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**OPTIMUM®**  
MASCHINEN - GERMANY

METAL WORKING MACHINERY  
THE OPTIMUM IN TERMS OF QUALITY,  
PRICE-PERFORMANCE AND SERVICE



MAIN CATALOGUE 2019

# The OPTIMUM in terms of quality, price-performance and service



*Sales and service Germany in Hallstadt/Bamberg*

Dear Customer,

To support any conceivable metalworking application, we have composed an assortment in our OPTIMUM domain catalogue that covers many areas with suitable machines. Each of our products impresses with its quality, precision, long service life and value stability. OPTIMUM offers the right machine for most tasks - from bench-top drills to CNC lathes.

## Your requirements are our target

For more than 25 years, we have focused on the design, development and production of OPTIMUM machines, and for more than 10 years on CNC machines. We work unceasingly on continually optimising our machines. One important point here is also production, which is of great importance to us. This is why we made a careful choice of manufacturers to supplement our own production facilities. We set great store by the fact that these manufacturers meet our internal quality requirements. Besides our own manufacturing operations, OPTIMUM exclusively relies on manufacturers who meet our requirements. This means that we can offer you metalworking machines that impress on many scores.

OPTIMUM has built up a good reputation in the course of the years on what is a continually changing and developing tool and machine market. We are proud to say that we combine expertise, experience and a balanced price-performance ratio. Our utmost priority is you as a satisfied customer. With our motivated and expert personnel we strive to complete OPTIMUM's know-how and propagate it to you our customers.



**Kilian Stürmer**  
Managing Directors



DISCOVER OUR PRODUCT VIDEOS NOW!

All of our product videos are available for you to watch on our YouTube channel **OPTIMUM Maschinen Germany GmbH**.  
Subscribe to our YouTube channel, to avoid missing any of the new videos.





## Dealers and service

Thanks to our comprehensive network of specialist dealers, you always have a local partner with OPTIMUM who guarantees the best possible advice, intensive support, and trouble-free after-

sales service. And, of course, our expert staff is there to help you at any time. Please don't hesitate to contact our qualified team if you have any questions. We are happy to help.

## Our products

Are you looking for a functional machine that offers a comprehensive feature set at an attractive price? Then you are making the right decision in purchasing an OPTIMUM metalworking machine. Our machines impress with excellent quality, precise manufacturing, and they offer an "OPTIMUM" price-performance ratio. We cater to a comprehensive tool

machine and sheet metal working programme and are guaranteed to have the right machine variant for your needs in our assortment. You can rely on OPTIMUM, because we can realise every single one of your requirements in the metalworking environment. This main catalogue will give you an impression of our capabilities and our wide product portfolio.

## On-site for you: in Europe and worldwide

For many years, OPTIMUM Maschinen Germany has been synonymous with the development, design and production of metalworking machines and CNC machines characterised by high quality standards. In the course of the years, we have continually expanded our sales and service network.

Today, OPTIMUM Maschinen Germany GmbH, German company, collaborates globally with professional partners from its headquarters in Hallstadt near Bamberg.

You will find OPTIMUM subsidiaries with strong dealers. Our international sales network extends well beyond Germany's borders to many countries all over the world. This helps us to ensure that our customers can rely on the fast, uncomplicated and service-oriented expertise and quality standards of OPTIMUM thanks to our extensive sales organisation. We have established a responsible market position that you can trust in the course of the years!



All OPTIMUM products are produced under high quality requirements.



OPTIMUM plant in Yangzhou, China

## Production

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Since 2003, OPTIMUM Maschinen Germany GmbH has produced a large share of its metalworking machines in its own factory in Yangzhou China. The quality here is monitored by German quality management officers and production supervisors. A further major part of our OPTIMUM metalworking machines is exclusively produced for OPTIMUM in line with special requirements within the company group.



Production on our own CNC machines



Drilling machine assembly



## Quality

OPTIMUM products are produced under high quality requirements. A price comparison with equivalent and comparable products will give you the assurance that our OPTIMUM machines are always products that stand up to any comparison in terms of operating convenience, equipment level, quality, technology and value for money and are thus always a good buy. Check out the robust design and durability for yourself; this is what our machines stand for in a metalworking world.

You can purchase the OPTIMUM brand with confidence, and assure the best possible quality for your operations. There are many products that look identical, or similar, on the market, but which by no means achieve our OPTIMUM quality standards.



Lathe production



Metal-cutting band saw production



## German Quality – made in China



## Our production facilities

Optimum Maschinen Germany GmbH has commenced production in 2006 in Touqiao Town near Yangzhou in Jiangsu Province, only about three hours by car from Shanghai, on a total area of 20 000 square meters - a building floor space of 9 000 square meters with 180 employees, including 40 technicians.

Today, we produce our Optimum machine program in three production plants with a total area of 74 000 square meters and a building floor space of 30 000 m<sup>2</sup> with about 230 employees in production.

We permanently meet requirements for precision machining and economic efficiency.

We develop and configure the best solutions for our customers and take responsibility for them.

Our factories carry out strict technical process and quality controls Based on ISO 9001.

With a team of experienced experts and technicians and advanced production facilities, we produce quality products such as small and medium CNC machining centres, CNC lathes, CNC milling machines, milling and drilling machines and lathes for industrial and home use.



## DIN EN ISO 9001 Excellent quality

Our factory is DIN EN ISO 9001 certified. This means that all company departments and services are subject to strict quality requirements. And this means consistently high quality for you. The objective of high quality is thrilled customers. And it is this attitude that finally helps to achieve this

demanding certification. The key to the long-term success of our enterprise is also a relationship of trust with customers and suppliers. This explains why it is just as important to us as the sustainable quality of our products.





## Our standards are high. And we strictly adhere to them

### **Certified quality in our production facilities**

The excellence and safety of our products are assured by a system of internal processes, based on regular and frequent inspections in our factories and along the logistics chain. In order to ensure compliance with the strict requirements, each production site is regularly inspected.

### **Achieving our quality goals is an important management task**



At Optimum, development and production are in the same hands, and the company sets high standards in all areas.

This is why our customers get what they expect from Optimum: innovative, well thought-out products with high practical suitability and an exceptionally long service life.

## Quality control



Our company has developed a carefully planned quality management system and is certified according to ISO 9001:2008.

This system is an integral part of our operations and no exceptions or compromises are made or entered into with regard to the quality level of the products from production. Our Quality Assurance department is staffed by skilled employees who ensure that only products of impeccable quality are sold

## Quality Assurance department



The Quality Assurance department consists of experienced technicians who are supervised by our German technicians, and attach great importance to high quality and impeccable product quality.

