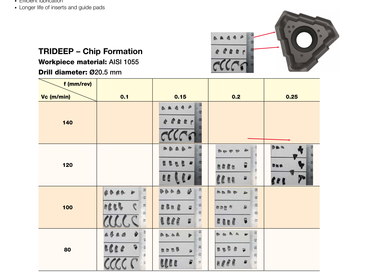
GD-DH

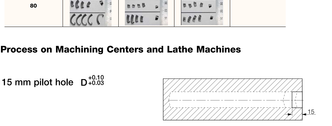
Gundrills for machining centers and gundrill machines, carrying the TOGT inserts, feature 3 chip splitting cutting edges and a wiper for high hole surface quality and high feed. The drills are available in the diameter range of 14 to 28 mm and in 10, 15 and 25 drilling length to diameter ratios.

Longer gundrills in the diameter range of 14 to 28 mm diameters can be supplied with up to 2400 mm length on request.

TRIDEEP Spare Parts List

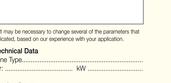
Spare Parts							
Diameter Range	Insert	Insert Clamping Screw	Key	lbf*in	Solid Carbide Guide Pad	Guide Pad Clamping Screw	Key
.551-.629	TOGT 070304.07-DF	SR 14-060/5 M2.5X2.45	T-6/5	10.8	GPS-05-19-060.00	SR 164.508 M2.2X0.45	T-7/5
.630-.709	TOGT 080305.07-DF		T-6/5	10.6	GPS-05-19-070.00		
.710-.787	TOGT 090305.07-DF		T-6/5	10.6	GPS-06-20-080.00		
.788-.826	TOGT 100305.07-DF	SR 34-508 M3X0.5	T-9/5	17.7	GPS-06-20-085.00		
.827-.866	TOGT 100305.07-DF				GPS-06-20-100.00		
.867-.984	TOGT 110405.07-DF	SR 14-07/15 M3.5X0.6	T-15/5	42.5	GPS-06-20-100.00		
.985-1.101	TOGT 120405.07-DF	SR 14-508 M4X0.7	T-15/5	42.5	GPS-06-20-120.00		
1.102-1.180	TOGT 130408.07-DF	SR 16-212/L10 M3X0.8	T20/5	88.5	GPS-06-20-120.00	SR 34-508 M2.2X0.45	T-7/5
1.181-1.259	TOGT 130408.07-DF				GPS-07-20-120.00	SR 1120/17/0.4	T-9/5



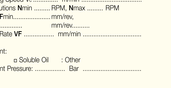


Drilling Process on Machining Centers and Lathe Machines

1. Drill a 15 mm pilot hole $D^{+0.10}_{+0.03}$

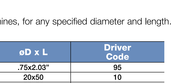


2. Set the TRIDEEP drill into the pilot hole (10 mm depth).
Vc=5-10 m/min
f=0.5-1.0 mm/rev



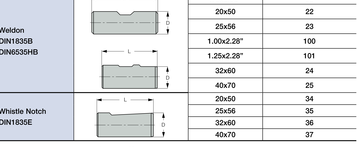
3. Initial cutting at a 25 mm DOC (80% feed rate), verify activated coolant (Vc=100%).

4. In case of through hole, drill the full hole to a depth of +5 mm.



5. Retract with slow rotation (5-10 m/min).

Inquiry Form



1. Tool
Quantity.....
Nominal diameter and tolerance .....
Please fill in dimensions on the sketch below.

Driver
Driver: for standard drivers please use codes from pages 16-17.....
▫ Code No.
▫ Special, please attach sketch and specifications.

2. Workpiece
(If possible, please attach a drawing)
2.1 Material
Material description (DIN material number or any other standard):
.....
Hardness and Properties:
.....

2.2 Hole Type
▫ Blind Hole ▫ Drilling into Pre-hole ▫ Angled Entry
▫ Drilling into Solid ▫ Boring ▫ Angled Exit
Drilling Depth mm Hole Tolerance

2.3 Application:
Workpiece: Stationary : Rotating
Tool : Stationary : Rotating

3. Machine

Sketch of drilling application

Note: It may be necessary to change several of the parameters that you indicated, based on our experience with your application.

3.1 Technical Data
Machine Type.....
Power: ..... kW .....

3.2 Cutting Data:
Cutting Speed Vc ..... m/min .....
Revolutions Nmin ..... RPM, Nmax ..... RPM
Feed Fmin..... mm/rev.
Fmax..... mm/rev.....
Feed Rate VF ..... mm/min .....

Coolant:
▫ Oil ▫ Soluble Oil : Other
Coolant Pressure: ..... Bar .....

Specially Tailored TRIDEEP Code Key

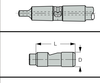
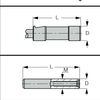
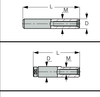
GD - DH ##.## - #### - ##

Dia. | Drilling length | Shank Type

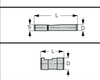
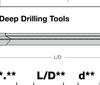
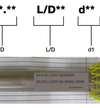
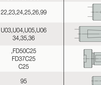
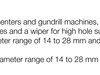
Standard Gundrill Drivers for Machining Centers, Lathes, etc.

Drivers

Drivers are available for dedicated and CNC machines, for any specified diameter and length. Below are the driver codes and technical data.

Driver Type	Drawing	oD x L	Driver Code
Cylindrical DIN1835A DIN6535HA		.75x2.03"	95
		20x50	10
		25x56	11
		1.00x2.28"	96
		1.25x2.28"	97
		32x60	12
		40x70	13
Weldon DIN1835B DIN6535HB		.75x2.03"	99
		20x50	22
		25x56	23
		1.00x2.28"	100
		1.25x2.28"	101
		32x60	24
		40x70	25
Whistle Notch DIN1835E		20x50	34
		25x56	35
		32x60	36
		40x70	37

Standard Drivers for Gundrill Machines

Driver Type	Drawing	oD x L	Driver Code
DIN228AK		CM1	45
		CM2	46
		CM3	47
		CM4	48
DIN228BK		CM1	49
		CM2	50
		CM3	51
		CM4	52
Central Clamping Surface 15°		.750x2.75"	56
		25x70	57
		1.00x2.75"	58
		1.25x2.75"	59
		1.50x2.75"	60
Frontal Clamping Surface 15°		16x50	61
Cylindrical with Thread		25x100 M16x1.5	66
		36x120 M24x1.5	67
VDI Design		25x112 M16x1.5	70
		36x135 M24x1.5	71
Central Clamping Hexagonal		25x70	72
		32x70	73
Central Clamping Tapered		.75x2.75"	76
		20x70	77
Frontal Clamping Surface 2°		1.00x2.75"	80
		1.00x3.94"	81
		1.25x2.75"	82
		1.25x3.94"	83
		1.50x2.75"	84
		1.50x3.94"	85
Trapezoidal Thread		28x126 Tr 28x2	88
		36x162 Tr 36x2	89
Spraymist Driver		25x50	91
		35x60	92

Universal Marking for Deep Drilling Tools

Driver Type

M	machining	M20,M25,M32,M40 U19,05,U25,4,U31,75 U38,1,FM32,7MAG FU31,75,FU38,1	
WD	weldon	22,23,24,25,26,99	
WN	whistle notch	U03,U04,U05,U06 34,35,36	
F	flat	FD50C25 FD31C25 C25	
C	cylindrical	95	
CCL	cylindrical clamping	57	

Example:
Metric: D14.00 L/D15 d25X56M
Inch: D0.551 L/D15 d0.9842 20SM
****