

The handy drill bit grinding device from quantum. For easy regrounding of twist drills from Ø 3 mm to Ø 13 mm

Facts that impress in terms of quality, performance and price

- ▶ Easy to operate for inexpensive grinding of twist drill bits with two cutting edges
- ▶ Drill bit grinding without prior experience - clean, fast and precise
- ▶ Easy to transport
- ▶ Easy replacement of the grinding wheel
- ▶ Positively-driven sharpening action, thus easy to operate
- ▶ Automatic grinding of the tip geometry thanks to cam
- ▶ Robust plastic housing with anti-slip base
- ▶ Diamond grinding stone with long service life for the perfect grind

DRILL BIT GRINDERS



Fig.: GQ-D13

Scope of delivery

- › Diamond grinding wheel
- › Collet chuck holder

Model	GQ-D13
Article no.	3140020
Technical data	
Electrical connection	230 V/1 Ph ~50 Hz
Motor power	80 W
Grinding wheel dimensions	Ø 78 mm
Grinding capacity of drill bits	Ø 3 mm to Ø 13 mm
Infinitely variable speed	4200 min ⁻¹
Dimensions Length x width x height approx.	220 x 200 x 160 mm
Net weight approx.	2.5 kg

Applications

Three steps to a ground drill bit



Adjust the drill bit

- › Twist drills are aligned in projection length and at the correct angle



Sharpening the drill bit

- › Through slight rotation from stop to stop



Tipping the drill bit

- › Again through slight rotation from stop to stop

Accessories

Grinding disc	Article no.
Replacement grinding wheel	3140021
Crystalline cubic boron nitride	
Grain size: 170 - 200	
Field of application: High-speed steel (HSS)	



The handy drill bit grinder. Ideal for grinding twist drills

Facts that impress in terms of quality, performance and price

- ▶ Easy to operate for inexpensive grinding of twist drill bits with two cutting edges
- ▶ Drill bit grinding without prior experience - clean, fast and precise
- ▶ Easy to transport
- ▶ Grinding stone with long service life for the perfect grind on HSS (high-speed steel) drill bits
- ▶ Diamond grinding stone available as option for HM drill bits from accessories programme.
- ▶ Fully equipped with ER collets in the machine interior



Scan QR code

Information & Video

Drill bit



› ... with blunt cutting edges



› ..fast and easy regrinding

Comprehensive scope of delivery

with complete assortment of collets



Fig.: GH 10T



Fig.: GH 15T



GH 10T

› 11 pcs. collets ER 20 sizes Ø 2 to Ø 13 mm



GH 15T

› 6 pcs. collets ER 20 sizes Ø 3 to Ø 8 mm
› 22 pcs. collets ER 40 sizes Ø 8 to Ø 30 mm

Accessories

Model	GH 10T	GH 15T
Article no.	3100110	3100115
Technical data		
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz
Motor power	180 W	450 W
Grinding disc material	Steel disc, coated with cubic crystalline boron nitride	
Collet chuck holder	ER20 DIN 6499	ER20 and ER 40 DIN 6499
Infinitely variable speed	5300 min ⁻¹	5000 min ⁻¹
Tip sharpening angle	90° - 135°	90° - 145°
Grinding capacity of drill bits	Ø 2 mm to Ø 13 mm	Ø 3 mm to Ø 30 mm
Dimensions L x W x H approx.	310 x 180 x 190 mm	450 x 240 x 270 mm
Net weight approx.	9.5 kg	33 kg

for GH10T	Article no.
Replacement grinding wheel Crystalline cubic boron nitride Grain size: 170 - 200 Field of application: High-speed steel (HSS)	3100126
Diamond replacement grinding disc Grain size: 150 Field of application: Carbide	3100131
for GH15T	
Replacement grinding wheel Crystalline cubic boron nitride Grain size: 170 - 200 Field of application: High-speed steel (HSS)	3100127
Diamond replacement grinding disc Grain size: 150 Field of application: Carbide	3100132

DRILL BIT GRINDERS

DRILLING

CORE DRILLING

THREAD TAPPING

MILLING ACCESSORIES

TURNING

MEASURING

SAWS

GRINDING

POLISHING

SHEET METAL WORKING

LIGHTING

COOLING

Versatile burins and tools grinding machine for various tool geometries

Facts that impress in terms of quality, performance and price

- ▶ Many swivel and adjustment options suitable for producing engraving tools (cylindrical, centric, conical)
- ▶ For grinding stamps drills, electrodes, lathe tools, centring tips, etc.
- ▶ High precision thanks to robust machine body and vibration-free driven precision grinding spindle
- ▶ Easy handling and operation
- ▶ Indexing head with 24 latching positions
- ▶ Adjustable dressing device

GRINDING MACHINE FOR
BURINS AND TOOLS



Supplied without
CEKON plug

Model	GH 20T
Article no.	3100125
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	370 W
Grinding wheel speed, diamond	5000 min ⁻¹
Max. grinding speed	35 m/s
Motor speed	2750 min ⁻¹
Tool holder travel	140 mm
Tool holder fine adjustment	18 mm
Longitudinal fine adjustment	6 mm
vertical/rear side	0° - 40°
horizontal/conical grinding	0° - 180°
Negative angles	0° - 52°
Latching setting angle of rotation	22° x 15° 180°
Clamping range	Ø 1 - 12 mm
Clamping jaw type	385E (5C), DIN 6341
Length x width x height approx.	350 x 450 x 340 mm
Net weight approx.	45 kg

* Two latching positions occupied for sharpening drill bits

Accessories

Replacement grinding wheel	Grain size	Area of application	Article no.
Corundum	K 80	High-speed steel (HSS)	3100128
Diamond	K 150	Carbide	3100129



Fig.: Corundum

Fig.: Diamond

Arguments,...



