210	0,260	0,305	0,355	0,395	0,440	0,520
P1.1.2 Unlegierter Stahl, vergütet, 0,15 % C, Rm 420 N/mm ² , 125 HB	125	0,110	0,140	0,185	0,235	0,275	0,315	0,355	0,395	0,470
P1.1.3 Unlegierter Stahl, gegläht, 0,45 % C, Rm 640 N/mm ² , 190 HB	125	0,110	0,140	0,185	0,235	0,275	0,315	0,355	0,395	0,470
P1.1.4 Unlegierter Stahl, vergütet, 0,45 % C, Rm 640 N/mm ² , 190 HB	120	0,105	0,130	0,175	0,220	0,260	0,300	0,335	0,375	0,440
P1.1.5 Unlegierter Stahl, vergütet, 0,45 % C, Rm 850 N/mm ² , 250 HB	120	0,105	0,130	0,175	0,220	0,260	0,300	0,335	0,375	0,440
P1.1.6 Unlegierter Stahl, gegläht, 0,75 % C, Rm 915 N/mm ² , 270 HB	110	0,100	0,120	0,165	0,205	0,245	0,280	0,315	0,350	0,415
P1.1.7 Unlegierter Stahl, vergütet, 0,75 % C, Rm 1020 N/mm ² , 300 HB	105	0,090	0,115	0,155	0,195	0,230	0,265	0,295	0,330	0,390
P2.1.1 Niedriglegierter Stahl, gegläht, Rm 610 N/mm ² , 180 HB	115	0,095	0,120	0,165	0,205	0,240	0,275	0,310	0,345	0,405
P2.1.2 Niedriglegierter Stahl, vergütet, Rm 930 N/mm ² , 275 HB	115	0,095	0,120	0,165	0,205	0,240	0,275	0,310	0,345	0,405
P2.1.3 Niedriglegierter Stahl, vergütet, Rm 1020 N/mm ² , 300 HB	100	0,080	0,100	0,140	0,170	0,205	0,235	0,265	0,290	0,345
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB	85	0,070	0,090	0,120	0,150	0,180	0,205	0,230	0,255	0,305
P3.1.1 Hochlegierter Stahl und Werkzeugstahl, gegläht, Rm 680 N/mm ² , 200 HB	75	0,075	0,095	0,130	0,160	0,190	0,220	0,250	0,275	0,325
P3.1.2 Hochlegierter Stahl und Werkzeugstahl, gehärtet und angelassen, Rm 1100 N/mm ² , 325 HB	65	0,065	0,080	0,110	0,140	0,165	0,185	0,210	0,235	0,275
M1.1.1 Nichtrostender Stahl, ferritisch/martensitisch, mit Zerspanungsadditiven	100	0,075	0,095	0,130	0,160	0,190	0,220	0,250	0,275	0,325
M1.1.2 Nichtrostender Stahl, ferritisch/martensitisch, gegläht, Rm 680 N/mm ² , 200 HB	90	0,070	0,085	0,115	0,145	0,175	0,200	0,225	0,245	0,295
M1.1.3 Nichtrostender Stahl, ferritisch/martensitisch, vergütet, Rm 810 N/mm ² , 240 HB	85	0,065	0,080	0,110	0,140	0,165	0,185	0,210	0,235	0,275
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB	80	0,060	0,075	0,105	0,130	0,155	0,175	0,200	0,220	0,260
M2.2.1 Duplexstahl, hochfeste nichtrostende Stähle	70	0,050	0,065	0,090	0,110	0,130	0,150	0,170	0,185	0,220
K1.1.1 Grauguss, perlitisch/ferritisch, 180 HB										
K1.1.2 Grauguss, perlitisch/martensitisch, 260 HB										
K1.2.1 Gusseisen mit Kugelgraphit, ferritisch, 160 HB										
K1.2.2 Gusseisen mit Kugelgraphit, perlitisch, 250 HB										
K1.3.1 Temperguss, ferritisch, 130 HB										
K1.3.2 Temperguss, perlitisch, 230 HB										
K2.1.1 Gusseisen mit Vermiculargraphit (GJV)										
K2.2.1 Austenitisch-ferritisches Gusseisen mit Kugelgraphit (ADI)										
N1.1.1 Aluminium-Knetlegierungen, nicht aushärtbar, 60 HB										
N1.1.2 Aluminium-Knetlegierungen, ausgehärtet, 100 HB										
N2.1.1 Aluminium-Gusslegierungen, nicht aushärtbar, ≤ 12 % Si, 75 HB										
N2.1.2 Aluminium-Gusslegierungen, ausgehärtet, ≤ 12 % Si, 90 HB										
N2.1.3 Aluminium-Gusslegierungen, nicht aushärtbar, > 12 % Si, 130 HB										
N3.1.1 Kupfer und Kupferlegierungen: Automatenlegierung, Pb > 1 %										
N3.1.2 Kupfer und Kupferlegierungen: CuZn, CuSnZn										
N3.1.3 Kupfer und Kupferlegierungen: CuSn, bleifreies Kupfer und Elektrolytkupfer										
N4.1.1 Nichtmetallische Werkstoffe: Duroplaste, Faserverstärkte Kunststoffe										
N4.1.2 Nichtmetallische Werkstoffe: Hartgummi, Holz usw.										
N4.1.3 Nichtmetallische Werkstoffe: Graphit										
S1.1.1 Warmfeste Legierungen, Fe-Basis, gegläht, 200 HB	45	0,050	0,060	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S1.1.2 Warmfeste Legierungen, Fe-Basis, ausgehärtet, 280 HB	35	0,040	0,050	0,065	0,080	0,095	0,110	0,125	0,140	0,165
S1.1.3 Warmfeste Legierungen, Ni- oder Co-Basis, gegläht, 250 HB	40	0,050	0,060	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S1.1.4 Warmfeste Legierungen, Ni- oder Co-Basis, ausgehärtet, 350 HB	25	0,035	0,040	0,055	0,070	0,085	0,095	0,110	0,120	0,145
S1.1.5 Warmfeste Legierungen, Ni- oder Co-Basis, gegossen, 320 HB	25	0,035	0,040	0,055	0,070	0,085	0,095	0,110	0,120	0,145
S2.1.1 Titanlegierungen, Reintitan, Rm 400 N/mm ²	45	0,050	0,060	0,080	0,100	0,120	0,140	0,155	0,175	0,205
S2.1.2 Titanlegierungen, Alpha- und Beta-Legierungen, ausgehärtet, Rm 1050 N/mm ²	35	0,040	0,050	0,065	0,080	0,095	0,110	0,125	0,140	0,165
H1.1.1 Gehärteter Stahl, gehärtet und angelassen, < 55 HRC										
H1.1.2 Gehärteter Stahl, gehärtet und angelassen, < 60 HRC										
H1.1.3 Gehärteter Stahl, gehärtet und angelassen, > 60 HRC										
H2.1.1 Hartguss, gegossen, 400 HB										
H2.1.2 Hartguss, gehärtet und angelassen, < 55 HRC										

