

Fast, low-cost, precise regrinding
of knives and scissors

Grinding machines



MAIER knife grinding machines

Quick and precise grinding of knives to the correct angle, for example for sewing machines, cloth cutting machines and textile machinery. A broad selection of knife holders always guarantees the correct cutting angle and perfect grinding quality, with no adjustment needed.

Knives of all steel qualities can be reground, including carbide-tipped knives.

MAIER scissor grinding machine

Simple, low-cost regrinding of scissors without disassembly, immediately and wherever needed. Regrinding and deburring in a single fixture. Secure guidance of the scissors in a fully adjustable grinding arm.

Model 90

Portable, low-cost knife grinding machine

- Simple operation
- Rapid, repeatable replacement of the knife holder using a special mount
- Maximum grinding quality through stable grinding shaft bearings
- Sensitive feeding using a precise knife holder mount
- Easy replacement and perfect concentric running of the grinding wheels by using grinding wheel flanges
- Regrinding of carbide-tipped knives using a 53/2 diamond grinding wheel
- Lightweight and practical (just 12 kg)
- Knife holder and grinding wheels also suitable for the 68/1 model



Hook knife with diamond grinding wheel



Specifications:
Motor: 230 V, 50 Hz, 0.15 kW, 2710 rpm
(On request: 115 V, 60 Hz, 0.15 kW, 3350 rpm)

Model 68/1

A universal knife grinding machine for a wide range of grinding and polishing work

- Simple operation
- Rapid, repeatable replacement of the knife holder using a special mount
- Maximum grinding quality through stable grinding shaft bearings
- Sensitive feeding through precision knife holder mount with exact setting scale
- Easy replacement and perfect concentric running of the grinding wheels by using grinding wheel flanges
- High grinding spindle rotational speed of 4500 rpm
- Reverse motion for grinding circular knives
- Left machine side for grinding e.g. sewing machine knives, circular knives, seamless knives and many more
- Right machine side suitable for additional grinding, polishing and separating work
- Wide range of grinding accessories available



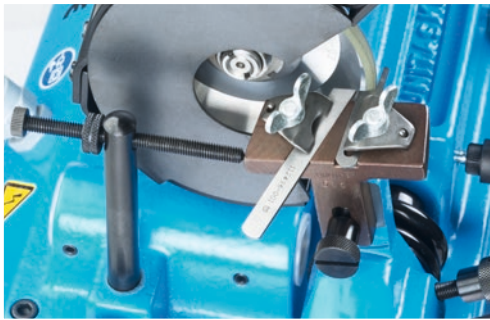
Specifications:
Grinding spindle rotation speed 4500 rpm
Motor: 400 V, 50 Hz, 0.25 kW (on request: 230 V, 50 Hz, 0.25 kW or 115 V, 60 Hz, 0.24 kW)

Machine on steel base M/3

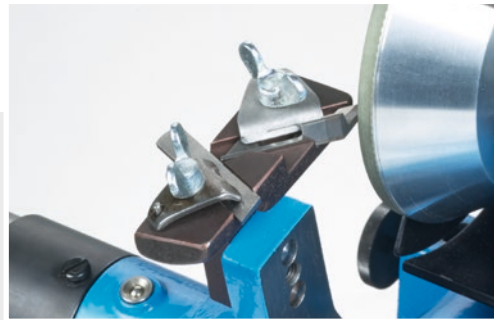
Knife holder for model 90 and model 68/1

A wide range of knife holders for different sewing machine knives are available on stock. The specially adapted knife holder guarantees that the knives are always tensioned in the correct position and are ground at the correct angle. Precision grinding results are further improved by grinding on the front side of the cup grinding wheel.

The fully adjustable stop makes it possible to limit the pivot range e.g. when grinding tongued knives or shoe trimming knives. Our delivery range is being continuously updated. Special designs based on sample knives or drawings are possible whenever required.