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



- › Corundum cup grinding wheel Ø 100 x 51 x Ø 20 mm
- › Diamond Cup grinding wheel Ø 100 x 51 x Ø 20 mm (already fitted on delivery)



- › Device for sharpening lathe tools



- › Device for sharpening end mills



- › Device for sharpening twist drill bits



- › Operating tool

GRINDING MACHINES AND VARIO DRIVES

GB 120SD | Art. no.: 3101200

Belt grinder

Possible applications on
smallest space



GU 30 | Art. no.: 3101530

Bench grinders

Long service life and
smooth running



Belt grinding machine offers the user a maximum of application possibilities on a minimal footprint

Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Sturdy and stable machine body
- ▶ Tray for safety glasses



Dimensions

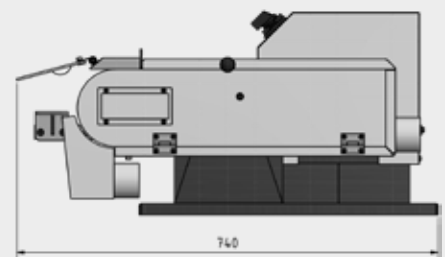
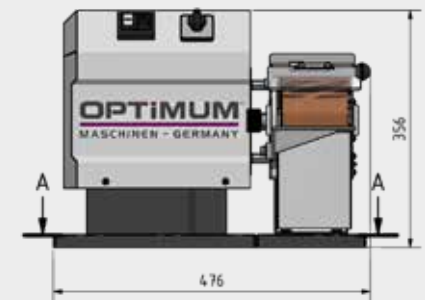


Fig. shows sample application

Accessories

Machine base	Article no.
GU 4	3107119
› Without extraction unit	
GU 5	3107114
› Cyclone extraction	
› Noise-insulated	
Suction pipes (2 pcs.)	3107116
› variable length 300 - 1000 mm	
Mounting plate	3107116
› Absolutely essential when mounting the GB 100S belt grinder on the GU 4 / 4H machine base	

For information on the bases, see page 314

Grinding belt	PQ	Article no.
Grain size 40	5 pcs.	3357637
Grain size 60	5 pcs.	3357638
Grain size 80	5 pcs.	3357639
Grain size 120	5 pcs.	3357640

Scope of delivery

- › Grinding belt

Model	GB 100S
Article no.	3101660
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	1.3 / 1.8 kW
Grinding belt dimensions (W x L)	100 x 1190 mm
Speed	1450/ 2850 min ⁻¹
Circumferential speed of grinding belt	19.4 m/s at 2850 min ⁻¹
Usable contact surface for grinding at top on grinding belt	345 x 100 mm
Nominal width of suction connection	Ø 60 mm
Dimensions Length x width x height approx.	740 x 476 x 356 mm
Net weight approx.	47 kg

Belt grinder offers users a wide range of possible applications

Facts that impress in terms of quality, performance and price

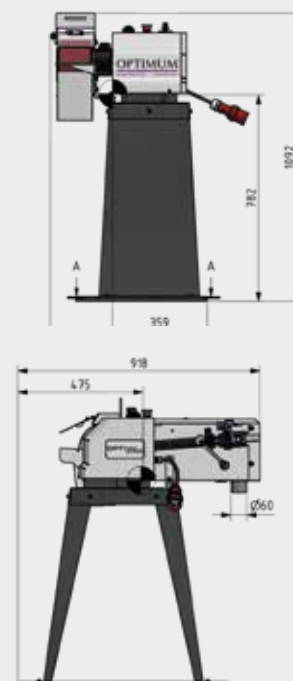
- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Two-stage motor
- ▶ Simple belt adjustment
- ▶ Stable working conditions
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Tray for safety glasses
- ▶ Motor protection switch

BELT GRINDER



Prepared for GU 2 machine base with cyclone extraction unit

Dimensions



Arguments



- › Support surface 90° can be swivelled upwards
- › Swivelling possible by loosening just one screw



- › Suction connection on the underside and rear, outer diameter 60 mm

Accessories

Grinding belt	PQ	Article no.
Grain size 40	5 pcs.	3357691
Grain size 60	5 pcs.	3357692
Grain size 80	5 pcs.	3357693
Grain size 120	5 pcs.	3357694
Grain size 180	5 pcs.	3357695
Grain size 240	5 pcs.	3357696

Machine base	Article no.
GU 2 - Machine chassis with cyclone extraction unit	3107115

Scope of delivery

- › Grinding belt

GB 120SD Including base

Model	GB 120SD
Article no.	3321200
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	2.2 / 1.5 kW
Grinding belt dimensions (W x L)	120 x 1500 mm
Usable contact surface for grinding at top	360 x 130 mm
Circumferential speed of grinding belt	29.8 m/s at 2850 min. ⁻¹
Grinding attachment swivel range	0 - 45°
Nominal width of suction connection	Ø 50 mm
Dimensions Length x width x height approx.	918 x 594 x 1092 mm
Net weight approx.	77.5 kg

Belt grinders in heavy and rugged industrial design for roughing, finishing and profile grinding of various materials in continuous operation

Facts that impress in terms of quality, performance and price

- ▶ Time-saving deburring of edges and weld polishing
- ▶ Sturdy and vibration-free design
- ▶ Powerful motor
- ▶ Grinding table can be tilted 25° forwards and 15° backwards
- ▶ Continuously adjustable top stop supports fast and convenient initial grinding of workpieces
- ▶ Large surface grinding surface
- ▶ Additional safety device
- ▶ Front extraction duct for attaching an extraction unit
- ▶ Spark guard
- ▶ Workpiece support allows grinding at the required angle
- ▶ One grinding belt included in standard scope of delivery

BELT GRINDER



Fig.: GBS 75

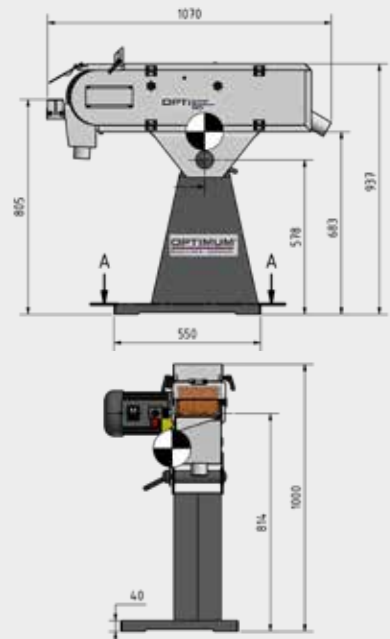
Fig.: GBS 150

Scope of delivery

- › Grinding belt 60 grain
- › Allen key

Model	GBS 75	GBS 150
Article no.	3321155	3321160
Technical data		
Electrical connection	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor power	1.5/2.2 kW	1.5/2.2 kW
Grinding belt dimensions	75 x 2000 mm	150 x 2000 mm
Surface grinding surface	98 x 60 mm	173 x 60 mm
Speed	1450 / 2850 min ⁻¹	1450 / 2850 min ⁻¹
Circumferential speed of grinding belt	29.4 m/s at 2850 min ⁻¹	29.4 m/s at 2850 min ⁻¹
Nominal outside width of suction connection	Ø 60 mm	Ø 60 mm
Dimensions L x W x H approx.	430 x 1070 x 1000 mm	500 x 1070 x 1000 mm
Height: Bottom pivot bearing	1035 mm	1065 mm
Height: Top pivot bearing	1090 mm	1065 mm
Net weight approx.	72 kg	87.5 kg