Each production step is checked and compared at all times with the available specifications

## We want satisfied customers



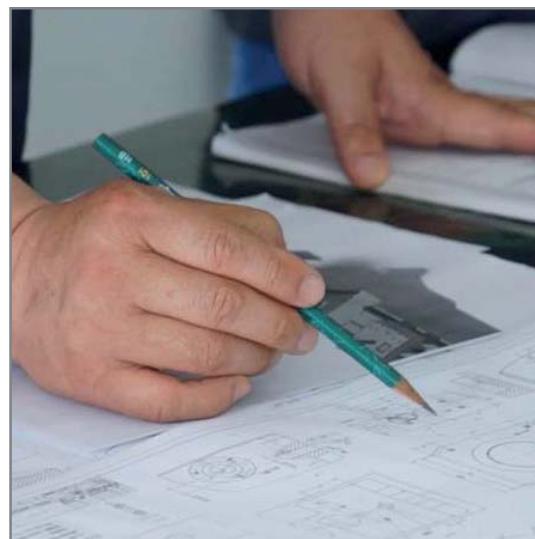
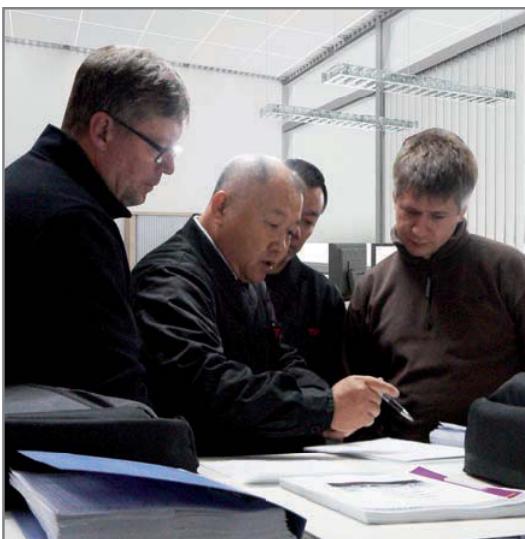
This explains why our products' compliance with the customer quality requirements described earlier on is our company's top priority.



## Production support

**Our Engineering department has a well-coordinated team of specialists with excellent engineering qualifications. Their established expertise allows flexible and creative implementation of all requirements posed for our products and services.**

A team of employees directly influences the production process on site through regular training and checks. It is only through this intensive support at the production site that we are in a position to achieve the proverbial OPTIMUM.





## Quality management Production Outbound goods inspection

In addition to adherence to delivery deadlines and service, the quality of our products is extremely important to us. Continuous on-site checks by our quality manager ensure our quality. Our comprehensive incoming goods inspection is performed in line with generally accepted technical guidelines.



## Quality management Incoming goods inspection

Our quality managers from Germany are our first contacts for quality compliance on site. They are responsible for the dimensional accuracy of the components, for monitoring and quality assurance of the manufacturing process; they collaborate closely with our Engineering department at head office in Germany, thus ensuring an optimal symbiosis.



## Planning

As early as the planning phase our engineering department manages the development of new products, which are manufactured both our facility and facilities operated by our partners. Major benefits: this ensures that market factors and customer requirements are immediately adopted into our workflow, setting the stage for a successful product design.



## Development

Development relies exclusively on state-of-the-art 3D CAD software, which we use to create a virtual model of the machine. Besides ensuring optimum functionality of the machines, our development process also targets re-usability of the data generated during the development phase. These data are not only used for devising production documents and manuals, but are also used for computations, for computer-aided manufacturing, and for visualisation and animations.



## Practical testing

Our engineers combine theory and practice. To avoid leaving anything to chance in terms of product satisfaction, all of our machines and tools go through application engineering tests, and we also consistently involve selected customers in this process. This means that each new product is expected to prove itself in the daily grind before it comes a fixed part of our product range. Engineering analysis helps us to discover and eliminate any remaining weak points.

The clearly engineering oriented approach of our staff – in addition to the premium quality of our products, and our expert service – contribute towards constantly high levels of customer satisfaction. And our focus on technically affine employees ensures our market success – today and looking forward!



## Technical customer support

Our customers rightly expect our specialists to use their knowledge and experience to their utmost satisfaction. Our product consultants support users with technical information. To allow this to happen, our customers can use our free telephone hotline and our info email address to request qualified information and solutions at short notice.



## Safeguarding copyrights

To secure the rewards of our technical development work for both ourselves and our customers, patent and utility model protection is essential for our in-house developments. This helps us permanently keep the technical lead that OPTIMUM products have. The entire catalogue is protected by copyright. Additionally, to protect our products, we register our rights to our brands, patents and designs where possible in each individual case. We take strong action against any violation of our intellectual property.



## Technical documentation and risk analyses

Our technical authors again achieve a high standardised level that meets or even exceeds all requirements. These huge efforts exclusively serve the purpose of facilitating the process of familiarisation with the machine for our customers, and ensuring permanent and safe operations.

Risk mitigation measures are developed to compensate for any safety risks identified in the scope of analysis. Following this, the residual risk is evaluated after implementing the measures.



## Supplier management

Regular work meetings between our engineers and suppliers help to transfer our new developments and enhancements into series production at the manufacturing location in a targeted way. This direct support at our production facilities has been indispensable in manufacturing the quality products that our customers have trusted for more than 25 years.



## Sales support

The requirements for OPTIMUM machines are equally as diverse as the production requirements of our end customers and the workpieces to be machined. To ensure this, our representatives and retailers have access to the entire application-specific know-how of our engineers in case of queries.

In a qualified and explanatory sales talk, our customers are given the support they need to tune their choice of products to match their needs.



## Training

For employees from Engineering, Service and Sales as well as for our customers: Successful use of our products depends and is driven to a decisive extent by the fact that we pass on our technology know-how to our dealers, their sales and service staff and our customers through training sessions. The major benefits: this qualification offers the ability to ensure professionally founded consultancy and problem solving in all dealings with the customer. At our training centre, we offer practically-oriented product training that aim to disseminate professional knowledge in a highly intuitive way.



## Supply of spare parts

We know that rapid availability of spare parts is one of the major pre-conditions for a working, customer-oriented service solution. The planning, coordination and provisioning of spare parts is tuned at OPTIMUM Maschinen Germany GmbH so that our customers have the greatest possible benefits in terms of economic efficiency and speed.



## Siemens cooperation partner for CNC training

Siemens has for many years been the system supplier of the control and drive technology for CNC-controlled lathes and milling machines by OPTIMUM Maschinen Germany GmbH. Due to our long-standing and successful collaboration, a cooperation partnership for CNC training in Bavaria was agreed in June 2012. Target-group specific courses familiarise the participants of the training program with the various Sinumerik controls.



## Service support

...after all, good service is important to us!

In service cases, our OPTIMUM technicians are available at any time with their experience to support your workshop operations and ensure fast and targeted repairs.

In close cooperation with the service centre and its internal and external staff, weaknesses are analysed and customer needs registered. These weaknesses and needs are then evaluated from an engineering point of view and set out as tangible requirements or action catalogues.