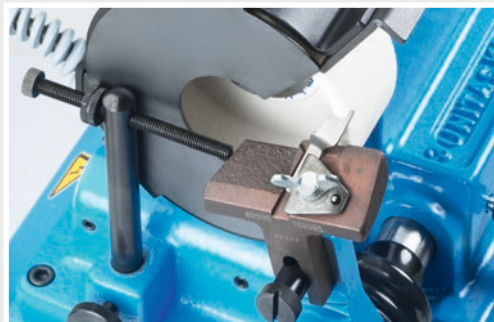
Upper knife with finger and lower knife



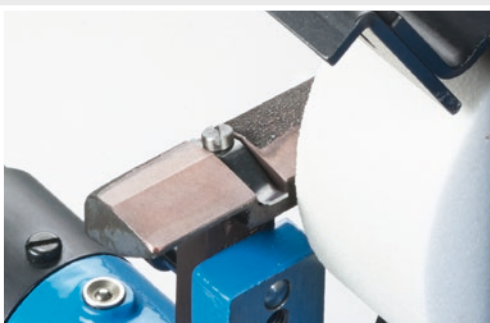
Carbide-tipped knife with diamond grinding wheel



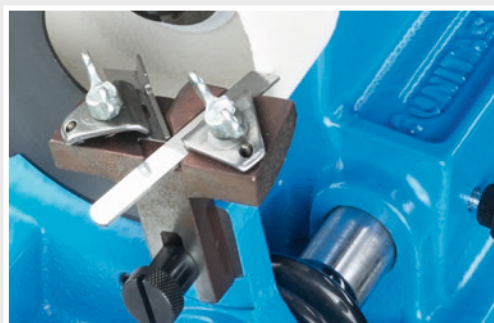
Lining trimmer with disc grinding wheel



Edge trimming knife



Thread cutting knife



Angular knife and lower knife



Hook knife with diamond grinding wheel

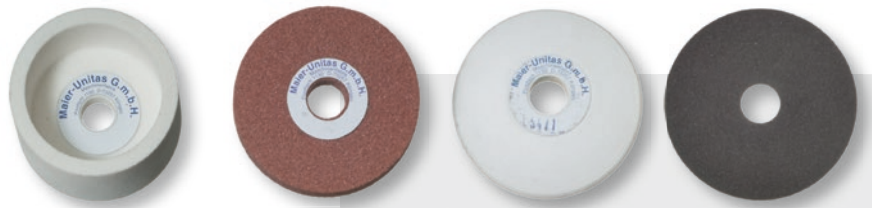


Knife with tip

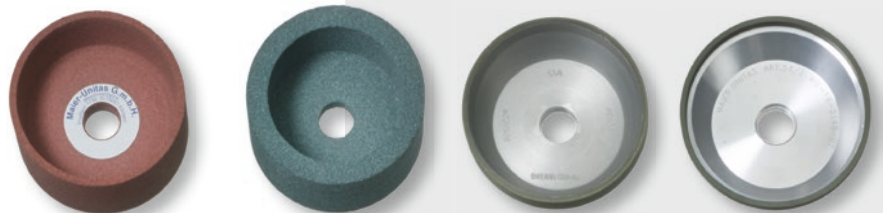
Grinding devices for grinding and polishing work

For further specifications of the different grinding wheels, such as diameter, hardness, grain size and area of application, ask your dealer or contact us directly.

