

## Technologies in our assembly and automation systems

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### Get an overview of our High Tech possibilities

Since 1991 we have been working in the field of special machine construction. For decades, we have been able to acquire a broad know-how for a wide variety of processes and technologies through the large number of customer projects and requirements.

Our employees are the most important knowledge providers. They are characterized by a high level of qualification, a high level of experience and a high level of technological competence. From classic assembly processes such as feeding, joining, cutting, welding and testing to state-of-the-art control systems and image processing programs to unique and patented process solutions for wire laying and personalization / perforation, at ruhlamat you are in professional and competent hands.

Below is an overview of our technological core competencies divided into our various business areas.

### Assembly and OEM Area

#### Labeling/Marking

- Labeling
- Laser marking

#### Joining/Bonding

- Gluing
- Crimping
- Shrinking
- Wire embedding

#### Dispensing

- Adhesives
- Liquids

#### Measuring

- Force/Path
- Torque
- Leakage
- X-Ray
- Radar

#### Testing

- Presence
- Colour
- Electrical

#### Sorting/Feeding

- Spiral conveyor
- Linear conveyor
- Ascending conveyor
- Pick & Place

#### Control Systems

- Omron
- Siemens S7
- S7 TIA
- OPCON
- OPCON+
- B&R

#### Image Processing

- Measuring
- Identifying

#### Ultrasonic Wire Laying

- 2D Area
- 3D Area

#### Separation

- Punching
- Metal cutting

#### Packaging

- Sealing
- Shrink wrapping

## Welding

- Ultrasonic
- Resistance
- Laser

## Card & Passport Systems

### Labeling/Marking

- Labeling
- Laser marking

### Joining/Bonding (Inlay Production)

- Bonding
- UV Curing
- Ultrasonic Spot Welding

### Dispensing

- Cast resin

### Measuring

- Offset

### Testing

- Presence
- Colour
- Code
- Electronical
- Bending & Torsion

### Sorting/Feeding

- Rotary feeder/stacker
- Magazine feeder/stacker
- Web input
- Pick & Place

#### Control Systems

- Omron
- B&R

#### Image processing

- Inspecting
- Identifying
- Verifying

#### Ultrasonic Wire Embedding

- 2D area
- 3D area

#### Separation

- Punching
- Varnish remove

#### Personalisation

- Colour printing
- Laser engraving
- Perforation (PERFLEX)
- Micro perforation

#### Others

- Lamination
- Encoding
- Glue Tape Application

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