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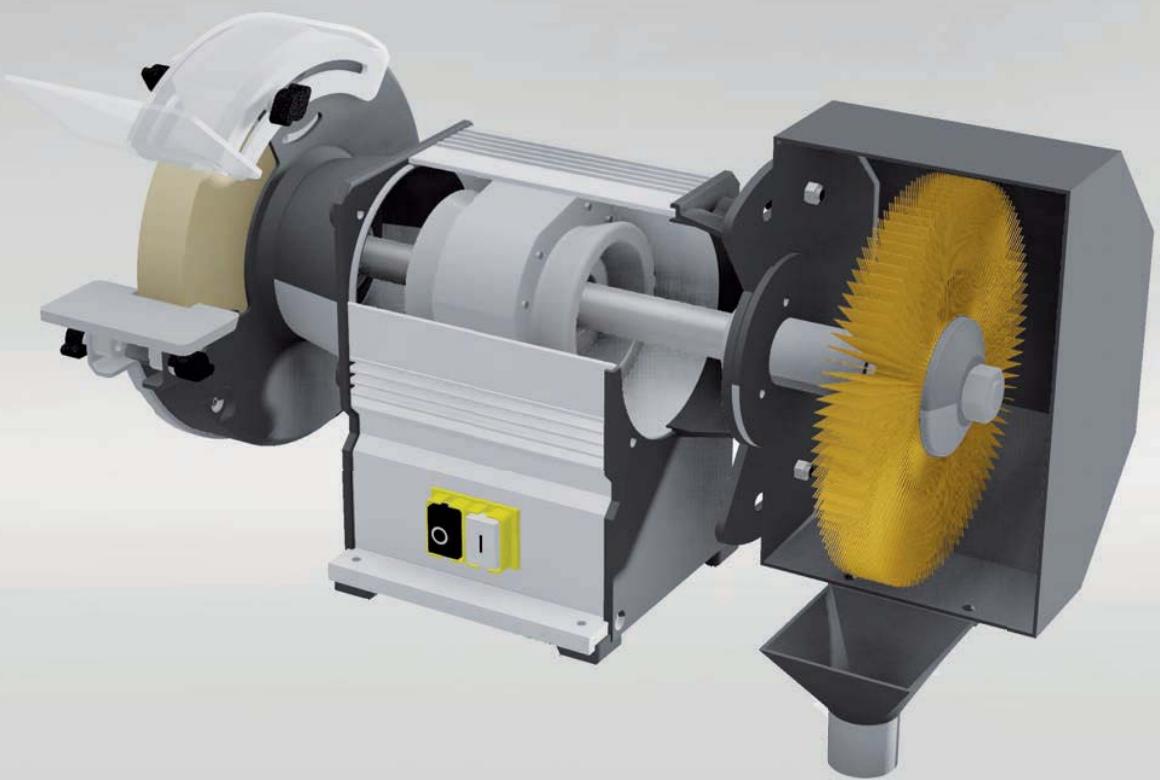
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# GRINDING AND POLISHING MACHINES



**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



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



Fig.: Corundum Fig.: Diamond



- › 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](http://www.youtube.com/user/OptimumMaschinen)

Model	GH10T	GH 15T
Article no.	3100110	3100115
<b>Technical specifications</b>		
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz
Motor output	180 W	450 W
<b>Technical specifications</b>		
Grinding wheel	Steel disc, coated with Cubic crystalline boron 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
<b>Dimensions</b>		
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 for GH10T	Article no.
<b>Replacement grinding disc</b> <b>Crystalline cubic boron nitride</b> Grain size: 170 - 200 Applications: High-speed steel (HSS)	3100126
<b>Replacement grinding disc</b> <b>Diamond</b> Grain size: 150 Applications: carbides	3100131
<b>Accessories for GH15T</b>	
<b>Replacement grinding disc</b> <b>Crystalline cubic boron nitride</b> Grain size: 170 - 200 Applications: High-speed steel (HSS)	3100127
<b>Replacement grinding disc</b> <b>Diamond</b> 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

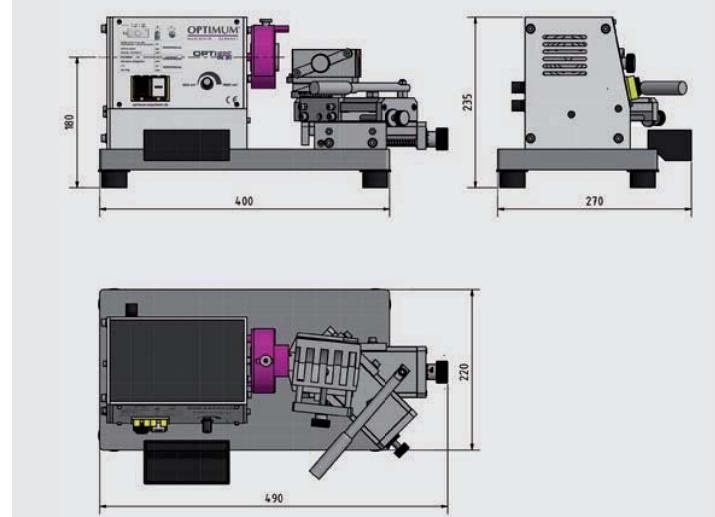
- › Sturdy
- › Precise centring and secure hold

### Scope of supply

- › Coolant tray
- › Cup grinding disc, red

Model	DG 20
Article no.	3100020
<b>Technical specifications</b>	
Electrical connection	230 V/1 Ph ~50 Hz
Motor output	600 W
<b>Technical specifications</b>	
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°
<b>Cup grinding disc</b>	
External Ø	40 mm
Inner Ø	26 mm
Thread ø	M10
Depth	22 mm
<b>Dimensions</b>	
Length x width x height	490 x 270 x 235 mm
Weight	22.5 kg

### Dimensions



### Accessories

Article no.
Cup grinding disc
Cup grinding disc, green for carbides

## The handy drill bit grinding device by quantum. For easy sharpening of twist drill bits 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 disc
- 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



Fig.: GQ-D13

### 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

### Scope of supply

- › Diamond grinding disc
- › Collet chuck holder

Model	GQ-D13
Article no.	3140020
<b>Technical data</b>	
Electrical connection	230 V/1 Ph ~50 Hz
Motor output	80 W
<b>Technical specifications</b>	
Speed (continuously variable)	4 200 rpm
Grinding wheel	Ø 78 mm
Grinding capacity drill bits	Ø 3 mm to Ø 13 mm
<b>Dimensions</b>	
Length x width x height	220 x 200 x 160 mm
Weight	2.5 kg

Accessories	Article no.
Replacement grinding disc	3140021
<b>Crystalline cubic boron nitride</b>	
Grain size: 170 - 200	
Applications: High-speed steel (HSS)	



## PREMIUM Bench grinding machines

GZ - DD Models with chassis and integrated extraction system

Facts that impress in terms of quality, performance and price

- ▶ **10-year OPTIMUM guarantee\***
- ▶ 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 discs
- ▶ Maintenance-free, durable, induction motor with smooth action
- ▶ Cast iron housing
- ▶ Spark guard
- ▶ Sturdy, adjustable workpiece support
- ▶ Grinding discs not included in standard scope of delivery

**GZ-DD models:**

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



Chassis	Article no.
› Without extractor	
<b>GZ 20D</b>	3091120
› L x W x H: 400 x 370 x 760 mm	
› Weight 33 kg	
<b>GZ 25D</b>	3091122
› L x W x H: 460 x 430 x 760 mm	
› Weight 40 kg	
<b>GZ 30D</b>	3091124
› L x W x H: 460 x 430 x 760 mm	
› Weight 52 kg	

Grinding disc	Article no.
› Pure corundum grinding disc	
› Hardness M - grey	
› Made in Italy	
<b>GRINDING DISC GZ 20D/DD</b>	
› Max. speed 3 345 rpm	
<b>K 36</b>	3098121
<b>K 60</b>	3098123
<b>K 80</b>	3098125
<b>GRINDING DISC GZ 25D/DD</b>	
› Max. speed 2 675 rpm	
<b>K 36</b>	3098131
<b>K 60</b>	3098133
<b>K 80</b>	3098135
<b>GRINDING DISC GZ 30D/DD</b>	
› Max. speed 2 230 rpm	
<b>K 36</b>	3098141
<b>K 60</b>	3098143
<b>K 80</b>	3098145

ELECTRONIC BRAKE	Article no.
	3091099

› Controlled braking

› Including factory assembly



\*“Warranty conditions” on page 253



Fig.: GZ 25DD with optional grinding discs

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	GZ 20D	GZ 25D	GZ 30D
Electrical connection	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor output	750 W	1.1 kW	1.8 kW
Grinding discs			
Dimensions	Ø 200 x 25 mm, Drill hole Ø 20 mm	Ø 250 x 30 mm, Drill hole Ø 25 mm	Ø 300 x 35 mm, Drill hole Ø 30 mm
Speeds	2 800 rpm	1 400 rpm	1 400 rpm
Dimensions			
L x W x H GZ-Models	550 x 290 x 360 mm	670 x 340 x 410 mm	810 x 420 x 560 mm
L x W x H GZ-DD models	800 x 710 x 1 300 mm	800 x 710 x 1 300 mm	810 x 1 200 x 1 300 mm
Weight GZ models	25 kg	44.8 kg	64.5 kg
Weight GZ-DD models	63.7 kg	91 kg	124 kg