Dimensions



Arguments



Surface grinding surface

- › Open throughout and to rear
- › Also perfectly suited for machining longer workpieces

Accessories

GBS 75 grinding belts	PQ	Article no.
Grain size 40	5 pcs.	3357642
Grain size 60	5 pcs.	3357644
Grain size 80	5 pcs.	3357646
Grain size 120	5 pcs.	3357648
Grain size 180	5 pcs.	3357649
Grain size 240	5 pcs.	3357650

Grinding belts GBS 150	PQ	Article no.
Grain size 40	5 pcs.	3357672
Grain size 60	5 pcs.	3357674
Grain size 80	5 pcs.	3357676
Grain size 120	5 pcs.	3357678
Grain size 180	5 pcs.	3357679
Grain size 240	5 pcs.	3357680

Machine base with cyclone extraction see page 317

Disc grinding machine for processing surfaces, edges and curves

Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Versatile areas of application:
 - ▶ For roughing, fine and moulding grinding work
 - ▶ Sturdy and stable machine body
 - ▶ Balanced aluminium grinding wheel for smooth action
 - ▶ Powerful motor
 - ▶ Delivered with grinding sheet
 - ▶ Tray for safety glasses

DISK GRINDER



Fig.: with optional GU 1 base with extraction unit.
Informations see page 327

Arguments,...



Mitre stop

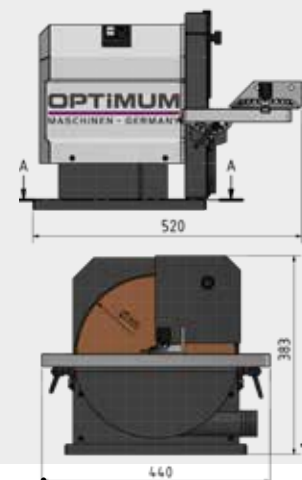
- › Mitre stop can be swivelled through 180°
- › Grinding table can be tilted up to ± 45°



Velcro fastener pad

- › Good grinding wheel adhesion, easy replacement

Dimensions



Accessories

Machine bases	Article no.
GU 1- 400 V with extraction unit	3107109
Suction pipes (2 pcs.)	3107111
› variable length 300 - 1000 mm	
GU 4	3107119

Informations see page 310/ 312

Grinding sheets	PQ	Article no.
› Hook and loop fastener		
Grain size 40	5 pcs.	3357854
Grain size 60	5 pcs.	3357856
Grain size 80	5 pcs.	3357858
Grain size 100	5 pcs.	3357860
Grain size 120	5 pcs.	3357862
Grain size 150	5 pcs.	3357865
Grain size 180	5 pcs.	3357866
Grain size 240	5 pcs.	3357867

Model	GB 305D
Article no.	3101675
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	1.1 kW
Grinding wheel dimensions	Ø 305 mm
Speed	1450 min ⁻¹
Table support	440 x 210 mm
Adjustment of angle stop	180°
Grinding attachment swivel range	0 - 45°
Nominal width of suction connection	Ø 50 mm
Dimensions Length x width x height approx.	560 x 440 x 380 mm
Net weight approx.	25 kg

Disc grinder for machining metal surfaces

Facts that impress in terms of quality, performance and price

- ▶ Versatile areas of application:
- ▶ For roughing, fine and moulding grinding work
- ▶ Sturdy and stable machine body
- ▶ Balanced aluminium grinding wheel for smooth action
- ▶ Powerful motor
- ▶ Delivered with grinding sheet bonded onto grinding wheel

DISK GRINDER



Scope of delivery

- › Adjustable angle stop
- › Grinding sheet

Model	TS 305
Article no.	3310305
Technical data	
Electrical connection	230 V/1 Ph ~50 Hz
Motor power	900 W
Grinding disc dimension	Ø 305 mm
Speed	1420 min ⁻¹
Table support	155 x 440 mm
Adjustment of angle stop	± 60°
Tiltable grinding table	± 45°
Dimensions L x W x H approx.	440 x 445 x 365 mm
Net weight approx.	30 kg

Arguments,...



Suction port

- › Factory standard extraction duct with two diameters for attaching an extraction unit
- › Outside nominal width ± Ø 30/ Ø 38 mm



Mitre stop

- › Standard mitre fence can be swivelled up to ± 60°
- › Grinding table can be tilted up to ± 45°



Velcro fastener pad

- › Optional accessory (Article no.: 3357801). Good grinding wheel adhesion, easy replacement

Accessories

Accessories	Article no.
Velcro fastener pad	3357801

Grinding sheets	PQ	Article no.
› Hook and loop fastener		
Grain size 40	5 pcs.	3357854
Grain size 60	5 pcs.	3357856
Grain size 80	5 pcs.	3357858
Grain size 100	5 pcs.	3357860
Grain size 120	5 pcs.	3357862
Grain size 150	5 pcs.	3357865
Grain size 180	5 pcs.	3357866
Grain size 240	5 pcs.	3357867



Bench grinders from OPTIMUM.

A quality product for trades and industry.

Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Housing made of strand cast aluminium
- ▶ One-piece housing prevents misalignment
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Sturdy adjustable workpiece support
- ▶ Extraction duct for attaching an extraction unit
- ▶ Vibration-damping rubber feet
- ▶ Coarse and fine grinding disc (K36/K80) included in standard scope of delivery
- ▶ GU 25 and GU 30 with stand plate



Fig.: GU 15 - GU 20



Fig.: GU 30

Arguments,...



