



## GRINDING MACHINES

**Kaindl®**  
SCHLEIFTECHNIK

MADE IN GERMANY



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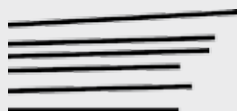
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**FROM THE EMERY FILE ...**

**... TO THE CNC-GRINDING MACHINE**



It all started at KAINDL with the production of simple emery wheels in the private garage of Reinhold Reiling, who would later found the company. In the early days he only supplied the jewellery and watch industry based in Pforzheim.

After the company was founded in 1972 and his brother Karl Reiling joined, we invented the first usable grinding attachment for drills, the „uni-grinder“. Extremely successful marketing of this tool at trade fairs also presented an opportunity for further dialogue with users. We continually refined and improved our grinding tools by tackling problems systematically.

The first step had been taken to creating our first, simple tool grinding devices. These devices were rapidly honed and finally fitted with their own motor. KAINDL's first drill bit grinder, BSG 20, was complete.

40 years after we were founded, we now offer more than ten different grinding machines and a wealth of innovative tools.

Take a look for yourself on [www.kaindl.de](http://www.kaindl.de), Facebook or YouTube.





**KAINDL TODAY...**

**...AND TOMORROW**



We currently employ 49 staff at our Königsbach-Stein plant. Our tools and machines are available in over 30 countries. You can find Kaindl products at all leading technical trade fairs in Germany and abroad.

Visit our homepage for an up-to-date overview:  
[www.kaindl.de/de/messen-exhibitions](http://www.kaindl.de/de/messen-exhibitions)



The production plants in Königsbach-Stein were last extended by 700m<sup>2</sup> in 2008. The buildings were fully modernised in 2012. Our focus here was on sustainability and energy efficiency.

As part of our extensive energy-saving measures, for example the complete lighting system in all our operational premises has been switched to state-of-the-art LED lights. Our efforts have resulted in an energy saving of 18,000 kWh per year. Since the installation of two photovoltaic plants, they have produced more energy than we use. Kaindl's production and administration are therefore both CO<sub>2</sub>-neutral.



# DRILL GRINDING MACHINE BSG 20/2

ITEM NO. 17651

## Precise, simple, solid

Our entry-level model for simply resharpening of twist drills from Ø 2 – 20 mm.

- ✓ ensures highest cutting edge symmetry
- ✓ quick and easy handling
- ✓ sharpens twist drills from Ø 2 – 20 mm
- ✓ Special drills: step drills, sheet metal- and wood drills
- ✓ compact construction

Introductory video:

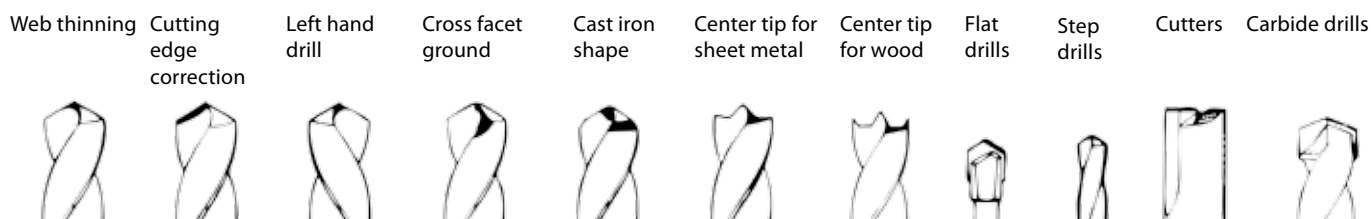


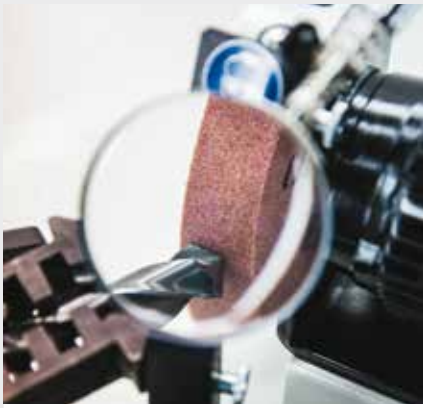
## TECHNICAL DATA

Clamping range: Ø 2 to 20 mm  
Corundum wheel: 125 x 20 x 20 x 75 mm  
Motor: 230 V, 50 – 60 Hz, 120 W (also available 110 V, 50 Hz)  
Weight net: 13,5 kg  
Revolutions: 2840 rpm<sup>-1</sup>  
Clearance- and top angle: to be adjusted stepless  
Dim (L x W x H): 290 x 220 x 250 mm  
Adjustable motor unit

## BASIC VERSION

- Corundum wheel Ø 125 mm, grit 80
- Optic with exible goose neck
- Grinding wheel dresser with diamond





#### Corundum grinding wheel

- Item No. 10535** Grit 60 125 x 20 x 20 mm (coarse)
- Item No. 10529** Grit 80 125 x 20 x 20 mm (standard)
- Item No. 10530** Grit 180 125 x 20 x 20 mm (fine)
- Item No. 10532** Grit 100 125 x 05 x 20 mm (HSS-wood drills)
- Item No. 10533** Grit 100 125 x 10 x 20 mm



#### Diamond grinding wheel

- Item No. 14580** wide, complete with support 125 mm, covered on 3 sides, D76/3 for carbide drills
- Item No. 14581** thin, complete with support 125 mm, covered on 3 sides, D76/3 for carbide drills
- Item No. 16490** CBN-grinding wheel B76 (standard)
- Item No. 17073** CBN-grinding wheel B126
- Item No. 17556** CBN-grinding wheel B46



#### Cleaning- and sharpening stone

- Item No. 15855** for diamond grinding wheels



- Item No. 18658** Grinding wheel fixture



#### Morse taper sleeve

- Item No. 10542** for short MK1 drills
- Item No. 10543** for short MK2 drills



- Item No. 10528** Magnetic depth stop for cutter



#### Support sleeve for short welding point bits

- Item No. 10900** 5 and 6 mm
- Item No. 10976** 8 and 10 mm



# DRILL GRINDING MACHINE BSM 20

ITEM NO. 17776

## Quick, easy handling

Our model for success for the upper claim for twist drills from Ø 2 – 20 mm. Approved patented prism reversing systems ensures top level cutting edge symmetry!

- ✓ simplest handling
- ✓ sharpens twist drills in the range of Ø 2 – 20 mm
- ✓ clearance- and top angle stepless adjustable
- ✓ web thinning
- ✓ optional: countersink sharpening device SVR 20
- ✓ dimensionally stable CBN grinding wheel

Introductory video:

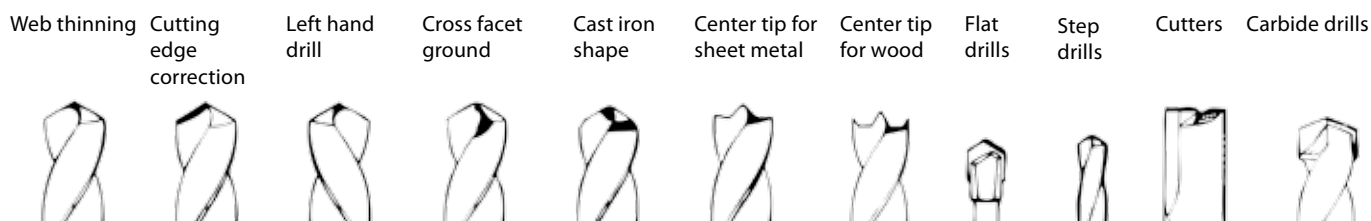


## TECHNICAL DATA

Clamping range:	Ø 2 to 20 mm
CBN-grinding wheel:	125 x 20 x 20 x 75 mm
Motor:	230 V, 50 - 60 Hz, 120 W (also available 110 V, 50 Hz)
Weight net:	32 kg
Revolutions:	2840 rpm <sup>-1</sup>
Clearance- and top angle:	to be adjusted stepless
Dim (L x W x H):	370 x 310 x 260 mm

