

Leading-edge welding engineering
Series welding

Sophisticated technology
Truly reliable
Innovative



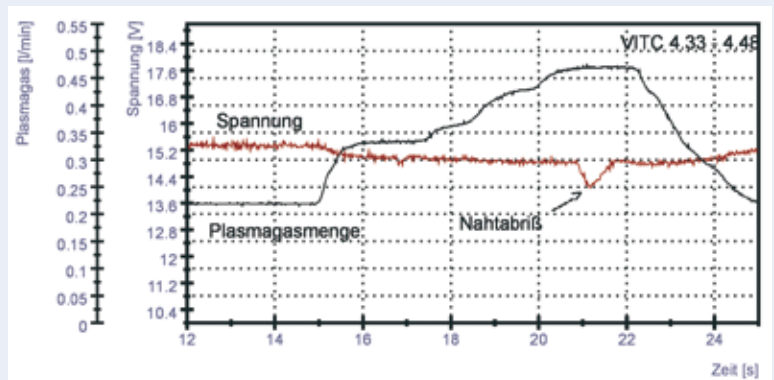
Tests, developments, prototypes

- Feasibility studies and problem solutions
- Optimization of welding parameters
- Measuring and video techniques for transparent processes
- Various welding techniques for any material



← 7 mm →

Precision welding monitored by closed-circuit TV



Metrological assistance to studies and surveys

Consulting, problem-solving

- On-site consulting and solving of problems
- Engineering assistance from drawing-board stage to series production
- Measuring and video technologies for any welding technique
- Process monitoring
- Inspection of welding systems



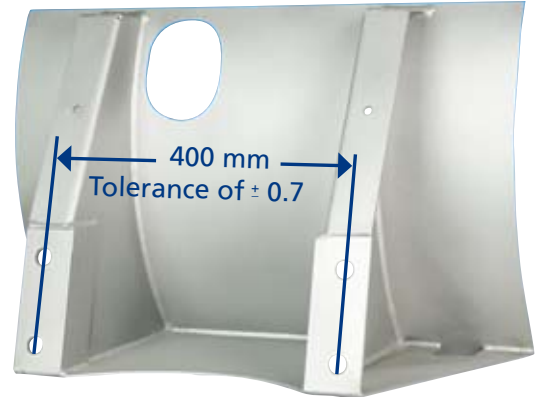
Video recording

Supplying fully welded assemblies

- From the size of a fingernail to structures of 300kg
- Complex dimensional characteristics
- Parts with edge lengths of up to approx. 1200mm
- Cooperation with renowned specialists and suppliers
- Cost advantages due to efficient manufacturing
- Guaranteed reliability in terms of delivery dates and quality



Distribution unit of nickel-chromium steel



Distortion-reduced welded assembly

Series welding

- Automatic series welding by means of 7 robots and CNC systems
- New cost-efficient design approaches by special process variations
- Various welding techniques for any material



- **Our speciality is plasma arc welding (see overleaf)**
- Laser beam welding (see overleaf)
- Exceptionally flexible configuration of robot systems
- Precision welding of materials with a thickness from 0.1 mm on
- Specialist technologies for distortion-reduced welding
- Manual welding of small series
- In-house construction of jigs and fixtures

Plasma arc welding

- A good option – if the quality reached by metal arc welding is insufficient or accuracy requirements of laser beam welding are too high
- Sometimes the only welding technique to solve a difficult problem
- Welds of superior quality, free of spatters
- Low heating supply, limited distortion
- Plasma arc welding requires considerably less component accuracy than laser beam welding

In-house development of accessories for plasma arc welding

- Optimized plasma torches
- Wire-positioning equipment

Plasma arc microwelding



Bellows with a wall thickness of 0.1mm



Laser beam welding

- Laser beam welding
- 3-D laser cutting
- Laser boring
- Laser hardening
- Extensive experience and competence



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