- Cup grinding wheels
- Flat grinding wheels
- Disc grinding wheels
- Cut off grinding wheels



- Aluminous abrasive grinding wheels
- Silicon carbide grinding wheels
- Borazon grinding wheels
- Diamond grinding wheels



- Buffing wheels
- Felt wheels
- Dressing wheels



- Fibre brushes
- Steel wire brushes
- Brass brushes



- Dressing stone
- Oil stone
- Polishing paste



Special grinding equipment for model 68/1 for round knives

- Suitable for grinding knives made of tool steel and HSS
- Very fine grinding through sensitive feeding
- Centric grinding of knives with two cutting chamfers using the precise adjustment scale
- Slow, even turning of the knife against the direction of rotation of the grinding wheel



M/41

M/41 Grinding device with motor drive for round knives

- M/41-130: for knives with 70 - 130 mm Ø
- M/41-200: for knives with 130 - 200 mm Ø



M/60

M/60 Grinding device with motor drive for crush cutters



M/34

M/34 Manual grinding device for round knives

- For knives with 70 - 130 mm Ø
- Adjustable grinding angle

M/61 Mounting flange

Needed for grinding devices M/41, M/60, M/34

The mounting flanges are produced based on samples for the different knives and are ground in for precise concentric running.

- M/61-130: for knives with 70 - 130 mm Ø
- M/61-200: for knives with 130 - 200 mm Ø

Recommended grinding wheels:

- 51/5 Aluminous abrasive cup grinding wheels for tool steel knives
- 53/1 Borazon grinding wheel for HSS steel knives

Specifications M/41 and M/60:
 Motor speed: 12 rpm
 Plug power pack 110-240 V (included with delivery)

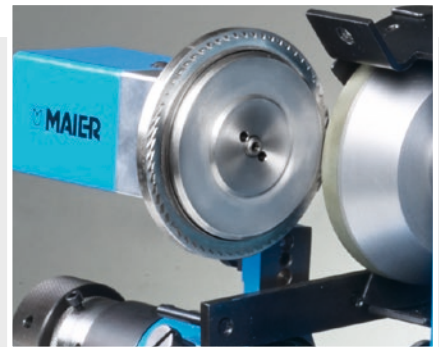
For technical reasons, the images sometimes do not show the required protective guards. Operation of our grinding machines is not permitted without a protective guard.

Special grinding devices for 68/1 model for seamless knives for hosiery circular knitting machines

M/40 Grinding device with motor drive for seamless knives up to 127 mm / 5"

Perfect, simple, fast regrinding of toothed seamless knives from many manufacturers, including BENTLEY – LONATI – NAGATA – SANGIACOMO – SANTONI – SAVIO – SOLIS – and many more.

- Very fine grinding through sensitive feeding
- Slow, even turning of the knife against the direction of rotation of the grinding wheel
- Best result, particularly with HSS knives, through the use of the borazon grinding wheel
- Precise concentric running by the grinding in of the holding flange according to the sample



M/40



M/42 Mounting flange

Needed for grinding device M/40

The mounting flanges are produced based on samples for the different knives and are ground in for precise concentric running.

M/50 Knife holder for counter knives of the seamless knives

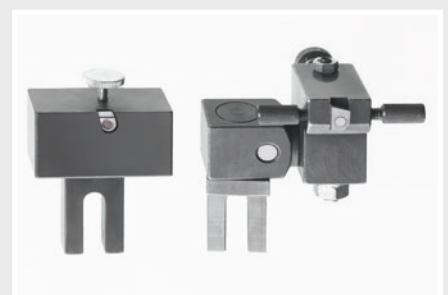
- Produced individually for different counter knives according to samples
- Best results for carbide-tipped counter knives by using diamond grinding wheel

Recommended grinding wheels:

- 51/5 Aluminous abrasive cup grinding wheels for tool steel knives
- 53/1 Borazon grinding wheel for HSS steel knives
- 53/2 Diamond grinding wheel for carbide-tipped knives

Specifications M/40:
Motor speed: 12 rpm
Plug power pack 110-240 V (included with delivery)

For technical reasons, the images sometimes do not show the required protective guards. Operation of our grinding machines is not permitted without a protective guard.