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
P1.1.1	Unlegierter Stahl, gegläht, 0,15 % C, Rm 420 N/mm ² , 125 HB			
P1.1.2	Unlegierter Stahl, vergütet, 0,15 % C, Rm 420 N/mm ² , 125 HB			
1.0037	St 37-2	S235JR	-	E24-2
1.0038	St 37-3	S275J2G3	A570.36	E28-3
1.0045	S 355 JR	S 1207	-	E36-2
1.0050	St 50-2	E 295	A570 Gr. 50	A50-2
1.0060	St 60-2	-	A572 Gr. 65	A60-2
1.0114	S 235 J0	S 235 J0	-	E24-3
1.0143	S 275 J0	S 275 J0	-	E28-3
1.0144	St 44-3 N	S 275 J2 G3	A573 Gr. 81	E28-3
1.0149	Ro St 44-2	S 275 J0 H	-	-
1.0301	C10	C10	1010	34C10, XC10
1.0330	St 12	Fe P01	-	DC 01/Fe P01
1.0338	St4	Fe P04	A620(1008)	Fe 14
1.0401	C15	-	1015	C18RR, XC18
1.0402	C22	1 C 22	1020	C20
1.0443	GS-45		A2765-35	E23-45M
1.0539	S355NH			TSE355-4
1.0545	S355N			E355R
1.0546	S355NL			E355FP
1.0547	S355J0H			TSE355-3
1.0549	S355NLH			
1.0553	St52-3U		A14880-40	320-560M
1.0562	St E 355		A633 Gr. C	FeE355KGN
1.0570	St 52-3	S355JR	1	E36-3
1.0715	9SMn28		1213	S250
1.0718	9SMnPb28		12L13	S250Pb
1.0721	10S20		1108	10S20
1.0722	10SPb20		11L08	10PbF2
1.0736	9SMn36		1215	S300
1.0737	9SMnPb36		12L14	S300Pb
1.0972	S315MC			E315D
1.0976	S355MC			E355D
1.0982	S460MC			
1.0984	S500MC			E490D
1.0986	S500MC			E560D
1.1121	Ck10		1010	XC10
1.1141	Ck15	32C	1015	XC15
1.1151	C22E		1020	2C22
1.8900	StE380		A572-60	
P1.1.3	Unlegierter Stahl, gegläht, 0,45 % C, Rm 640 N/mm ² , 190 HB			
P1.1.4	Unlegierter Stahl, vergütet, 0,45 % C, Rm 640 N/mm ² , 190 HB			
1.0501	C35		1035	1C35
1.0503	C45		1045	XC42H1TS
1.0511	C40		1040	1C40
1.0540	C50			
1.0551	GS-52		A2770-36	280-480M
1.0553	St52-3U		A14880-40	320-560M
1.0577	S 355 J 2 G 4		A738	A52FP
1.0726	35S20	8M	1140	35MF6
1.0727	45S20		1146	45MF4
1.1157	40Mn4	15	1039	40M5
1.1158	C25E		1025	XC25
1.1166	34Mn5		1536	
1.1167	36Mn5		1335	40M5
1.1170	28Mn6	14A	1330	20M5
1.1178	C30E			XC32
1.1180	C35R		1035	3C35
1.1181	C35E		1035	XC38
1.1191	Ck45		1045	XC45
1.1206	C50E		1050	2C50
1.1213	Cf53		1050	XC48HTS