## BASIC VERSION

- Clamping prism Ø 2 to 20 mm
- Precision optical lens lighted
- CBN-grinding wheel Ø 125 mm B76
- Granite base slap







#### Corundum grinding wheel

- Item No. 10895** Grit 60 - 125 x 20 x 20 mm (corase)  
**Item No. 10890** Grit 80 - 125 x 20 x 20 mm (standard)  
**Item No. 10891** Grit 180 - 125 x 20 x 20 mm (fine)  
**Item No. 10893** Grit 100 - 125 x 05 x 20 mm (HSS-wood drills)  
**Item No. 11103** Grit 100 - 125 x 10 x 20 mm



#### Diamond grinding wheel

- Item No. 14580** wide, complete with support 125 mm, coated on 3 sides, D76/3 for carbide drills  
**Item No. 14581** thin, complete with support 125 mm, coated on 3 sides, D76/3 for carbide wood drills  
**Item No. 16490** CBN-grinding wheel B76 (standard)  
**Item No. 17073** CBN-grinding wheel B126  
**Item No. 17556** CBN-grinding wheel B46



#### Item No. 18658 Grinding wheel fixture



#### Morse taper sleeves

- Item No. 10901** for short MK 1- drills  
**Item No. 10902** for short MK 2- drills



#### Cleaning- and sharpening stone

- Item No. 15855** for diamond grinding wheels



#### Support sleeve for short welding point drills

- Item No. 10900** 5 and 6 mm  
**Item No. 10976** 8 and 10 mm



#### Item No. 10889 Magnetic depth stop for cutters



#### Item No. 10881 Can for cross hole countersinks



#### Countersink sharpening device SVR 20

- Item No. 10875** incl. collet 10 mm



#### Collet set

- Item No. 14348** for SVR 20 (Ø 6, 8, 12 mm)



#### Grinding wheel dresser with rotating diamond

- Item No. 10908** only for corundum grinding wheels

#### Item No. 12385 Adaptor cable 230 V Schuko / 400 V CEE

#### Item No. 10883 Retrofit sharpening center with diamond cup-wheel

# DRILL GRINDING MACHINE BSG 60

ITEM NO. 11323

## The professional machine – Basic version

The professional machine for supreme claims. For drills from Ø 3 – 60 mm. Precise, no servicing, 4 point linear guideways. Spindle system with adjustable needle bearings. Prism quick action system.

- ✓ clamping range from Ø 3 – 40 mm
- ✓ range extension to 60 mm by extra prism
- ✓ clearance- and top angle to be adjusted stepless
- ✓ patented prism reversing system
- ✓ web thinning
- ✓ optional: countersink-and cutter grinding adaptor SZVR (see page. 16)

Introductory video:

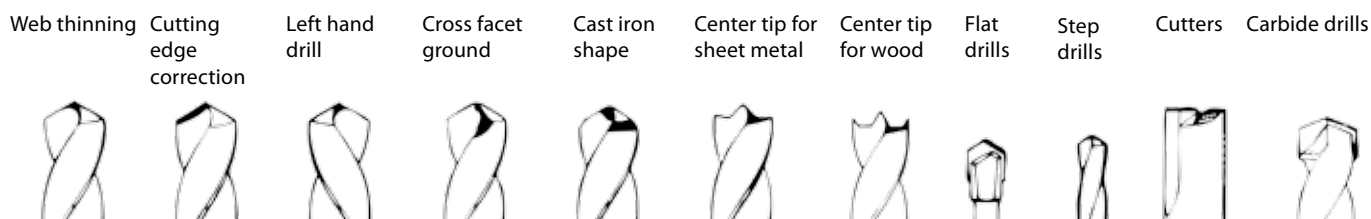


## TECHNICAL DATA

Clamping range:	Ø 3 to 60 mm
Corundum grinding wheel:	200 x 40 x 51 mm
Motor:	230 V, 50 Hz, 0,37 kW (also available in 400 V, 110 V, 60 Hz)
Revolutions:	2800 rpm <sup>-1</sup>
Weight net:	59 kg
Clearance- and top angle:	to be adjusted stepless
Dim (L x W x H):	570 x 330 x 520 mm

## BASIC VERSION

- Prism from Ø 3 to 40 mm
- Corundum grinding wheel Ø 200 mm grit 60
- Precision optical lens lighted
- Grinding wheel dresser with rotating diamondnt
- Granite base slap





#### Extra prism

**Item No. 10598** Spannbereich Ø 20 - 40 mm

**Item No. 10602** Spannbereich Ø 40 - 60 mm



#### Diamond grinding wheel

**Item No. 10627** Ø 200 mm incl. support

#### CBN-grinding wheel

**Item No. 17480** Ø 200 mm incl. support



#### Cleaning- and sharpening stone

**Item No. 15855** for diamond wheels



#### Corundum grinding wheel

	Grit 46	Grit 60	Grit 100	Grit 180
200x40x51	<b>Item No. 10612</b>	<b>Item No. 10613</b>	<b>Item No. 10614</b>	<b>Item No. 10615</b>
200x20x51		<b>Item No. 10687</b>	<b>Item No. 10688</b>	<b>Item No. 10689</b>
200x 8x51		<b>Item No. 10691</b>	<b>Item No. 10692</b>	<b>Item No. 10693</b>



#### Distance-ring

**Item No. 10690** for 20 mm grinding wheels

**Item No. 10694** for 8 mm grinding wheels



**Item No. 10621** Magnetic depth stop for cutters



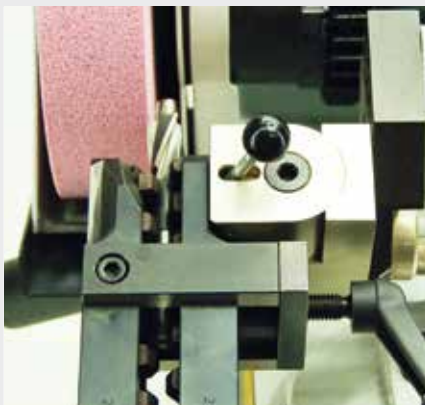
**Item No. 10622** Cutting rod for cutters



**Item No. 10623** Stop dog for long drills



**Item No. 10685** Handle for motor feed



**Item No. 10646 Adapter for dust exhaust Ø 32 mm**



**Morse taper sleeves**

**Item No. 14483** for short MK-drills, MK 1

**Item No. 14484** for short MK-drills, MK 2

**Item No. 14485** for short MK-drills, MK 3



**Countersink sharpening device SVR 31**

**Item No. 10583** incl. collet 10 mm



**Collet set**

**Item No. 14348** for SVR 31 (Ø 6, 8, 12 mm)



**Item No. 10604 Nut for extra collets**



**Grinding wheel fixture**

**Item No. 10616** with cone



**Item No. 14721 Machine stand**

**Item No. 12385 Adaptor cable 230 V Schuko / 400 V CEE**



**Cutter and countersink attachment SZVR**

**Item No. 11280** for 3 edged countersinks from Ø 6-31 mm or up to MK3, and 1-4 lip cutters for sharpening the face max Ø 20 mm, incl. 10 mm collet





# COUNTERSINK SHARPENING DEVICE SVR 20

ITEM NO. 10875

## A good team with the BSM 20

Special accessory for BSM 20

For re-sharpening of countersink and cross rose bits with cylindrical shaft

- ✓ simplest handling
- ✓ for countersinks from  $\varnothing 6 - 20$  mm
- ✓ support for BSM 20
- ✓ complete with collet  $\varnothing 10$  mm

Introductory video:



### TECHNICAL DATA

Top angle:  $60^\circ$  to  $120^\circ$   
 Countersinks with cylindrycal shaft:  $\varnothing 6$  mm to 20 mm  
 Cross rose bits (optional):  $\varnothing 2/5, 5/10, 10/15, 15/20$  mm  
 Collets:  $\varnothing 6$  mm, 8 mm, 10 mm, 12 mm

### BASIC VERSION

- SVR incl. 10 mm collet
- Support for BSM 20
- Cam for 3 flute countersinks



Countersink  
 $60^\circ$  to  $120^\circ$



cross rosebit  $90^\circ$



**Collet set**  
**Item No. 14348** for SVR 20 (Ø 6, 8, 12 mm)



**Item No. 10880 Nut for extra collets**



**Cam**  
**Item No. 10881** for cross rose bits, single flute



**Cam**  
**Item No. 10606** for two flute countersinks



**Cam**  
**Item No. 12487** for 3 edged countersinks, inclination 0,8 mm  
**Item No. 12488** for 3 edged countersinks, inclination 1,2 mm

# CUTTER- AND COUNTERSINK ATTACHMENT SZVR ITEM NO. 11280

## Precise re-sharpening

For re-sharpening of one-, two-, or 3 flute countersinks and resharping the faces of one to four flute cutters. The fixation is made by a clamping head ER 32. Additionally the clamping head is equipped with a MK3 morse taper.