**PREMIUM**

## Double grinder by OPTIMUM - quality products for trades and industry.

### Facts that impress in terms of quality, performance and price

- ▶ Heavy, durable industrial design with maintenance-free motor for continuous use
- ▶ GU housing made of strand cast aluminium
- ▶ Long service life and quiet action thanks to balanced rotor with quality ball bearings
- ▶ Spark guard on each grinding disc reduces flying sparks
- ▶ Viewing glass made of break-proof material
- ▶ Sturdy adjustable workpiece support
- ▶ Vibration-damping rubber feet
- ▶ Coarse and fine grinding disc (K36/K60) included in standard scope of delivery



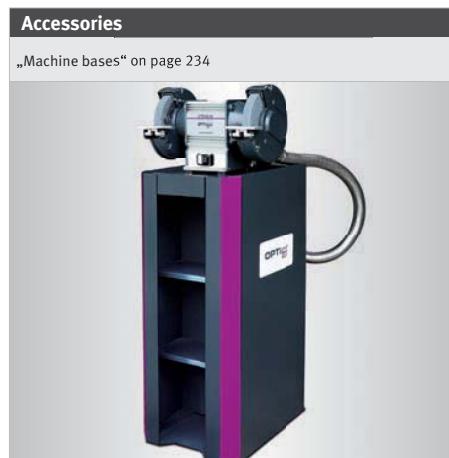
Fig.: SM 300



Fig.: GU 15 - GU 25

Grinding disc	Article no.
› Normal corundum grinding disc	
› Rough grain 36	
Ø 150 x 20 Ø 16 mm	3107150
Ø 175 x 25 Ø 32 mm	3107180
Ø 200 x 30 Ø 32 mm	3107210
Ø 250 x 40 Ø 32 mm	3107250
Ø 300 x 50 Ø 75 mm	3107270

Grinding disc	Article no.
› Normal corundum grinding disc	
› Fine grain 80	
Ø 150 x 20 Ø 16 mm	3107155
Ø 175 x 25 Ø 32 mm	3107185
Ø 200 x 30 Ø 32 mm	3107215
Ø 250 x 40 Ø 32 mm	3107255
Ø 300 x 50 Ø 75 mm	3107275



### Scope of supply

- › Grinding disc - normal corundum coarse 36 grain
- › Grinding disc - normal corundum fine 80 grain

Model	GU 15	GU 18	GU 20	GU 25	SM 300
Article no. (230 V)	3101505	3101510	3101515	-	-
Article no. (400 V)	-	-	3101520	3101525	3101303

Technical specifications	GU 15	GU 18	GU 20	GU 25	SM 300
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz	230 V / 400 V	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor output	450 W	450 W	600 W	1.5 kW	2.2 kW
Grinding discs	Ø 150 x 20 mm Drill hole Ø 16 mm	Ø 175 x 25 mm Drill hole Ø 32 mm	Ø 200 x 30 mm Drill hole Ø 32 mm	Ø 250 x 40 mm Drill hole Ø 32 mm	Ø 300 x 50 mm Drill hole Ø 75 mm
Dimensions					
Speeds	2 850 rpm	2 850 rpm	2 850 rpm	2 850 rpm	1 450 rpm
Extraction duct nominal width	Ø 34 mm	Ø 34 mm	Ø 34 mm	Ø 34 mm	Ø 35 mm / Ø 45 mm
Dimensions					
Length x width x height	389 x 205 x 265 mm	389 x 235 x 280 mm	495 x 260 x 330 mm	471 x 320 x 365 mm	680 x 375 x 394 mm
Weight	11 kg	14 kg	19 kg	33 kg	50 kg

## Vario drive with Siemens inverter drive for **PREMIUM** grinders.

### OPTION 1

#### Vario drive includes:

- ▶ Chassis with coolant tray
- ▶ Dimensions L x W x H: 400 x 370 x 760 mm
- ▶ **With Siemens inverter**
- ▶ Without grinder. This must be ordered separately along with your order

#### ▶ Siemens inverter 0.75 kW

- › **PREMIUM** double grinder **GZ 20D**
- › **PREMIUM** combined grinding machine **GZ 20C**

#### ▶ Siemens inverter 1.5 kW

- › **PREMIUM** double grinder **GZ 25D**
- › **PREMIUM** combined grinding machine **GZ 25C**

Description GZ 20C and GZ 25C see page 226

Description GZ 20 and GZ 25 see page 226

### OPTION 2

#### Vario drive:

Grinder with chassis is converted to Vario

#### ▶ **With Siemens inverter**

- ▶ Without grinder. This must be ordered separately along with your order

#### ▶ Siemens inverter 0.75 kW

- › **PREMIUM** double grinder **GZ 20DD**
- › **PREMIUM** combined grinding machine **GZ 20D/C**

#### ▶ Siemens inverter 1.5 kW

- › **PREMIUM** double grinder **GZ 25DD**
- › **PREMIUM** combined grinding machine **GZ 25D/C**

Description GZ 20D/C and GZ 25D/C see page 226

Description GZ 20DD and GZ 25DD see page 226

#### Circumferential speeds

- › GZ 25 controllable from 19 m/s to 3 m/s
- › GZ 20 controllable from 30 m/s to 5 m/s



Fig. Vario drive option 1  
Figure with optional grinder



Fig. Vario drive option 2  
Chassis with extraction unit  
Figure with optional grinder

Vario drive	<b>OPTION 1</b>
	<b>With chassis</b>
<b>Motor output up to 0.75 kW</b>	3010330
<b>Motor output up to 1.5 kW</b>	3010332

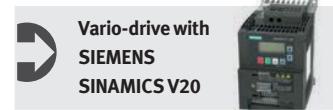
Without grinder - must be ordered separately along with your order

Note Vario drive can only be ordered ex works. Cannot be retrofitted

Vario drive	<b>OPTION 2</b>
<b>Motor output up to 0.75 kW</b>	3010340
<b>Motor output up to 1.5 kW</b>	3010342

Without grinder - must be ordered separately along with your order

**Vario drive with Siemens inverter drive Sinamics V20** makes it possible to steplessly control the speed of the grinder



## Vario drive with chassis GU 1

### Facts that impress in terms of quality, performance and price

- ▶ Cyclone vacuum integrated in chassis, consequently less space required
- ▶ Noise-insulated
- ▶ Lamp holder for LED 3-500
- ▶ Dimensions L x W x H: 477 (550) x 340 x 805 (890) mm
- ▶ **With Siemens inverter**



### Automatic start-up GU 1

When switching on and switching off the external device, the suction will start or stop automatically with a delay of 2-3 seconds. The additional activation or deactivation of the extraction is eliminated. The residual dust is sucked off after switching off the machine according to the Hazardous Substances Ordinance



Abb. GU 1 chassis with optional accessories

## Vario drive with chassis GU 3

- ▶ with coolant tray
- ▶ Dimensions L x W x H: 320 x 270 x 820 mm
- ▶ **Mit Siemens Inverter**