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
P1.1.5	Unlegierter Stahl, vergütet, 0,45 % C, Rm 850 N/mm ² , 250 HB			
1.0501	C35		1035	1C35
1.0503	C45		1045	XC42H1TS
1.0614	C76D		1074	XC75
1.0616	C86D		1086	XC80
1.0618	C92D		1095	XC90
1.0726	35S20	8M	1140	35MF6
1.1157	40Mn4	15	1039	40M5
1.1165	30Mn5		1036	35M5
1.1167	36Mn5		1335	40M5
1.1186	C40E		1040	2C40
1.1191	Ck45		1045	2C45
1.1201	C45R		1049	3C45
1.1213	Cf53		1050	XC48HTS
1.7242	18CrMo4			
1.7337	16CrMo4-4		A387 Gr.12	
1.7362	12CrMo195			Z10CD5-05
P1.1.6	Unlegierter Stahl, gegläht, 0,75 % C, Rm 915 N/mm ² , 270 HB			
1.0603	C67		107	XC65
1.0605	C75		1075	
1.1203	Ck55		1055	2C55
1.1209	C55R		1055	3C55
1.1221	Ck60	43D	1060	2C60
1.1231	C67E		1070	XC68
1.1248	C75E		1074	XC75
1.1269	C85E		1086	XC90
1.1274	Ck 101	C 100S	1095	XC100
1.1545	C 105 W1	C 105U	W1	Y1 105
1.1663	C125W		W112	Y2120
P1.1.7	Unlegierter Stahl, vergütet, 0,75 % C, Rm 1020 N/mm ² , 300 HB			
1.0070	St 70-2		1055	A70-2
1.0535	C55		1055	1C55
1.0601	C60	43D	1060	1C60
1.1203	Ck55		1055	2C55
1.1221	Ck60	43D	1060	2C60
1.1274	Ck 101	C 100S	1095	XC100
1.1545	C 105 W1	C 105U	W1	Y1 105
1.1663	C125W		W112	Y2120
1.5120	38MnSi4			
1.5710	36NiCr6	111A	3135	35NC6
1.7701	51CrMoV4			
P2.1.1	Niedriglegierter Stahl, gegläht, Rm 610 N/mm ² , 180 HB			
1.0904	55Si7	45	9255	55S7
1.0961	60SiCr7		9262	60SC6
1.2067	102CR6	100CR6	L3	Y100C6
1.2108	90CrSi5		L1	
1.2210	115CrV3		L2	100C3
1.2241	51CrV4			
1.2330	35CrMo4		4135	34CD4
1.2419	105WCr6			105WC13
1.2510	100MnCrW4		01	90 MWCV 5
1.2542	45WCrV7		S1	
1.2550	60WCrV7		S1	55WC20
1.2713	55NiCrMoV6		L6	55NCDV7
1.2721	50NiCr13		L6	55NCV6
1.2842	90MnCrV8		02	90MV8
1.3501	100Cr2		E50100	
1.3505	100Cr6	31	52100	100C6
1.5024	46Si7			45S7
1.5025	51Si7	50Si7	9259H	51S7
1.5027	60Si7	60Si7	9260	60S7
1.5028	65Si7		9260H	
1.5415	15Mo3		A204Gr.A	15D3