Spark guard

- › on each grinding disc reduces sparks and is made of shatter-proof material
- › close-fitting and easily adjustable

OPTION:

Vario drive with
SIEMENS Inverter Sinamics V20
see page 310 onwards

Scope of delivery

- › 1 grinding disc each, standard corundum K36/K 80

Accessories

Machine bases can be found on page 316 onwards

Grinding discs can be found on page 320

Model	GU 15	GU 18	GU 20	GU 25	GU 30
Article no. (230 V)	3101505	3101510	3101515	-	-
Article no. (400 V)	-	-	3101520	3101525	3101530
Technical data					
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz	230 V / 400 V ~50 Hz	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor power S6	450 W	450 W	600 W	1.5 kW	2.2 kW
Grinding wheel dimensions	Ø 150 x 20 mm	Ø 175 x 25 mm	Ø 200 x 30 mm	Ø 250 x 40 mm	Ø 300 x 50 mm
Shaft diameter	Ø 16 mm	Ø 32 mm	Ø 32 mm	Ø 32 mm	Ø 25 mm
Grinding speed	22 m/s	26 m/s	30 m/s	37 m/s	22 m/s
Rotational speeds	2850 min ⁻¹	2850 min ⁻¹	2850 min ⁻¹	2850 min ⁻¹	1450 min ⁻¹
Nominal width of suction connection	Ø 34 mm	Ø 34 mm	Ø 34 mm	Ø 34 mm	Ø 35 / Ø 50 mm
Dimensions L x W x H approx.	389 x 205 x 265 mm	389 x 235 x 280 mm	495 x 260 x 330 mm	471 x 320 x 365 mm	678 x 422 x 525 mm
Net weight approx.	11 kg	14 kg	19 kg	33 kg	65 kg

PREMIUM bench grinders

GZ - DD Models with base and integrated suction system

Facts that impress in terms of quality, performance and price

- ▶ Heavy industrial grinding machine absorbs the vibrations, which are low anyway, thanks to its high deadweight
- ▶ Also suitable for strong thrust force on the grinding wheels
- ▶ Maintenance-free, durable, induction motor with smooth action
- ▶ Cast iron housing
- ▶ Spark guard
- ▶ Sturdy, adjustable workpiece support
- ▶ Grinding wheels not included in standard scope of delivery

GZ-D models:

- ▶ without chassis (chassis available as option)



Fig.: GZ 25DD with optional grinding disc

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 310 onwards



Arguments,...



GZ-DD models:

- › Integrated extraction system with aluminium fan and self-cleaning impellers
- › Dust bag made of self-extinguishing woven material
- › Sturdy base with water tray

Accessories

DO NOT FORGET:

Grinding discs not included in the scope of delivery. These can be found on page 320

Machine bases without extraction for GZ-D models	Article no.
GZ 20D	3091120
GZ 25D	3091122

Informations see page 317

Electronic brake	3091099
› Controlled braking	
› Including factory assembly	



Model	GZ 20D	GZ 25D	GZ 30D
Article no.	3091010	3091015	3091020
Model	GZ 20DD	GZ 25DD	GZ 30DD
Article no.	3091040	3091045	3091050

Technical data			
Electrical connection	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor power	750 W	1.1 kW	1.8 kW
Grinding wheel dimensions	Ø 200 x 25 mm	Ø 250 x 30 mm	Ø 300 x 35 mm
Shaft diameter	Ø 20 mm	Ø 25 mm	Ø 30 mm
Rotational speeds	2800 min ⁻¹	1400 min ⁻¹	1400 min ⁻¹
Dimensions L x W x H GZ models approx.	550 x 290 x 360 mm	670 x 340 x 410 mm	810 x 420 x 560 mm
Dimensions L x W x H GZ-DD models approx.	800 x 710 x 1120 mm	800 x 710 x 1300 mm	810 x 1200 x 1320 mm
Net weight GZ/GZ-DD models approx.	25 kg / 63.7 kg	44.8 kg / 91 kg	64.5 kg / 124 kg

PREMIUM Industrial - grinder, extremely robust and stable

Facts that impress in terms of quality, performance and price

- ▶ Suitable for intensive industrial use
- ▶ Heavy industrial grinding machine absorbs the vibrations, which are low anyway, thanks to its high deadweight
- ▶ Also suitable for strong thrust force on the grinding wheels
- ▶ Maintenance-free, durable, induction motor with smooth action
- ▶ Cast iron housing
- ▶ Spark guard
- ▶ Stable, displaceable workpiece support
- ▶ Grinding wheels not included in standard scope of delivery



Fig.: Showing optional grinding discs and GU4-H machine base

OPTION:
Vario drive with
SIEMENS Inverter
Sinamics V20
see page 313
onwards

Arguments,...



Material support

- › Displaceable
- › Sturdy



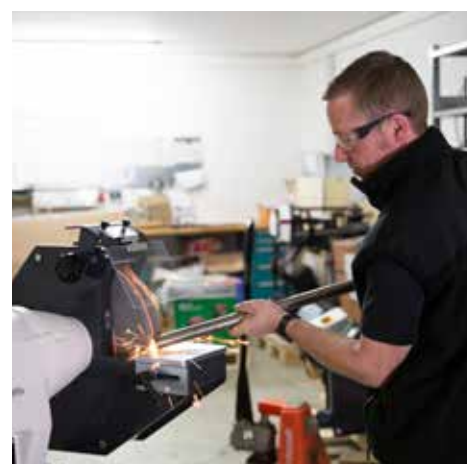
Suction port

- › Nominal width 90 mm



Control unit

- › with emergency stop button



BENCH GRINDERS

Model	GZ40D
Article no.	3091025
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	4.4 kW
Grinding wheel dimensions	Ø 400 x 50 mm
Shaft diameter	Ø 40 mm
Rotational speeds	1400 min ⁻¹
Nominal width of suction connection	90 mm
Dimensions L x W x H approx.	980 x 600 x 660 mm
Net weight approx.	168 kg

Accessories

DO NOT FORGET:

Grinding discs not included in the scope of delivery You will find these on page. 320

Machine base	Article no.
GU 4-H	3107123
GU 5-H with cyclone extraction unit	3107124
Suction pipes for GU 5-H 2 pieces flexible Ø 60 mm	3107116

Informations see page 314

DRILLING

CORE DRILLING

THREAD TAPPING

MILLING ACCESSORIES

TURNING

MEASURING

SAWS

GRINDING

POLISHING

SHEET METAL WORKING

LIGHTING

COOLING

Functional universal grinding machines with grinding attachment

Facts that impress in terms of quality, performance and price

- ▶ Rugged and sturdy universal grinding machines with grinding belt and grinding wheel for a variety of materials
- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Housing made of strand cast aluminium
- ▶ One-piece housing prevents misalignment
- ▶ Large, heavy fastening flanges ensure excellent disc true running accuracy
- ▶ Grinding attachment with graphite support; prevents friction and heat
- ▶ Stop allows for fast and convenient initial grinding of the workpieces
- ▶ Extraction duct for attaching an extraction unit
- ▶ Belt run adjustment without tools - adjustable using a single star knob
- ▶ Universal corundum grinding wheel and grinding belt included in standard scope of delivery
- ▶ GU 25S and GU 30S with base plate

UNIVERSAL GRINDERS



Fig.: GU 30S

Arguments,...



