

precision grinding machines for musical knives

poligraphy

but 191.93



and industry





European Union European Regional Development Fund



GRAFS



Text translation from the right

We bought the grinder GR from GRAFS company and we are very satsfied with it.

 we use the machine to sharpen chipper knives and planer knives

- the machine's construction is very robust and precise

- the control with german's language touch panel is simple and intuitive

- the delivery time was as agreed

- the commissioning was simple and we could handle

it ourselves, thanks to the clear user manual

- for us, it is important that we grind not only chipper knives and planer knives but also all other fl at surfaces. In parti cular, the guides for our saw frames (EWD HDN-600) can be resharpened very precisely. It is an advantage for us to be able to do this all ourselves.

DI. Johannes Zwickl



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Solvere, am9. Miles 2022

Cehr geeinter Hein Zykowski, Die können geme meine Firme Holgtechnik Zwickt Ombit A-0043 Schrems, Behretreße 60

ab Referenz für Ihr Marketing verwenden.

Wir haben von Ihnen eine Schleifmaschine OR 180 gelauft und sind sehr Eufrieden damit.

- wit verwenden die Maschine zum Schleifen von Hackmessem und Hobelmessem

die Ausf
ührung ist sehr robust und geneu.

- die Steverung mit deutscher Touch-Tastatur einfach und unkompfiziert

- die Lieferung und Lieferzeit ist wie vereinbart

- die Inbebiebnahme einfach und durch Bebiebs anleitung seitsterk tärend

Für um war iss mühlig, dass wir nicht nur Hauhmesser und Hobelmesser uchäften können, sondern auch alle anderen Anwendungen im Längsschäft. Besonden die Führungen für Stagwarber (WTM) DHO-600 (seen sich demit wieder sehr genau nechschleiten und ist für um ein Genitm, das selbat machen zu können.

Mit freundiktien Griffien Hohmetholk Zwicki Gerteil

DI. Johannes Zwiel I



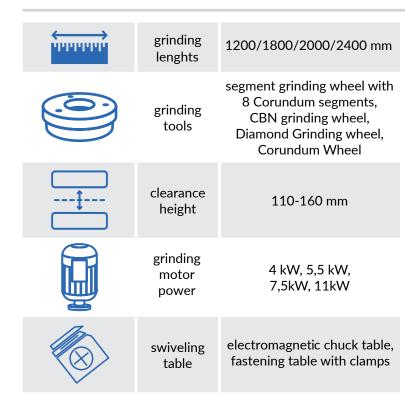


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Following parameters of the grinder can be adjusted to client's needs

Why is the purchase of our machine profitable ?

If you spend monthly 500 € for sharpening industrial knives, the investment in the purchase of the grinder will pay off aft er 4 years!



Our grinders are the best for sharpening:

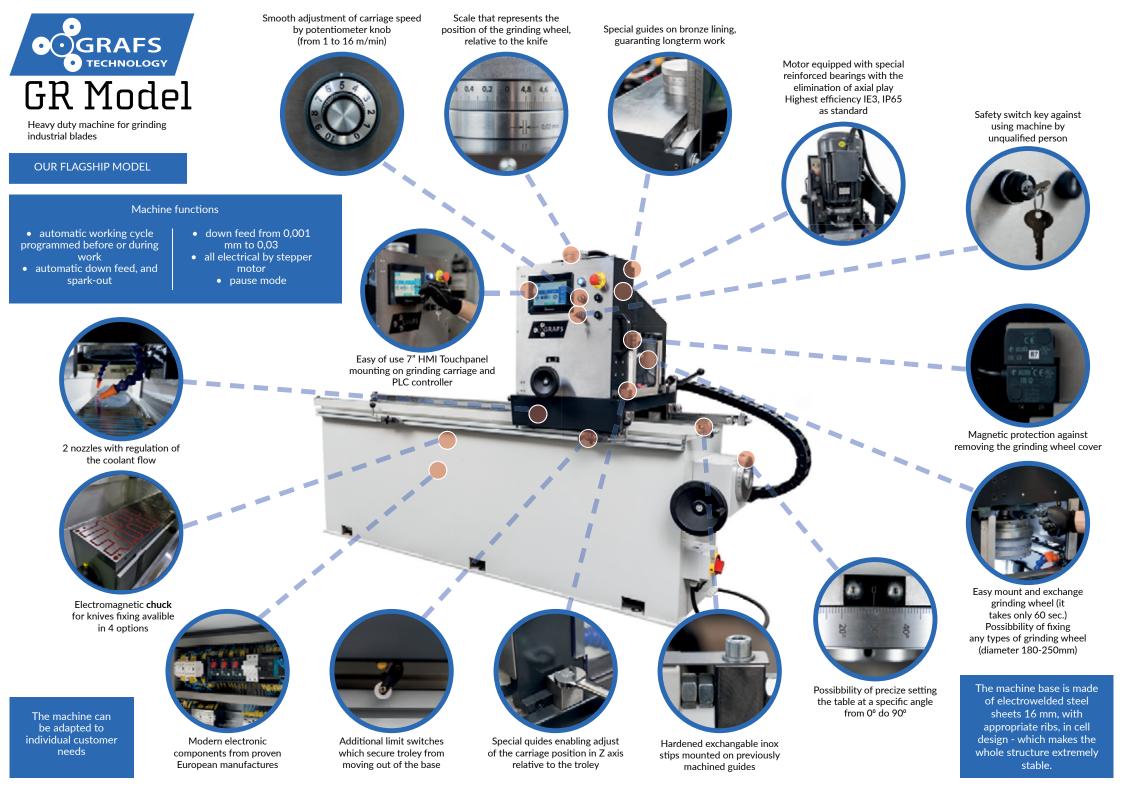
cutter knives veneer knives plywood knives chipper knives crusher knives shredding knives mill knives granulator fixed knives paper guillotine knives bottom knives trimmer knives cutter knives







	SR	GR	
Max grinding lenght	1200 mm , 1800 mm, 2100 mm, 2400 mm	1200 mm, 1800 mm, 2100 mm, 2400 mm	
Max grinding width	180 mm	180 mm	
Type of fixing the knives	 "T" slot table with clamps Manual clamped magnetic - neo- dymium chuck (60N/cm²) + "T" slot chuck with clamps 	 "T" slot table with clamps Electromagnetic chuck (90N/cm²) + "T" slot table with clamps 	
Swivel range magnet	+ / - 90 ° (Polarity 20 mm)	+ / - 90 ° (Polarity 20 mm)	
Type of downfeed system	Manual (by hand wheel)	Electrical (by stepper motor) from 0,001 mm	
PLC	no	yes	
Functions	Semi-auto	Auto (programmed on the panel)	
Grinding motor speed	1400 rpm (switched right/left)	1400 rpm (switched right/left)	
Carriage speed	1m/min - 12m/min (smooth regulation)	1m/min - 16m/min (smooth regulation)	
Grinding motor power	4 kW , 5,5 kW, 7,5 kW	5,5 kW, 7,5 kW, 11kW	
Grinding motor swivel	+ / - 10 °	+ / - 10 °	
Lenght x width of the machine according to max grinding length	2200 x 1000 mm (for 1200 mm grinding length) 2800 x 1000 mm (for 1800 mm grinding length) 3000 x 1000 mm (for 2000 mm grinding length) 3400 x 1000 mm (for 2400 mm grinding length)	2200 x 1000 mm (for 1200 mm grinding length) 2800 x 1000 mm (for 1800 mm grinding length) 3000 x 1000 mm (for 2000 mm grinding length) 3400 x 1000 mm (for 2400 mm grinding length)	
Coolant filtration	Yes (by external separator)	Yes (by external separator)	
Grinding wheel (every type: corundum, CBN, DIA, Grinding wheel with segments)	Φ 150 - 250 mm	Φ 180 - 250 mm	



Types of swiveling tables

In both griding machines, it is possible to install one of two types of magnetic swivelling tables. Each of the tables allows for grinding flat surfaces.



Steel plate with "T" chanel

In addition, one of the sides of each magnetic swivelling chuck has the option of fastening the knives with clamps, useful for non-magnetic blades (e.g. cemented carbides).