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
P2.1.1 Niedriglegierter Stahl, gegülht, Rm 610 N/mm ² , 180 HB				
1.5419	20Mo4		4419	
1.5423	16Mo5		4520	
1.5622	14Ni6		A350-LF5	16N6
1.5732	14NiCr10		3415	14NC11
1.5752	14NiCr14	36A	3310	12NC15
1.6511	36CrNiMo4	110	9840	40NCD3
1.6523	21NiCrMo2	362	8620	20NCD2
1.6546	40NiCrMo2-2		8740	
1.6566	17NiCrMo6-4			
1.6587	17CrNiMo6			18NCD6
1.6657	10NiCrMo13-4			
1.7015	10Cr3		5015	12C3
1.7033	34Cr4	18B	5132	32C4
1.7035	41Cr4	18	5140	42C4
1.7131	16MnCr5		5115	16MC5
1.7139	16MnCrS5			
1.7176	55Cr3	48	5155	55C3
1.7225	42CrMo4	42 CrMo 4	4140	42 CD 4
1.7228	55NiCrMoV6G	33		
1.7380	10CrMo9-10		A182F22	12CD9-10
1.7715	14MoV6-3			
1.8159	50CrV4	47	6150	50CrV4
1.8161	58CrV4			
1.8509	41CrAlMo7	41B	A355A	40CAD6-12
1.8523	39CrMoV13-9	40C		
P2.1.2 Niedriglegierter Stahl, vergütet, Rm 930 N/mm ² , 275 HB				
1.5415	15Mo3		A204Gr.A	15D3
1.5423	16Mo5		4520	
1.5622	14Ni6		A350-LF5	16N6
1.5732	14NiCr10		3415	14NC11
1.5752	14NiCr14	36A	3310	12NC15
1.5755	31NiCr14			18NC13
1.6565	40NiCrMo6	24	4340	35NCD6
1.6587	17CrNiMo6			18NCD6
1.6657	10NiCrMo13-4			
1.6957	26NiCrMoV14-5			
1.7015	10Cr3		5015	12C3
1.7262	15CrMo5			12CD4
1.7335	13CrMo4-4		A182-F11	15CD4-5
1.7380	10CrMo9-10		A182F22	12CD9-10
1.7715	14MoV6-3			
1.7733	24CrMoV55			20CDV6
1.7755	GS-45CrMoV10-4			
1.8070	21CrMoV511			
P2.1.3 Niedriglegierter Stahl, vergütet, Rm 1020 N/mm ² , 300 HB				
1.1730	C45W3		C45W	XC48
1.2332	47CrMo4	19A	4142	42CD4
1.5736	36NiCr10		3435	30NC11
1.6523	21NiCrMo2	362	8620	20NCD2
1.7033	34Cr4	18B	5132	32C4
1.7218	25CrMo4		4130	25CD4
1.8515	32CrMo12	40B		30CD12
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB				
1.0904	55Si7	45	9255	55S7
1.0961	60SiCr7		9262	60SC6
1.2067	100Cr6		L3	Y100C6
1.2419	105WCr6			105WC13
1.2542	45WCrV7		S1	
1.2713	55NiCrMoV6		L6	55NCDV7
1.4882	X50CrMnNiNbN219			Z50CMNNb21-09
1.5120	38MnSi4			

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
P2.1.4 Niedriglegierter Stahl, vergütet, Rm 1190 N/mm ² , 350 HB				
1.5710	36NiCr6	111A	3135	35NC6
1.5755	31NiCr14			18NC13
1.6511	36CrNiMo4	110	9840	40NCD3
1.6546	40NiCrMo2-2		8740	
1.7035	41Cr4	18	5140	42C4
1.7176	55Cr3	48	5155	55C3
1.7220	34CrMo4		4135	35CD4
1.7223	41CrMo4		4142	
1.7225	42CrMo4	42 CrMo 4	4140	42 CD 4
1.7361	32CrMo12	40B		30CD12
1.8159	50CrV4	47	6150	50CrV4
1.8161	58CrV4			
1.8509	41CrAlMo7	41B	A355A	40CAD6-12
1.8523	39CrMoV13-9	40C		
P3.1.1 Hochlegierter Stahl und Werkzeugstahl, gegülht, Rm 680 N/mm ² , 200 HB				
1.2080	X210Cr12	X210Cr12	D3	Z200C12
1.2162	21MnCr5			20MC5
1.2311	40CrMnMo7			40CMD8
1.2312	40CrMnMoS8.6		P20+S	40CMD8S
1.2316	X36CrMo17	X38CrMo16		
1.2343	X38CrMoV5-1		H11	Z38CDV5
1.2344	X40CrMoV5-1		H13	Z40CDV5
1.2363	X100CrMoV5-1		A2	Z100CDV5
1.2379	X155CrVMo121		D2	Z160CDV12
1.2436	X210CrW12		D4(D6)	Z200CD12
1.2510	100MnCrW4		O1	90 MWCV 5
1.2581	X30WCrV9-3		H21	Z30WCV9
1.2601	X165CrMoV12			
1.2606	X37CrMoW51		H12	Z35CWDV5
1.2764	X19NiCrMo4			
1.2767	X45NiCrMo4			45NCD16
1.2842	90MnCrV8		O2	90MV8
1.3243	S6-5-2-5		T15	KCV06-05-05-04-02
1.3249	S18-1-2-5		T4	Z80WKCV18-05-04
1.3343	S6-5-2		M2	Z85WDCV
1.3348	S2-9-2		M7	Z100DCWV09-04-02
1.3355	S18-0-1		T1	Z80WCV18-4-01
1.4718	X45CrSi9-3	52	HNv3	Z45CS9
1.5662	X8Ni9		ASMA353	9Ni
1.5680	12Ni19		2515	Z18N5
P3.1.2 Hochlegierter Stahl und Werkzeugstahl, gehärtet und angelassen, Rm 1100 N/mm ² , 325 HB				
1.2080	X210Cr12	X210Cr12	D3	Z200C12
1.2344	X40CrMoV5-1		H13	Z40CDV5
1.2363	X100CrMoV5-1		A2	Z100CDV5
1.2436	X210CrW12		D4(D6)	Z200CD12
1.2581	X30WCrV9-3		H21	Z30WCV9
1.2601	X165CrMoV12			
1.2714	55NiCrMoV7		6F3/L6	55NiCrMoV7
1.3202	S12-1-4-5			
1.3207	S10-4-3-10			Z130WKCDV
1.3243	S6-5-2-5		T15	KCV06-05-05-04-02
1.3246	S7-4-2-5		M35	Z110WKCDV07-05-04
1.3247	S2-10-1-8		M42	Z110DKCWV09-08-04
1.3255	S18-1-2-5		T4	Z80WKCV18-05-04
1.3343	S6-5-2		M2	Z85WDCV
1.3348	S2-9-2		M7	Z100DCWV09-04-02
1.3355	S18-0-1		T1	Z80WCV18-4-01
1.4718	X45CrSi9-3	52	HNv3	Z45CS9
1.4935	X20CrMoWV121		422	
1.5680	12Ni19		2515	Z18N5