Grinding attachment

- › can be adjusted in a swivelling range of 0°-90° via the flange



Grinding disc

- › Sturdy workpiece support surface
- › Adjustable spark protection

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 310 onwards

Model	GU 20S	GU 25S	GU 30S
Article no. (230 V)	3101570	-	-
Article no. (400 V)	3101575	3101580	3101585

Technical data			
Electrical connection	230 V or 400V	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor power S6	600 W	1.5 kW	2.2 kW
Grinding wheel dimensions	Ø 200 x 30 mm	Ø 250 x 40 mm	Ø 300 x 50 mm
Shaft diameter	Ø 32 mm	Ø 32 mm	Ø 25 mm
Grinding belt dimensions	75 x 762 mm	75 x 1016 mm	100 x 1190 mm
Nominal width of suction connection	Ø 32 mm	Ø 32 mm	Ø 35 / Ø 50 mm
Grinding speed	16 m/s	16 m/s	10 m/s
Grinding belt	30 m/s	37 m/s	27 m/s
Grinding speed of grinding disc	30 m/s	37 m/s	27 m/s
Dimensions L x W x H approx.	501 x 261 x 459 mm	514 x 319 x 596 mm	767 x 420 x 527 mm
Net weight approx.	20.7 kg	31.5 kg	64.5 kg

Scope of delivery

- › Grinding wheel normal corundum fine 80 grain
- › Grinding belt normal corundum fine 80 grain

Accessories

Machine bases can be found on page 316 onwards

Grinding discs can be found on page 320

Effective brush deburrer for the trade and for small batches

Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ For deburring pipes, sections and flat workpieces made of metal
- ▶ Tray for safety glasses
- ▶ Sturdy and stable machine body
- ▶ Safe and clean working with the optional GU 1 machine base with cyclone dust extraction



Fig.: Showing optional GU1 machine base

Arguments,...



Material support

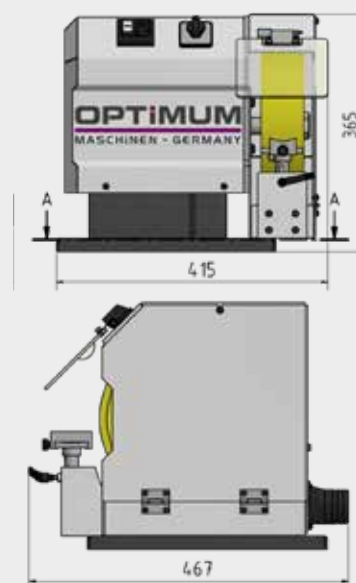
- › Height-adjustable
- › Holder also for round material



Extraction duct

- › The suction connection has an external diameter of 50 mm.

Dimensions



Scope of delivery

- › Round brush, wire thickness 0.35 mm

Model	GB 250B
Article no.	3101670
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	1.3 / 1.8 kW
Round brush dimensions	Ø 250 x 40 mm
Shaft diameter	Ø 25 mm
Peripheral speed of the round brush	37.3 m/s at 2850 min ⁻¹
Rotational speeds	1450/ 2850 min ⁻¹
Nominal width of suction connection	Ø 50 mm
Dimensions L x W x H approx.	415 x 467 x 356 mm
Net weight approx.	36 kg

Accessories

Designation	Article no.
Base unit GU 1 - 400 V with extraction system	3107109
Base unit GU 4	3107119
For information on the bases, see page 316	
2 flexible extraction pipes	3107111
Round brushes	Article no.
Round brush 250 x 32-37mm steel wire with 25mm adapter	3098070
Round brush 250 x 42-47 mm - 0.2 mm with 25 mm adapter	3107451
Round brush 250 x 42-47 mm - 0.3 mm with 25 mm adapter	3107452

BRUSH DEBURRER

Combined grinding machines by Optimum for workshops

Facts that impress in terms of quality, performance and price

- ▶ Durable design with maintenance-free motor
- ▶ Housing made of strand cast aluminium
- ▶ One-piece housing prevents misalignment
- ▶ Large, heavy fastening flanges ensure excellent disc true running accuracy
- ▶ Grinding attachment with graphite support - prevents friction and heat
- ▶ Stop allows for fast and convenient initial grinding of the workpieces
- ▶ Swivelling brush protection housing
- ▶ Extraction duct for attaching an extraction unit
- ▶ One grinding wheel and one multi-purpose brush included in scope of delivery
- ▶ GU 25B with base plate

COMBINED GRINDERS



Fig. GU 25B

Arguments,...



Material support

- › Mobile and sturdy



Multi-purpose brush

- › in swivelling brush housing
- › High tensile steel wire
- › with extraction duct



Spark guard

- › on each grinding disc reduces sparks and is made of shatter-proof material
- › close-fitting and easily adjustable

Scope of delivery

- › Grinding wheel - normal corundum coarse 36 grain
- › Multi-purpose wire brush, wire thickness 0.3 mm

Accessories

You will find bases starting on page 316.

Grinding discs and multi-purpose wire brushes can be found on page 320.

Model	GU 15B	GU 18B	GU 20B	GU 25B
Article no. (230 V)	3101600	3101605	3101610	-
Article no. (400 V)	-	-	3101615	3101620
Technical data				
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz	230 V or 400 V	400 V/3 Ph ~50 Hz
Motor power S6	450 W	450 W	600 W	1.5 kW
Grinding wheel dimensions	Ø 150 x 20 mm	Ø 175 x 25 mm	Ø 200 x 30 mm	Ø 250 x 40 mm
Dimension of multi-purpose wire brush	Ø 150 x 20 mm	Ø 175 x 25 mm	Ø 200 x 25 mm	Ø 250 x 30 mm
Shaft diameter	Ø 16 mm	Ø 32 mm	Ø 32 mm	Ø 32 mm
Rotational speeds	2850 min ⁻¹	2850 min ⁻¹	2850 min ⁻¹	2850 min ⁻¹
Nominal width of suction connection	Ø 34 - 35 mm	Ø 34 - 35 mm	Ø 34 - 35 mm	Ø 34 - 35 mm
Dimensions Length x width x height approx.	428 x 305 x 230 mm	428 x 305 x 244 mm	517 x 345 x 282 mm	526 x 380 x 319 mm
Net weight approx.	10.7 kg	12.3 kg	18.5 kg	32.5 kg

PREMIUM Combined grinding machines for workshops,
steel construction companies.

