

Your technology partner for cost-effective machining

MEGA-Speed-Drill

MEGA-Speed-Drill

Maximum speeds, faster drilling

The MEGA-Speed-Drill series sets new standards in high-speed machining and ensures maximum efficiency. The optimum interplay of cutting speed, feed rate and innovative drill geometry achieves an outstanding metal removal rate. At the same time, the specially customised cutting geometry significantly reduces the cutting forces.

The MEGA-Speed-Drill utilises the full potential of machines with high speed and low spindle power. Highly polished flutes and stable guide chamfers enable up to 30 % higher feed rates than conventional drills.

The result: more precise, faster and more efficient drilling processes that take your productivity to a new level.

INNOVATIVE GEOMETRY FOR MAXIMUM PRECISION AND EFFICIENCY 

Tool features in detail



1 Unevenly split cutting edges

2 Highly polished flutes

3 Specially matched cutting geometries

4 Three guide bevels



THREE TIMES FASTER AND PROCESS RELIABLE

Faster drilling - higher speed, lower cutting forces, more power!



Maximum speed

The MEGA-Speed-Drill family the full potential of machines with high speed and low spindle power - for precise and powerful drilling.



Significantly reduced cutting forces

The coordinated cutting geometry significantly minimises the cutting forces - perfect for thin-walled and unstable components.



Outstanding metal removal rate

The perfect interplay of cutting speed, feed rate and drill geometry ensures an outstanding metal removal rate and maximum efficiency.



30 % higher feed rates

Thanks to highly polished flutes and stable guide chamfers, up to 30 % higher feed rates are possible - for faster and more efficient drilling processes.

PRODUCT OVERVIEW

Powerful in steel, stainless steel, cast iron and titanium

Application



High-speed
processing

Product class



Expert Line: Specialist tools for selected applications, maximum precision and productivity.

Bore tolerance

IT9

Maximum achievable
bore tolerance \geq IT

Product portfolio

MEGA-Speed-Drill-Steel



Material suitability:



Drilling depth:

3xD 5xD 8xD 12xD

» From page 6

MEGA-Speed-Drill-Inox



Material suitability:



Drilling depth:

5xD 8xD 12xD

» From page 14

MEGA-Speed-Drill-Titan



Material suitability:



Drilling depth:

5xD

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CONFIGURATION

Configuration for solid carbide drills – fast, simple and productive

How does the configuration work?

- **Rapid availability:** Products from the stocked preferred series are available at short notice and can be ordered directly via the material number on the product page
- **Customisation:** If you require a different diameter or a different shank design, you can configure the drill bit individually.

Configurable features *

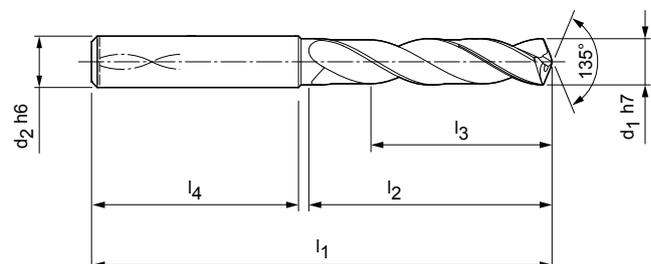
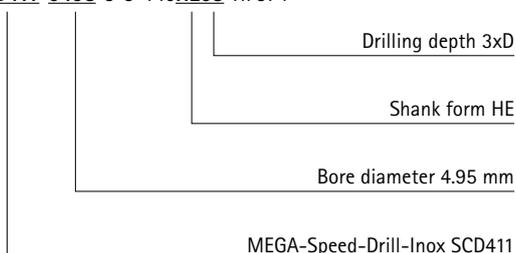


Dimensions of configurable series MEGA-Speed-Drill

Example: (1) MEGA-Speed-Drill-Inox SCD411 in 5xD | (2) Bore diameter 4.95 mm | (3) Shank form HE

d ₁ min.	d ₁ max.	d ₂ h6	Product range													l ₄	Shank form
			SCD621			SCD621 SCD411 SCD961			SCD621 SCD411			SDC621 SCD411					
			3xD			5xD			8xD			12xD					
			l ₁	l ₂	l ₃	l ₁	l ₂	l ₃	l ₁	l ₂	l ₃	l ₁	l ₂	l ₃			
3,00	3,70	6	62	20	14	66	28	23	72	34	29	92	54	48	36	3	
3,71	4,70	6	66	24	17	74	36	29	81	43	36	102	64	58	36		
4,71	6,00	6	66	28	20	82	44	35	95	57	48	116	78	70	36		
6,01	8,00	8	79	34	24	91	53	43	114	76	64	146	108	94	36		
8,01	10,00	10	89	47	35	103	61	49	142	95	80	162	120	110	40		
10,01	12,00	12	102	55	40	118	71	56	162	114	96	204	156	142	45		
12,01	14,00	14	107	60	43	124	77	60	178	133	112	230	182	166	45		
14,01	16,00	16	115	65	45	133	83	63	203	152	128	260	208	192	48		
16,01	18,00	18	123	73	51	143	93	71	222	171	144	285	234	216	48		
18,01	20,00	20	131	79	55	153	101	77	243	190	160	310	258	240	50		

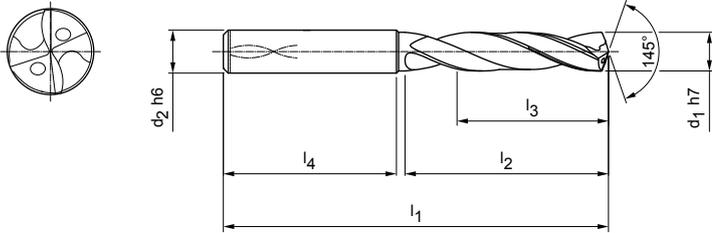
Example:
SCD411-0495-3-3-140HE03-HP374



MEGA-Speed-Drill-Steel

Solid carbide twist drill

SCD621 (3xD), internal coolant supply, follow-up product to the MEGA-Speed-Drill-Uni (SCD22)



Design:

- Drill diameter: 3.00 – 20.00 mm
- Bore tolerance: IT 9 (achievable)
- Cutting material: HP358
- Number of cutting edges: 2
- Number of guiding chamfers: 3
- Tip angle: 145°
- Helix angle: 30°

Application:

For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	62	20	14	36	SCD621-0300-2-3-145HA03-HP358	31036265
3,20	6	62	20	14	36	SCD621-0320-2-3-145HA03-HP358	31036267
3,30	6	62	20	14	36	SCD621-0330-2-3-145HA03-HP358	31036268
3,40	6	62	20	14	36	SCD621-0340-2-3-145HA03-HP358	31036269
3,50	6	62	20	14	36	SCD621-0350-2-3-145HA03-HP358	31036270
3,70	6	62	20	14	36	SCD621-0370-2-3-145HA03-HP358	31036272
3,80	6	66	24	17	36	SCD621-0380-2-3-145HA03-HP358	31036273
3,90	6	66	24	17	36	SCD621-0390-2-3-145HA03-HP358	31036274
4,00	6	66	24	17	36	SCD621-0400-2-3-145HA03-HP358	31036275
4,10	6	66	24	17	36	SCD621-0410-2-3-145HA03-HP358	31036276
4,20	6	66	24	17	36	SCD621-0420-2-3-145HA03-HP358	31036277
4,30	6	66	24	17	36	SCD621-0430-2-3-145HA03-HP358	31036278
4,50	6	66	24	17	36	SCD621-0450-2-3-145HA03-HP358	31036280
4,60	6	66	24	17	36	SCD621-0460-2-3-145HA03-HP358	31036281
4,65	6	66	24	17	36	SCD621-0465-2-3-145HA03-HP358	31307528
4,70	6	66	24	17	36	SCD621-0470-2-3-145HA03-HP358	31036282
4,90	6	66	28	20	36	SCD621-0490-2-3-145HA03-HP358	31036284
5,00	6	66	28	20	36	SCD621-0500-2-3-145HA03-HP358	31036285
5,10	6	66	28	20	36	SCD621-0510-2-3-145HA03-HP358	31036286
5,20	6	66	28	20	36	SCD621-0520-2-3-145HA03-HP358	31036287
5,50	6	66	28	20	36	SCD621-0550-2-3-145HA03-HP358	31036290
5,60	6	66	28	20	36	SCD621-0560-2-3-145HA03-HP358	31036291
5,80	6	66	28	20	36	SCD621-0580-2-3-145HA03-HP358	31036293
5,90	6	66	28	20	36	SCD621-0590-2-3-145HA03-HP358	31036294
6,00	6	66	28	20	36	SCD621-0600-2-3-145HA03-HP358	31036295
6,10	8	79	34	24	36	SCD621-0610-2-3-145HA03-HP358	31036296
6,20	8	79	34	24	36	SCD621-0620-2-3-145HA03-HP358	31036297
6,30	8	79	34	24	36	SCD621-0630-2-3-145HA03-HP358	31036298
6,40	8	79	34	24	36	SCD621-0640-2-3-145HA03-HP358	31036299
6,50	8	79	34	24	36	SCD621-0650-2-3-145HA03-HP358	31036300
6,60	8	79	34	24	36	SCD621-0660-2-3-145HA03-HP358	31036301
6,80	8	79	34	24	36	SCD621-0680-2-3-145HA03-HP358	31036303
6,90	8	79	34	24	36	SCD621-0690-2-3-145HA03-HP358	31036304
7,00	8	79	34	24	36	SCD621-0700-2-3-145HA03-HP358	31036305
7,15	8	79	41	29	36	SCD621-0715-2-3-145HA03-HP358	31307529