- ✓ for 3 ute countersinks from 6 – 20 mm or morse taper up to MK3
- ✓ one to four flute cutters for re-sharpeing the face of cutters up to 20 mm
- ✓ precise laser adjustment
- ✓ tool support ER 32 and morse taper support MK 3
- ✓ extendable for cross rose bits (optional)
- ✓ special forms: step drills, sheet metal- and wood drills
- ✓ solid construction

Introductory video:



## TECHNICAL DATA

Top angle:	60° to 120°
Countersinks with cylindrical shaft:	Ø 6 mm to 31 mm
Cross rose bits (optional):	Ø 2/5, 5/10, 10/15, 15/20 mm
Collets:	ER 32 to 20 mm
Countersinks with morse taper:	up to MK 3

## BASIC VERSION

- SZVR incl. 10 mm collet
- Collet nut
- Laser adjustment
- Morse taper MK 3
- Cam for 3 ute countersink
- Index plate for one to four ute cutters



Countersink  
60° to 120°



cross rosebit 90°





#### SZVR collet set

**Item No. 11915** 7 pieces  
Ø 6 / 8 / 12 / 14 / 16 / 18 / 20 mm



#### Cam

**Item No. 12610** for single edge cross-countersinks, inclination 0,4 mm  
**Item No. 13510** for single edge cross-countersinks, inclination 0,8 mm



#### Cam

**Item No. 13511** for double edge spot facing cutters, inclination 0,5 mm  
**Item No. 13512** for double edge, spot facing cutters inclination 0,8 mm



#### Cam

**Item No. 13513** for 3 edged countersinks, inclination 0,5 mm  
**Item No. 13514** for 3 edged countersinks, inclination 0,8 mm (standard)  
**Item No. 13967** for 3 edged countersinks, inclination 1,2 mm  
**Item No. 13968** for 3 edged countersinks, inclination 1,4 mm



#### Index plate

**Item No. 13517** T4 + T3 for cutter (standard)  
**Item No. 13518** T5 for cutter  
**Item No. 13519** T6 for cutter

# DRILL GRINDING MACHINE BSG 60

Full range equipment

ITEM NO. 14369

## The professional machine in the all-around carefree package

- ✓ for twist drills Ø 3 to 60 mm
- ✓ countersinks up to MK3
- ✓ and end mills

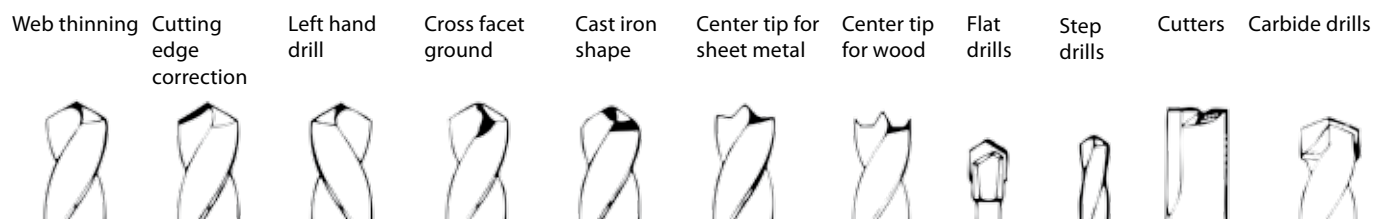
Introductory video:



SPARE PART LIST SEE PAGE 11+12

### FULL RANGE EQUIPMENT:

- Clamping prism from 3 to 40 mm (with additional prism up to 60 mm)
- Corundum grinding wheel Ø 200 mm grit 60
- Cutter and countersink sharpening device SZVR
- Grinding wheel dresser with rotating diamond
- Collet set, 7 pieces for SZVR
- DVD-manual
- Crank handle
- Adaptor for dust exhaust Ø 32 mm
- Precision optical lens lighted
- Granite base slap





## All benefits united

The Kaindl BKS is the machine for quick and easy resharpener of twist- and core drills.

The BKS combines the benefits of our core drill grinding machine KBS/2 and drill grinder BSM 20.

- ✓ sharpens core drills in the range of Ø 12 – 100 mm
- ✓ sharpens twist drills in the range of Ø 2 – 20 mm
- ✓ core drill clamping by collet chuck system
- ✓ precise adjustment by laser device



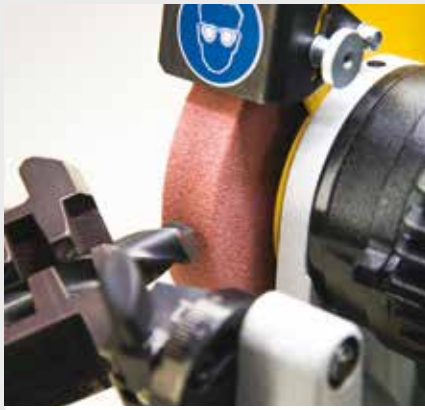
## TECHNICAL DATA

Clamping range:	Ø 2 to 20 mm
Core drills:	Ø 12 to 100 mm
Corundum grinding wheel:	125 x 20 x 20 x 75 mm
CBN & diamond wheel:	125 mm
Weight net:	43 kg
Revolutions:	2840 rpm <sup>-1</sup>
Dim (L x W x H):	500 x 450 x 310 mm
Motor:	230 V, 50 - 60 Hz, 120 W

## BASIC VERSION

- Collet clamping system incl. 19 mm collet
- Laser adjustment device
- Precision optical lens lighted
- Corundum grinding wheel grit K80
- Index plates for 4/5/8/10 teeth core drills
- Grinding wheel dresser with rotating diamond
- CBN-grinding wheel Ø 125 mm B126, covered on 3 sides
- CBN-grinding wheel Ø 125 mm B126, covered on 2 sides





#### Corundum grinding wheel

- Item No. 10895** Grit 60 - 125 x 20 x 20 mm (coarse)
- Item No. 10890** Grit 80 - 125 x 20 x 20 mm (standard)
- Item No. 10891** Grit 180 - 125 x 20 x 20 mm (fine)
- Item No. 10893** Grit 100 - 125 x 05 x 20 mm (HSS-wood drills)
- Item No. 11103** Grit 100 - 125 x 10 x 20 mm



#### Diamond grinding wheel

- Item No. 14580** wide, complete with support 125 mm, covered on 3 sides, D76/3 for HM-wood drills
- Item No. 14581** thin, complete with support 125 mm, covered on 3 sides, D76/3 for HM-wood drills
- Item No. 16490** CBN-grinding wheel B76 (standard)
- Item No. 17073** CBN-grinding wheel B126
- Item No. 17556** CBN-grinding wheel B46



#### CBN-grinding wheel

- Item No. 17053** covered on 3 sides B126 with radius
- Item No. 17055** covered on 2 sides B126 for back of tooth



#### Cleaning- and sharpening stone

- Item No. 15855** for diamond wheels



- Item No. 18658** Grinding wheel fixture



- Item No. 10889** Magnetic depth stop for cutters



#### Support sleeve for short welding point drills

- Item No. 10900** 5 and 6 mm
- Item No. 10976** 8 and 10 mm



- Item No. 10875** Countersink sharpening device SVR 20



#### Morse taper sleeves

- Item No. 10901** for short MK 1-drills
- Item No. 10902** for short MK 2-drills



