



esw GROUP

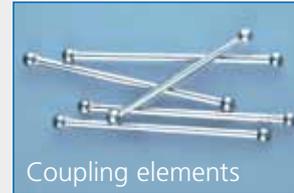
Beste Verbindungen

Eichsfelder Schraubenwerk GmbH

ESW Bohemia k.s.

ESW Autolog GmbH

Areas of application



Best connections

Our company slogan “Beste Verbindungen” is the German expression for “best connections”. And this is the principle of the ESW GROUP. It reflects a long company tradition in the production of connecting elements.

The term “connections” also involves our culture and vision which we put into practise in the cooperation with our customers, suppliers and employees.

Since Aristotle we have known that “the total is more than the sum of its parts”.

The companies of the ESW GROUP put this into practise daily in their close and fair cooperation in all business processes.

With this, the ESW GROUP is a connection of modern industrial enterprises with consistent customer orientation and reliable relations in all levels.



Cold forming

Considering the experiences of six decades of screw production and special connecting elements, cold massive forming belongs to the core businesses of the ESW GROUP.

We take up the challenges of demanding forming technologies and are going to meet our customers' many different requirements in the future as well. With this, we can also count on our experienced and motivated employees.

Our machines (2- to 6-step presses) can process classic cold forming steels as well as stainless steel and aluminium of diameters of 3 to 25 mm and lengths of max. 240 mm.





Gerhard Hosbach
Machine fitter

"I have experienced the development of our company for many years. A lot of investments have been made especially in the area of presses. I would also like to contribute my experience to the capability of the ESW GROUP also in the future."



5-Step cold forming press



Stamping

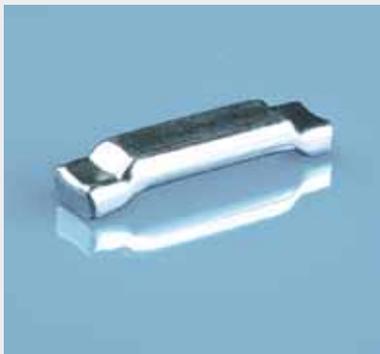
During the development of the eSW GROUP towards a supplier of complete system solutions, the stamping technology was developed as a further competence field in addition to the cold forming.

We meet the requirements of developing cost-effective production methods with optimised material usage. The used compound tool sets, rotating cycle tools and transfer tools are designed and built in our own house. With this, we consequently rely on modular design to offer fast set-up processes and exchangeability of the components.

We use hydraulic and mechanic presses with press forces of max. 1,000 t where we can machine metal sheets of 8 mm thickness.



Toggle lever press



Compound tool set



Checklink core



Plastic coating

The partial and complete coating of metal parts with plastic enables the creation of special functionalities and the production of complicated external contours.

These parts are used, for instance, as door arresting devices, where the plastic material of high contour accuracy provides the resting function and the metal insertion provides for the stability of the component.

Precise tools and a stable process control are the preconditions for meeting highest customer requirements. Reinforced and not reinforced plastic materials are processed on modern injection-moulding machines with a clamping force of max. 150 t.

Transfer moulding machines



Final machining

Cold formed parts are becoming more and more complex. One component has to perform many different functions. The esw GROUP meets these requirements by applying of modern CNC machining technologies.

All usual cutting methods, e.g. tapping, milling, turning and thread cutting, are applied. This makes it possible to produce the most complicated parts with precisely fitting parts.



CNC machining centre





Roller technology

To produce the most varied screws, especially for the building area, we use the roller technology as our standard procedure. With this, we apply flat and rotary rollers equally.

The esw GROUP produces special screws up to size M24 according to customer drawings.

On request, all parts can be coated with the most varied surfaces, coatings and thread locks.



Wire rope technology

Ropes and their connection with cold formed or stamped parts are often used in safety relevant areas, often with a life-saving function in safety belt tightening systems in vehicles.

It is a particular strength of the ESW GROUP, to be able to offer these flexible systems as a component.



Machine for cutting ropes to lengths



Components



Automatic assembly machine for checklinks

The assembly of components shows the complex cooperation of all business fields of the ESW GROUP. This overlapping area comprises the manual as well as the automatic assembly of components. We especially mount plastic coated stamped parts and cold formed parts to produce many different kinds of components.

A special example of a connection of cold forming and stamping technology is the ESW ceiling anchor, a self-developed and protected component for the building industry used as a fixing element for dropped ceilings.



Design and development

Design and development has an outstanding importance with the ESW GROUP.

Our own development department ensures that we achieve market maturity for new products in cooperation with our customers. At the same time, cooperation with the universities and technical schools is important to us in order to further take a front row part in the developments.

We work with the most modern 3D-CAD-systems and are able to process all usual data models. We simulate complicated forming processes with a special software which allows us to explore additional optimization potentials.

Martin Hebestreit
Designer

“The outstanding development of the ESW GROUP in the different business fields is clearly recognizable particularly in our department. The implication of new ideas is an exciting challenge.”



Tool construction

The esw GROUP can reach further competition advantages with its own tool making department. With this, we are able to receive an essential share of the tools from our own production and to maintain and to repair them ourselves. Short phases from the design to the production of a tool bring synergies and various advantages for the company group.

The field of tool making involves HSC-machining, CNC-milling, turning, as well as wire and countersink erosion.

This business field is very promising which shows the very high rates of training and hiring in this area.

Marc Pöttsch

CNC-Programmierer

“In the esw GROUP, dealing with most modern technologies is taken for granted. We have the opportunity to further educate ourselves through a variety of tasks and with this we can learn something new every day.”



HSC milling machine



Wire erosion



Quality and environment

The ESW GROUP is an innovative group of companies for which quality, environment, and employee consciousness is a permanent challenge in each branch of the enterprise. We are able to reach ambitious goals which is proven by certifications according to ISO/TS 16949 and DIN EN ISO 14001.

As the winner of the Thüringer Staatspreises für Qualität 2004 (Thuringian State Award for Quality 2004), we understand the factors of quality, environment and work safety as an overall task. In the course of further process optimisation, we are working on the introduction of the EFQM-Model and make the development of quality to be an entrepreneurial objective.



Thuringian State Award for Quality



Contact



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Beste Verbindungen

Eichsfelder Schraubenwerk GmbH

ESW Bohemia k.s.

ESW Autolog GmbH

- Cold forming up to \varnothing 25 mm
- Stamping
- Final machining
- Design and development

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Beste Verbindungen

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- Plastic technologies
- Wire rope technology
- Assembly and components

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