GZ - CD Models with chassis and integrated extraction system

Facts that impress in terms of quality, performance and price

- ▶ Heavy industrial combined grinding machine absorbs the vibrations, which are low anyway, thanks to its high deadweight
- ▶ Also suitable for strong thrust force on the grinding wheel and brush
- ▶ Maintenance-free, durable, induction motor with smooth action
- ▶ Cast iron housing
- ▶ Sturdy, adjustable workpiece support

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 313 onwards



Fig.: GZ 20C with optional grinding disc and brush

Arguments,...



Fig.: GZ 20CD with optional grinding disc and brush

GZ - CD models with base unit and integrated suction system

- › Made in Italy
- › Perfectly aligned to avoid noise and vibrations
- › self-cleaning wings

Dust collection bag

- › For a clean workplace
- › More safety - collects glowing chips in a sack



Material support

- › Mobile and sturdy

COMBINED GRINDERS

Model	GZ 20C	GZ 25C
Article no.	3091070	3091075
Model	GZ 20CD	GZ 25CD
Article no.	3091080	3091085

Technical data		
Electrical connection	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor power	750 W	1.1 kW
Grinding wheel dimensions	Ø 200 x 25 mm	Ø 250 x 30 mm
Round brush dimensions	Ø 200 x 25 mm	Ø 250 x 25 mm
Shaft diameter	Ø 20 mm	Ø 25 mm
Rotational speeds	2800 min ⁻¹	1400 min ⁻¹
Dimensions L x W x H GZ C approx.	650 x 300 x 360 mm	850 x 340 x 410 mm
Dimensions L x W x H GZ CD approx.	900 x 710 x 1300 mm	850 x 1200 x 1300 mm
Net weight GZ- C / GZ-CD approx.	26.5 kg / 67 kg	48 kg / 94 kg

Accessories

DO NOT FORGET:

Grinding disc and brush not included. These can be found on page 320

Accessories	Article no.
Electronic brake	3091099
› Controlled braking	
› Including factory assembly	



Base units without suction	Article no.
GZ 20D	3091120
GZ 25D	3091122

Informations see page 314

DRILLING

CORE DRILLING

THREAD TAPPING

MILLING ACCESSORIES

TURNING

MEASURING

SAWS

GRINDING

POLISHING

SHEET METAL WORKING

LIGHTING

COOLING

PREMIUM combination grinder - a powerful industrial grinder with multi-purpose brush and grinding disc

Facts that impress in terms of quality, performance and price

- ▶ Suitable for intensive industrial use
- ▶ Heavy-duty combined grinding machine absorbs the vibrations thanks to its high deadweight
- ▶ Also suitable for strong thrust force on the grinding wheel and brush
- ▶ Maintenance-free, durable, induction motor with smooth action
- ▶ Cast iron housing
- ▶ Swivelling brush protection housing with extraction ducts
- ▶ Sturdy, adjustable workpiece support

COMBINED GRINDERS



Fig.: Showing optional grinding wheel, brush, and GU4-H chassis

OPTION:
Vario drive with
SIEMENS Inverter
Sinamics V20
see page 313 onwards

Arguments,...



Material support

- › Displaceable
- › Sturdy



Multi-purpose brush

- › with swivelling brush housing
- › Optional multi-purpose brush made of high-strength steel wire



Speed

- › constant speed, also under load

Accessories

DO NOT FORGET:

Grinding disc and multi-purpose brush not included in the scope of delivery. These can be found on page 320

Model	GZ 40C
Article no.	3091079
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	4.4 kW
Grinding wheel dimensions	Ø 400 x 50 mm
Grinding disc shaft diameter	Ø 40 mm
Round brush dimensions	Ø 350 x 35 mm
Round brush shaft diameter	Ø 25 mm
Rotational speeds	1400 min ⁻¹
Nominal width of suction connection	Ø 90 mm
Dimensions Length x width x height approx.	1200 x 660 x 580 mm
Net weight approx.	144 kg

Round brush	Article no.
350 x 50-55 x 25mm - 0.2mm high-tensile steel wire	3098092
350 x 55-60 x 25mm-0.35mm high-tensile steel wire	3098093
Grinding disc	Article no.
K 36	3098150
K 60	3098152
K 80	3098154
Machine base	Article no.
GU 4-H	3107123
GU 5-H with cyclone extraction unit	3107124
Suction pipes for GU 5-H 2 pieces, flexible, Ø 60 mm	3107116
Informations see page 318	

Polishing machine for fine surface finishing on metal workpieces

Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Housing made of strand cast aluminium
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Two wide polishing discs included in standard scope of delivery
- ▶ Vibration-damping rubber feet
- ▶ without extraction hood – can be ordered separately as an option

POLISHING MACHINE

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 310 onwards



Fig.: GU 20P

Accessories



Fig.: Vario conversion
Machine base with view window (not available)

Scope of delivery

- › 2 buffing discs

Model	GU 20P	GU 25P
Article no. (230 V)	3101540	-
Article no. (400 V)	3101545	3101550

Technical data		
Electrical connection	230 V or 400 V	400 V/3 Ph ~50 Hz
Motor power	600 W	1.5 kW
Polishing disc dimensions	Ø 200 x 20 mm	Ø 250 x 25 mm
Shaft diameter	Ø 16 mm	Ø 20 mm
Polishing speed	30 m/s	37 m/s
Speed	2850 min ⁻¹	2850 min ⁻¹
Dimensions L x W x H approx.	545 x 200 x 262 mm	555 x 250 x 296 mm
Net weight approx.	10.6 kg	17.4 kg

Accessories

Machine base	Article no.
GU 3 without suction	3107118
GU 1 (230 V)	3107110
GU 1 (400 V)	3107109

› Cyclone extraction unit with two motors

Suction pipes (2 pcs.)	3107111
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Information can be found on page 311 onwards

Extraction hood set	Article no.
for GU 20P	3107060
for GU 25P	3107061

› 2-part (left and right)

› For use of an extraction unit



When using suction units, it is necessary to clean the suction unit more frequently when starting with new discs, as large loose pieces of fabric may come loose.

