

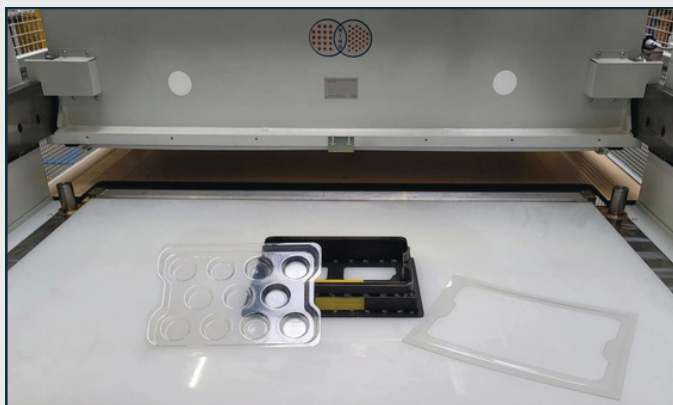


# HYDRAULIC UPSTROKE CUTTING MACHINE

## HTR

The basic idea was to develop a series that combines the optimum combination of punching force, stroke, speed, passage height, passage width, usable punching area, ease of operation and ease of maintenance.

Our many years of experience in the fields of punching, perforating and embossing have led to this modular machine concept. It can be individually designed for the respective application, while being powerful, reliable and economical perfectly tailored to your requirements.



|                              |                            |                            |                              |
|------------------------------|----------------------------|----------------------------|------------------------------|
| Table width                  | 1200/850/630               | 1600/850/800               | 1600/1050/1000               |
| Table depth                  | 1200 mm                    | 1600 mm                    | 1600 mm                      |
| Punching force/ Table height | 850 mm<br>630 kN<br>900 mm | 850 mm<br>800 kN<br>900 mm | 1050 mm<br>1000 kN<br>900 mm |

## Optional accessories

- Punching plate shifting device
- Material feed
- Stationary/adjustable knife holder
- Workstation lighting
- Steel punching plates
- Feed device
- Laser device as positioning aid
- Passage height increase
- Servo hydraulics
- Electric heating plate

## HTR SERVO

Discover the advantages of the HTR-Servo servo-hydraulic lift table punch, the innovative further development of our proven model with conventional hydraulics.

The HTR-Servo impresses with its wide range of adjustment options for punching speed and standing pressure. Thanks to this individuality, a wide variety of materials can be processed with this system.

The servo hydraulics demonstrate their superiority particularly with high materials or embossed products.

Another advantage is the energy-efficient operation: the drive motor is only active in working mode, which means considerable energy savings depending on the application.



# INNOVATIVE AUTOMATION SOLUTIONS FOR YOUR PRODUCTION

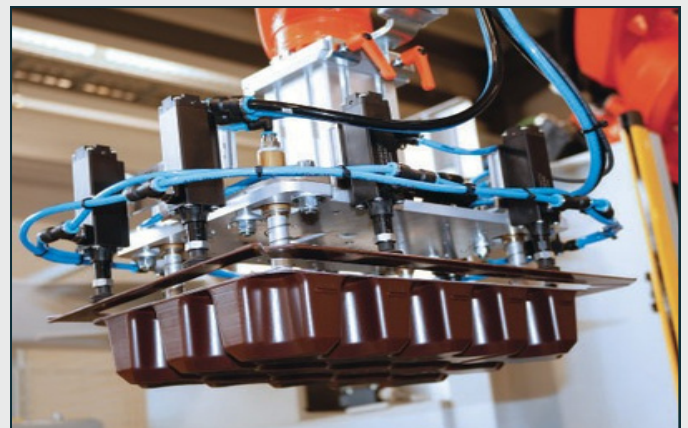
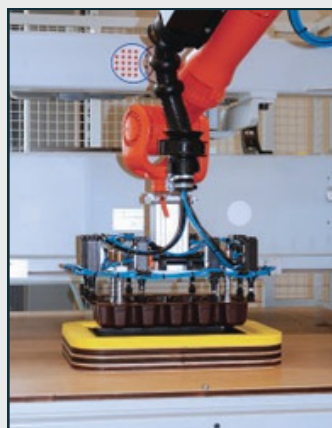


## HTR-System with automation

The automation of technical processes makes many production tasks significantly more economical and safer.

This increases efficiency and ensures greater safety in the workplace.

Material feeding, punch scrap disposal and parts removal can be individually designed and adapted to your requirements.



# CROSSHEAD DIE CUTTING MACHINE

## KBS

The machine offers precise mechanical processing, which guarantees exact parallelism between the machine table and the punching carriage. The punching carriage's travel path extends across the entire passage width and is moved by a servo motor-controlled ball screw spindle. Both the punching movement and the return stroke are hydraulic, with the cylinders and pistons installed vertically in the pressure unit. The punching knife height is adjusted by lowering the pressure plate without pressure, which allows to easy and precise adjustment.

