

Product data sheet



Materialnumber	9004760043000
Diameter	4.300 mm
Diameter Range	4.300 - 31.000 mm
Countersink Angle	90 °
Smallest diameter of tapping size hole	1.800 mm
Surface	bright
Norm	DIN 335

Characteristics

Surface	bright
Norm	DIN 335
Diameter Range	4.300 - 31.000 mm
Diameter	4.300 mm
Full Length	40.000 mm
Diameter Shank	4.000 mm
Length cutting edge	0.000 mm
Diameter Break Over	1.300 mm
Countersink Angle	90 °
Pointed Grinding	relieved cone
No. of cutting edges	3
Cutting Direction	right-hand

Hints

- i** CAD data and further information are available after registration in the shop.
- A** All information is indicative. The actual achievable cutting speeds and feeds depend on the respective processing conditions. We recommend appropriate cutting tests.



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Cutting data

Subgroup	Strength/Hardness	Cutting speed	Feed	Drive	Feed Rate
Alloyed case hardened steels	1,000 N/mm ²	17 m/min	0.100 mm/rev.	1,258 rev./min	126 mm/min
Alloyed case hardened steels	1,400 N/mm ²	11 m/min	0.070 mm/rev.	814 rev./min	57 mm/min
Alloyed heat-treatable steels	1,000 N/mm ²	17 m/min	0.100 mm/rev.	1,258 rev./min	126 mm/min
Alloyed heat-treatable steels	1,400 N/mm ²	13 m/min	0.070 mm/rev.	962 rev./min	67 mm/min
Common structural steels	500 N/mm ²	35 m/min	0.100 mm/rev.	2,591 rev./min	259 mm/min
Common structural steels	1,000 N/mm ²	33 m/min	0.070 mm/rev.	2,443 rev./min	171 mm/min
Free-cutting steels	850 N/mm ²	35 m/min	0.100 mm/rev.	2,591 rev./min	259 mm/min
Free-cutting steels	1,000 N/mm ²	33 m/min	0.070 mm/rev.	2,443 rev./min	171 mm/min
High speed steels	1,400 N/mm ²	17 m/min	0.040 mm/rev.	1,258 rev./min	50 mm/min
Nitriding Steels	1,000 N/mm ²	17 m/min	0.070 mm/rev.	1,258 rev./min	88 mm/min
Nitriding Steels	1,400 N/mm ²	13 m/min	0.040 mm/rev.	962 rev./min	38 mm/min
Spring Steels	350 HB	11 m/min	0.040 mm/rev.	814 rev./min	33 mm/min
Stainless steels, austenitic	1,100 N/mm ²	13 m/min	0.040 mm/rev.	962 rev./min	38 mm/min
Stainless steels, martensitic	1,200 N/mm ²	15 m/min	0.040 mm/rev.	1,110 rev./min	44 mm/min
Stainless steels, sulphured	900 N/mm ²	18 m/min	0.070 mm/rev.	1,332 rev./min	93 mm/min
Tool Steels	850 N/mm ²	19 m/min	0.070 mm/rev.	1,406 rev./min	98 mm/min
Tool Steels	1,400 N/mm ²	17 m/min	0.040 mm/rev.	1,258 rev./min	50 mm/min
Unalloyed heat-treatable steels	700 N/mm ²	35 m/min	0.100 mm/rev.	2,591 rev./min	259 mm/min
Unalloyed heat-treatable steels	850 N/mm ²	33 m/min	0.100 mm/rev.	2,443 rev./min	244 mm/min
Unalloyed heat-treatable steels	1,000 N/mm ²	22 m/min	0.070 mm/rev.	1,629 rev./min	114 mm/min
Unalloyed case hardened steels	850 N/mm ²	28 m/min	0.100 mm/rev.	2,073 rev./min	207 mm/min
Cast Iron	240 HB	28 m/min	0.100 mm/rev.	2,073 rev./min	207 mm/min
Cast Iron	350 HB	18 m/min	0.100 mm/rev.	1,332 rev./min	133 mm/min
Chilled cast iron	350 HB	9 m/min	0.040 mm/rev.	666 rev./min	27 mm/min
Spheroidal graphite iron and malleable cast iron	240 HB	24 m/min	0.100 mm/rev.	1,777 rev./min	178 mm/min
Spheroidal graphite iron and malleable cast iron	350 HB	22 m/min	0.100 mm/rev.	1,629 rev./min	163 mm/min
cast materials GGV	300 HB	16 m/min	0.100 mm/rev.	1,184 rev./min	118 mm/min
Brass long-chipping	600 N/mm ²	55 m/min	0.140 mm/rev.	4,071 rev./min	570 mm/min
Brass short-chipping	600 N/mm ²	88 m/min	0.140 mm/rev.	6,514 rev./min	912 mm/min