M/50

Special grinding devices for model 68/1 for multiple arc knives



M/36-39 Manual grinding device for knives with 70 - 130 mm Ø

- Suitable for grinding knives made of tool steel and HSS
- Perfect form by grinding with cam discs
- Gives multi-cam and multi-edge knives their original form
- Insertion rings for different inner diameters included with delivery

When ordering, please give the manufacturer, diameter and form of the knives to be ground

Cam discs (not included with delivery):

- M/36: 4-cam Kuris knife
- M/52: 4-cam Hoogs knife
- M/37: 6-cam knife
- M/51: 7-cam knife
- M/38: 8-cam knife
- M/39: 10-edge knife

Further cam discs on request

M/36-39-200 manual grinding device for knives with 130-200 mm Ø

Cam disc (not included with delivery):

- M/36-KRH20: 4-cam Kuris knife KRH15, KRH20

Further cam discs on request

M/53 Conversion kit for M/36-39 for knives with 30-200 mm Ø

Scope of delivery: longer holder, larger knife covering

Cam disc (not included with delivery):

- M/36-KRH20: 4-cam Kuris knife KRH15, KRH20

Further cam discs on request

Recommended grinding wheels:

- 51/5 Aluminous abrasive cup grinding wheels for tool steel knives
- 53/1 Borazon grinding wheel for HSS steel knives

For technical reasons, the images sometimes do not show the required protective guards.
Operation of our grinding machines is not permitted without a protective guard.

Equipment variants for model 68/1

M/68.100 grinding attachment for scissors

- Regrinding of scissors without disassembly
- Fully adjustable grinding angle of 0 - 60°
- Secure guidance when grinding
- Retrofitting on the right machine side possible

Scope of delivery: Complete grinding arm, grinding wheel 51/7 with flange and grinding wheel covering



M/68.100

M/27 Workpiece holder

- Fully adjustable angle
- Can only be used on the right machine side



M/27



M/25/26

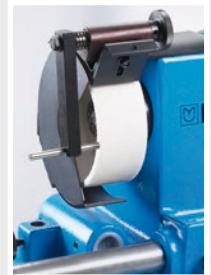
M/25/26 Twist drill grinding device

- Regrinding of twist drills
- Fully adjustable tip angle
- Centric grinding of the two edges of the drill with the aid of precision adjusting scale
- Grinding on the circumference of the grinding wheel

Recommended grinding wheel: flat grinding wheel 52/6



M/49



M/2

M/49 Curved protection shield with mobile holding arm

- Extended protection, e.g. when grinding circular knives
- Simple assembly
- Free view of the workpiece
- Usable on both sides of the machine

M/2 Diamond truing device

- For truing the grinding wheel on the left machine side
- Truing of the cup wheel at an angle inwards possible
- For precise grinding work or delicate cutting edges

M/3 Steel base

- With closable storage compartments



M/3

M/4 Spray cooling

- For grinding delicate cutting edges
- Cooling through very finely atomised cooling emulsion
- Strength, intensity and position of the cooling mist are adjustable
- Drip pan for coolant unnecessary

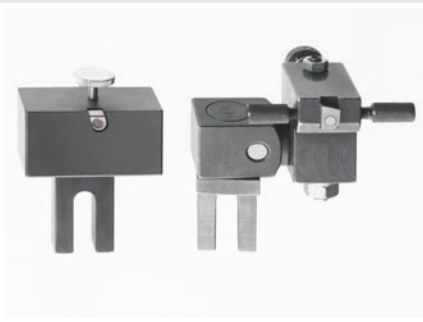
Scope of delivery: Coolant container, cooling emulsion and maintenance unit (for connection to an existing compressed air supply)

M/4/1 Ready-to-use cooling emulsion for spray cooling



M/4

KMS400 model



M/50



Model 90

For regrinding circular knives and seamless knives

- For circular knives with 150 - 400 mm Ø
- For circular knives with 127 - 407 mm (5" - 16") Ø
- Simple operation
- Best results through the use of the borazon grinding wheel
- Very fine grinding with precise concentric running by sensitive feeding
- Centric grinding of knives with two cutting chamfers using the precise adjustment scale
- Grinding angle fully adjustable from 0 - 35°
- Simple conversion to other grinding angles
- Slow, even turning of the knife against the direction of rotation of the grinding wheel
- Cool grinding through cutting speed of approx. 32 m/s

Holding flange

(not included with delivery)

M/300: for circular knives with 150 - 300 mm Ø

M/400: for circular knives with 200 - 400 mm Ø

M/410: for toothed seamless knives with 127 - 407 mm Ø

The holding flanges are produced based on samples for the different knives and are precisely ground in for accurate concentric running.



