

Your partner for user related total solutions in the area of micro resistance welding

TECHNICAL CONSULTING

Globalization of markets and increasing individualization of demands require fast application of new technologies and reduction of the time period from product development to massproduction. For any company-internal Engineering Team a challenging task, which can often only be solved by using of external ressources.

We offer you in the area of the resistance welding engineering the technical competence and the flexibility, which you have to expect from an external partner. Our focus are the customer-oriented design and implementation of a total solution.









Our Focus:

- Microwelding
- Insulated wire welding (Hot-Staking)
- Thermocompression welding
- Resistance soldering
- Compacting

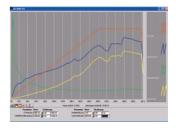
Based on our long experience we are able to manage tasks related to resistance welding engineering in a optimal and comprehensive way. We afford you a service offering for the economic production of high-quality products.

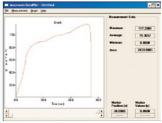
Our Business Activities:

- Carry out first welding tests
- Manufacture parts of small series
- Technical consultation at stages of development
- Support at the commissioning of machines









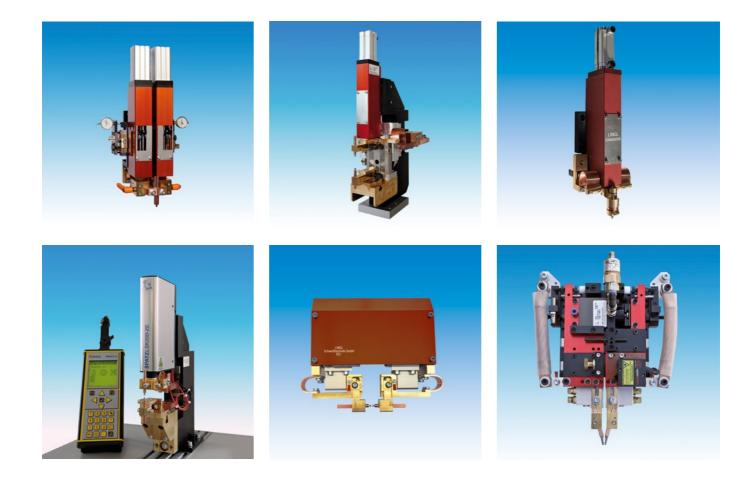
WELDING HEADS

The base of an efficient and reliable manufacturing concept is the choice of the right mechanics.

Our range of products:

- Pneumatic welding heads
- Welding heads with motor-driven system
- Gap and step welding heads
- Floating or centric closing welding gun
- Lifting unit
- Special electrodes and devices for insulated wire welding and thermocompression welding





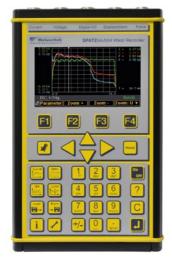
WELDING CONTROLS

With MATUSCHEK Messtechnik GmbH we have a cooperation which supplies the most modern welding control technique since 1985. Their in-house engineering team and their deliveries to well known industrial users guarantee the ongoing enhancement of hard- and softwaresystems.

Among other things the correct selection of the controland the measurement-technique are determining factors for the quality of the welded joint. Therefore we offer you a preliminary analysis.

Our Process Measuring and Control Technology:

- 20 kHz High-Frequency Inverter Technique up to 65 kA
- 1 kHz Medium-Frequency Inverter Technique up to 28 kA
- Universal remote control with plug-in connection to the weld power supply
- Mobile measuring instrument systems
- Force- and displacement systems
- Software for the connecting link between production, quality control and process engineering
- Welding quality assurance software





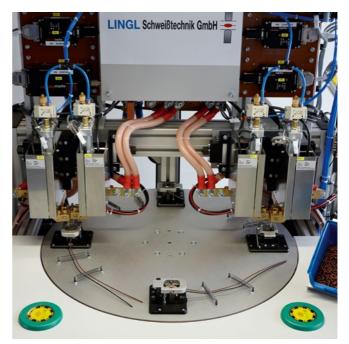


SYSTEM SOLUTION

Flexibility with respect to high quantities and product variants is often an important factor for the specification of the manufacturing concept. This can be often only ensured by the use of manual working station.

Manufacturing Concepts:

- Simple manual working station
- Semi automated manual working station with pneumatic or manual sliding devices
- Part automated manual working station with pneumatic rotating device
- Manual working station according to ESD (Electro Static Discharge)



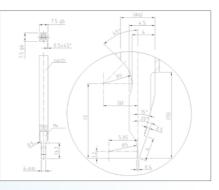


ELECTRODES

The correct choice of electrode in material and shape affects the quality of the weld joint. Welding electrodes not only transfer the welding current to the workpiece, but also apply the electrode force. Therefore they must satisfy both electrical and mechanical requirements in the same way. Shape, mass and electrode material and their electrical and thermal conductivities – have a direct effect on the heat balance of the welding process.

We offer you different electrode material depending on kind of the materials to be welded together.







Our Electrodes:

- CuCrZr
- CuCoBe
- CuWo
- TZM
- Tungsten
- Molybdenum

The Lingl welding engineering supplies standard- and special electrodes adapted to the welding process in the highest quality.



Administration and sales:

Kerschlacher Weg 12 82346 Andechs Telefon: 08142 / 66974-0 Telefax: 08142 / 66974-29

Production and welding lab:

Rudolf-Diesel-Straße 29 a 82216 Maisach - Gernlinden Telefon: 08142 / 66974-0 Telefax: 08142 / 66974-29

 $www.lingl-schweisstechnik.de\cdot info@lingl-schweisstechnik.de\\$