

GRINDING AND POLISHING MACHINES

Versatile graver and tool grinding machine for various tool geometries

Facts that impress in terms of quality, performance and price

- ▶ Universally deployable thanks to versatile pivoting and adjustment options
- ▶ Many pivoting and adjustment options for creating gravers (cylindrical, centric, tapered)
- ▶ For grinding stamps, twist drills, electrodes, lathe tools, centres, etc.
- ▶ High level of precision thanks to rugged machine body and vibration-free driven precision grinding spindle
- ▶ Easy handling and operation
- ▶ Indexing head with 24 latching positions
- ▶ Adjustable dressing device



YouTube

Follow this for the video presentation of our drill bit grinding machine GH 20T
Subscribe to our YouTube channel, to avoid missing any of the new videos:
www.youtube.com/user/OptimumMaschinen

Model	GH20T
Article no.	3100125
Technical data	
Electrical connection	400 V/3 Ph ~50Hz
Motor output	370 W
Speeds	
Grinding disc speed, diamond	5 000 rpm
Grinding speed	max. 35 m/s
Motor speed	2 750 rpm
Travel	
Tool holder travel	140 mm
Tool holder fine adjustment	18 mm
Longitudinal fine adjustment	6 mm
Adjustable angle	
vertical/rear side	0° - 40°
horizontal/conical grinding	0° - 180°
Negative angles	0° - 52°
Latching setting angle of rotation	22* x 15° 180°
Collet chuck holder	
Clamping range	Ø 1- 12 mm
Clamping jaw type	385E (5C), DIN 6341
Dimensions	
Length x width x height	350 x 450 x 340 mm
Weight	45 kg

* Two latching positions occupied for sharpening drill bits

Replacement grinding disc	Grain size	Applications	Article no.
Corundum	K 80	Fast-working steel (HSS)	3100128
Diamond	K 150	Carbide	3100129

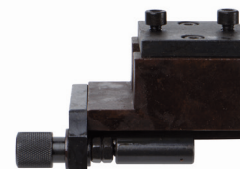
Comprehensive scope of delivery



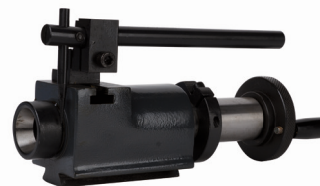
- › Spring collets 385E (5C) DIN 6341
Ø 37.5 mm; L=89 mm; 20°
- › Sizes Ø 4/6/8/10/12 mm



- › Corundum cup grinding disc
Ø 100 x 51 x Ø 20 mm
- › Diamond cup grinding disc
Ø 100 x 51 x Ø 20 mm
(pre-assembled in as-delivered condition)



- › Device for sharpening lathe tools



- › Device for sharpening end mills



- › Device for sharpening twist drill bits



- › Operating tool



The handy drill bit grinding device - ideal for grinding twist drill bits

Facts that impress in terms of quality, performance and price

- ▶ Easy to operate for precise and inexpensive grinding of twist drill bits with two cutting edges
- ▶ Drill bit grinding without prior experience - clean, fast and precise
- ▶ Easy to transport
- ▶ Diamond grinding stone with long service life for the perfect grind
- ▶ Fully equipped with ER spring collets in the machine interior



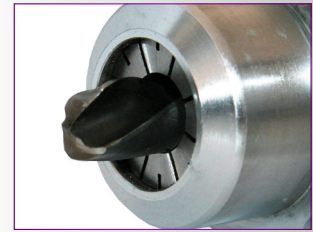
Fig.: GH10T



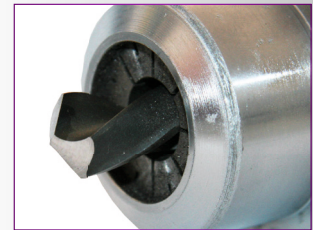
Follow this for the video presentation of our drill bit grinding machine GH 15T
Subscribe to our YouTube channel, to avoid missing any of the new videos:
www.youtube.com/user/OptimumMaschinen

Model	GH10T	GH 15T
Article no.	3100110	3100115
Technical specifications		
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz
Motor output	180 W	450 W
Technical specifications		
Grinding wheel	Steel disc, coated with Cubic crystallineboron nitride	
Collet chuck holder	ER20 DIN 6499	ER20 / ER 40 DIN 6499
Speed (continuously variable)	5 300 rpm	5 000 rpm
Tip sharpening angle	900 - 1350	900 - 1450
Grinding capacity drill bits	Ø 3 mm to Ø 13 mm	Ø 3 mm to Ø 30 mm
Dimensions		
Length x width x height	310 x 180 x 190 mm	450 x 240 x 270 mm
Weight	9.5 kg	33 kg

Drill bit ...