**Collet set**

**Item No. 14348** for SVR 20 (Set 6, 8, 12 mm)



**Item No. 10880** Nut for extra collets



**Item No. 10881** Cam for cross rose bits, single ute



**Collet set**

**Item No. 16398** 7 pcs. for BKS (8/10/12/14/16/18/20 mm)



**Index plate**

**Item No. 10981** T-6 for core drills with 6 teeth

**Item No. 10982** T-7 for core drills with 7 teeth

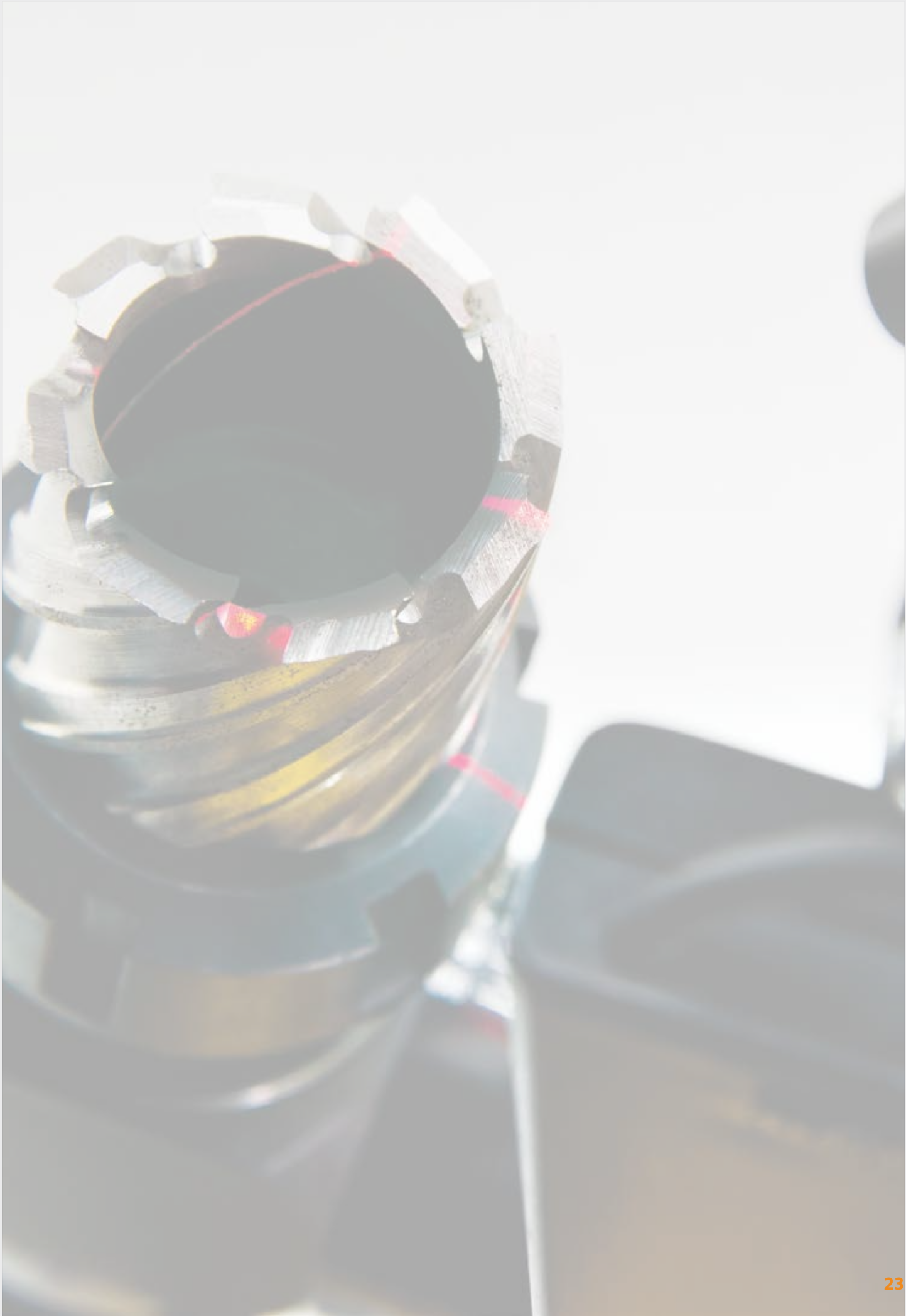
**Item No. 11009** T-9 for core drills with 9 teeth

**Item No. 11012** T-12 for core drills with 12 teeth

**Item No. 11063** T-14 for core drills with 14 teeth

Special index plates upon request

**Item No. 12385** Adaptor cable 230 V Schuko / 400 V CEE



## Professional and precise

Professional core drill grinding machine – easy, fast and precise. With laser adjustment device for exact alignment of core drills. For core drills from Ø 12 to 100 mm.

- ✓ core drill holding fixture by weldon support
- ✓ precise adjustment by laser device
- ✓ simplest handling
- ✓ stepless angle adjustment
- ✓ for core drills from Ø 12 – 100 mm with 4+8 / 5+10-teeth (special sizes upon request)

Introductory video:



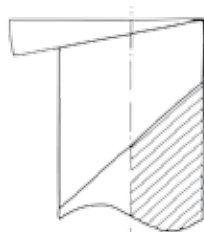
## TECHNICAL DATA

Core drills:	Ø 12 to 100 mm
CBN-grinding wheel:	Ø 125 mm
Motor:	230 V, 50 - 60 Hz, 120 W
Weight net:	37,5 kg
Revolutions:	2840 rpm <sup>-1</sup>
Dim (L x W x H):	500 x 450 x 310 mm

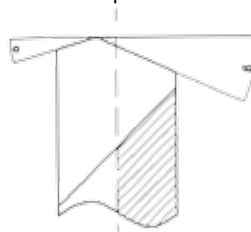
## BASIC VERSION

- LED-Precision optical lens
- Laser adjustment device
- Index plate f. 4 / 5 / 8 / 10 - toothed core drills
- ER32 collect clamping system + 19 mm collet
- CBN-grinding wheel Ø 125 mm B126, covered on 3 sides
- CBN-grinding wheel Ø 125 mm B126, covered on 2 sides

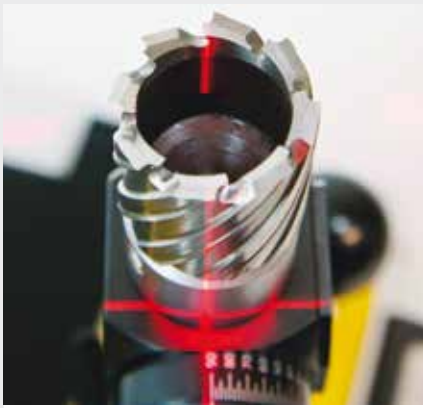
Flat tooth



Trapezoidal tooth







#### CBN-grinding wheel

**Item No. 17053** covered on three sides B126 with radius

**Item No. 17052** covered on two sides B126 for tooth back



#### Cleaning- and sharpening stone

**Item No. 15855** for diamond grinding wheel



#### Teilscheibe

**Item No. 10981** T-6 for core drills with 6 teeth

**Item No. 10982** T-7 for core drills with 7 teeth

**Item No. 11009** T-9 for core drills with 9 teeth

**Item No. 11012** T-12 for core drills with 12 teeth

**Item No. 11063** T-14 for core drills with 14 teeth

special index plates upon request



#### Adaptor for core drills

**Item No. 11302** 19 mm to 32 mm



#### Adaptor for core drills

**Item No. 11069** with M 18-thread to Weldon 19mm



#### Adaptor for core drills

**Item No. 13613** "Quick-In"

**Item No. 12385** Adaptor cable 230 V Schuko / 400 V CEE

# CIRCULAR KNIFE SHARPENING MACHINE RMS MANUAL ITEM NO. 12694

## The perfect entry

The perfect entry for professionally and easy sharpening of circular knives.

