

schoder

Perfection in Metal



INDUSTRIAL ENGRAVINGS · CNC MILLING · SCREEN PRINTING · EDM · SHEET METAL MACHINING · TOOL/MOULD DESIGN & CONSTRUCTION

Flexibility, durability, diversity and virtually unlimited possibilities

SCHODER's comprehensive product portfolio

SCHODER owes its excellent worldwide reputation to its unbending dedication to precision and relentless quality-control. Consequently, the name SCHODER has been associated with reliability for over 85 years.

As a competent supplier, we turn our valued customers' ideas into products offering flexible manufacturing depth and uncompromising quality. Our products and parts are used in a wide variety of industries: machine construction, the automotive industry, tool/mould design and construction, device and electronics design, cable and tube production, pharmaceuticals, cigarette production and packaging.

We process various types of metals for our clients, including stainless steel, cured tool steel, brass and aluminium, as well as sheet metal, plastics and acrylic glass. As a supplier, we form and process parts for your production in small or large numbers ensuring on-time delivery. If you're looking for a specific component for your manufacturing process we will be delighted to design a tailor-made solution to meet your particular requirements.

SCHODER Product Overview

- EMBOSSING STAMPS
- MARKING STAMPS
- CIGARETTE STAMPS
- EMBOSSING WHEELS
- CABLE AND PIPE EMBOSSING
- TYPE HOLDERS
- MILLING CUTTER
- INSERTS FOR INJECTION MOULDING TOOLS
- CNC MOULD COMPONENTS
- CNC MILLING PARTS
- EDM COMPONENTS
- HOUSINGS FOR ELECTRONIC UNITS
- LASER-MACHINED OR BENT COMPONENTS
- FOIL KEYBOARDS
- FRONT PLATES

EMBOSSING STAMPS WITH INTERCHANGEABLE INSERTS

Embossing and coding of sheet metals, plastics or other materials. The stamps offer flexibility in the manufacturing process and the inserts (types, embossing plates, etc.) can be quickly and easily interchanged.



HARD FACTS

Material: tool steel
Dimensions: up to 600 x 600 x 300mm
Application areas: embossing and blanking tools
Advantage: possibility to interchange the text

MARKING STAMPS

Coding can be done during the pressing or forming process, and mould requirements can be met, even the ever-smaller and more complex specifications of today including the wide range of radii and inclined surfaces. State-of-the-art CAD systems allow customer data to be transferred onto free-form surface formats and for 3-D engravings to be incorporated into the requested stamp shape.



HARD FACTS

Material: tool steel
Dimensions: up to 600 x 600 x 300mm
Application areas: automotive, pharmaceutical and packaging industry
Advantage: possibility to produce any size and shape

CIGARETTE STAMPS

Printing wheels and embossing stamps for cigarette production. Customer-specific artwork, such as logos, images and illustrations are engraved using HSC (high-speed-cutting) or laser to ensure a long working life. These techniques provide the sharpest detail and optimal embossing depth for each particular application.



HARD FACTS

Materials: 1.2379, 1.3343, 1.2842
Dimensions: diameters of up to 250mm
Working life: up to 30,000,000 prints
Application areas: cigarette and packaging industry
Advantages: precision of printed impression, rapidly interchangeable

EMBOSSING WHEELS

Designed for applications in the packaging and automotive industry as well as for component suppliers and the tool manufacturing industry. Also available as large diameter type wheels and with centrifugal weight for rapid embossing systems in the split head process.



HARD FACTS

Materials: tool steel, brass, aluminium
Dimensions: diameters of up to 300mm
Application areas: tool manufacturing, automotive and packaging industry
Advantage: exceptionally light design

CABLE AND PIPE EMBOSSING

With a high-precision machined pipe radius and rapidly interchangeable embossing segments, SCHODER's quick-running rollers and running wheels with machined month or year segments ensure more flexibility during the production process. For long-term coding of pipes made of copper, steel or sheet metal as well as for the embossing of plastic pipes and cables.



HARD FACTS

Materials: 1.2842, 1.2379
Dimensions: diameters of up to 300mm
Durability: longer working life, due to dot matrix impression
Application areas: copper and steel pipe industry
Advantage: long working life

TYPE HOLDERS

Type holders for embossing types with securing pin allowing quick insertion of types, codes and logos. Models are designed for horizontal or vertical type and can accommodate one or multiple lines.