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
M1.1.1 Nichtrostender Stahl, ferritisch/martensitisch, mit Zerspanungsadditiven				
1.4005	X12CrS13		416	Z11CF13
1.4029	X29CrS13			
1.4035	X46CrS13			
1.4104	X14CrMoS17		430F	Z10CF17
1.4105	X6CrMoS17			
1.4523	X2CrMoTiS18-2			
M1.1.2 Nichtrostender Stahl, ferritisch/martensitisch, gegläht, Rm 680 N/mm ² , 200 HB				
1.4000	X6Cr13		403	Z6C13
1.4001	X7Cr14		410 S	Z8C13
1.4002	X6CrAl13		405	Z6CA13
1.4006	X12Cr13	56A	410	Z10C13
1.4016	X6Cr17	X8Cr17	430	Z8C17
1.4027	GX20Cr14			Z20C13M
1.4028	X30Cr13		420	Z30C13
1.4034	X46Cr13			Z40C14
1.4057	X19CrNi17-2	57	431	Z15CN16-02
1.4086	GX120Cr29			
1.4112	X90CrMoV18		440B	
1.4113	X6CrMo17		434	Z8CD17-01
1.4313	X3CrNi13-4		CA6-NM	Z4CND13-04M
1.4340	GX40CrNi274			
1.4417	X2CrNiMoSi195		S31500	
1.4418	X4CrNiMo165			Z6CND16-04-01
1.4510	X6CrTi17		XM8	Z4CT17
1.4511	X6CrNb17			Z4CNb17
1.4512	X6CrTi12		409	Z3CT12
1.4720	X20CrMo13			
1.4724	X10CrAl113		405	Z10C13
1.4742	X10CrAl118	60	430	Z10CAS18
1.4747	X80CrNiSi20	59	HNV6	Z80CSN20-02
1.4749	X18CrN28		446	
1.4762	X10CrAl124		446	Z10CAS24
1.4871	X53CrMnNiN21-9		EV8	Z52CMN21-09
M1.1.3 Nichtrostender Stahl, ferritisch/martensitisch, vergütet, Rm 810 N/mm ² , 240 HB				
1.4000	X6Cr13		403	Z6C13
1.4001	X7Cr14		410 S	Z8C13
1.4006	X12Cr13	56A	410	Z10C13
1.4016	X6Cr17	X8Cr17	430	Z8C17
1.4021	X20Cr13		420	Z20C13
1.4027	GX20Cr14			Z20C13M
1.4031	X40Cr13		420	Z40C14
1.4034	X46Cr13			Z40C14
1.4057	X19CrNi17-2	57	431	Z15CN16-02
1.4113	X6CrMo17		434	Z8CD17-01
1.4313	X3CrNi13-4		CA6-NM	Z4CND13-04M
1.4544	A 700		321	Z 10 CNT 18 11
1.4546	X5CrNiNb18-10		348	
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB				
1.4020	X13MnNiN18-13-2			
1.4301	X5CrNi18-10		304	Z5CN18-09
1.4303	X4CrNi18-12			
1.4305	X8CrNiS18-9	58M	303	Z8CNF18-09
1.4306	X2CrNi19-11	X3CrNi1810KD	304L	Z2CN18-09
1.4307	X2CrNi18-9			
1.4310	X10CrNi18-8		301	Z12CN17-07
1.4311	X2CrNiN18-10		304LN	Z2CN18-10
1.4315	X5CrNiN19-9			
1.4318	X2CrNiN18-7			

