

schoder

SCHODER - metal engraving that leaves a mark

ENGRAVINGS, EMBOSSING AND STAMPING TOOLS

QUALITY
MADE IN
GERMANY



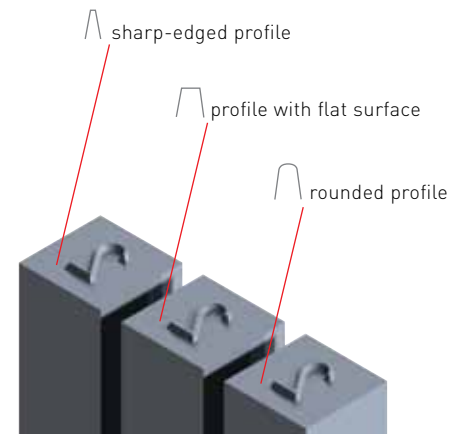
Our marking systems make a good impression

Impressive precision in engravings, embossing and stamping tools by SCHODER

Our embossing and stamping tools leave their mark on packaging material as well as copper wires and tubes and make a lasting impression in the automobile Identification. SCHODER marking tools, steel stamps, steel sorts and stamping dies boast extremely high hardness levels making them ideally suited for high-precision processing and higher endurance even under maximum load. Our product range includes bar marking dies for cigarette production, numbering machines for packaging material marking, brass stamping dies for foil embossing as well as coding tools for aluminium wheels, exhaust systems, engine parts or key cylinders.

Today, state-of-the-art CNC engraving and laser technology open up new possibilities for engravings with unprecedented sharp detail. There are virtually no limits to rendering typeface and reproducing images and logos on the material of your choice: high-grade steel, hardened tool steel, brass, aluminium, acrylic glass, plastics and many more. You send us your vector-based design, and we provide you with impressive, high-quality engravings – while you remain in full control of your real net output ratio!

Engraving types



STAMPING DIES

There is a wide variety of marking systems out there. Stamping dies in all forms and fashions made from a diverse range of materials are used in many areas like packaging machines. In sausage production, yogurt cups or medicine packaging and for stamping identification codes into body components in the automotive industry.



HARD FACTS

Material: all hardenable steels, brass, aluminium
Dimensions: 1 x 1 x 3 to 800 x 400 x 400 mm
Applications: automotive, packaging, pharmaceutical and machine industries, mould construction

MARKING DIES

For increasingly small and intricate forms with multiple radii and inclined surfaces. For coding during swaging and forming processes. Cutting-edge CAD systems enable us to apply customer data to free-form surface designs and to work 3-D engravings into the desired stamp mould.



HARD FACTS

Material: tool steel
Dimensions: max. 600 x 600 x 300 mm
Applications: automotive, packaging and pharmaceutical industries
Advantage: any size or form realisable

STAMPING DIES WITH REMOVABLE INSERTS

Used in stamping and coding sheet metal, plastics and other materials. The stamps offer great handling flexibility, and the inserts (sorts, stamping dies, etc.) can be changed quickly and easily.



HARD FACTS

Material: tool steel
Dimensions: max. 600 x 600 x 300 mm
Applications: stamping and punching tools
Advantage: interchangeable text

BAR MARKING DIES

Specialised bar marking and stamping dies for cigarette production. Customer artwork like logos, images or illustrations are applied using HSC or laser engraving to ensure long maintenance cycles. These techniques yield extremely sharp details and optimal engraving depths for any application.



HARD FACTS

Material: 1.2379, 1.3343, 1.2842
Dimensions: diameter up to 250 mm
Maintenance cycle: up to 30,000,000 prints
Applications: cigarette and packaging industries
Advantages: precise prints, quickly interchangeable

EMBOSSING WHEELS

For applications in the packaging, automotive and supplier industries as well as tool manufacturing. Also available as large-diameter daisy wheels and with flyweight for rapid stamping systems using dividing heads.



HARD FACTS

Material: tool steel, brass, aluminium
Dimensions: diameter up to 300 mm
Applications: tool manufacturing, automotive and packaging industries
Advantage: extremely lightweight

CABLE AND TUBE MARKERS

With precise tube diameters and quickly interchangeable marking segments: SCHODER fast running wheels with inbuilt month or year segments for flexible manufacturing processes. For durable coding of copper, steel or sheet metal tubes and for marking plastic tubes and cables.



