



Screwdriving Technology

Automation

Air Motors

Air Tools



## Top-Speed-Grinder

Grinding and milling with an actual speed of 100.000 rpm



- optimum surface removal and surface quality by use of speed-consistent gear drive
- high repeatability by gear motor without vanes
- oilfree operation without loss of power is possible
- ergonomic

High speed midjet grinders, especially when used with highgrade steel inserts at relative high speed, are used for grinding, for deburring and also when treating non-metallic materials.

### Optimum surface removal and surface quality by use of speed-consistent gear drive

This ergonomic miniature grinder allows easy and optimum access on hard-to-reach areas. The high run-out accuracy of the collet assures a high durability, an optimum material removal, and a high surface quality during grinding or milling. This grinder operates with an extreme low vibration.

### High repeatability by gear motor without vanes

The robust construction assures a high longevity of your tool - even when used in continued operations.

### Oilfree operation without loss of power is possible

#### Best ergonomic shape:

- Housing grip
- Housing material
- Noise level
- Vibrations
- Handling

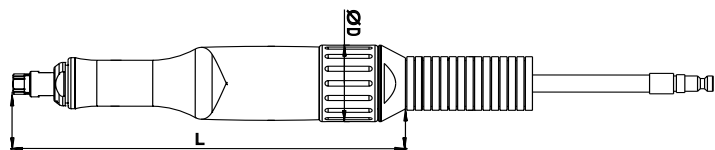


GDS 009-1000BY



# SPECIFICATIONS - TOP-SPEED-GRINDER

## Design



### GDS 009 - 1000 BY

- Y = Twist valve
- B = Basic design
- Speed x 100 [min<sup>-1</sup>]; 1000= 100 000 min<sup>-1</sup>
- Power x 10 [W]; 009 = 90 W
- Grinder, straight

Twist Valve	Typ	GDS 009-1000BY	
Rear Air Exhaust	Part No.	3146441E	
Speed (no load)	min <sup>-1</sup> (rpm)	100 000	
Max. power output	W (hp)	90	(0.09)
Air consumption (no load)	m <sup>3</sup> /min (cfm)	0,2	(7.06)
I.D. of air inlet hose	mm (in)	4	(.16)
Max. Ø of grinding tip	mm (in)	5	(.20)
Max. Ø of grinding insert	mm (in)	3	(.12)
Weight of tool	kg (lbs)	0,3	(.66)
Length of supply/exhaust hose	m (in)	2/0,4	(78.7x15.7)
Dimensions Ø DxL	mm (in)	Ø 31x158	(1.22x6.22)

Specifications at 90 psi (6,3 bar)

Standard Equipment:	Part Number
Collet Ø 3 mm	314406
Spanner 9 mm	800401
Ring spanner 7 mm	821845
Nozzle	801565

Optional Accessories:	Part Number
Collet Ø 1,0 mm	315087
Collet Ø 1,1 mm	310003
Collet Ø 1,2 mm	314921
Collet Ø 1,4 mm	315157
Collet Ø 1,6 mm	310033
Collet Ø 2,0 mm	314693
Collet Ø 2,35 mm (3/32")	314694
Collet Ø 2,5 mm	314956
Collet Ø 3,175 mm (1/8")	314407
Collet Ø 3,25 mm	314946

Grinding tip for steel- and cast iron-shaft Ø 3 mm		
	Ø 4 mm, length 8 mm	804916
	Ø 5 mm, length 10 mm	804917
	Ø 5 mm	804975
	Ø 3 mm, length 6 mm	804976
	Ø 5 mm, length 10 mm	804977

Grinding insert for steel- and cast iron-shaft Ø 3 mm			
	Head-Ø mm	Length mm	
	2 (5/64")	6 (1/4")	803061
	3 (1/8")	12 (15/32")	803062
	3 (1/8")	12 (15/32")	803076
	2 (5/64")	6 (1/4")	803084
	3 (1/8")	12 (15/32")	803085
	3 (1/8")	3 (1/8")	803097
	3 (1/8")	12 (15/32")	803115
	3 (1/8")	12 (15/32")	803125
	3 (1/8")	8 (5/16")	803136
	3 (1/8")	12 (15/32")	803145

Grinding insert for all materials-shaft Ø 3 mm	
	3 mm, length 14 mm
	804989