Specifications:
Grinding spindle rotation speed 6200 rpm
Rotation speed of the circular knives 12-14 rpm

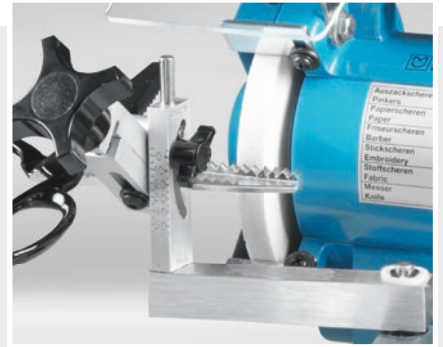
Two three-phase motors 230/400 V, 50/60 Hz, 0.25 kW,
special voltages on request

For grinding the counter knives, we recommend as a supplement the 90 model with M/50 knife holder and 53/2 diamond grinding wheel (for carbide-tipped knives)

Model 111

Portable, low-cost machine for easy regrinding of scissors

- The scissors are tightly fixed without being disassembled
- For top quality standards for clean scissor grinding
- Secure guidance through easily movable grinding arm
- Fully adjustable grinding angle of 0 - 60°
- Dressing on the right-hand side through interchanging of the collet (scissors remain fixed)
- Grinding wheel adjusted in its grain and hardness to scissor grinding
- Special dressing wheel for clean deburring of the reground scissors



Grinding pink scissors



Grinding buttonhole scissors



Tensioning device for burring chisel M/111.40



Pliers for setting the tensioning screw M/111.41



Grinding scissors



Dressing scissors

Specifications:
 Motor: 230 V, 50 Hz, 0.375 kW, 2850 rpm
 (On request: 115 V, 60 Hz, 0.375 kW, 3000 rpm)

More products from MAIER



Blind stitch sewing machines

The reliability and quality of MAIER blind stitch sewing machines are known worldwide. They sew the "invisible hem" themselves under difficult conditions. Thousands of MAIER blind stitch machines are proving their worth on a daily basis in the clothing industry, and in tailor and clothing alteration shops. They are being successfully used in specialist areas such as hemming curtains, net curtains, quilts, blind hemming of tapes on car seats, etc.

Sewing machine replacement parts and fabric trimming knives

When it comes to the production of sewing machine replacement parts, we now specialise in knives, grippers and stitch plates. Our product range is rounded off by a broad selection of fabric trimming knives. We are highly successful in selling these sewing machine replacement parts and knives worldwide. High precision and outstanding quality are the guarantee for perfect functioning of the sewing and trimming machine. That's why we are also a valued partner as a supplier to the sewing machine manufacturers.



Machine knives, precision parts and assemblies

We take measurements for your specific production requirements. Parts that we produce custom-made, based on samples or drawings, provide precision work in machines, e.g. for cable insulation, wood processing, plastic recycling, food production, textile machines and special machine construction. Are you looking for a manufacturer of small, complex, sharp parts? Then you've come to just the right place.

Custom-made machines

We produce precision. The optimum solution for construction offices and engineers. You develop and build - we produce and assemble.



"fadomat" skirt marker

The ideal partner for boutiques, department stores and clothing alteration studios. Our "fadomat" provides clear markings with thread loops - without chalk. The hem can immediately be re-pressed. The thread loops are easy to remove. Clean, fast marking without chalk dust.