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
M2.1.1 Nichtrostender Stahl, austenitisch, abgeschreckt, 180 HB				
1.4325	X9CrNi18-9			
1.4335	X1CrNi25-21			
1.4361	X1CrNiSi18-15-4			
1.4369	X11CrNiMnN19-8-6			
1.4371	X2CrMnNiN17-7-5		202	Z8CMN18-08-05
1.4372	X12CrMnNiN17-7-5			
1.4373	X12CrMnNiN18-9-5			
1.4376	X8CrMnNi19-6-3			
1.4378	X6CrMnNiN18-13-3			
1.4401	X5CrNiMo17-12-2		316	Z3CND17-11-01
1.4404	X2CrNiMo17-12-2		316L	Z2CND17-12
1.4406	X2CrNiMoN17-11-2		316LN	Z2CND17-12AZ
1.4432	X2CrNiMo17-12-3			
1.4434	X2CrNiMoN18-12-4			
1.4435	X2CrNiMo18-14-3		316L	Z3CND17-12-03
1.4438	X2CrNiMo18-15-4		317L	Z2CND19-15-04
1.4439	X2CrNiMoN17-13-5		(s31726)	Z3CND18-14-06AZ
1.4449	X2CrNiMo18-12-3		317	
1.4466	X1CrNiMoN25-22-2			
1.4529	X1NiCrMoCuN25-20-7			
1.4539	X1NiCrMoCu25-20-5			Z2NCUD25-20
1.4541	X6CrNiTi18-10		321	Z6CNT18-10
1.4547	X1CrNiMoCuN20-18-7		S31254	
1.4550	X6CrNiNb18-10	58F	347	Z6CNNb18-10
1.4558	X2NiCrAlTi32-20			
1.4560	X3CrNiCu19-9-2			
1.4563	X1NiCrMoCu31-27-4			
1.4565	X2CrNiMnMoN25-18-6-5			
1.4567	X3CrNiCu18-9-4			
1.4570	X6CrNiCuS18-9-2			
1.4571	X6CrNiMoTi17-12-2	58J	316Ti	Z6NDT17-12
1.4578	X3CrNiCuMo17-11-3-2			
1.4580	X6CrNiMoNb17-12-2			
1.4597	X8CrMnCuNb17-8-3			
1.4598	X2CrNiMoCuS17-10-2			
1.4615	X3CrMnNiCu15-8-5-3			
1.4618	X9CrMnNiCu17-8-5-2			
1.4640	X5CrNiCu19-6-2			
1.4646	X6CrMnNiCuN18-12-4-2			
1.4650	X2CrNiCu19-10			
1.4652	X1CrNiMoCuN24-22-8			
1.4659	X1CrNiMoCuNW24-22-6			
M2.1.1 Duplexstahl, hochfeste nichtrostende Stähle				
1.4062	X2CrNiN22-2			
1.4669	X1CrNiMoCuN25-25-5			
1.4424	X2CrNiMo20-7-2			
1.4362	X2CrNiN23-4		S32304	Z2CN23-04AZ
1.4162	X2CrMnNiMoN25-18-6-5			
1.4482	X2CrMnNiMoN22-5-3			
1.4462	X2CrNiMoN22-5-3			Z3CND22-05Az
1.4662	X1CrNiMoCuN26-25-5			
1.4507	X2CrNiMoCuN25-6-3			
1.4460	X1CrNiMoCuN20-18-7		329	
1.4410	X2CrNiMoN25-7-4			Z5CND20-12M
1.4501	X2CrNiMoCuWN25-7-4			
1.4477	X2CrNiMoCuN25-6-3			
1.4658	X1NiCrMoCu25-20-5			