> ... with blunt cutting edges



> ... ground and tip sharpened

Comprehensive scope of delivery with complete assortment of spring collets



GH10T

- > 11 pcs. spring collets ER 20 sizes Ø 2 to Ø 13 mm



GH 15T

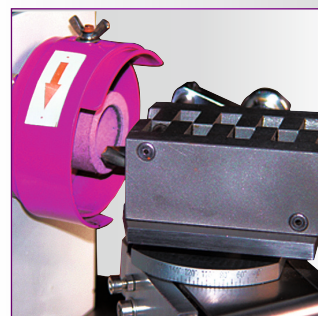
- > 6 pcs. spring collets ER 20 sizes Ø 3 to Ø 8 mm
- > 22 pcs. spring collets ER 40 sizes Ø 8 to Ø 30 mm

Accessories	Article no.
for GH10T	
Replacement grinding disc Crystalline cubic boron nitride Grain size: 170 - 200 Applications: High-speed steel (HSS)	3100126
Replacement grinding disc Diamond Grain size: 150 Applications: carbides	3100131
for GH15T	
Replacement grinding disc Crystalline cubic boron nitride Grain size: 170 - 200 Applications: High-speed steel (HSS)	3100127
Replacement grinding disc Diamond Grain size: 150 Applications: carbides	3100132

Drill bit grinding device with continuous speed control and precise repetition accuracy

Facts that impress in terms of quality, performance and price

- ▶ Solid cast baseplate with high deadweight for low-vibration action
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Precise repetition accuracy thanks to prism-guided feed
- ▶ Variable speed control option for different materials
- ▶ Angle adjustment possible for all twist drill types
- ▶ Prism holders for precise centring of the workpiece
- ▶ Rubber cap for protection against dust and water
- ▶ Coolant tray and grinding cup included as standard in scope of delivery

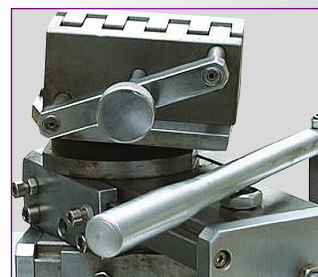


Large grinding area

Twist drills from Ø 3 to Ø 20 mm

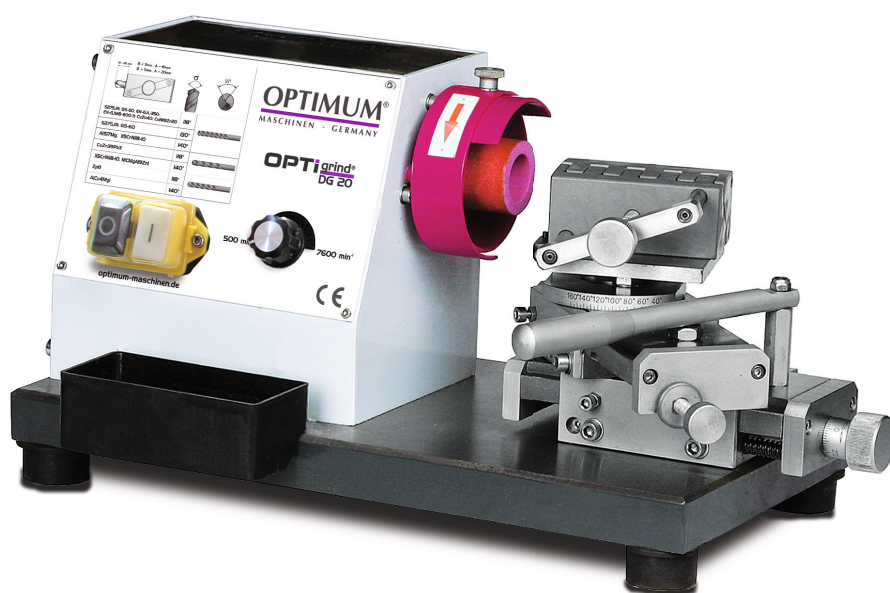
Grinding cup

- › Self dressing
- › No dressing required



Prism support

- › Sturdy
- › Precise centring and secure hold

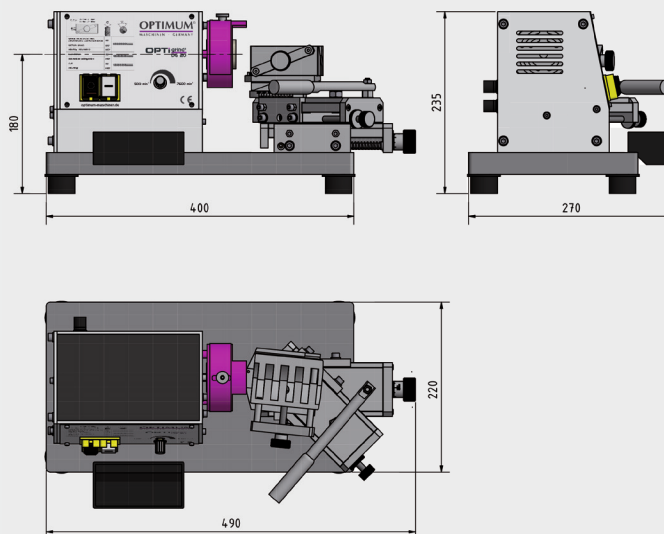


Scope of supply

- › Coolant tray
- › Cup grinding disc, red

Model	DG 20
Article no.	3100020
Technical specifications	
Electrical connection	230 V/1 Ph ~50 Hz
Motor output	600 W
Technical specifications	
Speed (continuously variable)	1 400 - 7 600 rpm
Grinding speed	16 m/s
Grinding capacity drill bits	Ø 3 mm to Ø 20 mm
Tip sharpening angle	90° - 150°
Cup grinding disc	
External Ø	40 mm
Inner Ø	26 mm
Thread Ø	M10
Depth	22 mm
Dimensions	
Length x width x height	490 x 270 x 235 mm
Weight	22.5 kg

Dimensions



Accessories

Accessories	Article no.
Cup grinding disc	3107120
Cup grinding disc, green for carbides	3107121