HARD FACTS

Material: 1.2842, 1.2379
Dimensions: diameter up to 300 mm
Durability: extremely high, thanks to dot matrix marking
Applications: copper and steel tube industry
Advantage: long maintenance cycles

DATE STAMPS

Date stamps are most commonly used for counting, quick sequences and timestamps as well as for flawless recording of inventories. Date stamps can be manufactured with 2 to 24 digits. Manual or fully automated adjustment technologies as well as a wide range of clearly legible fonts available.



HARD FACTS

Material: steel and brass or high-grade steel
Dimensions: up to 200 mm
Applications: food and packaging industries

HOLDERS FOR MARKING SEGMENTS

The marking ring with interchangeable segments is used in fully automated packaging machines. In most cases, fixed text is needed in front of the filigree segment protrusions, which are then fitted with precise segments. Resetting the marking cylinder only takes a few milliseconds.



HARD FACTS

Material: steel or brass with applied synthetic layer
Dimensions: diameter up to 300 mm
Applications: packaging and pharmaceutical industries

PRINT ROLLER

The print roller is machined with extreme precision and without burr formation; it can be used as a standalone tool for roll embossing of a marking cylinder. Writing and continuous logos of up to 400 mm can be engraved.



HARD FACTS

Material: 1.2379
Dimensions: diameter 300 mm, length 400 mm
Applications: packaging industry (tinfoil), wallpaper and cigarette industries

LASER ENGRAVING

One advantage of laser engraving is that it produces edges that are nice and sharp. This allows us to reproduce even the smallest lettering or logo with pinpoint precision. A bevel angle of 1° ensures minimum abrasion when embossing paper.



HARD FACTS

Material: all steels, brass, plastics, aluminium
Dimensions: up to 200 mm
Applications: cigarette industry and any other small contour applications

TYPE HOLDERS

Marking types with locking pins facilitate quick insertion of types, codes and logos. Models are designed for vertical or horizontal type and can accommodate one or more lines.



HARD FACTS

Material: 1.2842, 1.2379
Dimensions: up to 300 mm
Applications: tool manufacturing and mould design, automotive, pharmaceutical and packaging industries
Advantage: quick and easy exchange of stamping inserts

ROLL MARKERS

Circular stamps with marking dies for dates and manufacturing codes. In small motor manufacturing, cap marking is mandatory. Here, roll marking is ideally suited. On customer request we can manufacture marking dies for any conventional machine. The safest option is the gear cutting system, which offers supreme dimensional accuracy and can be positioned extremely well.



HARD FACTS

Material: steel (most commonly 1.2842)
Dimensions: diameter 80 to 300 mm
Applications: automotive industry, engine technology

INJECTION MOULDING INSERTS

Injection moulding tools are an integral part of today's manufacturing landscape. Any number of plastic parts can be produced from a single mould.

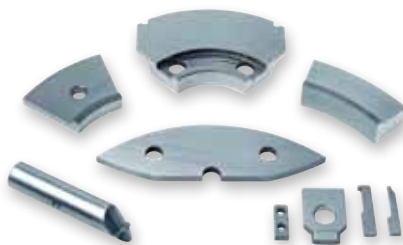


HARD FACTS

Material: tool steel
Dimensions: diameter up to 300 mm
Applications: almost all industrial sectors
Advantage: free-form surfaces realisable

STAMPING BLANKS

Stamp engraving blanks can be produced from nearly any conceivable material. Full automation in cutting-edge CNC milling machines makes for extremely cost-effective manufacturing. The form of the stamp makes hardly any difference any more. The 5-axis machining process meets any machining requirements.



HARD FACTS

Material: steel, high-grade steel, brass, aluminium
Dimensions: from 1 x 1 x 5 mm up to 300 x 300 x 500 mm
Applications: engraving, mould making

ENGRAVING CUTTERS

SCHODER engraving and milling cutters made from cemented carbide for longer maintenance cycles even under extreme loads. Longer lasting sharpness and, thus, longer maintenance cycles through extremely hard materials. Ask us, and we will find the perfect material for your needs.



HARD FACTS

Material: HSS, cemented carbide, RAMET
Dimensions: diameter 3 to 10 mm
Maintenance Cycle: long service life due to finest grain
Applications: labelling cable, plastic, copper and steel tubes

Powerful, accurate, fast – our manufacturing processes

SCHODER offers the complete scope of manufacturing processes including bending, bevelling and machining on state-of-the-art CNC-controlled machines with CAD/CAM programming; we also offer our expert knowledge on a contract production basis to meet your specific needs. Customer data are directly integrated into the manufacturing process. The result: fast turnaround times, low process and unit cost, and maximum customer satisfaction.