MEGA-Speed-Drill-Steel | Solid carbide twist drill SCD621 (3xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
7,30	8	79	41	29	36	SCD621-0730-2-3-145HA03-HP358	31036308
7,40	8	79	41	29	36	SCD621-0740-2-3-145HA03-HP358	31036309
7,50	8	79	41	29	36	SCD621-0750-2-3-145HA03-HP358	31036310
7,60	8	79	41	29	36	SCD621-0760-2-3-145HA03-HP358	31036311
7,70	8	79	41	29	36	SCD621-0770-2-3-145HA03-HP358	31036312
7,80	8	79	41	29	36	SCD621-0780-2-3-145HA03-HP358	31036313
8,00	8	79	41	29	36	SCD621-0800-2-3-145HA03-HP358	31036315
8,20	10	89	47	35	40	SCD621-0820-2-3-145HA03-HP358	31036317
8,50	10	89	47	35	40	SCD621-0850-2-3-145HA03-HP358	31036320
8,60	10	89	47	35	40	SCD621-0860-2-3-145HA03-HP358	31036321
8,70	10	89	47	35	40	SCD621-0870-2-3-145HA03-HP358	31036322
8,80	10	89	47	35	40	SCD621-0880-2-3-145HA03-HP358	31036323
8,90	10	89	47	35	40	SCD621-0890-2-3-145HA03-HP358	31036324
9,00	10	89	47	35	40	SCD621-0900-2-3-145HA03-HP358	31036325
9,10	10	89	47	35	40	SCD621-0910-2-3-145HA03-HP358	31036326
9,20	10	89	47	35	40	SCD621-0920-2-3-145HA03-HP358	31036327
9,30	10	89	47	35	40	SCD621-0930-2-3-145HA03-HP358	31036328
9,40	10	89	47	35	40	SCD621-0940-2-3-145HA03-HP358	31036329
9,50	10	89	47	35	40	SCD621-0950-2-3-145HA03-HP358	31036330
9,60	10	89	47	35	40	SCD621-0960-2-3-145HA03-HP358	31036331
9,80	10	89	47	35	40	SCD621-0980-2-3-145HA03-HP358	31036333
9,90	10	89	47	35	40	SCD621-0990-2-3-145HA03-HP358	31036334
10,00	10	89	47	35	40	SCD621-1000-2-3-145HA03-HP358	31036335
10,20	12	102	55	40	45	SCD621-1020-2-3-145HA03-HP358	31036337
10,30	12	102	55	40	45	SCD621-1030-2-3-145HA03-HP358	31036338
10,50	12	102	55	40	45	SCD621-1050-2-3-145HA03-HP358	31036340
11,00	12	102	55	40	45	SCD621-1100-2-3-145HA03-HP358	31036345
11,20	12	102	55	40	45	SCD621-1120-2-3-145HA03-HP358	31036347
11,50	12	102	55	40	45	SCD621-1150-2-3-145HA03-HP358	31036350
11,80	12	102	55	40	45	SCD621-1180-2-3-145HA03-HP358	31036353
11,90	12	102	55	40	45	SCD621-1190-2-3-145HA03-HP358	31036354
12,00	12	102	55	40	45	SCD621-1200-2-3-145HA03-HP358	31036355
13,00	14	107	60	43	45	SCD621-1300-2-3-145HA03-HP358	31036359
13,80	14	107	60	43	45	SCD621-1380-2-3-145HA03-HP358	31036361
14,00	14	107	60	43	45	SCD621-1400-2-3-145HA03-HP358	31036362
14,50	16	115	65	45	48	SCD621-1450-2-3-145HA03-HP358	31036364
15,00	16	115	65	45	48	SCD621-1500-2-3-145HA03-HP358	31036366
16,00	16	115	65	45	48	SCD621-1600-2-3-145HA03-HP358	31036370
17,00	18	123	73	51	48	SCD621-1700-2-3-145HA03-HP358	31036373
17,50	18	123	73	51	48	SCD621-1750-2-3-145HA03-HP358	31036374
18,00	18	123	73	51	48	SCD621-1800-2-3-145HA03-HP358	31036376
18,50	20	131	79	55	50	SCD621-1850-2-3-145HA03-HP358	31036377
20,00	20	131	79	55	50	SCD621-2000-2-3-145HA03-HP358	31036392

Dimensions in mm.

For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

MEGA-Speed-Drill-Steel

Solid carbide twist drill

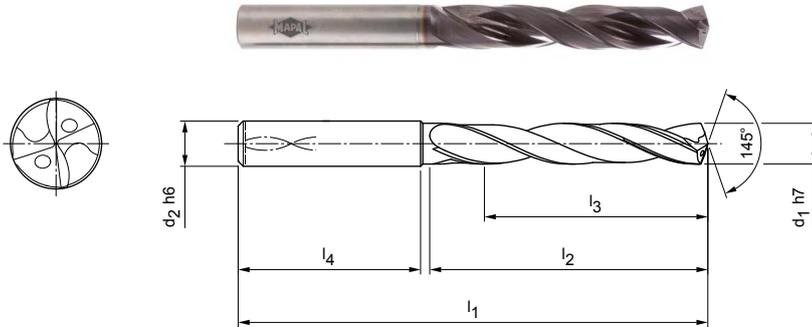
SCD621 (5xD), internal coolant supply, follow-up product to the MEGA-Speed-Drill-Uni (SCD22)

Design:

Drill diameter:	3.00 – 20.00 mm
Bore tolerance:	≥ IT 9
Cutting material:	HP358
Number of cutting edges:	2
Number of guiding chamfers:	3
Tip angle:	145°
Helix angle:	30°

Application:

For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	66	28	23	36	SCD621-0300-2-3-145HA05-HP358	30966287
3,10	6	66	28	23	36	SCD621-0310-2-3-145HA05-HP358	30966288
3,20	6	66	28	23	36	SCD621-0320-2-3-145HA05-HP358	30966289
3,30	6	66	28	23	36	SCD621-0330-2-3-145HA05-HP358	30966310
3,40	6	66	28	23	36	SCD621-0340-2-3-145HA05-HP358	30966311
3,50	6	66	28	23	36	SCD621-0350-2-3-145HA05-HP358	30959126
3,70	6	66	28	23	36	SCD621-0370-2-3-145HA05-HP358	30966313
3,80	6	74	36	29	36	SCD621-0380-2-3-145HA05-HP358	30966314
4,00	6	74	36	29	36	SCD621-0400-2-3-145HA05-HP358	30966316
4,20	6	74	36	29	36	SCD621-0420-2-3-145HA05-HP358	30966318
4,30	6	74	36	29	36	SCD621-0430-2-3-145HA05-HP358	30966319
4,50	6	74	36	29	36	SCD621-0450-2-3-145HA05-HP358	30966321
4,65	6	74	36	29	36	SCD621-0465-2-3-145HA05-HP358	31307540
4,70	6	74	36	29	36	SCD621-0470-2-3-145HA05-HP358	30966323
4,80	6	82	44	35	36	SCD621-0480-2-3-145HA05-HP358	30966324
4,90	6	82	44	35	36	SCD621-0490-2-3-145HA05-HP358	30966326
5,00	6	82	44	35	36	SCD621-0500-2-3-145HA05-HP358	30966327
5,10	6	82	44	35	36	SCD621-0510-2-3-145HA05-HP358	30966328
5,20	6	82	44	35	36	SCD621-0520-2-3-145HA05-HP358	30966329
5,30	6	82	44	35	36	SCD621-0530-2-3-145HA05-HP358	30966330
5,40	6	82	44	35	36	SCD621-0540-2-3-145HA05-HP358	30966331
5,50	6	82	44	35	36	SCD621-0550-2-3-145HA05-HP358	30966332
5,55	6	82	44	35	36	SCD621-0555-2-3-145HA05-HP358	31307541
5,60	6	82	44	35	36	SCD621-0560-2-3-145HA05-HP358	30966333
5,70	6	82	44	35	36	SCD621-0570-2-3-145HA05-HP358	30966334
5,80	6	82	44	35	36	SCD621-0580-2-3-145HA05-HP358	30966335
5,90	6	82	44	35	36	SCD621-0590-2-3-145HA05-HP358	30966336
6,00	6	82	44	35	36	SCD621-0600-2-3-145HA05-HP358	30966337
6,10	8	91	53	43	36	SCD621-0610-2-3-145HA05-HP358	30966338
6,20	8	91	53	43	36	SCD621-0620-2-3-145HA05-HP358	30966339
6,30	8	91	53	43	36	SCD621-0630-2-3-145HA05-HP358	30966340
6,50	8	91	53	43	36	SCD621-0650-2-3-145HA05-HP358	30966342
6,70	8	91	53	43	36	SCD621-0670-2-3-145HA05-HP358	30966344
6,80	8	91	53	43	36	SCD621-0680-2-3-145HA05-HP358	30966345
6,90	8	91	53	43	36	SCD621-0690-2-3-145HA05-HP358	30966346
7,00	8	91	53	43	36	SCD621-0700-2-3-145HA05-HP358	30966347
7,10	8	91	53	43	36	SCD621-0710-2-3-145HA05-HP358	30966348