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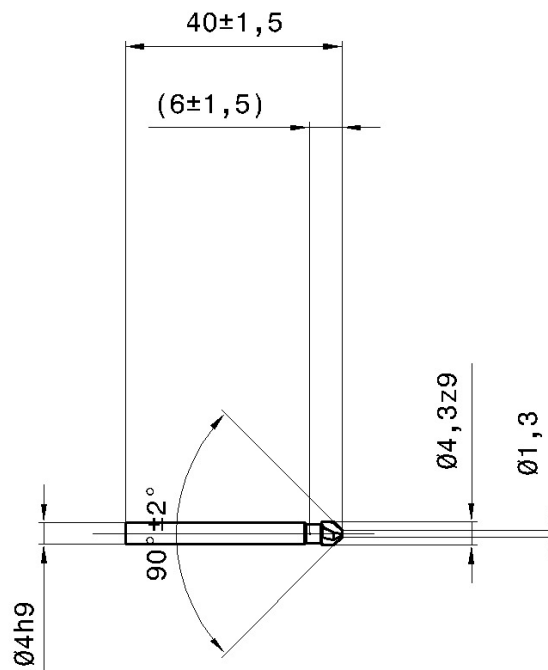
Subgroup	Strength/Hardness	Cutting speed	Feed	Drive	Feed Rate
Bronze long-chipping	850 N/mm ²	26 m/min	0.140 mm/rev.	1,925 rev./min	270 mm/min
Bronze long-chipping	1,000 N/mm ²	22 m/min	0.140 mm/rev.	1,629 rev./min	228 mm/min
Bronze short-chipping	600 N/mm ²	33 m/min	0.140 mm/rev.	2,443 rev./min	342 mm/min
Bronze short-chipping	850 N/mm ²	29 m/min	0.140 mm/rev.	2,147 rev./min	301 mm/min
Copper, low-alloyed	500 N/mm ²	66 m/min	0.140 mm/rev.	4,886 rev./min	684 mm/min
Al cast alloys	10 %	44 m/min	0.100 mm/rev.	3,257 rev./min	326 mm/min
Al cast alloys	20 %	33 m/min	0.100 mm/rev.	2,443 rev./min	244 mm/min
Al wrought alloys	650 N/mm ²	77 m/min	0.140 mm/rev.	5,700 rev./min	798 mm/min
Aluminum and Al-alloys	400 N/mm ²	99 m/min	0.140 mm/rev.	7,329 rev./min	1,026 mm/min
Magnesium Alloys	450 N/mm ²	110 m/min	0.140 mm/rev.	8,143 rev./min	1,140 mm/min
Ti and Ti-alloys	850 N/mm ²	17 m/min	0.070 mm/rev.	1,258 rev./min	88 mm/min
Ti and Ti-alloys	1,400 N/mm ²	11 m/min	0.040 mm/rev.	814 rev./min	33 mm/min
Duroplastics	150 N/mm ²	33 m/min	0.140 mm/rev.	2,443 rev./min	342 mm/min
Thermoplastics	100 N/mm ²	44 m/min	0.140 mm/rev.	3,257 rev./min	456 mm/min
Special Alloys	1,600 N/mm ²	9 m/min	0.040 mm/rev.	666 rev./min	27 mm/min



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Technical drawing



GÜHRING		<p>Diese Zeichnung ist Eigentum der Fa. Gühring KG und darf nicht an Dritte weitergegeben werden. Bearbeitungs- und Zeichnungsprüfung (auf Richtigkeit und Vollständigkeit) obliegen dem Kunden.</p>
Artikel-Nr.	476 4,300	
Beschreibung	KEGELSENKER	
Schneidstoff	HSS	
Beschichtung	BLANK	
Kuehlung	-	
Schneiden	3	



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