DRILLING

CORE DRILLING

THREAD TAP-
PING

MILLING
ACCESSORIES

TURNING

MEASURING

SAWS

GRINDING

POLISHING

SHEET METAL WORK-
ING

LIGHTING

COOLING

Polishing machine for fine surface finishing on metal workpieces

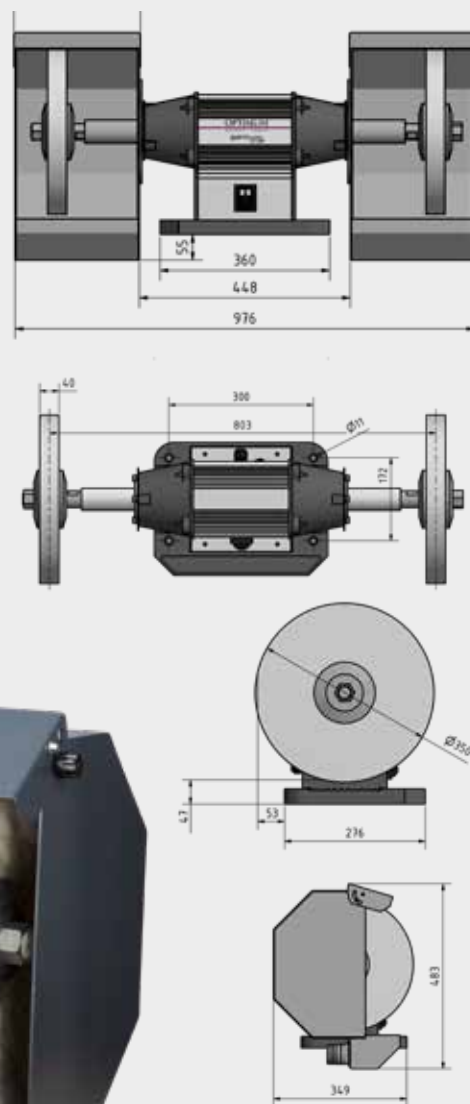
Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor
- ▶ Housing made of strand cast aluminium
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Emergency stop button
- ▶ Two wide polishing discs included in standard scope of delivery
- ▶ Vibration-damping rubber feet, base plate
- ▶ Extraction hood for use of an extraction unit

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 312 onwards



Arguments,...



Scope of delivery

› 2 buffing discs

Model	GU 35P
Article no.	3101560
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	2.2 kW
Polishing disc dimensions	Ø 350 x 30 mm
Shaft diameter	Ø 25 mm
Speed	1450 min ⁻¹
Polishing speed	27 m/s
Dimensions Length x width x height approx.	1017 x 420 x 527 mm
Net weight approx.	64.1 kg

Accessories

Machine base	Article no.
GU 4	3107119
GU 5 with cyclone extraction unit	3107114
Suction pipes for GU 5 2 pieces, flexible, Ø 60 mm	3107116
Informations see page 318 onwards	

PREMIUM Polishing machine - a powerful industrial machine

Facts that impress in terms of quality, performance and price

- Suitable for intensive industrial use
- Heavy-duty buffing grinder absorbs the vibrations (which are low anyway) thanks to its high deadweight
- Maintenance-free, durable, induction motor with smooth action
- Cast iron housing
- Polishing discs not included in standard scope of supply

OPTION:
Vario drive with
SIEMENS Inverter Sinamics V20
see page 313 onwards

POLISHING MACHINE



Fig. with optional polishing discs and GU4-H machine base

Arguments



Safety enclosure

- swivelling
- Connector for connecting a suction device



Control unit

- with emergency stop button



Housing

- Made of cast iron
- Very high damping capacity

Accessories

DO NOT FORGET:
Polishing discs not included.

Polishing disc	Article no.
hard	3107341



soft	3107340
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Model	GZ 40P
Article no.	3091130
Technical data	
Electrical connection	400 V/3 Ph ~50 Hz
Motor power	4.4 kW
Polishing disc dimensions	350 x 30 mm
Shaft diameter	Ø 25 mm
Rotational speeds	1400 min ⁻¹
Nominal width of suction connection	Ø 90 mm
Dimensions Length x width x height approx.	1390 x 530 x 580 mm
Net weight approx.	110 kg

Machine base	Article no.
GU 4-H	3107123
GU 5-H	3107124
Cyclone extraction	
Suction pipes for GU 5-H 2 pieces flexible Ø 60 mm	3107116

Informations see page 218

When using suction units, it is necessary to clean the suction unit more frequently when starting with new discs, as large loose pieces of fabric may come loose.

DRILLING

CORE DRILLING

THREAD TAPPING

MILLING ACCESSORIES

TURNING

MEASURING

SAWS

GRINDING

POLISHING

SHEET METAL WORKING

LIGHTING

COOLING

Vario drive with GU 1 base

Vario drive with machine base GU 1 with cyclone extraction
this enables the grinder's speed to be controlled continuously.

Facts that impress in terms of quality, performance and price



- Vario drive with SIEMENS Sinamics V20 inverter**
- › Wider voltage range, advanced cooling and painted electronic components increase the robustness of the inverter
 - › Stable operation even with difficult grid conditions



Vario base with machine base GU 1 with cyclone extraction unit
› Without grinder- must be ordered separately along with your order.
› Sturdy base
› Cyclone extraction unit integrated in machine base, consequently less space required
› Noise-insulated

Automatic start-up

No need to additionally switch the extraction unit on or off because the extraction unit switches on or off automatically after a delay of 23 seconds when the grinding device is switched on or off. The residual dust is extracted after switching off the machine in line with the Hazardous Materials Ordinance



Vario conversion with machine base GU 1	
Motor output up to 1.5 kW	
Article no.	3491530
Peripheral speeds 37 m/s to 6 m/s adjustable	

You can find more information about the GU1 machine base on page 316.

Machines required	Article no.
› Combined grinding machine GU 20B	3101615
› Combined grinding machine GU 25B	3101620
› Polishing machine GU 20P	3101545
› Polishing machine GU 25P	3101550
› Bench grinder GU 20	3101520
› Bench grinder GU 25	3101525
› Universal grinding machine GU 20S	3101575
› Universal grinding machine GU 25S	3101580

The Vario conversion complies with the DIN EN 55011 standard Class C2 Note: The suction unit requires a zero conductor in the 400 V version

Vario drive with GU 3 base

Vario drive with GU 3 machine base
this enables the grinder's speed to be controlled continuously.



- Vario drive with SIEMENS Sinamics V20 inverter**
- › Wider voltage range, advanced cooling and painted electronic components increase the robustness of the inverter
 - › Stable operation even with difficult grid conditions



Vario conversion with machine base GU 3	
› Without grinder- must be ordered separately along with your order.	
› Coolant tray	
› Small footprint	



Fig.: Base with sample view window

Vario conversion with machine base GU 3	
Motor output up to 1.5 kW	
Article no.	3491531
Peripheral speeds 37 m/s to 6 m/s adjustable	

You can find more information about the GU3 machine base on page 317.