The dimensions of punching tables and pressure plates are designed in consultation with the customer and optimised to meet their requirements.

Punching force 300 kN | 500 kN | 750 kN | 1000 kN



## KBSF 1500

The KBSF 1500 electro-hydraulic upper piston punching machine is constructed from an extremely torsion-resistant welded steel structure and features a permanently mounted pressure unit. The punching movement and return stroke are performed hydraulically, with the cylinder and piston installed vertically in the pressure unit. To increase the cycle speed, the machine is equipped with a piston system that keeps the compression chamber of the cylinder filled with hydraulic oil during the punching movement. This means that the pump only has to supply the required amount of oil in the fast cycle sequence, which increases efficiency.







## Optional accessories:

- Waste extraction box
- Automatic punching plate shifting device
- Material retaining bar
- Hydraulic/pneumatic internal ejector
- Separate blank removal belt
- Automatic knife change
- Material feed device
- Punching belt system
- Automatic sliding table
- Revolver head
- Rotatable pressure plate
- Automatic punch grid removal
- Automatic plate feeder
- Matrix clamping plate for tool





## HYDRAULIC LARGE AREA DIE CUTTING MACHINE

### GFS

The GFS is built with a very stable welded steel construction. This design features on extremely high torsional stability and excellent parallelism. This means that even at full load outside the centre of the table, the machine runs losses parallel and can apply the punching pressure without extremely high.

### GFSR

This hydraulic large-area punching machine with a retractable bridge is constructed in a very stable welded steel structure. Thanks to its design, it has an extremely high torsional stability and excellent synchronisation properties. This means that even at full load outside the centre of the table, the machine runs parallel and can apply the punching pressure without any loss. The retractable bridge allows the machine to be loaded and operated manually, which significantly increases flexibility of.

# TYP GFS- UND GFSR

## Optional accessory

- Increased throughput
- Oil-air cooling
- Automatic sliding table
- Punching grid removal
- Automatic plate feeder
- Knife holder, stationary adjustable
- Central knife clamping device manual or pneumatic
- Automatic punching plate shifting device
- Thermo-oil-heated embossing device
- Punching belt system
- .....and much more

### Punching force:

1250 kN | 1600 kN | 2000 kN | 2400 kN | 3000 kN

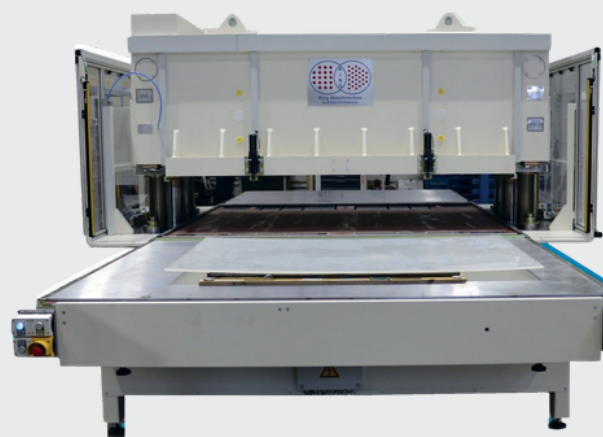
## GFS with automatic plate feed



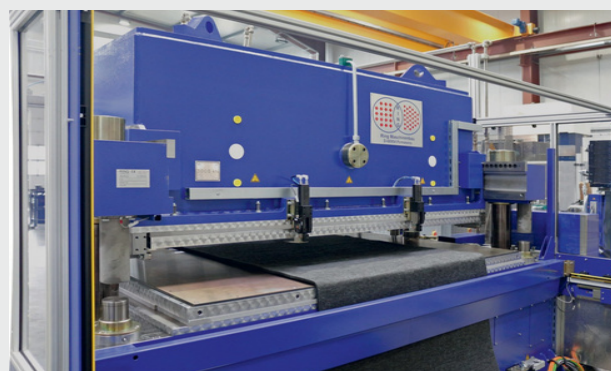
(Space-saving stage construction for control cabinet and hydraulic unit)