- ✓ made for circular knives from Ø 100 – 350 mm (smaller diameters upon request)
- ✓ adjustment of revolutions of the circular knife
- ✓ burr-free grinding
- ✓ feeding by lateral handwheel
- ✓ cabinet



Upon request:

- Circular knives smaller than Ø 100 mm
- Meat mincer knives
- Industrial knives
- Special knives for printing houses, paper- and foil industry

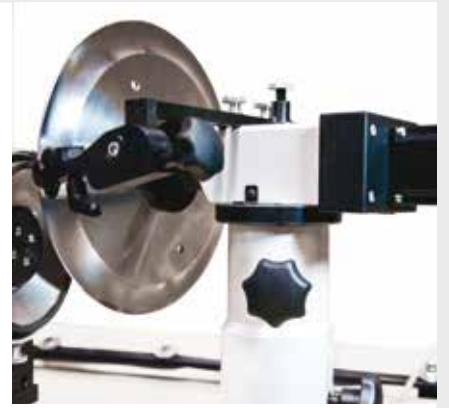
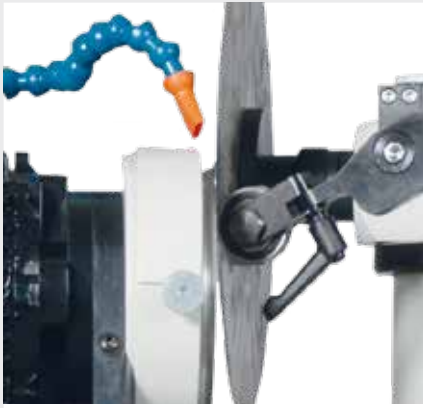


## TECHNICAL DATA

Motor:	230 V, 50 / 60 Hz, 0,37 kW, 2850 rpm <sup>-1</sup>
Grinding range circular knives:	from Ø 100 to Ø 350 mm
Reducer ring:	Ø 20 x 22 / 30 / 32 / 42 / 30 with 25er flat
Nominal circular knife boring:	Ø 20 mm
Weight net:	120 kg
Dim (L x W x H):	940 x 830 x 1230 mm

## BASIC VERSION

- Spacer rings for boring diameter 20 mm x 22/30/32/42/30 mm with 25 mm surface area
- CBN grinding wheel Ø 125 mm B126
- 1 pair cut protection gloves
- Pump cooling
- Cabinet



**CBN grinding wheel**  
**Item No. 11315** CBN B126  
**Item No. 11314** CBN B76

**Diamond grinding wheel**  
**Item No. 11317** D126  
**Item No. 11316** D76



**Item No. 15978** Permanent circular magnetic chuck incl. support



**Item No. 11247** Grinding wheel fixture



**Item No. 15739** Column short for lower blades  
 with scale, star knob screw, locking bolt



**Item No. 15857** Silicon carbide dresser wheel



**Diamond dresser wheel**  
**Item No. 15856** D356



**Cleaning- and sharpening stone**  
**Item No. 15855** for diamond grinding wheels



**Special support**  
**Item No. 13987** Ø 40 mm for small circular knives  
 (special sizes upon request)

**Cut protection gloves, 5 pair**  
**Item No. 18234** Cutgrip Gr. 9 (M)  
**Item No. 18235** Cutgrip Gr. 10 (L)  
**Item No. 18236** Cutgrip Gr. 11 (XL)  
**Item No. 18237** Cutgrip Gr. 12 (XXL)

## Intuitive control

The circular knife sharpening machine RMS-NC for circular knives from Ø 100 to 400 mm. Intuitive control by touchscreen and electronic jogwheel.

- ✓ made for circular knives from Ø 100 – 400 mm  
(smaller diameters upon request)
- ✓ programmable zero point offset
- ✓ input of feeding and pause steps
- ✓ stepless adjustment of revolutions of the circular knife
- ✓ burr-free sharpening
- ✓ sparking time mode



Upon request:

- Circular knives smaller than Ø 100 mm
- Meat minzer knives
- Industrial knives
- Special knives for printing houses, paper- and foil industry



Introductory video:



## TECHNICAL DATA

Grinding motor:	230 V, 50 / 60 Hz, 1,05 kW with frequency converter, 2850 rpm <sup>-1</sup>
Grinding range circular knives:	from Ø 100 to 400 mm
Reducer ring:	Ø 20 x 22 / 30 / 32 / 42 / 30 with 25er flat
Weight net:	188 kg
Dim (L x W x H):	700 x 900 x 1540 mm

## BASIC VERSION

- Touchscreen-control
- CBN grinding wheel Ø 125 mm B126
- Spacer rings for boring diameter 20 mm x 22/30/32/42/30 mm with 25 mm surface area
- 1 pair cut protection gloves
- Digital jogwheel
- Pump cooling





- CBN grinding wheel**
- Item No. 11315** CBN B126
- Item No. 11314** CBN B76
- Diamond grinding wheel**
- Item No. 11317** D126
- Item No. 11316** D76



- Item No. 15978** Permanent circular magnetic chuck incl. support



- Item No. 11247** Grinding wheel fixture



- Item No. 15739** Column short for lower blades  
with scale, star knob screw, locking bolt



- Item No. 15857** Silicon carbide dresser wheel



- Diamond dresser wheel**
- Item No. 15856** D356



- Cleaning- and sharpening stone**
- Item No. 15855** for diamond grinding wheels



- Special support**
- Item No. 13987** Ø 40 mm for small circular knives  
(special sizes upon request)

- Cut protection gloves, 5 pair**
- Item No. 18234** Cutgrip Gr. 9 (M)
- Item No. 18235** Cutgrip Gr. 10 (L)
- Item No. 18236** Cutgrip Gr. 11 (XL)
- Item No. 18237** Cutgrip Gr. 12 (XXL)

- Transport casters 1 set**
- Item No. 15916** (4 pcs)

# CIRCULAR KNIFE SHARPENING MACHINE RMS CNC

ITEM NO. 15858

## Programmed precision

This machine is equipped with a high performance industrial PC with touch-screen and digital jogwheel. This PC controls two linear and a rotary axis simultaneously. The geometry of grinding is exibly programmable by G-code.

- ✓ sharpens pro led knives with a radius from 50 to 175 mm
- ✓ for circular knives from Ø 100 to 350 mm
- ✓ built on solid IPC-basis, freely programmable with G-Code
- ✓ based on Linux software
- ✓ integrated electronic jogwheel



## TECHNICAL DATA

Grinding motor:	230 V, 50 / 60 Hz, 1,05 kW with frequency converter, 2850 rpm <sup>-1</sup>
Grinding range circular knife:	from Ø 100 to 350 mm
Grinding range pro led knife:	from 50 to 175 mm Radius
Reducer rings:	Ø 20 x 22 / 30 / 32 / 42 / 30 with 25er flat
Nominal boring of support:	Ø 20 mm
Weight net:	225 kg
Weight control unit:	37 kg
Dim (L x W x H):	900 x 700 x 1540 mm

## BASIC VERSION

- Touchscreen-control
- CBN grinding wheel Ø 125 mm B126
- Pump cooling
- USB-stick
- Electronic jogwheel
- Spacer rings for boring diameter 20 mm x 22/30/32/42/30 mm with 25 mm surface area
- freely programmable with G-code
- Grinding wheel dresser
- 1 pair cut protection gloves



- CBN grinding wheel**  
**Item No. 11315** CBN B126  
**Item No. 11314** CBN B76  
**Diamond grinding wheel**  
**Item No. 11317** D126  
**Item No. 11316** D76



- Item No. 15978** Permanent circular magnetic chuck incl. support



- Item No. 11247** Grinding wheel fixture



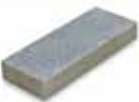
- Item No. 18152** Column short for lower blades  
 with scale, star knob screw, locking bolt



- Item No. 15857** Silicon carbide dresser wheel



- Diamond dresser wheel**  
**Item No. 15856** D356



- Cleaning- and sharpening stone**  
**Item No. 15855** for diamond grinding wheels



- Special support**  
**Item No. 13987** Ø 40 mm for small circular knives  
 (special sizes upon request)