HARD FACTS

Materials: 1.2845, 1.2379
Dimensions: diameters of up to 300mm
Application areas: tool and mould manufacturing, automotive, pharmaceutical and packaging industry
Advantage: quick and easy interchange of embossing inserts

MILLING CUTTERS

SCHODER's engraving and milling cutters are made of tungsten carbide ensuring a longer working life even at peak loading. The harder structure of the material ensures longer periods between regrinds and longer lasting, more precise machining accuracy. Please do not hesitate to contact us. We shall find the material matching your requirements.



HARD FACTS

Materials: high speed steel (HSS), tungsten carbide, Ramet
Dimensions: diameters from 3 to 10mm
Durability: long working life due to micro grain material
Application areas: marking of cable, plastic, copper and steel pipes

INSERTS FOR INJECTION MOULDING TOOLS

Injection moulding tools have found their firm place in the manufacturing process. One and the same mould often serves to manufacture innumerable plastic components.



HARD FACTS

Material: tool steel
Dimensions: diameters of up to 300mm
Application areas: in almost every industry
Advantage: creation of almost any type of free-form surface

CNC MOULD COMPONENTS

We manufacture a complete injection moulding tool based on the CAD data provided by our customers. From pre-scrubbing to fine-finishing, we produce a tool with the finest surface finish, fulfilling all client expectations in terms of de-moulding.



HARD FACTS

Material: hot work tool steel
Dimensions: up to 3,000 x 1,000 x 500mm
Application areas: plastic injection moulding tools

CNC MILLING COMPONENTS

One of our strengths is the production of complex components with an extraordinarily flexible manufacturing depth. 5-axis machining from six sides and chord dimensions of up to 80mm allow us to produce small and large components alike.



HARD FACTS

Materials: steel, aluminium, brass, copper, plastics and others
Dimensions: up to 3,000 x 1,000 x 500mm
Application area: mould manufacturing

EDM COMPONENTS

As wire electrical discharge machining (EDM) allows a very high degree of accuracy and the creation of sharp-edged holes and pockets, we use it for the production of type holders, connectors, ejectors, tungsten carbide punches, ceramic dies and cutting punches achieving as much as micron precision.



HARD FACTS

Materials: aluminium, steel, stainless steel, brass
Dimensions: up to 600 x 350 x 300mm
Application areas: packaging industry, mould manufacturing
Advantage: high durability due to chamfered corners allows a high degree of precision

HOUSINGS FOR ELECTRONIC UNITS

Highly accurately machined aluminium light-weight housings, e.g. for audio and video mixer desks, monitors and much more. Laminated with a polyester carrier foil in up to 8-colour screen print. Designed to accommodate electrical components and switches.



HARD FACTS

Material: polyester front foil mounted on an aluminium plate
Dimensions: up to 1,500 x 800mm
Application areas: film and sound studios, electronics industry
Advantage: available with different surface finishes, back-lit windows

LASER-MACHINED OR BENT COMPONENTS

Custom-made miniature housings with extreme angles and blanks, available as a weather-proof housing for outside use or as an internal housing. Depending on the application they are designed for, they will be clinched, welded, riveted, toxed and/or produced with specific surface finishes.



HARD FACTS

Material: VA sheet steel
Dimensions: up to 2,000 x 200 x 300mm
Application areas: electronics, machine construction, banks, security services
Advantage: higher durability due to surface finish

FOIL KEYBOARDS

These keyboards offer extraordinary, well-proven characteristics, e.g. high scratching and abrasion resistance, solvent and oil resistance, light resistance, outstanding colour saturation and a high flexibility and pressure resistance, e.g. of the keys. We offer a complete assembly service of switching foils, electronic components, different technology keys and switch units, which may also be mounted on carrier plates, e.g. with studs and blanked out sections.