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
K1.1.1 Grauguss, perlitisch/ferritisch, 180 HB				
0.6010	GG10	GJL-100	A48 20 B	Ft 10 D
0.6015	GG15	GJL-150	A48 25 B	Ft 15 D
0.6020	GG20	GJL-200	A48 30 B	Ft 20 D
0.6025	GG25	GJL-250	A48 40 B	Ft 25 D
0.6660	GGL-NiCr 20 2	GJLA-XNiCr 20-2	1050/700/7	L-NC 202
K1.1.2 Grauguss, perlitisch/martensitisch, 260 HB				
0.6025	GG25	GJL-250	A48 40 B	Ft 25 D
0.6030	GG30	GJL-300	A48 45 B	Ft 30 D
0.6035	GG35	GJL-350	A48 50 B	Ft 35 D
0.6040	GG40	GJL-400	A48 60 B	Ft 40 D
K1.2.1 Gusseisen mit Kugelgraphit, ferritisch, 160 HB				
0.7033	GGG35.3	GJS-350-22-LT	-	FGS 370-17
0.7040	GGG40	GJS-400-15	60-40-18	FCS 400-12
0.7043	GGG40.3	GJS-400-18-LT	60-40-18	FGS 370-17
K1.2.2 Gusseisen mit Kugelgraphit, perlitisch, 250 HB				
0.7050	GGG50	GJS-500-7	80-55-06	FGS 500-7
0.7060	GGG60	GJS-600-3	80-55-06	FGS 600-3
0.7070	GGG70	GJS-700-2	100-70-03	FGS 700-2
0.7652	GGG NiMn 13-7	GJSA-XNiMn 13-7	-	FGS Ni13 Mn7
0.7660	GGG NiCr 20-2	GJSA-XNiCr 20-2	A436 D2	FGS Ni20 Cr2
K1.3.1 Temperguss, ferritisch, 130 HB				
0.8135	GTS-35	GJMB350-10	32510	MN 35-10
K1.3.2 Temperguss, perlitisch, 230 HB				
0.8145	GTS-45	GJMB450-6	A220-40010	MN 450
0.8155	GTS-55	GJMB-550-4	50005	MP 50-5
0.8165	GTS-65	GJMB-650-2	70003	MN 650-3
0.8170	GTS-70	GJMB-700-2	90001	MN 700-2
K2.1.1 Gusseisen mit Vermiculargraphit (GJV)				
5.2100	GJV-300			
5.2201	GJV-400			
5.2301	GJV-500			
K2.2.1 Austenitisch-ferritisches Gusseisen mit Kugelgraphit (ADI)				
5.3400	GJS-800-10			
5.3402	GJS-900-8			
5.3403	GJS-1050-6			

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
N1.1.1 Aluminium-Knetlegierungen, nicht aushärtbar, 60 HB				
3.0205	Al99		Al99	
3.0255	Al99.5		1000	A59050C
3.3206	AlMgSi0.5	AW-6060		
3.3315	AlMg1			
N1.1.2 Aluminium-Knetlegierungen, ausgehärtet, 100 HB				
3.1325	AlCuMg1			
3.1655	AlCuSiPb			
3.2315	AlMgSi1			
3.4345	AlZnMgCu0,5		7050	AZ4GU/9051
3.4365	AlZnMgCu1,5		7075	7075
N2.1.1 Aluminium-Gusslegierungen, nicht aushärtbar, ≤ 12 % Si, 75 HB				
3.2163	AlSi9Cu3			
3.2382	AlSi10Mg			
3.2383	AlSi0Mg(Cu)		A360.2	
3.2581	AlSi12			
3.3561	AlMg5			
N2.1.2 Aluminium-Gusslegierungen, ausgehärtet, ≤ 12 % Si, 90 HB				
2.1871	AlCu4TiMg			
3.1754	AlCu4Ni2Mg			
3.2371	AlSi7Mg		4218B	
3.2373	AlSi9MgWA		SC64D	A-S7G
3.2381	AlSi10Mg			
3.5106	MgAg3SE2Zr1		QE22	
N3.1.1 Kupfer und Kupferlegierungen: Automatenlegierung, Pb > 1 %, 110 HB				
2.0375	CuZn36Pb3			
2.1090	CuSn75pb		C93200	U-E7Z5pb4
2.1096	CuSn5ZnPB		c83600	
2.1098	CuSn2Znpb		C83600	
2.1182	CuPb15Sn		C23000	U-pb15E8
N3.1.2 Kupfer und Kupferlegierungen: CuZn, CuSnZn, 90 HB				
2.0240	CuZn15			
2.0321	CuZn37		C27200	CuZn36,CuZn37
2.0590	CuZn40Fe			
2.0592	CuZn35Al1		C86500	HTB1
2.0596	CuZn34Al2		C86200	U-Z36N3
2.1293	CuCrZr		C18200	U-Cr0-8Zr
N3.1.3 Kupfer und Kupferlegierungen: CuSn, bleifreies Kupfer und Elektrolytkupfer, 100 HB				
2.0060	E-Cu57			
2.0966	CuAl10Ni5Fe4		C63000	U-A10N
2.0975	CuAl10Ni		B-148-52	
2.1050	CuSn10		c90700	
2.1052	G-CuSn12		C90800	UE12P
2.1292	G-CuCrF35		C81500	