- Cut protection gloves, 5 pair**  
**Item No. 18234** Cutgrip Gr. 9 (M)  
**Item No. 18235** Cutgrip Gr. 10 (L)  
**Item No. 18236** Cutgrip Gr. 11 (XL)  
**Item No. 18237** Cutgrip Gr. 12 (XXL)

- Transport casters 1 set**  
**Item No. 15916** (4 pcs)

# MANUAL SAW BLADE SHARPENING MACHINE SSG 600-M-LF

ITEM NO. 11324

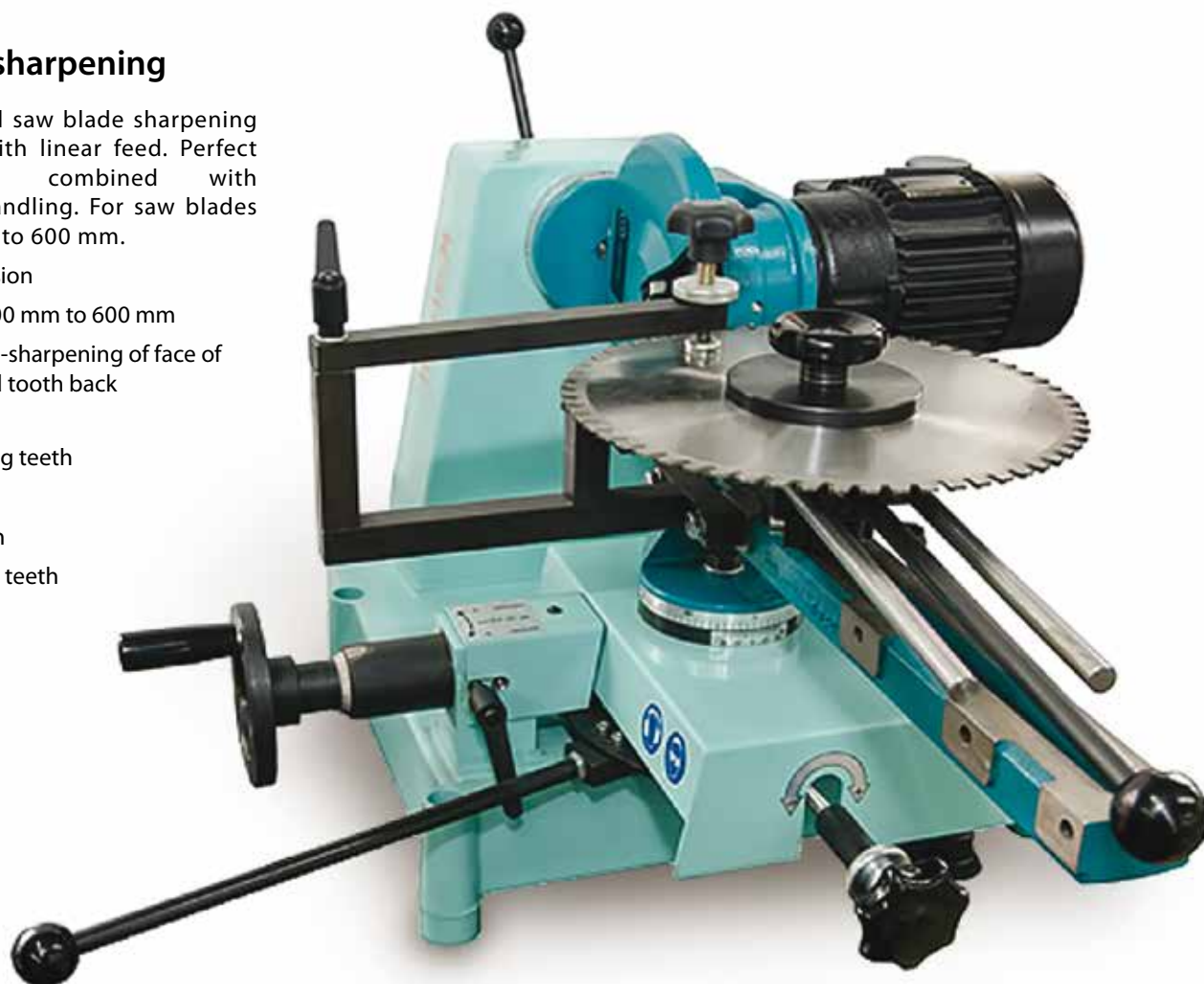
## Perfect sharpening

The manual saw blade sharpening machine with linear feed. Perfect sharpening combined with simplest handling. For saw blades from Ø 100 to 600 mm.

- ✓ table version
- ✓ from Ø 100 mm to 600 mm
- ✓ precise re-sharpening of face of tooth and tooth back

suited for:

- ✓ alternating teeth
- ✓ at teeth
- ✓ step teeth
- ✓ trapezoid teeth

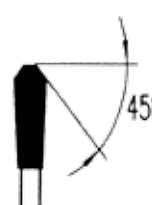
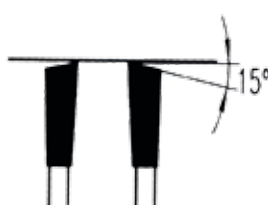
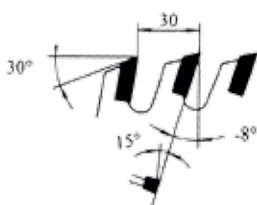


## TECHNICAL DATA

Motor:	230 V, 50 / 60 Hz, 0,18 kW, 2850 rpm <sup>-1</sup>
Grinding area	
Diameter of saw blades:	Ø 100 mm to Ø 600 mm
Reducer rings for saw blades:	Ø 25 / 30 / 32 / 35 / 40 / 50 / 70 / 75 mm
nominal saw blade boringg:	Ø 20mm
Weight net:	50 kg
Dim (L x W x H):	600 x 500 x 400 mm

## BASIC VERSION

- Diamond grinding wheel Ø 150 mm D64
- Table machine
- Spacer rings SSG for saw blades diameter 25 / 30 / 32 / 35 / 40 / 50 / 70 / 75 mm







#### **Diamond grinding wheel**

**Item No. 10774** 150 x 5 x 1,5 x 20 mm, D64 standard

**Item No. 10973** 150 x 16 x 5 x 3 x 20 mm, D76 thin



#### **Corundum grinding wheel**

**Item No. 10775** 150 x 13 x 20 mm, Grit 46, coarse

**Item No. 10776** 150 x 13 x 20 mm, Grit 100, fine



**Item No. 10796** Grinding wheel fixture



#### **Diamond wheel dresser**

**Item No. 10804** for corundum wheel



#### **Cleaning- and sharpening stone**

**Item No. 15855** for diamond grinding wheels



#### **Laser adjustment device**

**Item No. 15859** for exact adjustment of saw blade

**Item No. 12385** Adaptor cable 230 V Schuko / 400 V CEE

**Item No. 10773** Retro t kit for automatik DC

## SEMI AUTOMATIC SAW BLADE SHARPENING MACHINE

SSG 600-A-DC

ITEM NO. 11105



## Digital assistance

This saw blade sharpening machine has a digital control with self explaining display. Perfect grinding combined with simplest handling.