MEGA-Speed-Drill-Steel | Solid carbide twist drill SCD621 (5xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
7,20	8	91	53	43	36	SCD621-0720-2-3-145HA05-HP358	30966349
7,30	8	91	53	43	36	SCD621-0730-2-3-145HA05-HP358	30966350
7,40	8	91	53	43	36	SCD621-0740-2-3-145HA05-HP358	30966351
7,50	8	91	53	43	36	SCD621-0750-2-3-145HA05-HP358	30966352
7,60	8	91	53	43	36	SCD621-0760-2-3-145HA05-HP358	30966353
7,80	8	91	53	43	36	SCD621-0780-2-3-145HA05-HP358	30966355
8,00	8	91	53	43	36	SCD621-0800-2-3-145HA05-HP358	30948674
8,10	10	103	61	49	40	SCD621-0810-2-3-145HA05-HP358	30966357
8,20	10	103	61	49	40	SCD621-0820-2-3-145HA05-HP358	30966358
8,30	10	103	61	49	40	SCD621-0830-2-3-145HA05-HP358	30966359
8,40	10	103	61	49	40	SCD621-0840-2-3-145HA05-HP358	30966360
8,50	10	103	61	49	40	SCD621-0850-2-3-145HA05-HP358	30959302
8,60	10	103	61	49	40	SCD621-0860-2-3-145HA05-HP358	30966361
8,70	10	89	47	35	40	SCD621-0870-2-3-145HA05-HP358	30812607
8,80	10	103	61	49	40	SCD621-0880-2-3-145HA05-HP358	30966362
9,00	10	103	61	49	40	SCD621-0900-2-3-145HA05-HP358	30966364
9,10	10	103	61	49	40	SCD621-0910-2-3-145HA05-HP358	30966365
9,30	10	103	61	49	40	SCD621-0930-2-3-145HA05-HP358	30966367
9,40	10	103	61	49	40	SCD621-0940-2-3-145HA05-HP358	30966368
9,50	10	103	61	49	40	SCD621-0950-2-3-145HA05-HP358	30966369
9,70	10	103	61	49	40	SCD621-0970-2-3-145HA05-HP358	30958145
9,80	10	103	61	49	40	SCD621-0980-2-3-145HA05-HP358	30959402
9,90	10	103	61	49	40	SCD621-0990-2-3-145HA05-HP358	30966371
10,00	10	103	61	49	40	SCD621-1000-2-3-145HA05-HP358	30948675
10,20	12	118	71	56	45	SCD621-1020-2-3-145HA05-HP358	30966373
10,30	12	118	71	56	45	SCD621-1030-2-3-145HA05-HP358	30966374
10,50	12	118	71	56	45	SCD621-1050-2-3-145HA05-HP358	30966376
11,00	12	118	71	56	45	SCD621-1100-2-3-145HA05-HP358	30966381
11,10	12	118	71	56	45	SCD621-1110-2-3-145HA05-HP358	30966382
11,20	12	118	71	56	45	SCD621-1120-2-3-145HA05-HP358	30966383
11,30	12	118	71	56	45	SCD621-1130-2-3-145HA05-HP358	30966384
11,40	12	118	71	56	45	SCD621-1140-2-3-145HA05-HP358	30966385
11,50	12	118	71	56	45	SCD621-1150-2-3-145HA05-HP358	30966386
11,60	12	118	71	56	45	SCD621-1160-2-3-145HA05-HP358	30966387
11,80	12	118	71	56	45	SCD621-1180-2-3-145HA05-HP358	30966389
11,90	12	118	71	56	45	SCD621-1190-2-3-145HA05-HP358	30966390
12,00	12	118	71	56	45	SCD621-1200-2-3-145HA05-HP358	30948676
12,20	14	124	77	60	45	SCD621-1220-2-3-145HA05-HP358	30966391
12,50	14	124	77	60	45	SCD621-1250-2-3-145HA05-HP358	30966392
12,80	14	124	77	60	45	SCD621-1280-2-3-145HA05-HP358	30980599
13,00	14	124	77	60	45	SCD621-1300-2-3-145HA05-HP358	30966393
13,50	14	124	77	60	45	SCD621-1350-2-3-145HA05-HP358	30966394
13,80	14	124	77	60	45	SCD621-1380-2-3-145HA05-HP358	30966395
14,00	14	124	77	60	45	SCD621-1400-2-3-145HA05-HP358	30966396
14,20	16	133	83	63	48	SCD621-1420-2-3-145HA05-HP358	30966397
14,50	16	133	83	63	48	SCD621-1450-2-3-145HA05-HP358	30966398
15,00	16	133	83	63	48	SCD621-1500-2-3-145HA05-HP358	30966400
15,20	16	133	83	63	48	SCD621-1520-2-3-145HA05-HP358	30966401
15,50	16	133	83	63	48	SCD621-1550-2-3-145HA05-HP358	30966402
16,00	16	133	83	63	48	SCD621-1600-2-3-145HA05-HP358	30966404
16,50	18	143	93	71	48	SCD621-1650-2-3-145HA05-HP358	30966405
17,00	18	143	93	71	48	SCD621-1700-2-3-145HA05-HP358	30966407
17,50	18	143	93	71	48	SCD621-1750-2-3-145HA05-HP358	30966408
18,00	18	143	93	71	48	SCD621-1800-2-3-145HA05-HP358	30966410
18,50	20	153	101	77	50	SCD621-1850-2-3-145HA05-HP358	30966411
19,80	20	153	101	77	50	SCD621-1980-2-3-145HA05-HP358	30966415
20,00	20	153	101	77	50	SCD621-2000-2-3-145HA05-HP358	30966416

Dimensions in mm.

For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

MEGA-Speed-Drill-Steel

Solid carbide twist drill

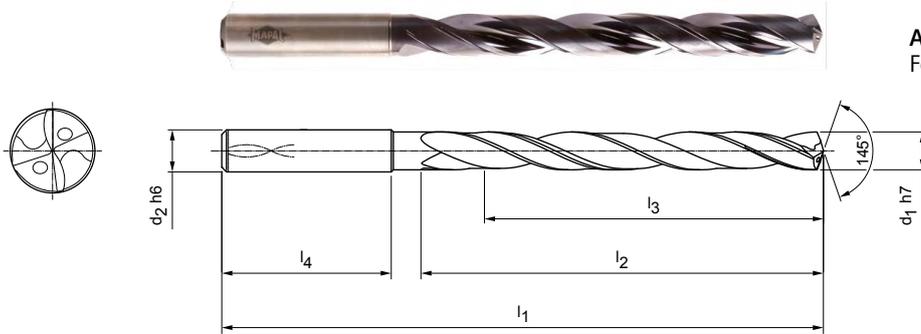
SCD621 (8xD), internal coolant supply, follow-up product to the MEGA-Speed-Drill-Uni (SCD22)

Design:

Drill diameter: 3.00 – 20.00 mm
 Bore tolerance: IT 9 (achievable)
 Cutting material: HP358
 Number of cutting edges: 2
 Number of guiding chamfers: 3
 Tip angle: 145°
 Helix angle: 30°

Application:

For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	72	34	29	36	SCD621-0300-2-3-145HA08-HP358	31036147
3,10	6	72	34	29	36	SCD621-0310-2-3-145HA08-HP358	31036148
3,20	6	72	34	29	36	SCD621-0320-2-3-145HA08-HP358	31036149
3,30	6	72	34	29	36	SCD621-0330-2-3-145HA08-HP358	31036150
3,40	6	72	34	29	36	SCD621-0340-2-3-145HA08-HP358	31036151
3,50	6	72	34	29	36	SCD621-0350-2-3-145HA08-HP358	31036152
3,70	6	72	34	29	36	SCD621-0370-2-3-145HA08-HP358	31036154
4,00	6	81	43	36	36	SCD621-0400-2-3-145HA08-HP358	31036157
4,10	6	81	43	36	36	SCD621-0410-2-3-145HA08-HP358	31036158
4,20	6	81	43	36	36	SCD621-0420-2-3-145HA08-HP358	31036159
4,30	6	81	43	36	36	SCD621-0430-2-3-145HA08-HP358	31036160
4,50	6	81	43	36	36	SCD621-0450-2-3-145HA08-HP358	31036162
4,65	6	81	43	36	36	SCD621-0465-2-3-145HA08-HP358	31307542
4,80	6	95	57	48	36	SCD621-0480-2-3-145HA08-HP358	31036165
4,90	6	95	57	48	36	SCD621-0490-2-3-145HA08-HP358	31036166
5,00	6	95	57	48	36	SCD621-0500-2-3-145HA08-HP358	31036167
5,10	6	95	57	48	36	SCD621-0510-2-3-145HA08-HP358	31036168
5,20	6	95	57	48	36	SCD621-0520-2-3-145HA08-HP358	31036169
5,40	6	95	57	48	36	SCD621-0540-2-3-145HA08-HP358	31036171
5,50	6	95	57	48	36	SCD621-0550-2-3-145HA08-HP358	31036172
5,55	6	95	57	48	36	SCD621-0555-2-3-145HA08-HP358	31307543
5,60	6	95	57	48	36	SCD621-0560-2-3-145HA08-HP358	31036173
5,80	6	95	57	48	36	SCD621-0580-2-3-145HA08-HP358	31036175
5,90	6	95	57	48	36	SCD621-0590-2-3-145HA08-HP358	31036176
6,00	6	95	57	48	36	SCD621-0600-2-3-145HA08-HP358	31036177
6,10	8	114	76	64	36	SCD621-0610-2-3-145HA08-HP358	31036178
6,20	8	114	76	64	36	SCD621-0620-2-3-145HA08-HP358	31036179
6,50	8	114	76	64	36	SCD621-0650-2-3-145HA08-HP358	31036182
6,80	8	114	76	64	36	SCD621-0680-2-3-145HA08-HP358	31036185
6,90	8	114	76	64	36	SCD621-0690-2-3-145HA08-HP358	31036186
7,00	8	114	76	64	36	SCD621-0700-2-3-145HA08-HP358	31036187
7,50	8	114	76	64	36	SCD621-0750-2-3-145HA08-HP358	31036192
7,80	8	114	76	64	36	SCD621-0780-2-3-145HA08-HP358	31036195
8,00	8	114	76	64	36	SCD621-0800-2-3-145HA08-HP358	31036197
8,10	10	142	95	80	40	SCD621-0810-2-3-145HA08-HP358	31036198