Overview of all techniques

- INDUSTRIAL ENGRAVING
- CNC MILLING
- SCREEN PRINTING
- EDM
- SHEET METAL MACHINING
- TOOL MANUFACTURING & MOULD DESIGN

INDUSTRIAL ENGRAVING

Steel or brass marking dies in any form or fashion, numbering machines for continuous coding, mould inserts and electrodes: the range of possible applications is virtually limitless. Our high-performance engraving machines can work on any material and in HSC.



HARD FACTS

Materials: alloyed tool steels, brass, aluminium, copper
Possible dimensions: max. 1,000 x 1,000 mm

CNC MILLING

We manufacture machine components, side walls, housings, welded structures, prototypes, turbine blades, front panels and stamping blanks. 6-axis machining centres with automated Tube feeders; 5-axis machining centres with rotary table and swivel head; 3-axis machining centres, some of them with swivel axis; pallet machining.



HARD FACTS

Materials: steel, nonferrous metals
Possible dimensions: 3,000 x 1,000 x 500 mm, diameter up to 100 mm

SCREEN PRINTING

Primarily for front panels, foil keyboards and housing parts. Graphic surface treatments. Labelling and coloured surfaces with solvent resistance available.



HARD FACTS

Materials: all metals, plastics
Possible dimensions: 2,000 x 1,250 mm

EDM

Electric discharge machining (EDM) is a state-of-the-art machining process that offers distinct advantages. A complex, hardened work piece can be machined quickly and precisely. Sharp-edged snap-outs can only be achieved via cavity sinking or wire cutting by EDM.



HARD FACTS

Materials: tool steel, high-grade steel, brass
Possible dimensions: max. 1,000 x 2,000 x 100 mm

SHEET METAL MACHINING

Bent components of max. 2,000 x 10 mm can be realised with even greater variety and accuracy thanks to a state-of-the-art 6-axis back gauge system. Superior bending quality thanks to 4-cylinder technology. Cutting-edge programming software and machine controlling allow us to manufacture complex parts with no extra effort.



HARD FACTS

Materials: aluminium, steel, high-grade steel up to 10 mm
Possible dimensions: breadths of up to 2,000 mm when bending

TOOL MANUFACTURING & MOULD DESIGN

As supplier for toolmakers and mould designers, we manufacture moulds, inserts, ejectors and electrodes on our state-of-the-art CNC milling machines and our wire-cut and sink EDM machines.



HARD FACTS

Materials: aluminium, steel, titanium, brass, copper, plastic, high-grade steel
Possible dimensions: max. 1,000 x 2,000 x 300 mm



Quality and expertise in all things metal

SCHODER – a business with a long tradition and a bright future

Since the company's inception in 1924, the metal machining sector has seen some spectacular changes. One thing, however, has not changed: our total commitment to superior quality. For over 85 years, we have delivered products and services with accuracy, reliability and painstaking attention to detail. For all the phases from planning to manufacturing, we provide innovative

products and customised solutions that stand the test of time. Our powerful, cutting-edge machines produce sophisticated parts for dynamic markets well beyond the national borders. We are your reliable partner in metal machining, offering you the best in flexibility and efficiency – because your satisfaction is what counts.

Contact us for further information and for customised solutions to your specific needs.

SCHODER GMBH

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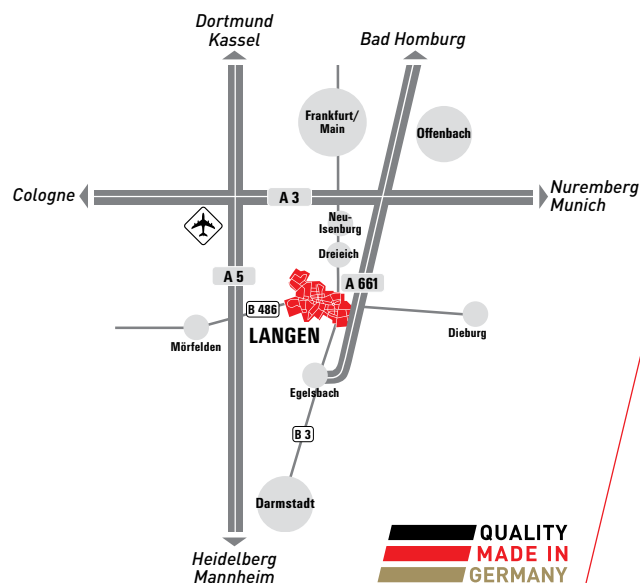
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Qualitätsmanagement

Wir sind zertifiziert

Regelmäßige freiwillige
Überwachung nach ISO 9001:2008



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