- ✓ electropneumatic control
- ✓ alternating tooth transport
- ✓ automatic breakpoint
- ✓ from 100 mm to 600 mm
- ✓ Maschine diagnostic
- ✓ input of no. of teeth

suited for:

- ✓ alternating teeth
- ✓ flat teeth
- ✓ step teeth
- ✓ trapezoid teeth

## TECHNICAL DATA

Motor:	230 V, 50 / 60 Hz, 0,18 kW, 2850 rpm <sup>-1</sup>
Control electric:	230 V, 50 / 60 Hz
Control pneumatic:	5 bar
Grinding area	
Diameter of saw blades:	Ø 100 mm to Ø 600 mm
Reducer rings:	Ø 25 / 30 / 32 / 35 / 40 / 50 / 70 / 75 mm
Nominal saw blade boring:	Ø 20 mm
Weight net:	115 kg
Dim (L x W x H):	940 x 830 x 1230 mm

## BASIC VERSION

- digital control
- Diamond grinding wheel Ø 150 mm D64
- Cabinet
- Spacer rings SSG for saw blades diameter 25 / 30 / 32 / 35 / 40 / 50 / 70 / 75 mm



#### **Diamond grinding wheel**

**Item No. 10774** 150 x 5 x 1,5 x 20 mm, D64 standard

**Item No. 10973** 150 x 16 x 5 x 3 x 20 mm, D76 thin



#### **Corundum grinding wheel**

**Item No. 10775** 150 x 13 x 20 mm, Grit 46, coarse

**Item No. 10776** 150 x 13 x 20 mm, Grit 100, fine



**Item No. 10796** Grinding wheel fixture



#### **Diamond wheel dresser**

**Item No. 10804** for corundum wheel



#### **Cleaning- and sharpening stone**

**Item No. 15855** for diamond grinding wheels



#### **Laser adjustment device**

**Item No. 15859** for exact adjustment of saw blade

**Item No. 12385** Adaptor cable 230 V Schuko / 400 V CEE

**Item No. 14482** Universal Pump cooling SSG 600-A-DC

# ELECTRODE SHARPENING MACHINE WIG4

ITEM NO. 10728

## Precise results

Sharpens TIG electrodes precise and simple in longitudinal shape. Provides repeatable welding results on automatic systems, respectively robot welding.

- ✓ with automatic drive and feeding
- ✓ functional handle
- ✓ centric tip to central axis in longitudinal direction
- ✓ stable arc
- ✓ for Ø 1,0 / 1,6 / 2,0 / 2,4 / 3,2 and 4,0 mm
- ✓ angle setting from 15° to 180°



## ALSO AVAILABLE AS WORKSTATION SOLUTION:

Electrode sharpening machine WIG 4  
+ Machine cabinet  
+ vacuum cleaner for dust exhaust

## TECHNICAL DATA

Diamond grinding wheel:	Ø 125 mm
Grinding motor:	230 V, 50 Hz, 0,05 kW, 2840 rpm <sup>-1</sup>
Motor for electrode drive:	230 V, 50 Hz, 375 rpm <sup>-1</sup>
Weight net:	6,8 kg
Angle setting:	15° / 30° / 60° / 90° / 120° / 150° / 180°
Diameter of electrodes:	1,0 / 1,6 / 2,0 / 2,4 / 3,2 / 4,0 mm
Dim (L x W x H):	260 x 300 x 230 mm

## BASIC VERSION

- Diamond grinding wheel Ø 125 mm D107
- Adaptor or dust exhaust
- Adjustment slide standard for electrodes Ø 1,0 / 1,6 / 2,0 / 2,4 / 3,2 / 4,0 mm
- Special sizes upon request





#### **Diamond grinding wheel**

**Item No. 10745** D107 incl. support (standard)

**Item No. 10744** D76 incl. support (medium)

**Item No. 10743** D46 incl. support (fine)



#### **Cleaning- and sharpening stone**

**Item No. 15855** for diamond grinding wheels



#### **Set of bushes**

for short electrodes (6 pcs)

**Item No. 10729** Ø 1,0 / 1,6 / 2,0 / 2,4 / 3,2 / 4,0 mm

further special diameters upon request



**Item No. 16592** Guiding bloc for electrodes



#### **Vacuum for dust exhaust**

**Item No. 10768** filter class M (BG approval)

**Item No. 15701** spare dust bags (5 pcs)

**Item No. 10739** Extra charge for both 110 V motors



#### **Cabinet**

**Item No. 10770** suitable for safety vacuum cleaner and electrode grinding machine

## Compact and powerful

Our small solution for cutting cylindrical workpieces, reducing the diameter of end mills by grinding, or grinding in of grooves, as well as plain grinding of front faces.

- ✓ 3 jaw chuck Ø 3-30 mm, push through: Ø 16 mm
- ✓ Spindle lock for 3 jaw chuck
- ✓ Reservoir tank for grinding dust with possibility for connection of vacuum cleaner



## TECHNICAL DATA

Clamping range:	Ø 3 - 30 mm
Motors:	
Grinding spindle:	250 Watt, 5.000 rpm <sup>-1</sup>
Tool spindle :	250 Watt, 150 rpm <sup>-1</sup>
Grinding wheel:	Ø 100 x 12,75 x 1,4 mm
Cutting wheel:	Ø 110 x 12,75 x 5 mm
Weight net:	28,5 kg
Dim (L x W x H):	380 x 230 x 220 mm

## BASIC VERSION

- Diamond cutting wheel Ø 100 mm for carbide
- CBN cutting wheel Ø 100 mm for HSS
- Diamond grinding wheel Ø 110 mm for carbide



#### Cutting disc

**Item No. 19291** Diamond cutting disc for carbide Ø 100 x 12,75 x 1,4 mm

**Item No. 19292** CBN cutting disc for HSS Ø 100 x 12,75 x 1,4 mm



#### Grinding wheel

**Item No. 19294** Diamond grinding wheel for carbide Ø 110 x 12,75 x 5 mm

**Item No. 19295** CBN grinding wheel for HSS Ø 100 x 12,75 x 5 mm



#### Corundum cutting disc

**Item No. 19296** Corundum cutting disc for HSS (5 pcs) Ø 100 x 12,75 x 1 mm

### Controllable versatility on 4 CNC axis

This machine is equipped with a high performance industrial PC with touchscreen and digital jogwheel. This PC controls two linear and a rotary axis simultaneously. The geometry of grinding is easily programmable by G-code.

- ✓ SK 40 support for ER collets
- ✓ for cutters up to Ø 150 mm, cutter grinding of spiral and face as well as chip space
- ✓ built on solid IPC-basis, freely programmable by G-code
- ✓ based on Linux software
- ✓ integrated electronic jogwheel



### TECHNICAL DATA

Grinding motor:	230 V, 50 / 60 Hz, 0,37 kW, 2850 rpm <sup>-1</sup>
Grinding range cutter:	max. Ø 150 mm
Support of rotary axis:	SK 40
CNC-axis:	4 ; X Y Z A
Weight net:	300 kg
Weight control unit:	37 kg
Dim (L x W x H):	1200 x 900 x 1780 mm

### BASIC VERSION

- Touchscreen-control
- Cup wheel optional as CBN or diamond  
Ø 125 mm B76 or D76
- Grinding wheel dresser
- Jogwheel integrated in the control unit
- Pump cooling
- ready made CNC-programms
- 5Mpix camera system with holder and software package for Windows and Mac
- Support SK40+ Ø 10 mm ER collet





**Item No. 18305 High frequency spindle and internal grinding device**

6000-24000 RPM, 0,8 kW,  
incl. frequency transformer with wiring set,  
ER11collets 3+6 mm



**Item No. 18051 FSM-CNC saw blade sharpening option**

Ø 100 - 450 mm  
Content: horizontal round axis, 2 clamping flanges, spacer rings,  
diamond grinding wheel D 76, support ER32, magnetic clamping,  
USB stick with several programs

**Item No. 18782 FSM-program suite**

(48 programs) for HSS hacksaw blades with tooth shape T3-T18 DIN1838  
incl. 2 CBN grinding wheels D=75+125 mm incl. grinding wheel support