Abb. GU 3 chassis with optional accessories

	Siemens Inverter 0,75 kW	Siemens Inverter 1,5 kW
Vario-drive with chassis GU 1		
Art. no.	3010320	3010322
Vario-drive with chassis GU 3		
Art. no.	3010314	3010316
Without grinder - must be ordered separately along with your order.		
Circumferential speed	30 m/s to 5 m/sec variable	37 m/s to 6 m/sec variable
<b>Required machines</b>		
Combined grinding machine	› GU 20B	› GU 25B
Universal grinding machine	› GU 20S	› GU 25S
Bench grinder	› GU 20	› GU 25
› Polishing grinder	› GU 20P	› GU 25P

### 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

- **10-year OPTIMUM guarantee\***
- 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 disc and brush
- Maintenance-free, durable, induction motor with smooth action
- Cast iron housing
- Sturdy, adjustable workpiece support
- Grinding disc and brush not included in standard scope of delivery



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

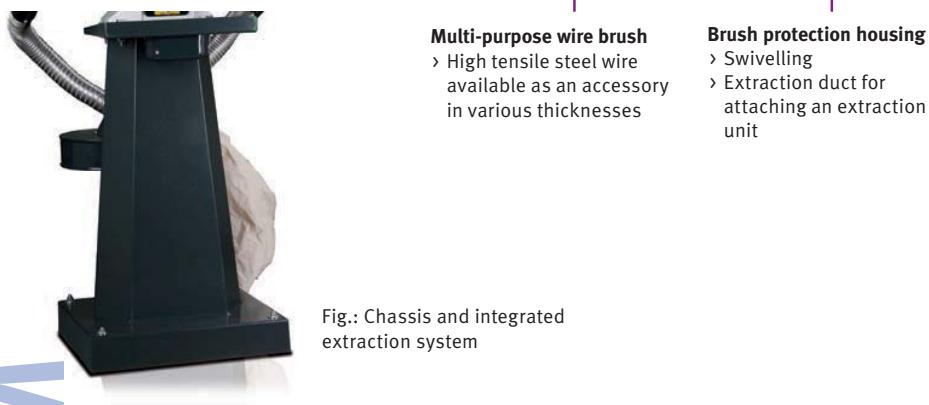


Fig.: Chassis and integrated extraction system

\*“Warranty conditions” on page 253

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 output	750 W	1.1 kW
Grinding discs		
Dimensions	Ø 200 x 25 mm, bore Ø 20 mm	Ø 250 x 30 mm, bore Ø 25 mm
Speeds	2 800 rpm	1 400 rpm
Dimensions		
L x W x H GZ-Models	650 x 300 x 360 mm	850 x 340 x 410 mm
L x W x H GZ-CD models	900 x 710 x 1 300 mm	850 x 1 200 x 1 300 mm
Weight GZ-C models	26.5 kg	40.7 kg
Weight GZ-CD models	65 kg	87 kg

Chassis	Article no.
> Without extractor	
<b>GZ 20C</b>	3091120
> L x W x H: 400 x 370 x 760 mm	
> Weight 33 kg	
<b>GZ 25C</b>	3091122
> L x W x H: 460 x 430 x 760 mm	
> Weight 40 kg	



Grinding disc	Article no.
> Pure corundum grinding disc	
> Hardness M - white	
> Made in EU	
<b>GZ 20C/GZ 20CD</b>	
<b>K 36</b>	3098121
<b>K 60</b>	3098123
<b>K 80</b>	3098125
<b>GZ 25C/GZ 25CD</b>	
<b>K 36</b>	3098131
<b>K 60</b>	3098133
<b>K 80</b>	3098135

Round brush	Article no.
> High tensile steel wire	
> Made in EU	
<b>GZ 20C/GZ 20CD</b>	
<b>0.35 mm</b>	3098081
<b>0.5 mm</b>	3098082
<b>GZ 25C/GZ 25CD</b>	
<b>0.3 mm</b>	3098086
<b>0.5 mm</b>	3098087

Electronic brake	Article no.
	3091099

- > Controlled braking
- > Including factory assembly



## Polishing machines for surface machining of 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
- ▶ Vibration-damping rubber feet
- ▶ Two wide polishing discs included in standard scope of delivery



Polishing disc	Article no.
> hard	
Ø 200 x 20 Ø 16 mm	3107321
Ø 250 x 25 Ø 20 mm	3107331

Polishing disc	Article no.
> soft	
Ø 200 x 20 Ø 16 mm	3107320
Ø 250 x 25 Ø 20 mm	3107330



Fig.: GU 20P

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

Technical data		
Electrical connection	230 V / 1 Ph or 400 V / 3 Ph	400 V/3 Ph ~50 Hz
Motor output	600 W	1.5 kW
Rotational speed	2 850 rpm	2 850 rpm
Polishing disc size	Ø 200 x 20 mm	Ø 250 x 25 mm
Dimensions L x W x H	545 x 200 x 262 mm	555 x 250 x 296 mm
Weight	10.6 kg	17.4 kg

Accessories
„Machine bases“ on page 234

## Combined grinding machines by Optimum for workshops

### Facts that impress in terms of quality, performance and price

- Durable design with maintenance-free motor for continuous use
- Housing made of strand cast aluminium
- Large, heavy fastening flanges ensure excellent disc concentricity
- 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



**Multi-purpose wire brush**  
► High tensile steel wire

Grinding disc	Article no.
► Normal corundum grinding disc	
► Rough grain 36	
Ø 150 x 20 Ø 16 mm	3107150
Ø 175 x 25 Ø 32 mm	3107180
Ø 200 x 30 Ø 32 mm	3107210
Ø 250 x 40 Ø 32 mm	3107250

Grinding disc	Article no.
► Normal corundum grinding disc	
► Fine grain 80	
Ø 150 x 20 Ø 16 mm	3107155
Ø 175 x 25 Ø 32 mm	3107185
Ø 200 x 30 Ø 32 mm	3107215
Ø 250 x 40 Ø 32 mm	3107255

Multi-purpose wire brush	Article no.
► Thickness 0.3 mm	
Ø 150 x 20 Ø 16 mm	3107425
Ø 175 x 20 Ø 32 mm	3107430
Ø 200 x 20 Ø 32 mm	3107435
Ø 250 x 20 Ø 32 mm	3107440



### Accessories for machine bases

„Machine bases“ on page 234

Scope of supply
► Grinding disc - normal corundum coarse 36 grain
► Multi-purpose wire brush, wire thickness 0.3 mm

Model	GU 15B	GU 18B	GU 20B	GU 25B
Article no. (230 V)	3101600	3101605	3101610	-
Article no. (400 V)	-	-	3101615	3101620

Technical specifications	GU 15B	GU 18B	GU 20B	GU 25B
Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz	230 V / 400 V	400 V/3 Ph ~50 Hz
Motor output	450 W	450 W	600 W	1.5 kW
Dimensions				
Grinding discs	Ø 150 x 20 mm Drill hole Ø 16 mm	Ø 175 x 25 mm Drill hole Ø 32 mm	Ø 200 x 30 mm Drill hole Ø 32 mm	Ø 250 x 40 mm Drill hole Ø 32 mm
Multi-purpose wire brush	Ø 150 x 20 mm Drill hole Ø 16 mm	Ø 175 x 20 mm Drill hole Ø 32 mm	Ø 200 x 20 mm Drill hole Ø 32 mm	Ø 250 x 20 mm Drill hole Ø 32 mm
Speeds	2 850 rpm	2 850 rpm	2 850 rpm	2 850 rpm
Dimensions				
Length x width x height	495 x 305 x 305 mm	495 x 305 x 305 mm	580 x 345 x 335 mm	650 x 380 x 385 mm
Weight	11 kg	13 kg	17 kg	30 kg