HARD FACTS

Material: polyester front foil mounted on an aluminium plate
Dimensions: 1,200 x 800mm maximum
Application area: control panels
Advantage: closed, easy to care for surface

FRONT PLATES

We manufacture front plates for 19" and other cartridges, machine front plates with stamped and bent sections, front plates laminated with foil, backplates and mounting plates. Surface treatment or anodising services are available. We can deliver all front plates mounted on mounting plates. The script may be executed using engraving technology, screen print and specific colours for durability or screen printed foil.



HARD FACTS

Material: VA sheet steel
Dimensions: up to 1,600 x 800mm
Application area: machine construction
Advantage: interchangeable key function display unit

Our processing technology: strong, precise and fast

SCHODER's full-service metal machining offers a full range of capacities, including CNC-controlled machining centres with CAD/CAM programming. Contract manufacturing is another way of benefiting from our expert knowledge. Customer data will be processed directly and integrated in the production process. This leads to increased speed, reduction of process and unit cost and the highest degree of customer satisfaction.

Technology Overview

- INDUSTRIAL ENGRAVINGS
- CNC MILLING
- SCREEN PRINTING
- EDM
- SHEET METAL MACHINING
- TOOL/MOULD DESIGN & CONSTRUCTION

INDUSTRIAL ENGRAVINGS

We offer a wide range of systems, such as various types of steel or brass coding stamps, numbering units for continuous marking, mould inserts and electrodes. With high-performance engraving machines, including high speed cutting (HSC), we are able to machine every type of material.



HARD FACTS

Materials: tool steel alloys, brass, aluminium, copper
Available dimensions: up to 1,000 x 1,000mm

CNC-MILLING

We produce mechanical parts, side panels, housings, welding constructions, prototypes, turbine blades, front plates and blanks for embossing punches. Equipment: 6-axis BAZ machining centre with automatic material infeed; 5-axis BAZ with rotary axis and swivel head; 3-axis BAZ, some with swivelling axis; pallet machining.



HARD FACTS

Materials: steel, non-ferrous metals
Available dimensions: 3,000 x 1,000 x 500mm, diameters of up to 100mm

SCREEN PRINTING

Mainly for front plates, foil keyboards and housing components. We refine surfaces with graphic symbols and are able to provide solvent-resistant print and coloured surfaces.



HARD FACTS

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

EDM

Electrical discharge machining (EDM) is a modern machining technique offering decisive advantages. This allows fast and precise machining of complex, hardened workpieces. Only vertical eroding or wire cutting technologies allow the creation of sharp-edged cavities.



HARD FACTS

Materials: tool steel, stainless steel, brass
Available dimensions: up to 1,000 x 2,000 x 100mm

SHEET METAL MACHINING

Bent components of up to 2,000 x 10mm are machined using a modern 6-axis back gauge system producing an even wider choice of components with a higher degree of precision. The 4-cylinder technology provides optimal bent quality. State-of-the-art programming software and machine control allow the production of very complex parts without exceptional investments in terms of time and effort.



HARD FACTS

Materials: aluminium, steel, stainless steel up to 10mm
Available dimensions: maximum width of parts during bending process up to 2,000mm

TOOL/MOULD DESIGN AND CONSTRUCTION

As a supplier for tool and mould manufacturers, we produce mould superstructures, inserts, slides and electrodes using our CNC milling machines as well as the wire EDM and vertical eroding machines.



HARD FACTS

Materials: steel, aluminium, titanium, brass, copper, plastics, stainless steel
Available dimensions: 1,000 x 2,000 x 300mm maximum



Quality and Expertise in Metal

SCHODER – a company with a great history and a great future

Since the company's foundation in 1924, the metal machining sector has undergone spectacular development. Despite all these changes, one factor remained unchanged: the company's uncompromising dedication to impeccable quality. For 85 years we have delivered reliable precision work with painstaking attention to detail. We supply innovative products offering ideal solutions that have proved

successful thousands of times – all the way from design to manufacturing. Our modern, high-performance equipment allows us to produce top quality workpieces designed to match the challenges of highly demanding markets far beyond the boundaries of Germany. We are the metal machining partner you can rely on, offering you the best in flexibility and efficiency, as our mission is your satisfaction.

We'll be happy to develop your tailor-made solution and to answer any of your questions at any time.

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Qualitätsmanagement

Wir sind zertifiziert

Regelmäßige freiwillige
Überwachung nach ISO 9001:2008