MEGA-Speed-Drill-Steel | Solid carbide twist drill SCD621 (8xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
8,50	10	142	95	80	40	SCD621-0850-2-3-145HA08-HP358	31036202
9,00	10	142	95	80	40	SCD621-0900-2-3-145HA08-HP358	31036207
9,50	10	142	95	80	40	SCD621-0950-2-3-145HA08-HP358	31036212
9,80	10	142	95	80	40	SCD621-0980-2-3-145HA08-HP358	31036215
10,00	10	142	95	80	40	SCD621-1000-2-3-145HA08-HP358	31036217
10,20	12	162	114	96	45	SCD621-1020-2-3-145HA08-HP358	31036219
10,30	12	162	114	96	45	SCD621-1030-2-3-145HA08-HP358	31036220
10,50	12	162	114	96	45	SCD621-1050-2-3-145HA08-HP358	31036222
11,00	12	162	114	96	45	SCD621-1100-2-3-145HA08-HP358	31036227
11,80	12	162	114	96	45	SCD621-1180-2-3-145HA08-HP358	31036235
12,00	12	162	114	96	45	SCD621-1200-2-3-145HA08-HP358	31036237
12,50	14	178	133	112	45	SCD621-1250-2-3-145HA08-HP358	31036239
13,00	14	178	133	112	45	SCD621-1300-2-3-145HA08-HP358	31036241
13,50	14	178	133	112	45	SCD621-1350-2-3-145HA08-HP358	31036242
14,00	14	178	133	112	45	SCD621-1400-2-3-145HA08-HP358	31036244
15,00	16	203	152	128	48	SCD621-1500-2-3-145HA08-HP358	31036248
15,80	16	203	152	128	48	SCD621-1580-2-3-145HA08-HP358	31036251
16,00	16	203	152	128	48	SCD621-1600-2-3-145HA08-HP358	31036252
19,00	20	243	190	160	50	SCD621-1900-2-3-145HA08-HP358	31036261
19,80	20	243	190	160	50	SCD621-1980-2-3-145HA08-HP358	31036263

Dimensions in mm.

For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

MEGA-Speed-Drill-Steel

Solid carbide twist drill

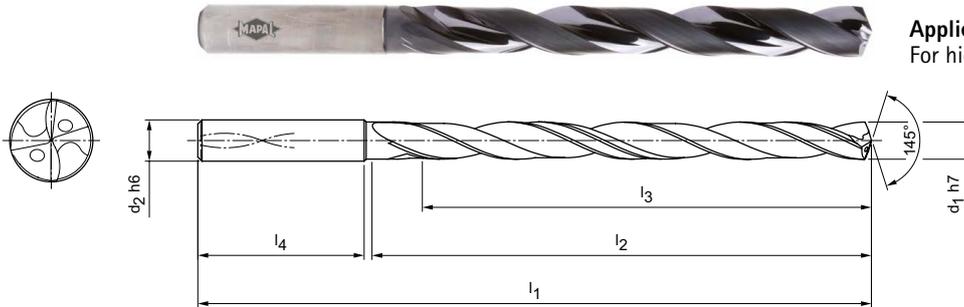
SCD621 (12xD), internal coolant supply, follow-up product to the MEGA-Speed-Drill-Uni (SCD22)

Design:

Drill diameter: 3.00 – 20.00 mm
 Bore tolerance: $\geq IT 9$
 Cutting material: HP358
 Number of cutting edges: 2
 Number of guiding chamfers: 3
 Tip angle: 145°
 Helix angle: 30°

Application:

For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	92	54	48	36	SCD621-0300-2-3-145HA12-HP358	31239148
3,20	6	92	54	48	36	SCD621-0320-2-3-145HA12-HP358	31239150
3,30	6	92	54	48	36	SCD621-0330-2-3-145HA12-HP358	31239151
3,40	6	92	54	48	36	SCD621-0340-2-3-145HA12-HP358	31239152
3,50	6	92	54	48	36	SCD621-0350-2-3-145HA12-HP358	31239153
3,70	6	92	54	48	36	SCD621-0370-2-3-145HA12-HP358	31239155
4,00	6	102	64	58	36	SCD621-0400-2-3-145HA12-HP358	31239158
4,10	6	102	64	58	36	SCD621-0410-2-3-145HA12-HP358	31239159
4,20	6	102	64	58	36	SCD621-0420-2-3-145HA12-HP358	31239160
4,30	6	102	64	58	36	SCD621-0430-2-3-145HA12-HP358	31239161
4,50	6	102	64	58	36	SCD621-0450-2-3-145HA12-HP358	31239163
4,80	6	116	78	70	36	SCD621-0480-2-3-145HA12-HP358	31239166
5,00	6	116	78	70	36	SCD621-0500-2-3-145HA12-HP358	31239168
5,10	6	116	78	70	36	SCD621-0510-2-3-145HA12-HP358	31239169
5,20	6	116	78	70	36	SCD621-0520-2-3-145HA12-HP358	31239170
5,40	6	116	78	70	36	SCD621-0540-2-3-145HA12-HP358	31239172
5,50	6	116	78	70	36	SCD621-0550-2-3-145HA12-HP358	31239173
5,80	6	116	78	70	36	SCD621-0580-2-3-145HA12-HP358	31239176
6,00	6	116	78	70	36	SCD621-0600-2-3-145HA12-HP358	31239178
6,10	8	146	108	94	36	SCD621-0610-2-3-145HA12-HP358	31239179
6,50	8	146	108	94	36	SCD621-0650-2-3-145HA12-HP358	31239183
6,80	8	146	108	94	36	SCD621-0680-2-3-145HA12-HP358	31239186
7,00	8	146	108	94	36	SCD621-0700-2-3-145HA12-HP358	31239188
7,50	8	146	108	94	36	SCD621-0750-2-3-145HA12-HP358	31239193
7,80	8	146	108	94	36	SCD621-0780-2-3-145HA12-HP358	31239196
8,00	8	146	108	94	36	SCD621-0800-2-3-145HA12-HP358	31239198
8,50	10	162	120	110	40	SCD621-0850-2-3-145HA12-HP358	31239203
9,00	10	162	120	110	40	SCD621-0900-2-3-145HA12-HP358	31239208
9,50	10	162	120	110	40	SCD621-0950-2-3-145HA12-HP358	31239213
9,80	10	162	120	110	40	SCD621-0980-2-3-145HA12-HP358	31239216
10,00	10	162	120	110	40	SCD621-1000-2-3-145HA12-HP358	31239218
10,20	12	204	156	142	45	SCD621-1020-2-3-145HA12-HP358	31239220
10,50	12	204	156	142	45	SCD621-1050-2-3-145HA12-HP358	31239223
11,00	12	204	156	142	45	SCD621-1100-2-3-145HA12-HP358	31239228
11,80	12	204	156	142	45	SCD621-1180-2-3-145HA12-HP358	31239236

MEGA-Speed-Drill-Steel | Solid carbide twist drill SCD621 (12xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
12,00	12	204	156	142	45	SCD621-1200-2-3-145HA12-HP358	31239238
12,50	14	230	182	166	45	SCD621-1250-2-3-145HA12-HP358	31239240
13,00	14	230	182	166	45	SCD621-1300-2-3-145HA12-HP358	31239242
13,50	14	230	182	166	45	SCD621-1350-2-3-145HA12-HP358	31239243
14,00	14	230	182	166	45	SCD621-1400-2-3-145HA12-HP358	31239245
15,00	16	260	208	192	48	SCD621-1500-2-3-145HA12-HP358	31239248
16,00	16	260	208	192	48	SCD621-1600-2-3-145HA12-HP358	31239253

Dimensions in mm.

For cutting data recommendations, see end of chapter.

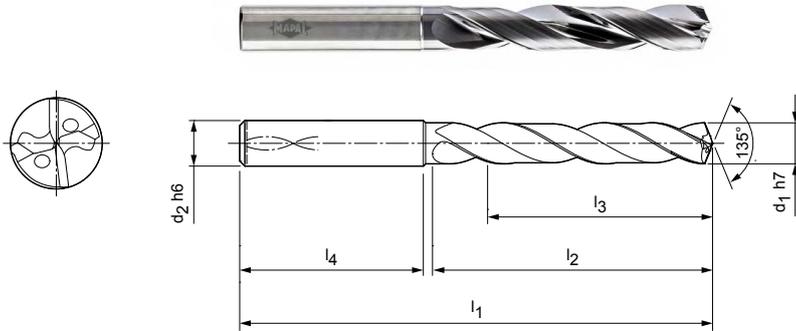
Special designs and other coatings available upon request.