## 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 disc for a variety of materials
- Heavy, durable industrial design with maintenance-free motor for continuous use
- Housing made of strand cast aluminium
- Large, heavy fastening flanges ensure excellent disc concentricity
- Grinding attachment with graphite support; prevents friction and heat
- Stop allows for fast and convenient initial grinding of the workpieces
- Belt run adjustment without tools - adjustable using a single star knob
- Universal corundum grinding disc and grinding belt included in standard scope of delivery



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

Technical specifications	GU 20S	GU 25S
Electrical connection	230 V or 400V ~50 Hz	400 V/3 Ph ~50 Hz
Motor output	600 W	1.5 KW
Grinding discs		
Grinding disc size	Ø 200 x 30 mm Drill hole Ø 32 mm	Ø 250 x 40 mm Drill hole Ø 32 mm
Grinding attachment		
Grinding belt length, width	75 x 762 mm	75 x 1 016 mm
Grinding attachment swivel range	90°	90°
Extraction duct nominal width	Ø 32 mm	Ø 32 mm
Grinding support	87 x 180 mm	87 x 305 mm
Rotational speed	2 850 rpm	2 850 rpm
Dimensions L x W x H	501 x 261 x 459 mm	514 x 319 x 596 mm
Weight	20.7 kg	31.5 kg

Grinding disc	Article no.
► Normal corundum grinding disc	
► Rough grain 36	
Ø 200 x 30 Ø 32 mm	3107210
Ø 250 x 40 Ø 32 mm	3107250

Grinding disc	Article no.
► Normal corundum grinding disc	
► Fine grain 80	
Ø 200 x 30 Ø 32 mm	3107215
Ø 250 x 40 Ø 32 mm	3107255

Grinding belt	PQ	Article no.
► For GU 20S		
► Sanding belt size 75 x 762		
Grain size 40	5 pcs.	3357612
Grain size 40	5 pcs.	3357614
Grain size 80	5 pcs.	3357616
Grain size 120	5 pcs.	3357618
Grain size 180	5 pcs.	3357619
Grain size 240	5 pcs.	3357620

Grinding belt	PQ	Article no.
► For GU 25S		
► Sanding belt size 75 x 1 016		
Grain size 40	5 pcs.	3357682
Grain size 40	5 pcs.	3357684
Grain size 80	5 pcs.	3357686
Grain size 120	5 pcs.	3357688
Grain size 180	5 pcs.	3357689
Grain size 240	5 pcs.	3357690



Scope of supply
► Grinding disc normal corundum fine 80 grain
► Grinding belt normal corundum fine 80 grain

## GU 1 - Machine chassis with cyclone extractor for grinding machines

### Facts that impress in terms of quality, performance and price

- ▶ Sturdy chassis
- ▶ Cyclone vacuum integrated in chassis, consequently less space required
- ▶ For GU and GU-S machines
- ▶ Noise-insulated
- ▶ Without drilled holes - must be drilled individually
- ▶ Y adapter for two-tube extraction unit connection, Ø 30 mm and Ø 35 mm



**Lamp holder**

- ▶ prepared for machine lamp LED 3-500

Model	GU 1	
Article no.	3107110	3107109
Elec. connection	230 V / 1 Ph	400 V / 3 Ph
Motor output		1.3 kW
Rotational speed		29 000 rpm
Air throughput		2.3 m³ per minute
Dimensions	477 (550) x 340 x 805 (890) mm	
Weight		44 kg

Note: The extraction unit needs a neutral conductor, 400-V version

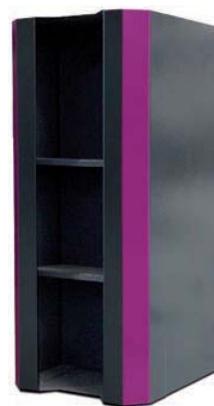
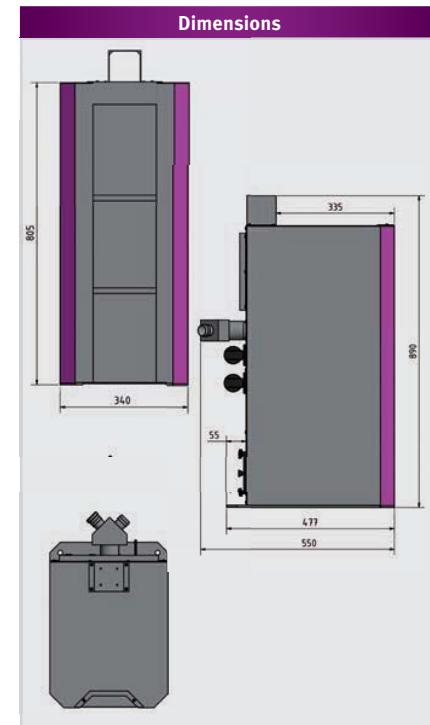


Fig. with optional grinder and extraction tubes



**Extraction hose** | 3107111

- 2 flexible extraction hoses for GU and GU-S grinders

### Automatic start-up GU 1 and GU 2

When the external device is switched on, the extraction unit automatically starts up after a delay of 2-3 seconds. No need to additionally switch the extraction unit on or off: the residual dust is extracted after switching off the machine in line with the Hazardous Materials Ordinance

## GU 2 - Machine chassis with extraction unit for OPTIMUM machines such as the BSM or external machines

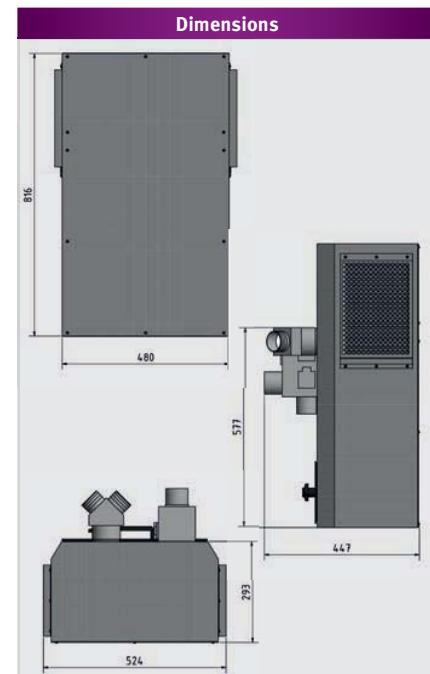
### Facts that impress in terms of quality, performance and price

- ▶ Cyclone extraction unit with two motors
- ▶ Includes Y adapter for two-tube extraction unit connection, 60 x 300-1000 mm flexible
- ▶ Small footprint
- ▶ Noise-insulated
- ▶ External 230V continuous supply

Model	GU 2	
Article no.	3107115	
Elec. connection	400 V / 3 Ph	
Total connected load		4 kW
Motor output per blower		1.3 kW
Number of blowers		2
Rotational speed		29 000 rpm
Air throughput		4.6 m³ per minute
Chip filter container volume		15 litres
Dimensions L x W x H	525 x 440 x 815 mm	
Weight		60 kg



**Chip drawer**



**Extraction hose** | 3107116

- 2 pcs. flexible extraction tube Ø 60 mm
- Length 300 - 1000 mm

The chassis GU 1 and GU 2 comply with the DIN EN 55011 standard: class C2.

