



The Range

Your application
defines the solution

A shoal of fish | Targeted diversity that goes a long way – like the Schaudt machine range, which offers perfect machining strategies for a diverse range of mass-produced workpieces.

 **SCHAUDT**
KÖRBER
SCHLEIFRING

more than grinding



A strong partnership

Partner to the automobile and automotive supply industry

Only with optimal machine concepts tailored to individual requirements and a flexible, efficient partner it is possible to constantly set new standards in the automobile industry. Schaudt Mikrosa GmbH offers market-leading technical solutions in combination with extensive experience in grinding cylindrical and non-cylindrical, shaft-type workpieces. Schaudt can also offer solutions that ensure maximum productivity in mid and high volume production for combining different grinding processes. The machines are optimized for each order to meet your individual requirements, so that you can be confident of your competitive advantage in component manufacture. True partnership.

Partner to the printing industry

With the FlexGrind series, Schaudt offers the market-leading solution for grinding print rolls. The requirements for grinding these highly complex components are enormous. The highest accuracies must be adhered to over e lengths. This can only be achieved with a solid machine concept like that of the FlexGrind series, and a superior measuring system like the Diatronic. With our highly qualified and experienced staff, we are the right partner for the printing industry.

Partner for general mechanical engineering

In the hydraulics and textile industry, the machine tool industry, the construction machinery and equipment industry and in numerous other sectors of general mechanical engineering, complex workpieces must be ground with high productivity. The workpieces and, in particular, your requirements decide which grinding process will deliver optimal results. Schaudt offers an extensive portfolio of solutions, which enables us to optimally design your production processes.

Global Service

Worldwide service with short reaction times. Having subsidiaries and partners all over the world, the Körber Schleifring Group is always close to its customers – and also to your machine. Because, in mechanical engineering, top construction quality is one issue while services and customer support are another. Schaudt offers a worldwide network of service personnel and can stand by you even faster during all phases of the productlife cycle. Whether you are retrofitting machines for new workpieces, production support or preventative maintenance – the comprehensive service helps to enhance the availability of your machine and safeguard your investment.

The optimal solution for every application

CamGrind

Camshafts

FlexGrind

Long and heavy workpieces

CamGrind S

> Camshafts

CamGrind L

(One slide)

> Camshafts

Compact grinding machine for grinding cylindrical and non-cylindrical, shaft-type workpieces up to 650 mm in length.

Single-slide machines that can be equipped with a second swivel-in spindle. In the optimum configuration with B-axis and up to 3 grinding spindles.

Typical grinding processes

> Cylindrical and non-cylindrical grinding
> Peel grinding with CBN

> Cylindrical and non-cylindrical grinding
> Plunge-grinding with CBN
> HSP grinding with CBN

Technical data

Grinding length	650 mm	Grinding length	650- 2,000 mm
Height of centers	175 mm	Height of centers	220 mm
Grinding wheel Ø, max.	480 mm	Grinding wheel Ø, max.	480 mm
Grinding wheel width, max.	80 mm	Grinding wheel width, max.	80 mm
Grinding wheel driving power, max.	40 kW	Grinding wheel driving power, max.	40 kW
Workpiece weight, max.	50 kg	Workpiece weight, max.	50 kg
Sinumerik 840D control system		Sinumerik 840D control system	

Equipment, options

Swivel-in grinding spindle (2S*)
Integrated loader SPEED-LOAD

B-axis option (1- 3S*)
Swivel-in grinding spindle (2S*)
Portal loading system
Integrated loader SPEED-LOAD

* Number of grinding spindles



CamGrind L

(Two slides)

> Camshafts

CamGrind L synchro

(Two slides, parallel)

> Camshafts

CamGrind XL

(Two slides, parallel)

> Camshafts

Highly productive double-slide machine for high-volume production. Simultaneous complete machining in one clamping. With up to 4 grinding spindles in the optimum configuration.

Highly productive double-slide machine for high-volume production. Parallel machining of 2 workpieces on one grinding machine. With up to 5 grinding spindles in the optimum configuration.

Highly productive double-slide machine for high-volume production of long, shaft-type workpieces up to 2,000 mm. Complete machining in one clamping. With up to 5 grinding spindles in the optimum configuration.

> Cylindrical and non-cylindrical grinding

> Plunge-grinding with CBN

> HSP grinding with CBN

> Cylindrical and non-cylindrical grinding

> Plunge-grinding with CBN

> HSP grinding with CBN

> Cylindrical and non-cylindrical grinding

> Plunge-grinding with CBN

> HSP grinding with CBN

Grinding length	650 mm
Height of centers	220 mm
Grinding wheel Ø, max.	480 mm
Grinding wheel width, max.	80 mm
Grinding wheel driving power, max.	40 kW
Workpiece weight, max.	50 kg
Sinumerik 840D control system	

Grinding length	2 x 650 mm
Height of centers	220 mm
Grinding wheel Ø, max.	480 mm
Grinding wheel width, max.	80 mm
Grinding wheel driving power, max.	40 kW
Workpiece weight, max.	50 kg
Sinumerik 840D control system	

Grinding length	1,300 mm
Height of centers	220 mm
Grinding wheel Ø, max.	480 mm
Grinding wheel width, max.	80 mm
Grinding wheel driving power, max.	40 kW
Workpiece weight, max.	50 kg
Sinumerik 840D control system	

1– 2 swivel-in grinding spindles (2S or 4S*)

Portal loading system

Integrated loader SPEED-LOAD

B-axis option (1– 3S*)

1– 2 swivel-in grinding spindles (2S or 4S*)

Portal loading system

B-axis option (1– 3S*)

1– 2 swivel-in grinding spindles (2S or 4S*)

Portal loading system





FlexGrind M	FlexGrind L
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- > Rolls
- > Shafts/spindles for mechanical engineering
- > Engine parts and railway axles
- > Print rolls
- > Web guide rollers

Flexible and versatile universal cylindrical grinding machine for reliable machining of long workpieces with conventional grinding wheels. The absolute measuring head, high-precision B-axis for extremely precise taper grinding and backlash-free workpiece drive guarantee the highest precision.

- > External and internal cylindrical grinding
- > Cylindrical and non-cylindrical grinding
- > Oscillation grinding

Grinding length	1,000/2,000/3,000/4,000 mm
Height of centers	260/310 mm
Grinding wheel Ø, max.	600/750 mm
Grinding wheel width, max.	125/200 mm
Grinding wheel driving power, max.	30 kW
Workpiece weight, max.	500/1,200 kg
Sinumerik 840D control system	

- B-axis option (1– 3S*)
- Diatronic 22 absolute measuring head

- > Rolls
- > Shafts/spindles for mechanical engineering
- > Engine parts and railway axles
- > Print rolls

High-precision universal cylindrical grinding machine for reliable machining of large and heavy workpieces with conventional grinding wheels. Highest precision thanks to tried and tested table-type slide design with scraped vee-flat guideway in the Z-axis and precise positioning (infeed accuracies < 0.5 µm).

- > External and internal cylindrical grinding
- > Cylindrical and non-cylindrical grinding
- > Traverse grinding

Grinding length	3,000 mm
Height of centers	375 mm
Grinding wheel Ø, max.	750/900 mm
Grinding wheel width, max.	125/300 mm
Grinding wheel driving power, max.	37 kW
Workpiece weight, max.	3,000 kg
Sinumerik 840D control system	

- Optional B-axis (1 or 2S*)
- Diatronic 22 absolute measuring head
- Diatronic 5 absolute measuring head





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