MEGA-Speed-Drill-Inox

Solid carbide twist drill
SCD411 (5xD), internal coolant supply

Design:
 Drill diameter: 3.00 - 20.00 mm
 Bore tolerance: $\geq IT 9$
 Cutting material: HP374
 Number of cutting edges: 2
 Number of guiding chamfers: 3
 Tip angle: 135°
 Helix angle: 30°

Application:
 For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	66	28	23	36	SCD411-0300-2-3-135HA05-HP374	30488182
3,10	6	66	28	23	36	SCD411-0310-2-3-135HA05-HP374	30488183
3,20	6	66	28	23	36	SCD411-0320-2-3-135HA05-HP374	30488184
3,30	6	66	28	23	36	SCD411-0330-2-3-135HA05-HP374	30488185
3,40	6	66	28	23	36	SCD411-0340-2-3-135HA05-HP374	30488186
3,50	6	66	28	23	36	SCD411-0350-2-3-135HA05-HP374	30488187
3,70	6	66	28	23	36	SCD411-0370-2-3-135HA05-HP374	30488189
3,80	6	74	36	29	36	SCD411-0380-2-3-135HA05-HP374	30488190
4,00	6	74	36	29	36	SCD411-0400-2-3-135HA05-HP374	30488192
4,10	6	74	36	29	36	SCD411-0410-2-3-135HA05-HP374	30488193
4,20	6	74	36	29	36	SCD411-0420-2-3-135HA05-HP374	30488194
4,30	6	74	36	29	36	SCD411-0430-2-3-135HA05-HP374	30488195
4,50	6	74	36	29	36	SCD411-0450-2-3-135HA05-HP374	30488197
4,65	6	74	36	29	36	SCD411-0465-2-3-135HA05-HP374	30488199
4,70	6	74	36	29	36	SCD411-0470-2-3-135HA05-HP374	30488200
4,80	6	82	44	35	36	SCD411-0480-2-3-135HA05-HP374	30488201
5,00	6	82	44	35	36	SCD411-0500-2-3-135HA05-HP374	30488203
5,10	6	82	44	35	36	SCD411-0510-2-3-135HA05-HP374	30488204
5,20	6	82	44	35	36	SCD411-0520-2-3-135HA05-HP374	30488205
5,30	6	82	44	35	36	SCD411-0530-2-3-135HA05-HP374	30488206
5,50	6	82	44	35	36	SCD411-0550-2-3-135HA05-HP374	30488208
5,55	6	82	44	35	36	SCD411-0555-2-3-135HA05-HP374	30488209
5,60	6	82	44	35	36	SCD411-0560-2-3-135HA05-HP374	30488210
5,80	6	82	44	35	36	SCD411-0580-2-3-135HA05-HP374	30488212
5,90	6	82	44	35	36	SCD411-0590-2-3-135HA05-HP374	30488213
6,00	6	82	44	35	36	SCD411-0600-2-3-135HA05-HP374	30488214
6,10	8	91	53	43	36	SCD411-0610-2-3-135HA05-HP374	30488215
6,30	8	91	53	43	36	SCD411-0630-2-3-135HA05-HP374	30488217
6,50	8	91	53	43	36	SCD411-0650-2-3-135HA05-HP374	30488219
6,60	8	91	53	43	36	SCD411-0660-2-3-135HA05-HP374	30488220
6,80	8	91	53	43	36	SCD411-0680-2-3-135HA05-HP374	30488222
6,90	8	91	53	43	36	SCD411-0690-2-3-135HA05-HP374	30488223
7,00	8	91	53	43	36	SCD411-0700-2-3-135HA05-HP374	30488224
7,30	8	91	53	43	36	SCD411-0730-2-3-135HA05-HP374	30488227
7,40	8	91	53	43	36	SCD411-0740-2-3-135HA05-HP374	30488228

MEGA-Speed-Drill-Inox | Solid carbide twist drill SCD411 (5xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
7,50	8	91	53	43	36	SCD411-0750-2-3-135HA05-HP374	30488229
7,60	8	91	53	43	36	SCD411-0760-2-3-135HA05-HP374	30488230
7,80	8	91	53	43	36	SCD411-0780-2-3-135HA05-HP374	30488232
8,00	8	91	53	43	36	SCD411-0800-2-3-135HA05-HP374	30488234
8,30	10	103	61	49	40	SCD411-0830-2-3-135HA05-HP374	30488237
8,50	10	103	61	49	40	SCD411-0850-2-3-135HA05-HP374	30488239
8,60	10	103	61	49	40	SCD411-0860-2-3-135HA05-HP374	30488240
8,70	10	103	61	49	40	SCD411-0870-2-3-135HA05-HP374	30488241
8,80	10	103	61	49	40	SCD411-0880-2-3-135HA05-HP374	30488242
8,90	10	103	61	49	40	SCD411-0890-2-3-135HA05-HP374	30488243
9,00	10	103	61	49	40	SCD411-0900-2-3-135HA05-HP374	30488244
9,20	10	103	61	49	40	SCD411-0920-2-3-135HA05-HP374	30488246
9,50	10	103	61	49	40	SCD411-0950-2-3-135HA05-HP374	30488249
9,70	10	103	61	49	40	SCD411-0970-2-3-135HA05-HP374	30488251
9,80	10	103	61	49	40	SCD411-0980-2-3-135HA05-HP374	30488252
9,90	10	103	61	49	40	SCD411-0990-2-3-135HA05-HP374	30488253
10,00	10	103	61	49	40	SCD411-1000-2-3-135HA05-HP374	30488254
10,20	12	118	71	56	45	SCD411-1020-2-3-135HA05-HP374	30488256
10,30	12	118	71	56	45	SCD411-1030-2-3-135HA05-HP374	30488257
10,50	12	118	71	56	45	SCD411-1050-2-3-135HA05-HP374	30488259
10,80	12	118	71	56	45	SCD411-1080-2-3-135HA05-HP374	30488262
11,00	12	118	71	56	45	SCD411-1100-2-3-135HA05-HP374	30488264
11,50	12	118	71	56	45	SCD411-1150-2-3-135HA05-HP374	30488269
11,80	12	118	71	56	45	SCD411-1180-2-3-135HA05-HP374	30488272
12,00	12	118	71	56	45	SCD411-1200-2-3-135HA05-HP374	30488274
12,20	14	124	77	60	45	SCD411-1220-2-3-135HA05-HP374	31307527
12,50	14	124	77	60	45	SCD411-1250-2-3-135HA05-HP374	30488275
12,80	14	124	77	60	45	SCD411-1280-2-3-135HA05-HP374	30488276
13,00	14	124	77	60	45	SCD411-1300-2-3-135HA05-HP374	30488277
13,50	14	124	77	60	45	SCD411-1350-2-3-135HA05-HP374	30488278
14,00	14	124	77	60	45	SCD411-1400-2-3-135HA05-HP374	30488280
14,20	16	133	83	63	48	SCD411-1420-2-3-135HA05-HP374	30661538
14,50	16	133	83	71	48	SCD411-1450-2-3-135HA05-HP374	30488281
15,00	16	133	83	71	48	SCD411-1500-2-3-135HA05-HP374	30488283
16,00	16	133	83	71	48	SCD411-1600-2-3-135HA05-HP374	30488286
17,00	18	143	93	71	48	SCD411-1700-2-3-135HA05-HP374	30488289
17,50	18	143	93	71	48	SCD411-1750-2-3-135HA05-HP374	30488290
18,00	18	143	93	71	48	SCD411-1800-2-3-135HA05-HP374	30488292
18,50	20	153	101	77	50	SCD411-1850-2-3-135HA05-HP374	30488293
20,00	20	153	101	77	50	SCD411-2000-2-3-135HA05-HP374	30488298

Dimensions in mm.

For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

MEGA-Speed-Drill-Inox

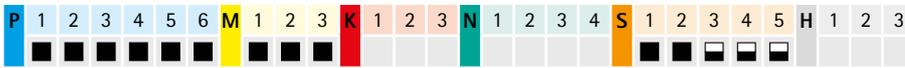
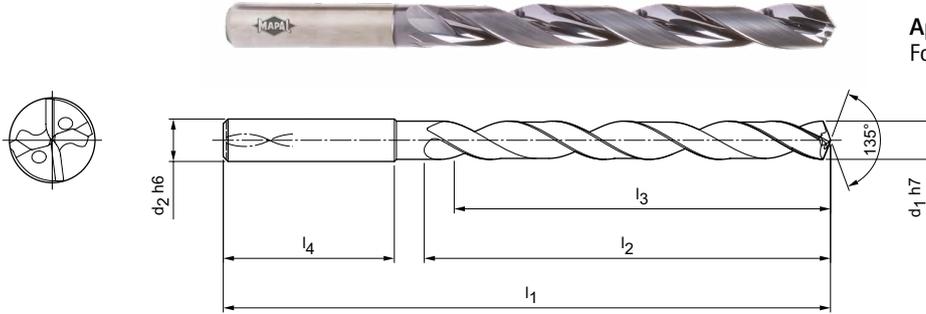
Solid carbide twist drill
SCD411 (8xD), internal coolant supply

Design:

Drill diameter: 3.00 - 20.00 mm
Bore tolerance: $\geq IT 9$
Cutting material: HP374
Number of cutting edges: 2
Number of guiding chamfers: 3
Tip angle: 135°
Helix angle: 30°

Application:

For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	72	34	29	36	SCD411-0300-2-3-135HA08-HP374	31159372
3,20	6	72	34	29	36	SCD411-0320-2-3-135HA08-HP374	31159374
3,30	6	72	34	29	36	SCD411-0330-2-3-135HA08-HP374	31159375
3,40	6	72	34	29	36	SCD411-0340-2-3-135HA08-HP374	31159376
3,50	6	72	34	29	36	SCD411-0350-2-3-135HA08-HP374	31159377
3,70	6	72	34	29	36	SCD411-0370-2-3-135HA08-HP374	31159379
3,90	6	81	43	36	36	SCD411-0390-2-3-135HA08-HP374	31159391
4,00	6	81	43	36	36	SCD411-0400-2-3-135HA08-HP374	31159392
4,10	6	81	43	36	36	SCD411-0410-2-3-135HA08-HP374	31159393
4,20	6	81	43	36	36	SCD411-0420-2-3-135HA08-HP374	31159394
4,30	6	81	43	36	36	SCD411-0430-2-3-135HA08-HP374	31159395
4,50	6	81	43	36	36	SCD411-0450-2-3-135HA08-HP374	31159397
4,60	6	81	43	36	36	SCD411-0460-2-3-135HA08-HP374	31159398
4,80	6	95	57	48	36	SCD411-0480-2-3-135HA08-HP374	31159401
5,00	6	95	57	48	36	SCD411-0500-2-3-135HA08-HP374	31159403
5,10	6	95	57	48	36	SCD411-0510-2-3-135HA08-HP374	31159404
5,20	6	95	57	48	36	SCD411-0520-2-3-135HA08-HP374	31159405
5,40	6	95	57	48	36	SCD411-0540-2-3-135HA08-HP374	31159407
5,50	6	95	57	48	36	SCD411-0550-2-3-135HA08-HP374	31159408
5,80	6	95	57	48	36	SCD411-0580-2-3-135HA08-HP374	31159412
6,00	6	95	57	48	36	SCD411-0600-2-3-135HA08-HP374	31159414
6,10	8	114	76	64	36	SCD411-0610-2-3-135HA08-HP374	31159415
6,50	8	114	76	64	36	SCD411-0650-2-3-135HA08-HP374	31159419
6,80	8	114	76	64	36	SCD411-0680-2-3-135HA08-HP374	31159422
7,00	8	114	76	64	36	SCD411-0700-2-3-135HA08-HP374	31159424
7,50	8	114	76	64	36	SCD411-0750-2-3-135HA08-HP374	31159429
7,80	8	114	76	64	36	SCD411-0780-2-3-135HA08-HP374	31159432
8,00	8	114	76	64	36	SCD411-0800-2-3-135HA08-HP374	31159434
8,50	10	142	95	80	40	SCD411-0850-2-3-135HA08-HP374	31159439
9,00	10	142	95	80	40	SCD411-0900-2-3-135HA08-HP374	31159444
9,30	10	142	95	80	40	SCD411-0930-2-3-135HA08-HP374	31159447
9,50	10	142	95	80	40	SCD411-0950-2-3-135HA08-HP374	31159449
9,80	10	142	95	80	40	SCD411-0980-2-3-135HA08-HP374	31159452
10,00	10	142	95	80	40	SCD411-1000-2-3-135HA08-HP374	31159454
10,20	12	162	114	96	45	SCD411-1020-2-3-135HA08-HP374	31159456

MEGA-Speed-Drill-Inox | Solid carbide twist drill SCD411 (8xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
10,50	12	162	114	96	45	SCD411-1050-2-3-135HA08-HP374	31159459
11,00	12	162	114	96	45	SCD411-1100-2-3-135HA08-HP374	31159464
11,80	12	162	114	96	45	SCD411-1180-2-3-135HA08-HP374	31159472
12,00	12	162	114	96	45	SCD411-1200-2-3-135HA08-HP374	31159474
12,50	14	178	133	112	45	SCD411-1250-2-3-135HA08-HP374	31159476
13,00	14	178	133	112	45	SCD411-1300-2-3-135HA08-HP374	31159478
13,50	14	178	133	112	45	SCD411-1350-2-3-135HA08-HP374	31159479
14,00	14	178	133	112	45	SCD411-1400-2-3-135HA08-HP374	31159481
15,00	16	203	152	128	48	SCD411-1500-2-3-135HA08-HP374	31159485
16,00	16	203	152	128	48	SCD411-1600-2-3-135HA08-HP374	31159489

Dimensions in mm.

For cutting data recommendations, see end of chapter.

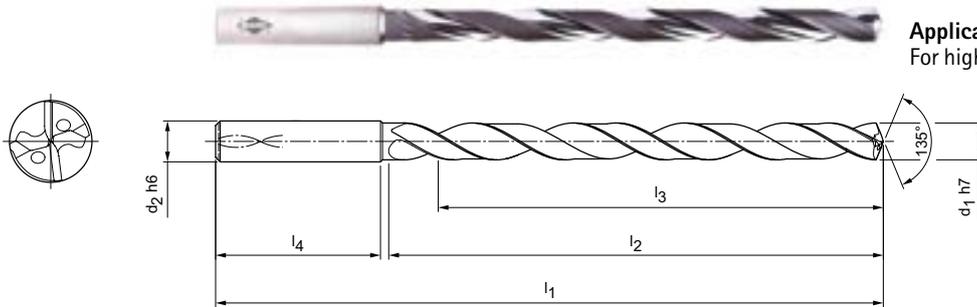
Special designs and other coatings available upon request.

MEGA-Speed-Drill-Inox

Solid carbide twist drill
SCD411 (12xD), internal coolant supply

Design:
 Drill diameter: 3.00 - 20.00 mm
 Bore tolerance: $\geq IT 9$
 Cutting material: HP374
 Number of cutting edges: 2
 Number of guiding chamfers: 3
 Tip angle: 135°
 Helix angle: 30°

Application:
 For high-speed machining.



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	92	54	48	36	SCD411-0300-2-3-135HA12-HP374	31132678
3,10	6	92	54	48	36	SCD411-0310-2-3-135HA12-HP374	31132679
3,20	6	92	54	48	36	SCD411-0320-2-3-135HA12-HP374	31132690
3,30	6	92	54	48	36	SCD411-0330-2-3-135HA12-HP374	31132691
3,40	6	92	54	48	36	SCD411-0340-2-3-135HA12-HP374	31132692
3,50	6	92	54	48	36	SCD411-0350-2-3-135HA12-HP374	31132693
3,70	6	92	54	48	36	SCD411-0370-2-3-135HA12-HP374	31132695
4,00	6	102	64	58	36	SCD411-0400-2-3-135HA12-HP374	31132698
4,10	6	102	64	58	36	SCD411-0410-2-3-135HA12-HP374	31132699
4,20	6	102	64	58	36	SCD411-0420-2-3-135HA12-HP374	31132700
4,30	6	102	64	58	36	SCD411-0430-2-3-135HA12-HP374	31132701
4,50	6	102	64	58	36	SCD411-0450-2-3-135HA12-HP374	31132703
4,80	6	116	78	70	36	SCD411-0480-2-3-135HA12-HP374	31132706
5,00	6	116	78	70	36	SCD411-0500-2-3-135HA12-HP374	31132708
5,10	6	116	78	70	36	SCD411-0510-2-3-135HA12-HP374	31132709
5,20	6	116	78	70	36	SCD411-0520-2-3-135HA12-HP374	31132710
5,40	6	116	78	70	36	SCD411-0540-2-3-135HA12-HP374	31132712
5,50	6	116	78	70	36	SCD411-0550-2-3-135HA12-HP374	31132713
5,80	6	116	78	70	36	SCD411-0580-2-3-135HA12-HP374	31132716
6,00	6	116	78	70	36	SCD411-0600-2-3-135HA12-HP374	31132718
6,10	8	146	108	94	36	SCD411-0610-2-3-135HA12-HP374	31132719
6,20	8	146	108	94	36	SCD411-0620-2-3-135HA12-HP374	31132720
6,50	8	146	108	94	36	SCD411-0650-2-3-135HA12-HP374	31132723
6,80	8	146	108	94	36	SCD411-0680-2-3-135HA12-HP374	31132726
7,00	8	146	108	94	36	SCD411-0700-2-3-135HA12-HP374	31132728
7,50	8	146	108	94	36	SCD411-0750-2-3-135HA12-HP374	31132733
7,80	8	146	108	94	36	SCD411-0780-2-3-135HA12-HP374	31132736
8,00	8	146	108	94	36	SCD411-0800-2-3-135HA12-HP374	31132738
8,50	10	162	120	110	40	SCD411-0850-2-3-135HA12-HP374	31132743
9,00	10	162	120	110	40	SCD411-0900-2-3-135HA12-HP374	31132748
9,10	10	162	120	110	40	SCD411-0910-2-3-135HA12-HP374	31132749
9,50	10	162	120	110	40	SCD411-0950-2-3-135HA12-HP374	31132753
9,70	10	162	120	110	40	SCD411-0970-2-3-135HA12-HP374	31132755
9,80	10	162	120	110	40	SCD411-0980-2-3-135HA12-HP374	31132756
10,00	10	162	120	110	40	SCD411-1000-2-3-135HA12-HP374	31132758

MEGA-Speed-Drill-Inox | Solid carbide twist drill SCD411 (12xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
10,10	12	204	156	142	45	SCD411-1010-2-3-135HA12-HP374	31132759
10,20	12	204	156	142	45	SCD411-1020-2-3-135HA12-HP374	31132760
10,50	12	204	156	142	45	SCD411-1050-2-3-135HA12-HP374	31132763
11,00	12	204	156	142	45	SCD411-1100-2-3-135HA12-HP374	31132768
11,80	12	204	156	142	45	SCD411-1180-2-3-135HA12-HP374	31132776
12,00	12	204	156	142	45	SCD411-1200-2-3-135HA12-HP374	31132778
12,50	14	230	182	166	45	SCD411-1250-2-3-135HA12-HP374	31132780
12,80	14	230	182	166	45	SCD411-1280-2-3-135HA12-HP374	31132781
13,00	14	230	182	166	45	SCD411-1300-2-3-135HA12-HP374	31132782
13,50	14	230	182	166	45	SCD411-1350-2-3-135HA12-HP374	31132783
14,00	14	230	182	166	45	SCD411-1400-2-3-135HA12-HP374	31132785
15,00	16	260	208	192	48	SCD411-1500-2-3-135HA12-HP374	31132788
16,00	16	260	208	192	48	SCD411-1600-2-3-135HA12-HP374	31132793

Dimensions in mm.