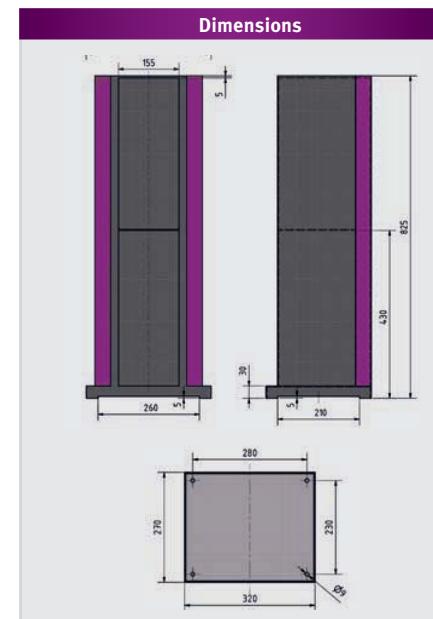
Note: The extraction unit needs a neutral conductor

## GU 3 - Machine chassis

### Facts that impress in terms of quality, performance and price

- ▶ Coolant tray
- ▶ Small footprint
- ▶ Specially suited for our machines
  - › Bench grinders GU 15 - GU 25
  - › Universal grinding machines GU 20S and 25S
  - › Combined sander GU 15B - GU 25B
  - › Polishing machines GU 20P and GU 25P

Model	GU 3
Article no.	3107118
Dimensions	320 x 270 x 825 mm
Weight	14.5 kg



## Machine chassis

### Facts that impress in terms of quality, performance and price

- ▶ Closed chassis
- ▶ Solid design
- ▶ Specially suited for our machines
  - › Bench grinders SM 300

Model	Chassis
Article no.	3107103
Dimensions	505 x 600 x 790 mm
Weight	23 kg

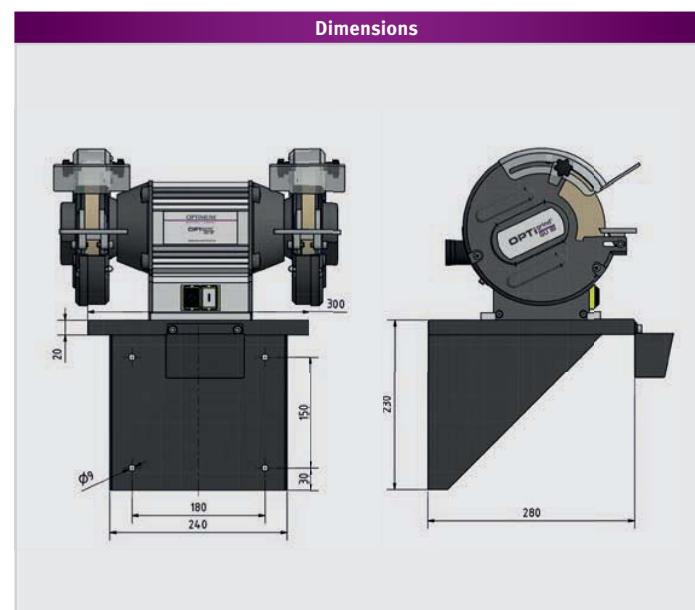


## Wall holder

### Facts that impress in terms of quality, performance and price

- ▶ Coolant tray
- ▶ L x W x H: 332 x 300 x 230 mm
- ▶ Specially suited for our machines
  - › Bench grinders GU 15 - GU 25
  - › Universal grinding machines GU 20S and 25S
  - › Combined sander GU 15B - GU 25B
  - › Polishing machines GU 20P and GU 25P

Model	Wall holder
Article no.	3107050



**Heavy and rugged industrial design belt grinding machine** for roughing, finishing and profile grinding of various materials in continuous operations

**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 pivots through 15° - 30°
- ▶ Continuously adjustable top stop supports fast and convenient initial grinding of workpieces
- ▶ Large flat grinding surface
- ▶ Adjustable stops for universal deployment
- ▶ Operating tools in practical holder
- ▶ Additional safety device
- ▶ Fast belt running speed of 33 m/sec. for fast material removal
- ▶ Extraction duct front and rear for attaching an extraction unit
- ▶ Spark guard
- ▶ Workpiece support with adjustable tilt angle allows grinding at the required angle
- ▶ One grinding belt included in standard scope of delivery



**Flat grinding surface**

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



Fig.: BSM 150



**Rollers**

- › Rubberised
- › Quiet action
- › Prevents the belt slipping

**Workpiece support**

- › Continuously adjustable; supports fast initial grinding

For BSM 75	3357881
For BSM 150	3357891



**Grinding belts  
BSM 75\***

Article no.	PQ
3357642	5 units
3357644	5 units
3357646	5 units
3357648	5 units
3357649	5 units
3357650	5 units

**Sanding belts  
BSM 150**

Article no.	PQ
3357672	5 units
3357674	5 units
3357676	5 units
3357678	5 units
3357679	5 units
3357680	5 units



Model	BSM 75	BSM 150
Article no.	3321075	3321150

Technical data	BSM 75	BSM 150
Electrical connection	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
Motor output	3 kW	4 kW
Speeds		
Rotational speed	3 000 rpm	3 000 rpm
Circumferential belt speed	33 m/sec.	33 m/sec.
Grinding belt		
Grinding belt dimensions	75 x 2 000 mm	150 x 2 000 mm
Dimensions		
Extraction duct nominal width inside	Ø 57 mm	Ø 57 mm
Extraction duct nominal width outside	Ø 60 mm	Ø 60 mm
Dimensions length x width	500 x 995 mm	575 x 995 mm
Height: Bottom pivot bearing	1 045 mm	1 045 mm
Height: Top pivot bearing	1 135 mm	1 135 mm
Weight	98 kg	125 kg

**Scope of supply**

- › Grinding belt 60 grain
- › Allen key

## Universally deployable belt and disc grinding machine with swivelling grinding arm for deburring, surface and profile grinding

### Facts that impress in terms of quality, performance and price

- ▶ Powerful motor
- ▶ Pneumatic sanding belt tension manually adjustable
- ▶ Easily replaceable grinding belt
- ▶ Fine adjustment for parallel belt run
- ▶ Pivoting grinding table, adjustable via clamping lever
- ▶ Extraction port
- ▶ Delivered with grinding sheet bonded onto grinding disc
- ▶ The hook and loop fastener pad and grinding discs available as accessories offer good adhesion and easy replacement

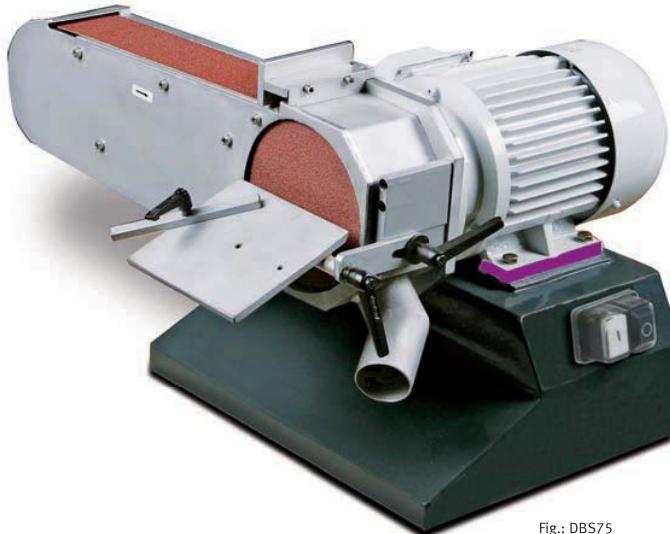


Fig.: DBS75

### Scope of supply

- › Grinding belt 60 grain
- › Grinding sheet 60 grain

Model	DBS 75
Article no.	3311075

### Technical specifications

Electrical connection	400 V/3 Ph ~50 Hz
Motor output	1.1 kW
<b>Rotational speed</b>	1 410 rpm
Belt running speed	11 m/sec.
<b>Dimensions</b>	
Grinding belt dimensions	75 x 1 180 mm
Grinding disc dimensions	Ø 150 mm
Extraction duct nominal width inside	Ø 47 mm
Extraction duct nominal width outside	Ø 50 mm
Grinding support	85 x 215 mm
Swivel range belt grinding table	90°
Length x width x height	665 x 560 x 405 (765) mm
Weight	68 kg