## GFS with sliding table



## GFSR with heating plate





# HIGH SPEED CUTTING MACHINE

## ST 90D-4S/A

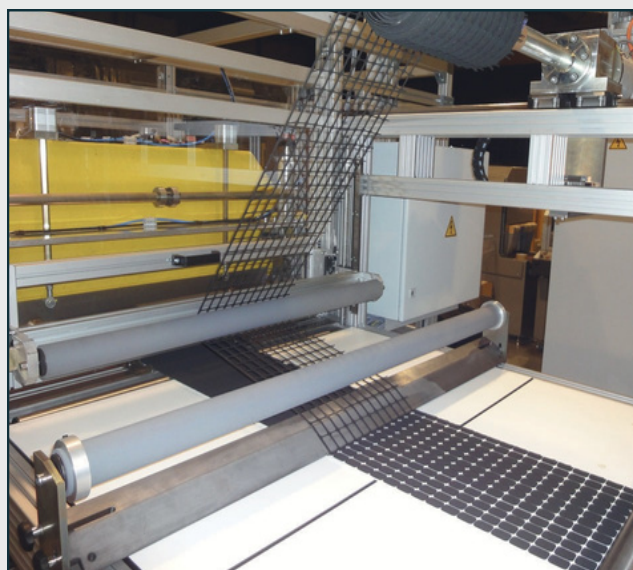
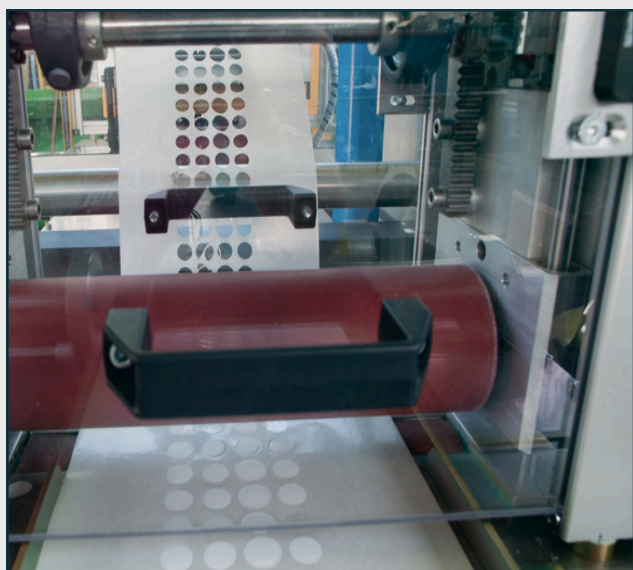
The ST 90D-4S/A high-speed automatic punching machine is the result of 50 years of experience in the construction of eccentric punching machines, combined with today's user requirements in the field of punching technology for high quantities. Depending on the configuration and application, this modular 'high-speed' automatic punching machine can achieve up to 300 cycles per minute. It is ideal for punching steel and plastic strip and offers kiss-cut capability as a special highlight.



|                             |               |               |               |               |               |               |               |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Punching force</b>       | <b>200 kN</b> | <b>400 kN</b> | <b>400 kN</b> | <b>400 kN</b> | <b>400 kN</b> | <b>400 kN</b> | <b>400 kN</b> |
| <b>Usable punching area</b> | 300 x 300     | 500 x 300     | 600 x 300     | 600 x 450     | 600 x 600     | 1000 x 300    | 1000 x 450    |

### Optional accessories

- Material unwinder
- Stock loop control
- Winding device for punched mesh
- Servo breakout station
- Stacking device with interchangeable magazine
- Plastic punching tape
- .....and much more





# UPPER PISTON LARGE AREA PUNCH PRESS

## OKS

Our innovative machine impresses with its torsion-resistant construction, which guarantees enormous stability and outstanding synchronisation properties even with off-centre loads. Thanks to its generous surface area, it is perfectly suited for working with hardened steel punching plates and manufacturing kiss-cut products with the highest precision.

With its excellent embossing properties and the ability to be operated with various moulding tools, it offers a wide range of applications in production. The intelligent design allows almost unlimited working and stroke heights, so that you can respond flexibly to different requirements.

Rely on our machine for efficient machine for, safe and precise manufacturing processes that meet the highest demands in your production!



# ROLLER CUTTING MACHINE

## RS

Roller cutting machines are suitable for the efficient punching of large quantities of leather, textiles and other materials. They are designed in a very stable construction. The precise manufacturing process ensures parallelism of the rollers, resulting in low wear on tools and cutting plates, while simultaneously allowing large-area utilization of the leather hides.



### Highlights:

- Separate height adjustment for each preparation table
- Punching area from 1700 x 3000mm to 2500 x 3000mm

### Equipment variants:

- 2, 4, 6 or 8 preparation tables
- 1/2 sandwich plates
- Cycle counter
- Countdown for table release





# UNIVERSAL MASCHINES

## SAS

The universally applicable swivel arm punching machine is made of cast steel. It has a blade height adjustment that can be changed using the hand wheel located above. The available stroke can be continuously adjusted using a rotary potentiometer. Activation is via a two-hand control. All operating elements are installed on the swivel arm for on ease use.

### **Punching force:**

SAS 180/1 HU - 180kN

SAS 250 HU - 250kN



## KBS HU

The cart beam punching machine is constructed from welded steel. The punching movement is performed by a hydraulic cylinder located in the punching cart.