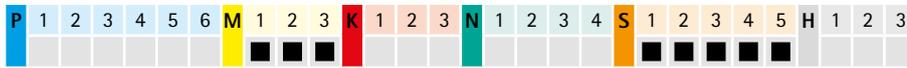
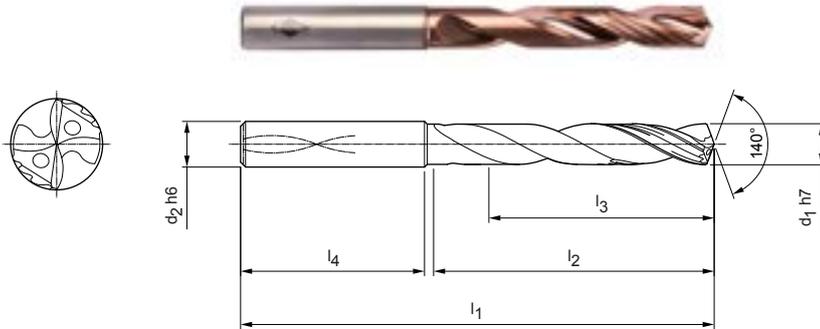
For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

MEGA-Speed-Drill-Titan

Solid carbide twist drill
SCD961 (5xD), internal coolant supply

Design:
 Drill diameter: 3.00 - 20.00 mm
 Bore tolerance: IT 9 (accessible)
 Cutting material: HP184
 Number of cutting edges: 2
 Number of guiding chamfers: 4
 Tip angle: 140°
 Helix angle: 30°



Stocked preferred series in shank form HA

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
3,00	6	66	28	23	36	SCD961-0300-2-4-140HA05-HP184	31315779
3,10	6	66	28	23	36	SCD961-0310-2-4-140HA05-HP184	31315820
3,20	6	66	28	23	36	SCD961-0320-2-4-140HA05-HP184	31315821
3,30	6	66	28	23	36	SCD961-0330-2-4-140HA05-HP184	31315822
3,40	6	66	28	23	36	SCD961-0340-2-4-140HA05-HP184	31315823
3,50	6	66	28	23	36	SCD961-0350-2-4-140HA05-HP184	31315824
3,60	6	66	28	23	36	SCD961-0360-2-4-140HA05-HP184	31315825
3,70	6	66	28	23	36	SCD961-0370-2-4-140HA05-HP184	31315826
3,80	6	74	36	29	36	SCD961-0380-2-4-140HA05-HP184	31315827
4,00	6	74	36	29	36	SCD961-0400-2-4-140HA05-HP184	31315828
4,10	6	74	36	29	36	SCD961-0410-2-4-140HA05-HP184	31315829
4,20	6	74	36	29	36	SCD961-0420-2-4-140HA05-HP184	31315830
4,30	6	74	36	29	36	SCD961-0430-2-4-140HA05-HP184	31315831
4,40	6	74	36	29	36	SCD961-0440-2-4-140HA05-HP184	31315832
4,50	6	74	36	29	36	SCD961-0450-2-4-140HA05-HP184	31315833
4,60	6	74	36	29	36	SCD961-0460-2-4-140HA05-HP184	31315834
4,70	6	74	36	29	36	SCD961-0470-2-4-140HA05-HP184	31315835
4,80	6	82	44	35	36	SCD961-0480-2-4-140HA05-HP184	31315836
5,00	6	82	44	35	36	SCD961-0500-2-4-140HA05-HP184	31315837
5,10	6	82	44	35	36	SCD961-0510-2-4-140HA05-HP184	31315838
5,20	6	82	44	35	36	SCD961-0520-2-4-140HA05-HP184	31315839
5,30	6	82	44	35	36	SCD961-0530-2-4-140HA05-HP184	31315840
5,40	6	82	44	35	36	SCD961-0540-2-4-140HA05-HP184	31315841
5,50	6	82	44	35	36	SCD961-0550-2-4-140HA05-HP184	31315842
5,80	6	82	44	35	36	SCD961-0580-2-4-140HA05-HP184	31315843
5,90	6	82	44	35	36	SCD961-0590-2-4-140HA05-HP184	31315844
6,00	6	82	44	35	36	SCD961-0600-2-4-140HA05-HP184	31315845
6,20	8	91	53	43	36	SCD961-0620-2-4-140HA05-HP184	31315846
6,50	8	91	53	43	36	SCD961-0650-2-4-140HA05-HP184	31315847
6,60	8	91	53	43	36	SCD961-0660-2-4-140HA05-HP184	31315848
6,80	8	91	53	43	36	SCD961-0680-2-4-140HA05-HP184	31315849
6,90	8	91	53	43	36	SCD961-0690-2-4-140HA05-HP184	31358957
7,00	8	91	53	43	36	SCD961-0700-2-4-140HA05-HP184	31315850
7,10	8	91	53	43	36	SCD961-0710-2-4-140HA05-HP184	31315851
7,30	8	91	53	43	36	SCD961-0730-2-4-140HA05-HP184	31315852

MEGA-Speed-Drill-Titan | Solid carbide twist drill SCD961 (5xD), internal coolant supply

Dimensions						Shank form HA	
d ₁ h7	d ₂ h6	l ₁	l ₂	l ₃	l ₄	Specification	Order no.
7,40	8	91	53	43	36	SCD961-0740-2-4-140HA05-HP184	31315853
7,50	8	91	53	43	36	SCD961-0750-2-4-140HA05-HP184	31315854
7,80	8	91	53	43	36	SCD961-0780-2-4-140HA05-HP184	31315855
8,00	8	91	53	43	36	SCD961-0800-2-4-140HA05-HP184	31315856
8,10	10	103	61	49	40	SCD961-0810-2-4-140HA05-HP184	31315857
8,20	10	103	61	49	40	SCD961-0820-2-4-140HA05-HP184	31315858
8,30	10	103	61	49	40	SCD961-0830-2-4-140HA05-HP184	31315859
8,40	10	103	61	49	40	SCD961-0840-2-4-140HA05-HP184	31315860
8,50	10	103	61	49	40	SCD961-0850-2-4-140HA05-HP184	31315861
8,80	10	103	61	49	40	SCD961-0880-2-4-140HA05-HP184	31315862
9,00	10	103	61	49	40	SCD961-0900-2-4-140HA05-HP184	31315863
9,30	10	103	61	49	40	SCD961-0930-2-4-140HA05-HP184	31390399
9,80	10	103	61	49	40	SCD961-0980-2-4-140HA05-HP184	31315864
10,00	10	103	61	49	40	SCD961-1000-2-4-140HA05-HP184	31315865
10,20	12	118	71	56	45	SCD961-1020-2-4-140HA05-HP184	31315866
10,50	12	118	71	56	45	SCD961-1050-2-4-140HA05-HP184	31315867
11,00	12	118	71	56	45	SCD961-1100-2-4-140HA05-HP184	31315868
11,80	12	118	71	56	45	SCD961-1180-2-4-140HA05-HP184	31315869
12,00	12	118	71	56	45	SCD961-1200-2-4-140HA05-HP184	31315870
12,50	14	124	77	60	45	SCD961-1250-2-4-140HA05-HP184	31315871
13,00	14	124	77	60	45	SCD961-1300-2-4-140HA05-HP184	31315872
13,50	14	124	77	60	45	SCD961-1350-2-4-140HA05-HP184	31315873
14,00	14	124	77	60	45	SCD961-1400-2-4-140HA05-HP184	31315874
15,80	16	133	83	63	48	SCD961-1580-2-4-140HA05-HP184	31315875
16,00	16	133	83	63	48	SCD961-1600-2-4-140HA05-HP184	31315876

Dimensions in mm.

For cutting data recommendations, see end of chapter.

Special designs and other coatings available upon request.

Cutting data recommendations for solid carbide drills

Feed and cutting speed

MEGA-Speed-Drill-Steel | SCD621

MMG*	Workpiece material	Strength/hardness [N/mm ²] [HRC]
P	P1.1 Structural, free-cutting, case hardened and heat-treated steels, non-alloy	< 700
	P1.2 Structural, free-cutting, case hardened and heat-treated steels, non-alloy	< 1,200
	P2.1 Nitrided, case hardened and heat-treated steels, alloy	< 900
	P2.2 Nitrided, case hardened and heat-treated steels, alloy	< 1,400
	P3.1 Tool, bearing, spring and high-speed steels**	< 800
	P3.2 Tool, bearing, spring and high-speed steels**	< 1,000
	P3.3 Tool, bearing, spring and high-speed steels**	< 1,500
	P4.1 Stainless steels, ferritic and martensitic	
	P5.1 Cast steel	
P6.1 Stainless cast steel, ferritic and martensitic		
M	M1.1 Stainless steels, austenitic	< 700
	M1.2 Stainless steels, ferritic/austenitic (duplex)	< 1,000
	M2.1 Stainless/heat-resistant cast steel, austenitic	< 700
	M3.1 Stainless cast steel, ferritic/austenitic (duplex)	< 1,000
K	K1.1 Cast iron with lamellar graphite (grey cast iron), GJL	< 300
	K2.1 Cast iron with spheroidal graphite, GJS	< 500
	K2.2 Cast iron with spheroidal graphite, GJS	≤ 800
	K2.3 Cast iron with spheroidal graphite, GJS	> 800
	K3.1 Cast iron with spheroidal graphite, GJV; malleable cast iron, GJM	< 500
	K3.2 Cast iron with spheroidal graphite, GJV; malleable cast iron, GJM	> 500
N	N1.1 Aluminium, non-alloy and alloy < 3 % Si	
	N1.2 Aluminium, alloy ≤ 7 % Si	
	N1.3 Aluminium, alloy > 7-12 % Si	
	N1.4 Aluminium, alloy > 12 % Si	
	N2.1 Copper, non-alloy and low-alloy	< 300
	N2.2 Copper, alloy	> 300
	N2.3 Brass, bronze, gunmetal	< 1,200
S	S1.1 Titanium, titanium alloys	< 400
	S2.1 Titanium, titanium alloys	< 1,200
	S2.2 Titanium, titanium alloys	> 1,200
	S3.1 Nickel, unalloyed and alloyed	< 900
	S3.2 Nickel, unalloyed and alloyed	> 900
	S4.1 High-temperature super alloy Ni, Co and Fe-based	
	S5.1 Tungsten and molybdenum alloys	
H	H1.1 Hardened steel/cast steel	< 44
	H1.2 Hardened steel/cast steel	< 55