Machines required	Article no.
› Combined grinding machine GU 20B	3101615
› Combined grinding machine GU 25B	3101620
› Polishing machine GU 20P	3101545
› Polishing machine GU 25P	3101550
› Bench grinder GU 20	3101520
› Bench grinder GU 25	3101525
› Universal grinding machine GU 20S	3101575
› Universal grinding machine GU 25S	3101580

Vario drive with GU 4 / GU 5 base

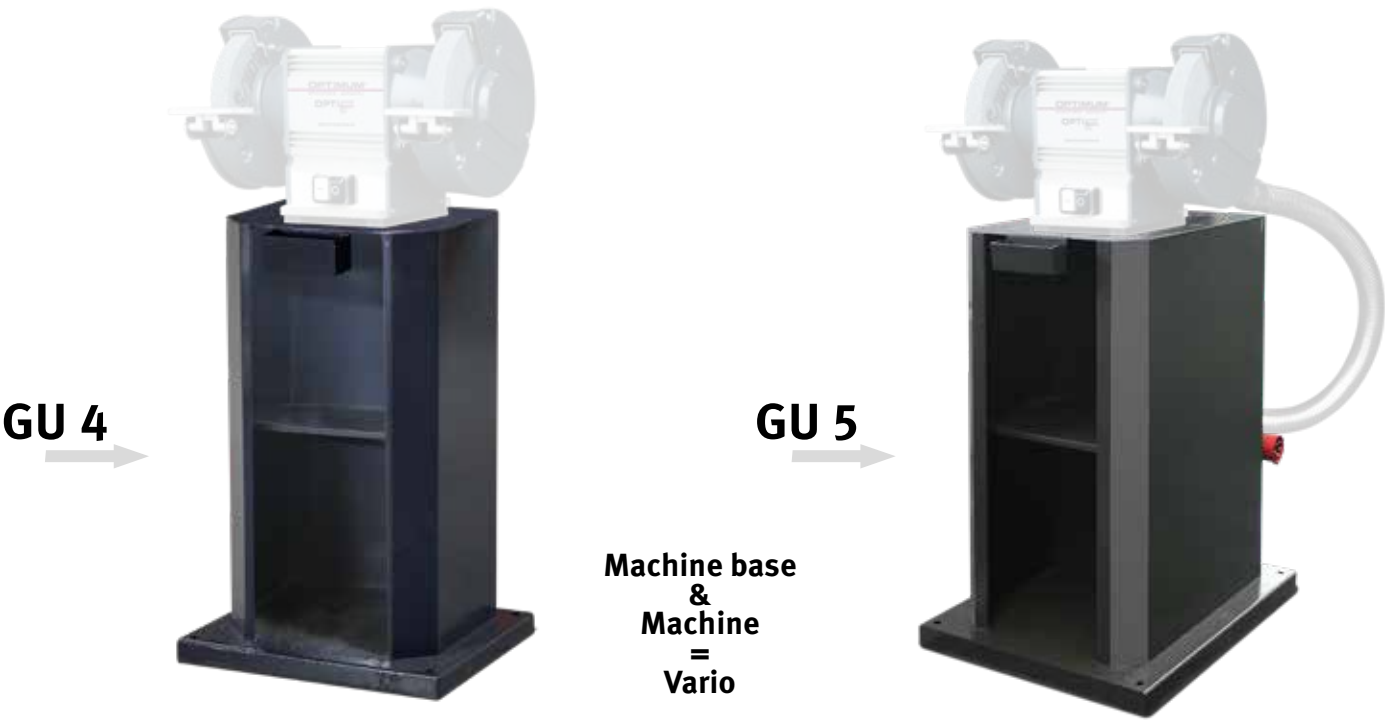
The Vario Drive is available optionally with a GU 4 or GU 5 machine base, this enables the grinder's speed to be controlled continuously.

Facts that impress in terms of quality, performance and price



Vario drive with SIEMENS Sinamics V20 inverter

- › Wider voltage range, advanced cooling and painted electronic components increase the robustness of the inverter
- › Stable operation even with difficult grid conditions



Machines required	Article no.
› Bench grinder GU 30	3101530
› Combined grinding machine GU 30S	3101585
› Polishing machine GU 35P	3101560

Vario conversion with machine base GU 4 Without extraction unit	
Motor output up to 2.2 kW	
Article no.	3491550

- › Without grinder- must be ordered separately along with your order.
- › Peripheral speeds 34 m/s to 6 m/s adjustable
- › Coolant tray
- › Small footprint

Vario conversion with machine base GU 5 with cyclone extraction unit	
Motor output up to 2.2 kW	
Article no.	3491552

- › Without grinder- must be ordered separately along with your order.
- › Peripheral speeds 34 m/s to 6 m/s adjustable
- › Sturdy base
- › Cyclone extraction unit integrated in machine base, consequently less space required
- › Noise-insulated

Automatic start-up

No need to additionally switch the extraction unit on or off because the extraction unit switches on or off automatically after a delay of 23 seconds when the grinding device is switched on or off. The residual dust is extracted after switching off the machine in line with the Hazardous Materials Ordinance

You can find more information about the Machine bases base on page 318.

The Vario Drive is available optionally with a GU 4-H or GU 5-H machine base, this enables the grinder's speed to be controlled continuously.



Vario drive with **SIEMENS** Sinamics V20 inverter

- › Wider voltage range, advanced cooling and painted electronic components increase the robustness of the inverter
- › Stable operation even with difficult grid conditions



GU 4-H



GU 5-H

Machines required	Article no.
› Grinding machine GZ40D	3091025
› Combined grinding machine GZ 40C	3091079
› Polishing machine GZ 40P	3091130

Vario conversion with machine base GU 4-H Without extraction unit	
Motor output up to 4.4 kW	
Article no.	3491571
› Without grinder- must be ordered separately along with your order.	
› Peripheral speeds 34 m/s to 6 m/s adjustable	
› Coolant tray	
› Small footprint	

Vario conversion with machine base GU 5-H with cyclone extraction unit	
Motor output up to 4.4 kW	
Article no.	3491573
› Without grinder- must be ordered separately along with your order.	
› Peripheral speeds 34 m/s to 6 m/s adjustable	
› Sturdy base	
› Cyclone extraction unit integrated in machine base, consequently less space required	
› Noise-insulated	

Reminder: The bases must be filled with concrete by the customer.

You can find more information about the Machine bases base on page 318.

Automatic start-up

No need to additionally switch the extraction unit on or off because the extraction unit switches on or off automatically after a delay of 23 seconds when the grinding device is switched on or off. The residual dust is extracted after switching off the machine in line with the Hazardous Materials Ordinance