Electromagnetic chuck table

The electromagnetic swivelling chuck allows for greater knife attraction force, therefore, working with heavier knives and easier knife releasing after grinding.

We invite you to free of charge consultation that will help to determine what kind of the swivelling chuck will meet most of your business challenges.



electromagnetic knife holder



"T" slot table with clamps



function of flat surface grinding

Grafs - Grinding tools



Φ250 mm			
For hard steel 58-60 HRC (Chipper blades)	For HSS knives used mainly in paper and printing industry	For hard steel 58-60 HRC (Chipper blades)	Standard steel, SS

We provide grinding tools dedicated to our grinders.

Their quality and price encourage many companies to use them in their daily work.

We provide the necessary technical documentation to our customers who want to make their grinding tools by themself.

Touch panel

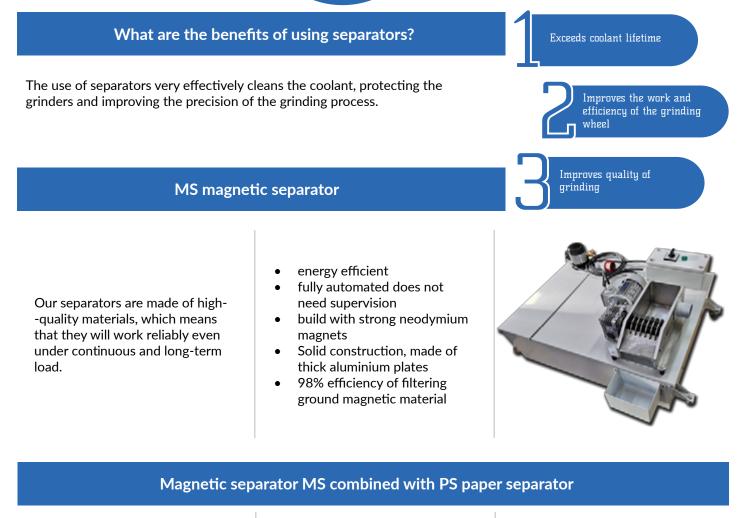




Transparent functi ons on the panel allow for easy and effi cient operati on of the machine. Functions programmed on the panel:

- down feed from 0,001 mm up to 0,03 mm,
- number of grinding passes,
- number of sparking out passes,
- coolant flow on/off
- turning on fast grinding wheel exchange (fast ride up of the grinding motor)

All functions are displayed on the panel by the special icons during each process.





The combination of two kinds of separators results in 99% efficiency in filtering magnetic and non-magnetic bits and lets to use coolant for a way longer period. Capaciti ve sensor for filtered liquid. When the defined level is exceeded, the fabric is rewound automatically what results in spending up of the filtration process.



We proudly present to you the result of our work. We are confident that our grinder will work well and reliably for the needs of your business.

Project and supervisory team GRAFS

GRAFS Technology is a producer of high-performance grinding machines for sharpening industrial knives.

Since 2011, we support partners from the printing industry in the field of technical and service. We also provide knife sharpening services for companies from various industries.

Driven by passion and supported by 35 years of technical experience, we decided to create a universal machine for sharpening straight knives of all types.

Our numerically controlled grinders are designed for many sectors of industry: metal proseccing, wood, printing, packaging, and mainly the recycling industry.

We provide service, machine installation, training and professional assistance in choosing the right materials, accessories and operating parameters.

COMPREHENSIVE TECHNICAL SUPPORT

For our part, we provide full technical support related to the purchase of our machines and devices. We have been involved in technical service and machine relocation for 8 years. We know how important today is the reliability and continuity of machine operation, where so many manufacturers are focused on after-sales service in the form of distribution of spare parts.

That is why we strive to manufacture machines that meet the highest standards of durability, providing the user with many years of trouble-free operation.

We offer our clients advice on adjusting machine parameters and material consulting. On request, we can provide and install machine at the customer's premises.

We are proud member of METAL PROCESSING CLUSTER KEY NATIONAL CLUSTER WWW.metalklaster.pl/en

"Quality means doing it right when no one is looking"

Henry Ford









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