**provided that: FSM-CNC option saw blades item No. 18051 is present.**



**Item No. 18440 Option: 3D-edge finder for FSM-CNC**



**CBN cup grinding wheel**

**Item No. 17304** CBN Ø 125 mm, B126

**Item No. 17303** CBN Ø 125 mm, B76

**Diamond cup grinding wheel**

**Item No. 17306** Ø 125 mm, D126

**Item No. 17305** Ø 125 mm, D76

**CBN cup grinding wheel**

**Item No. 18293** CBN Ø 100 mm, B126

**Item No. 18292** CBN Ø 100 mm, B76

**Diamond cup grinding wheel**

**Item No. 18295** Ø 100 mm, D126

**Item No. 18294** Ø 100 mm, D76



**CBN circumference grinding wheel**

**Item No. 18297** CBN Ø 125 mm, B126

**Item No. 18296** CBN Ø 125 mm, B76

**Diamond circumference grinding wheel**

**Item No. 18299** Ø 125 mm, D126

**Item No. 18298** Ø 125 mm, D76

**Item No. 18304 PCD-dressing device**



**Item No. 18658 Grinding wheel fixture**



**Item No. 19119 Special-Grinding wheel fixture „Twin“**



**Item No. 16050 Precision grinding head ER32**  
with indexing, 10 mm chuck and laser adjustment



**Item No. 15857 Silicon carbide dresser wheel**



**Item No. 15856 Diamond dresser wheel**  
D 356



**Cleaning- and sharpening stone**  
**Item No. 15855** for diamond grinding wheels



**Chuck set ER32**  
**Item No. 17675** 18 pcs. 3,0 - 20,0 mm, premium quality, 5 $\mu$  class, in wooden box

**Cut protection gloves, 5 pair**

**Item No. 18234** Cutgrip Gr. 9 (M)

**Item No. 18235** Cutgrip Gr. 10 (L)

**Item No. 18236** Cutgrip Gr. 11 (XL)

**Item No. 18237** Cutgrip Gr. 12 (XXL)

**Transport casters 1 set**

**Item No. 15916** (4 pcs.)

## THE DEVELOPMENT OF BESPOKE SOLUTIONS

The majority of contemporary tools require specific adaptations to the machine, tool fittings and software. To this end, we develop and produce special chucking tools, translate complex cutting geometries into programme codes and even develop bespoke form grinding wheels. As such, in addition to the “naked” machine hardware, we also provide bespoke turn-key solutions designed to meet your special requirements - all from a single source.

We have already implemented numerous customer-specific projects.

Here are a few examples:

Video



**ROBOTIC ROUGHING BLADE**



**DICER**



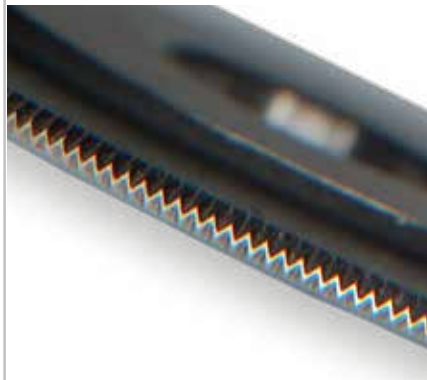
**FACE-MILLING CUTTER FOR WOOD PROCESSING**



**PIN DRILL**



**ZIGZAG BLADE**



**INDUSTRIAL POULTRY BLADE**



**ULTRASONIC PLOTTER BLADE**



**V-BLADE**



**LATHE BLADE**



## Even for hardest materials

This machine gives you free sight and control of your workpiece. Equipped with a diamond wheel coated on both sides.

- ✓ boring holes in the looking through grinding wheel cool the workpiece permanently
- ✓ thin grinding wheel
- ✓ looking-through diamond grinding wheel coated on both sides
- ✓ high-quality diamond coating ensures long durability
- ✓ for sure every material can be worked on
- ✓ simplest handling
- ✓ low heat generation

Introductory video:



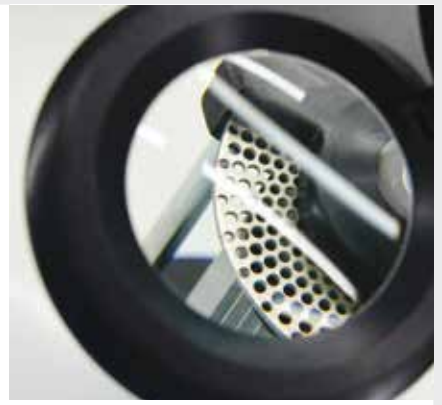
### TECHNICAL DATA

Diamond grinding wheel:	Ø 180 mm
Motor:	230 V, 50 bis 60 Hz, 0,15 kW
Revolutions:	1420 rpm <sup>-1</sup>
Weight net:	7,3 kg
Abrasive layer:	diamond
Adaptor for dust exhaust:	Ø 35 mm
Dim (L x W x H):	250 x 250 x 310 mm

### BASIC VERSION

- Diamond layer coated on both sides of grinding wheel Ø 180 mm
- Adaptor for dust exhaust
- Low revolution motor





**Item No. 18070 LED precision optical lens lighted**



**Item No. 18658 Grinding wheel fixture**



**Item No. 17358 Workpiece support with angle adjustment**



**Diamond grinding wheel**  
**Item No. 10947** coarse (standard)  
**Item No. 10948** medium  
**Item No. 10949** fine

## Universally usable

Compact drill- and universal sharpening machine with adjustable permanent magnetic clamping table. The sharpening table is equipped with a precision recirculating ball bearing guide.

- ✓ universally usable
- ✓ precise clamping and grinding of the workpiece
- ✓ stepless adjustable grinding table with permanent magnet
- ✓ travel range of grinding table 300 mm
- ✓ sharpens twist drills from Ø 2 - 20 mm

Introductory video:



## TECHNICAL DATA

### Drill grinding machine

Clamping range::	Ø 2 to 20 mm
Motor:	230 V, 50 / 60 Hz, 0,12 kW,
Revolutions:	2840 rpm <sup>-1</sup>
Clearance- and top angle:	stepless adjustable
Grinding wheel:	125 x 20 x 20 x 75 mm
Dim (L x W x H):	500 x 420 x 310 mm

### Sharpening table

Travel range:	300 mm
Table size:	170 x 100 mm
Swivelling:	stepless positive: 90°, negativ: 10°
Grinding wheel:	125 x 40 x 20 mm
Weight:	40 kg

## BASIC VERSION

- Two corundum grinding wheels
- Diamond cup-wheel
- Grinding table with permanent magnet
- incl. drill grinding machine BSM 20
- LED precision optical lens lighted
- Grinding wheel dresser with rotating diamond dresser
- Granite base slap



#### Corundum grinding wheel

- Item No. 10895** Grit 60 - 125 x 20 x 20 mm (coarse)
- Item No. 10890** Grit 80 - 125 x 20 x 20 mm (standard)
- Item No. 10891** Grit 180 - 125 x 20 x 20 mm (fine)
- Item No. 10893** Grit 100 - 125 x 05 x 20 mm (HSS-wood drills)
- Item No. 11103** Grit 100 - 125 x 10 x 20 mm



#### Diamond grinding wheel

- Item No. 14580** wide, covered on 3 sides D76/3 125 mm (BSM for carbide drills)
- Item No. 14581** thin, covered on 2 sides D107/2 125 mm (BSM for carbide wood drills)
- Item No. 16490** CBN-grinding wheel B76 (standard)
- Item No. 17073** CBN-grinding wheel B126



#### Corundum cup-wheel

- Item No. 10896** Grit 60 - 125 x 40 x 20 mm (SZ standard)
- Item No. 10897** Grit 80 - 125 x 40 x 20 mm
- Item No. 10898** Grit 100 - 125 x 40 x 20 mm



#### Diamond cup-wheel

- Item No. 11223** D126
- Item No. 10887** D76



#### Cleaning- and sharpening stone

- Item No. 15855** for diamond grinding wheels



- Item No. 18658** Grinding wheel fixture



**Item No. 10889** Magnetic depth stop for cutters



**Special clamping device (SZ)**  
**Item No. 10904** for turnover plates



**Special clamping device (SZ)**  
**Item No. 11224** 120 mm for small planer knives



**Special clamping prism (SZ)**  
**Item No. 10906** for chisels, piercing punches and many others



**Countersink sharpening device SVR 20**  
**Item No. 10875** incl. 10 mm collet





**Collet set**  
**Item No. 14348** for SVR 20 (Ø 6, 8, 12 mm)



**Item No. 10880** Collet nut for extra collets



**Special strong triangular permanent magnet**  
**Item No. 11113** for carbide



**Adaptor for pro led nger cutters**  
**Item No. 16868** with height adjustment incl. collet 10 mm, ER32-support and cross line laser adjustment device



**Vacuum for dust exhaust**  
**Item No. 10768** filter class M (BG approval)  
**Item No. 15701** spare dust bags (5 pcs)





## FURTHER INFORMATION OF THE KAINLD WORLD

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WERKZEUGE 2017/18

DIY catalogue



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