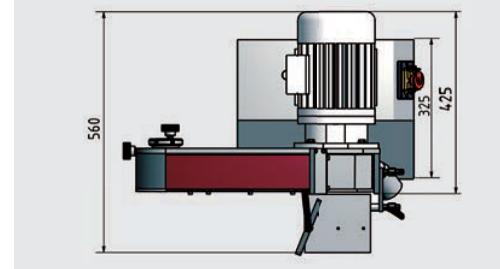
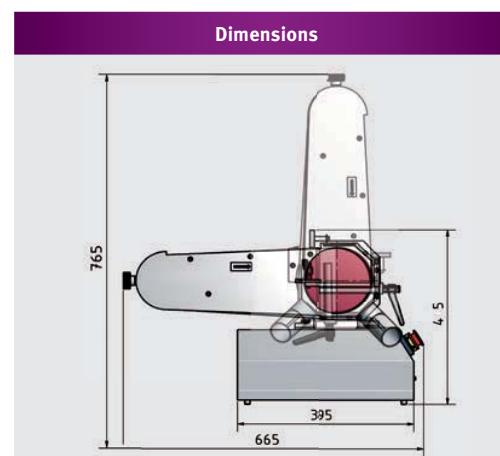
Grinding belt	Article no.	PQ
› Size: 75 x 1 180 mm		
<b>Grain size 40</b>	3357622	5 units
<b>Grain size 40</b>	3357624	5 units
<b>Grain size 80</b>	3357626	5 units
<b>Grain size 120</b>	3357628	5 units
<b>Grain size 180</b>	3357629	5 units
<b>Grain size 240</b>	3357630	5 units



Grinding sheet	Article no.	PQ
› Size: Ø 150 mm		
<b>Grain size 40</b>	3357832	5 units
<b>Grain size 40</b>	3357834	5 units
<b>Grain size 80</b>	3357836	5 units
<b>Grain size 120</b>	3357838	5 units
<b>Grain size 180</b>	3357839	5 units
<b>Grain size 240</b>	3357840	5 units



<b>Hook and loop disc</b>	3357802
› For the grinding disc. Good grinding disc adhesion, easy replacement	



## 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 disc for smooth action
- ▶ Powerful motor
- ▶ Delivered with grinding sheet bonded onto grinding disc



Fig.: TS 305



- › Factory standard extraction duct with two diameters for attaching an extraction unit
- › Outside nominal width  $\pm \varnothing 30/\varnothing 38$  mm



- › Factory standard mitre stop pivots up to  $\pm 60^\circ$
- › Grinding table pivots up to  $\pm 45^\circ$



- › Hook and loop fastener pad for grinding disc available as optional accessory. Good grinding disc adhesion, easy replacement

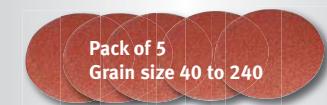
### Scope of supply

- › Adjustable angle stop
- › Grinding sheet

Model	TS 305
Article no.	3310305
<b>Technical specifications</b>	
Electrical connection	230 V/1 Ph ~50 Hz
Motor output	900 W
<b>General instructions</b>	
Grinding disc	$\varnothing 305$ mm
Rotational speed	1 420 rpm
Table support	155 x 440 mm
Adjustment of angle stop	$\pm 60^\circ$
Pivoting grinding table	$\pm 45^\circ$
<b>Dimensions</b>	
Length x width x height	440 x 445 x 365 mm
Weight	30 kg

Accessories	Article no.
Hook and loop fastener pad	3357801

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



## Please note

- › These offers are intended exclusively for business owners, retailers and tradespersons who are making a purchase in pursuit of their profession or self-employment. This is an explicit CONDITION FOR THE CONCLUSION OF A CONTRACT. Consumers are not eligible to purchase as per Section 13 BGB (German Civil Code)
- › We accept no liability for printing errors, mistakes or incorrect representation.
- › Subject to technical modifications and visual changes.
- › Illustrations show optimal accessories in some cases
- › Delivery is effected solely on the basis of our terms of delivery and payment.
- › The machines are delivered partly knocked down for transportation reasons.
- › All items are sold through specialist retailers.
- › The goods shall remain our property until payment has been received in full.
- › Our retention of title shall remain valid in case of sale to a third-party.
- › Legal warranty conditions apply for businesses.
- › Copying and reproduction in full or in part is subject to written approval by us.
- › Please note that transport packaging surcharges apply for some machines in this catalogue to cover transport units, packaging and packaging overheads.

## Warranty conditions

- › Independently of your legal warranty entitlement, OPTIMUM provides a guarantee on the basis of the following provisions for the period as stated in the catalogue for the respective machine; the guarantee period starts on the date of sale of the machine to the end customer. OPTIMUM offers a guarantee on catalogue products where a guarantee is specifically indicated. The guarantee exclusively covers defects resulting from material or manufacturing errors. The warranty exclusively covers spare parts but not the transport and installation costs or labour and ancillary services necessary for eliminating defects. The guarantee excludes unintended use or improper application such as overloading of the machine or the use of non-approved and unsuitable tools, use of force, damage caused by external influences or by foreign bodies, e.g., dust, chips or stones, damage caused by failure to observe the Operating Instructions, e.g., connection to the wrong mains voltage or current, failure to observe assembly instructions, conversions and extensions carried out by the customer, as well as normal wear. The guarantee also excludes partially or fully disassembled machines and machine tools. When claiming against guarantee/warranty, you must submit the original sales receipt showing the date of purchase. Repairs under guarantee/warranty may be performed by authorised partners only who will be named by the guarantee/warranty provider. The guarantee/warranty is restricted to the end customer of the new machine and is not transferrable.

## General notes on operating our machines

- › Our machines must be supervised at all times during operation. Leaving the machine during operations constitutes gross negligence.
- › The details on machine precision are found in the technical data of the catalogue pages. If you do not find any values here, please contact [info@optimum-maschinen.de](mailto:info@optimum-maschinen.de) for more detailed information.
- › The stated precisions are achieved under standardised conditions (correct installation of the machine and ambient temperature of 20 °C). The machines are not designed for continuous operation.
- › Please note that operators are required to make conversions in the event of installing third-party chucks or flanged chucks to reach the stated, technically possible rotating diameter.

## Operation of machines with frequency converters

### › Electrical connection only by a qualified electrician

Machines with frequency inverters or inverters must not be operated via an ordinary plug. A permanent connection is required. The drive components conduct a high leakage current via the protective conductor. Touching conductive parts when the protective conductor is interrupted can result in death or serious injury.

### › Building electrics:

In order to avoid tripping of residual current circuit breakers - if present in the building electrics - an all-current-sensitive residual current circuit breaker type B is required.

AC - sensitive AC type RCDs (AC only) are not suitable for frequency inverters. AC sensitive earth-leakage circuit breakers of type AC are no longer in use and are no longer permitted in Germany.



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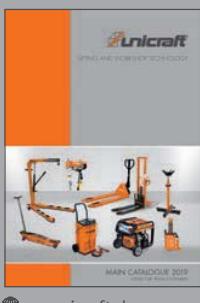
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