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
S1.1.1 Warmfeste Legierungen, Fe-Basis, gegläht, 200 HB				
1.4558	X2NiCrAlTi3220		N08800	
1.4562	X1NiCrMoCu32287		N08031	
1.4563	X1NiCrMoCuN31274		N08028	Z1NC DU31-27-03
1.4864	X12NiCrSi36-16		330	Z12NCS37-18
1.4865	GX40NiCrSi38-18			
1.4958	X5NiCrAlTi3120			
S1.1.2 Warmfeste Legierungen, Fe-Basis, ausgehärtet, 280 HB				
1.4977	X40CoCrNi2020			Z42CNKDOWNb
S1.1.3 Warmfeste Legierungen, Ni- oder Co-Basis, gegläht, 250 HB				
2.4360	NiCu30Fe			NU30
2.4603	NiCr 30 FeMo		5390A	NC22FeD
2.4610	NiMo16cR16Ti			
2.4630	NiCr20Ti			NC20T
2.4631	NiCr20TiAl			NC20TA
2.4642	NiCr29Fe			Nnc30Fe
2.4856	NiCr22Mo9Nb			NC22FeDNb
S1.1.4 Warmfeste Legierungen, Ni- oder Co-Basis, ausgehärtet, 350 HB				
2.4375	NiCu30Al		4676	NU30AT
2.4662	NiFe35Cr14MoTi		5660	ZSNCDT42
2.4668	NiCr19Fe19NbMo		5383	NC19eNB
2.4670	S-NiCr13A16MoNb		5391	NC12AD
2.4694	NiCr16Fe7TiAl			
2.4955	NiFe25Cr20NbTi			
2.4964	CoCr20W15Ni		5772	KC20WN
S1.1.5 Warmfeste Legierungen, Ni- oder Co-Basis, gegossen, 320 HB				
2.4669	NiCr15Fe7TiAl			NC15TNbA
2.4685	G-NiMo28			
2.4810	G-NiMo30			
2.4973	NiCr19Co11MoTi		AMS 5399	NC19KDT
3.7115	TiAl5Sn2			
S2.1.1 Titanlegierungen, Reintitan, Rm 400 N/mm ²				
2.4674	NiCo15Cr10MoAlTi		AMS 5397	
3.7025	Ti1		R50250	
3.7225	Ti1pd		R52250	
S2.1.2 Titanlegierungen, Alpha- und Beta-Legierungen, ausgehärtet, Rm 1050 N/mm ²				
3.7124	TiCu2			
3.7145	TiAl6Sn2Zr4Mo2Si		R54620	
3.7165	TiAl6V4		AMS R56400	T-A6V
3.7185	TiAl4Mo4Sn2			
3.7195	TiAl3V2.5			

Mat.-Nr.	DIN	EN	AISI/ASTM/SAE	AFNOR
H1.1.1 H1.1.2 H1.1.3	Gehärteter Stahl, gehärtet und angelassen, < 55 HRC Gehärteter Stahl, gehärtet und angelassen, < 60 HRC Gehärteter Stahl, gehärtet und angelassen, > 60 HRC			
1.1231	Ck 67	C 67S	1070	XC 68
1.1248	Ck 75	C 75S	1078, 1080	XC 75
1.1274	Ck 101	C 100S	1095	XC100
1.1545	C 105 W1	C 105U	W1	Y1 105
1.1730	C 45 W3			
1.2067	102CR6	100CR6		
1.2343	X37CrMoV5-1			
1.2361	X91CrMoV18			
1.2379	X155CrMoV12-1			
1.2762	75CrMoNiW67			
1.3401	GX120Mn12		A128(A)	Z120M12
1.6746	32NiCrMo14-5	32nIcRm0145		35NCD14
1.7131	16MnCr5			
1.7176	55Cr3	48	5155	55C3
1.7225	42CrMo4	42 CrMo 4	4140	42 CD 4
H2.1.1 Hartguss, gegossen, 400 HB				
0.9620	GX260NiCr42	GJN-HV520	A532 IB	FB Ni4 Cr2 BC
0.9625	GX330NiCr42	GJN-HV550	A532 IA	FB Ni4 Cr2 HC
0.9630	GX300 CrNiSi 9 5 2	GJN-HV600	A532 ID	FB Cr9 Ni5
0.9640	GX300CrMoNi1521			
0.9650	GX260Cr27			
0.9655	GX300CrNiMo271			
1.4841	X15CrNiSi25-20	X 15 CrNiSi 25 20	310	Z15CNS25-20
H2.1.2 Hartguss, gehärtet und angelassen, < 55 HRC				
0.9635	GX300 CrMo 15 3			
0.9645	GX260 CrMoNi 20 21			





SuperV-X SuperV-X VA

Unser Programm

Produkte

Bohrwerkzeuge
Gewindewerkzeuge
Fräswerkzeuge
Reibwerkzeuge
Senkwerkzeuge
Faswerkzeuge
Sonderwerkzeuge aus HSS, PKD und Hartmetall
(nach Zeichnung oder Eigenentwicklung)
Werkzeugaufnahmen

Dienstleistungen

Nachschleifen und Beschichten
Entschichten
Hartmetall-Recycling
Intelligente Werkzeugdepotsysteme
Anwendungstechnische Beratung

Ihr Ansprechpartner vor Ort:



R. Stock AG

Lengeder Straße 29–35 • 13407 Berlin, Deutschland
Telefon: +49 30 40 90 3-33 300 • Mail Inland: verkauf@stock.de
www.stock.de