* MAPAL machining groups

** If the alloy parts Cr, Mo, Ni, V, W in total > 8% then select the next highest MAPAL machining group.

	Cutting speed v_c [m/min]				Feed f [mm] for drill diameter					
	Internal cooling	External cooling	MQL	Air	4.00	4.50	6.50	9.50	14.00	20.00
	170	155	155		0.13	0.17	0.22	0.29	0.36	0.43
	155	130	130		0.16	0.21	0.28	0.36	0.45	0.54
	170	145	145		0.15	0.20	0.26	0.34	0.43	0.51
	120	100	100		0.13	0.17	0.21	0.27	0.34	0.40
	130	110	110		0.13	0.18	0.23	0.30	0.39	0.46
	100	95	95		0.12	0.15	0.20	0.25	0.32	0.37
	100	75	85		0.10	0.12	0.16	0.20	0.25	0.29
	100	75	85		0.09	0.12	0.16	0.20	0.25	0.30
	170	145	145		0.15	0.20	0.26	0.34	0.43	0.51
	100	75	85		0.09	0.12	0.16	0.20	0.25	0.30
	65	40	40		0.07	0.09	0.12	0.15	0.19	0.23
	60	35	35		0.06	0.08	0.10	0.13	0.17	0.20
	65	40	40		0.07	0.09	0.12	0.15	0.19	0.23
	60	35	35		0.06	0.08	0.10	0.13	0.17	0.20
	150	105	105	105	0.14	0.21	0.28	0.38	0.49	0.59
	200	125	150	150	0.14	0.20	0.27	0.36	0.46	0.54
	125	95	95		0.13	0.18	0.24	0.31	0.39	0.47
	75	50	65		0.09	0.12	0.15	0.19	0.24	0.28
	115	100	100		0.14	0.19	0.25	0.33	0.42	0.50
	100	90	90		0.12	0.16	0.21	0.27	0.34	0.40
	200	130	165		0.11	0.14	0.18	0.24	0.30	0.35
	165	120	130		0.13	0.18	0.24	0.31	0.39	0.47
	155	105	125		0.13	0.18	0.24	0.31	0.39	0.47
	125	85	105		0.13	0.18	0.24	0.31	0.39	0.47
	100	70			0.11	0.14	0.18	0.24	0.30	0.35
	85	65			0.13	0.18	0.24	0.31	0.39	0.47
	140	110	110	85	0.12	0.17	0.24	0.32	0.41	0.49
	40	25			0.09	0.12	0.15	0.20	0.25	0.29
	30	20			0.08	0.10	0.13	0.17	0.21	0.25
	25	15			0.06	0.08	0.11	0.14	0.18	0.21
	20	15			0.04	0.05	0.07	0.09	0.11	0.13
	15	10			0.04	0.05	0.07	0.09	0.11	0.13
	15	10			0.05	0.07	0.09	0.11	0.14	0.17
	15	10			0.04	0.05	0.07	0.09	0.11	0.13
	65	65	65		0.08	0.11	0.14	0.17	0.22	0.26
	25	25	25		0.05	0.07	0.09	0.12	0.15	0.18

The specified cutting values are guide values.

The optimum data for the respective machining task should be determined during the test or machining.

Cutting data recommendations for solid carbide drills

Feed and cutting speed

MEGA-Speed-Drill-Inox | SCD411

MMG*	Workpiece material	Strength/hardness [N/mm ²] [HRC]
P	P1.1 Structural, free-cutting, case hardened and heat-treated steels, non-alloy	< 700
	P1.2 Structural, free-cutting, case hardened and heat-treated steels, non-alloy	< 1,200
	P2.1 Nitrided, case hardened and heat-treated steels, alloy	< 900
	P2.2 Nitrided, case hardened and heat-treated steels, alloy	< 1,400
	P3.1 Tool, bearing, spring and high-speed steels**	< 800
	P3.2 Tool, bearing, spring and high-speed steels**	< 1,000
	P3.3 Tool, bearing, spring and high-speed steels**	< 1,500
	P4.1 Stainless steels, ferritic and martensitic	
	P5.1 Cast steel	
	P6.1 Stainless cast steel, ferritic and martensitic	
M	M1.1 Stainless steels, austenitic	< 700
	M1.2 Stainless steels, ferritic/austenitic (duplex)	< 1,000
	M2.1 Stainless/heat-resistant cast steel, austenitic	< 700
	M3.1 Stainless cast steel, ferritic/austenitic (duplex)	< 1,000
S	S1.1 Titanium, titanium alloys	< 400
	S2.1 Titanium, titanium alloys	< 1,200
	S2.2 Titanium, titanium alloys	> 1,200
	S3.1 Nickel, unalloyed and alloyed	< 900
	S3.2 Nickel, unalloyed and alloyed	> 900
	S4.1 High-temperature super alloy Ni, Co and Fe-based	
	S5.1 Tungsten and molybdenum alloys	

MEGA-Speed-Drill-Titan | SCD961

MMG*	Workpiece material	Strength/hardness [N/mm ²] [HRC]
M	M1.1 Stainless steels, austenitic	< 700
	M1.2 Stainless steels, ferritic/austenitic (duplex)	< 1,000
	M2.1 Stainless/heat-resistant cast steel, austenitic	< 700
	M3.1 Stainless cast steel, ferritic/austenitic (duplex)	< 1,000
S	S1.1 Titanium, titanium alloys	< 400
	S2.1 Titanium, titanium alloys	< 1,200
	S2.2 Titanium, titanium alloys	> 1,200
	S3.1 Nickel, unalloyed and alloyed	< 900
	S3.2 Nickel, unalloyed and alloyed	> 900
	S4.1 High-temperature super alloy Ni, Co and Fe-based	
	S5.1 Tungsten and molybdenum alloys	

* MAPAL machining groups

** If the alloy parts Cr, Mo, Ni, V, W in total > 8% then select the next highest MAPAL machining group.

	Cutting speed v_c [m/min]				Feed f [mm] for drill diameter					
	Internal cooling	External cooling	MQL	Air	3.00	4.50	6.50	9.50	14.00	20.00
	150	135	135		0.09	0.12	0.15	0.20	0.25	0.30
	135	115	115		0.11	0.15	0.19	0.25	0.31	0.37
	150	130	130		0.10	0.14	0.18	0.23	0.30	0.35
	105	90	90		0.09	0.12	0.15	0.19	0.24	0.28
	115	100	100		0.09	0.12	0.16	0.21	0.27	0.32
	90	85	85		0.08	0.10	0.13	0.17	0.22	0.26
	90	70	75		0.07	0.09	0.11	0.14	0.17	0.20
	70	55	60		0.06	0.08	0.11	0.14	0.18	0.21
	150	130	130		0.10	0.14	0.18	0.23	0.30	0.35
	70	55	60		0.06	0.08	0.11	0.14	0.18	0.21
	80	50	50		0.08	0.10	0.13	0.17	0.22	0.26
	75	45	45		0.07	0.09	0.11	0.15	0.19	0.22
	80	50	50		0.08	0.10	0.13	0.17	0.22	0.26
	75	45	45		0.07	0.09	0.11	0.15	0.19	0.22
	48	30			0.07	0.10	0.13	0.17	0.21	0.25
	36	24			0.06	0.08	0.11	0.14	0.18	0.21
	30	18			0.05	0.07	0.09	0.12	0.15	0.18
	24	18			0.04	0.06	0.07	0.10	0.12	0.14
	18	12			0.05	0.07	0.09	0.12	0.15	0.18
	18	12			0.04	0.06	0.07	0.10	0.12	0.14
	18	12			0.04	0.06	0.07	0.10	0.12	0.14
	18	12			0.04	0.06	0.07	0.10	0.12	0.14

	Cutting speed v_c [m/min]				Feed f [mm] for drill diameter					
	Internal cooling	External cooling	MQL	Air	3.00	4.50	6.50	9.50	14.00	20.00
	65	40	40		0.06	0.08	0.11	0.14	0.18	0.21
	60	35	35		0.05	0.07	0.09	0.12	0.15	0.18
	65	40	40		0.06	0.08	0.11	0.14	0.18	0.21
	60	35	35		0.05	0.07	0.09	0.12	0.15	0.18
	50	31			0.09	0.12	0.16	0.21	0.26	0.31
	38	25			0.08	0.11	0.14	0.18	0.23	0.27
	31	19			0.07	0.09	0.12	0.15	0.19	0.22
	22	17			0.04	0.06	0.07	0.10	0.12	0.14
	17	11			0.04	0.06	0.07	0.09	0.12	0.14
	17	11			0.05	0.07	0.09	0.12	0.15	0.18
	17	11			0.04	0.06	0.07	0.10	0.12	0.14

The specified cutting values are guide values.

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