



Umform- und Fügetechnik Eisenach GmbH

Eisenach site | Germany

Amrastraße 5 | 99817 Eisenach | P: +49 (0)3691 / 7566 - 512 | F: +49 (0)3691 / 7566 - 519 | www.ufe-gmbh.de | info@ufe-gmbh.de



Within the automotive sector, the company Umform- und Fügetechnik Eisenach GmbH is the specialist for pressed parts with up to 16,000 kN of pressing force and complex welded assemblies. The operating areas:

- Transfer presses with 16,000 kN of pressing force, machine table size up to 5000 x 2200 mm
- Conventional pressing with coil feeding systems and automation technology from 3,150 kN to 8000 kN, machine table size up to 4000 x 2500 mm
- Automatic welding and welding robots in automated cells, spot- and projection welding, MIG, MAG and MIG soldering
- Manual welding, spot-, projection- and stud welding, MIG, MAG
- Tube processing under the press as a cost-effective alternative to internal tube hydro-forming
- Toolmaking, R19SP3, AutoCAD, CATIA V5, Forming Suite 8.0
- Optical measuring- and digitalization system/3D scanner

Our in-house tool construction allows us to respond quickly and flexibly to the needs of our customers. Qualified tool support is therefore ensured for every production phase. In-house presses provide optimal opportunities for tool trials and induction.

Our company and the production procedure are certified according to ISO/TS 16949 – third edition. Quality assurance personnel are trained on a regular basis by the Deutsche Gesellschaft für Qualität (German

Data & facts



Founding year	1991
Employees	ca. 220
Revenue	ca. € 40 m.

Managing directors

Dipl.-Ök. Rainer Erdmann
Dipl.-Ing. Markus Naumann

Sales manager

Markus Nettelbeck

Quality assurance

Certified according to ISO/TS 16949



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Umform- und Fügetechnik Eisenach GmbH



Aluminium mounting supports
850 x 550 x 70 mm



Transfer parts – gusset plate
670 x 280 x 130 mm



Resistance spot welding | wheelhouse assemblies
1000 x 400 x 400 mm



B-pillar / CPW 800
980 x 330 x 140 mm



Tube press deformation
500 x ø 70 mm



MAG welding | middle armrest for cars
500 x 200 x 70 mm

Society for Quality). The quality assurance system is documented in the quality manual and has a special significance within our range of services. All delivered parts are tested and of the highest quality.

Products

Materials	Different steel grades, aluminium, stainless steel
Dimensions	Machine table size up to 5000 x 2200 mm, sheet-metal thickness up to 3 mm
Range	Medium- to large parts Welding assemblies
Industries	Automotive industry Automotive supplier industry Shopfitting Household-appliance industry
Special features	Tube forming under the press

Range of services

Forming technology

- Transfer presses from 16,000 kN of pressing force, machine table size up to 5000 x 2200 mm
- Conventional pressing with coil feeding systems and automation technology from 3,150 kN to 8,000 kN, machine table size up to 4000 x 2500 mm

Joining technology

- Automatic welding and welding robots as well as adhesive equipment in automated cells, spot- and projection welding, MIG, MAG and MIG soldering, gluing
- Manual welding, spot-, projection- and stud welding, MIG, MAG

Tube forming

- Complex tubular components with high strength and various cross-sections including punch- and cutting operations as well as end processing
- Mechanical presses with a pressing force of 10,000 kN
- Machine table size up to 4000 x 2800 mm
- Precision steel tubes in dimensions from ø 30 mm up to ø 90 mm with wall thicknesses from 1.5 to 3.5 mm
- Fixed lengths with a maximum of 1200 mm
- Soft-, low-alloy- to high-strength steel is used
- In-house simulation module for high process reliability
- Tube forming in fixed lengths for the 3D-formed component is carried out without active media

Tool maintenance

- Full service – planning of tools, construction and trial, further processing until “just-in-sequence” logistics
- Optimal opportunities for tool trials and induction



Transfer presses



Welding cell



Tool construction



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