The hydraulic drive and control components are housed in the machine stand.

The punching cart is moved by an electric motor at the touch of a button. The HU/A version offers the option

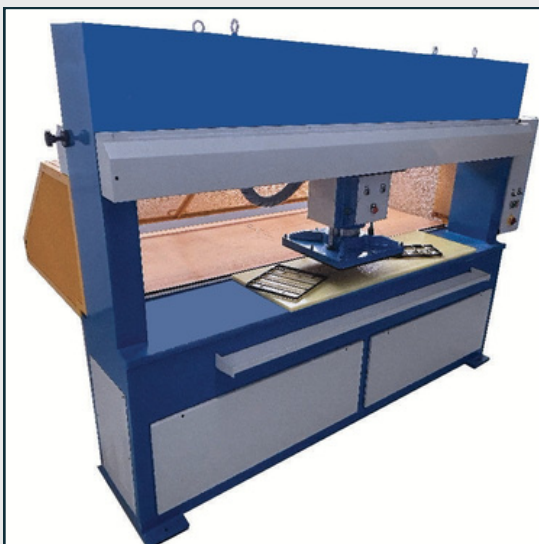
of automatically moving the cart away after punching. The travel distance can be adjusted using a potentiometer. All controls for punching and movement are clearly arranged on the punching cart. The return stroke can be continuously adjusted using a potentiometer on the control cabinet.

### **Punching force:**

KBS 250/1600 HU - 250kN

KBS 250/2250 HU - 250kN

KBS 250 - HU/A - 250kN

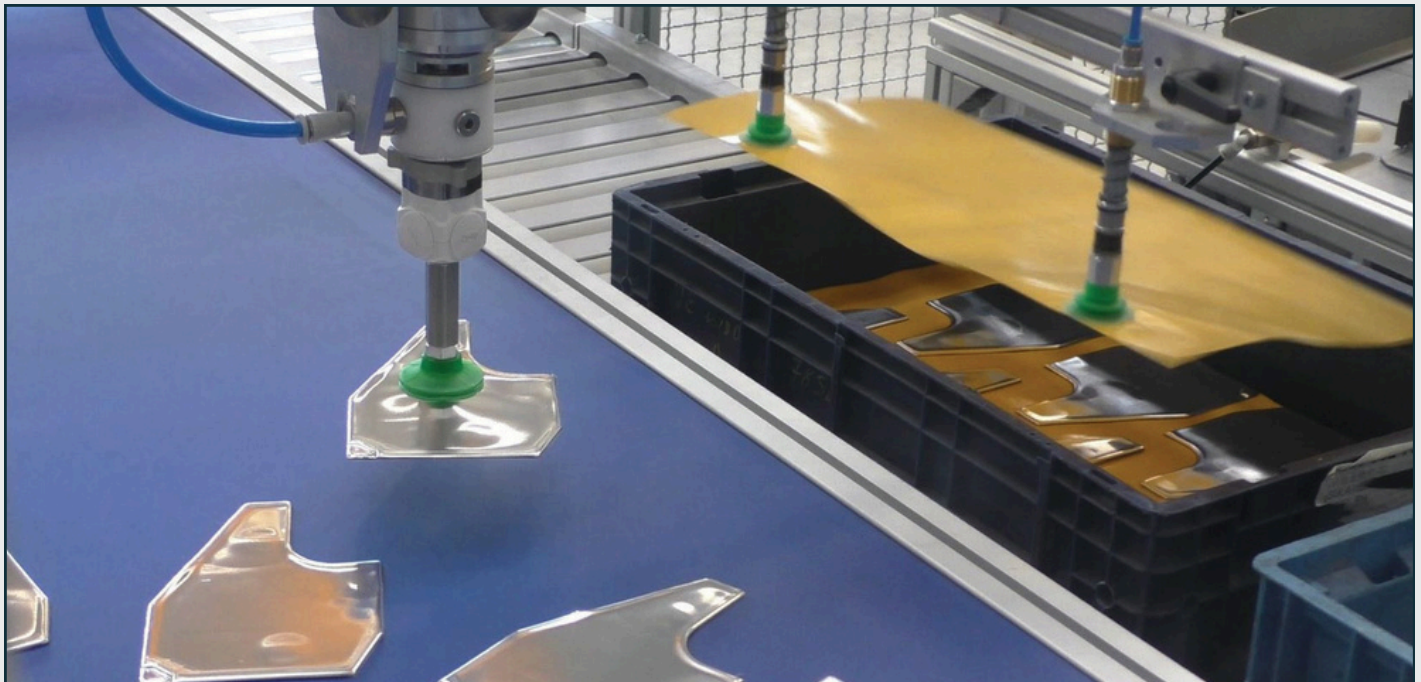
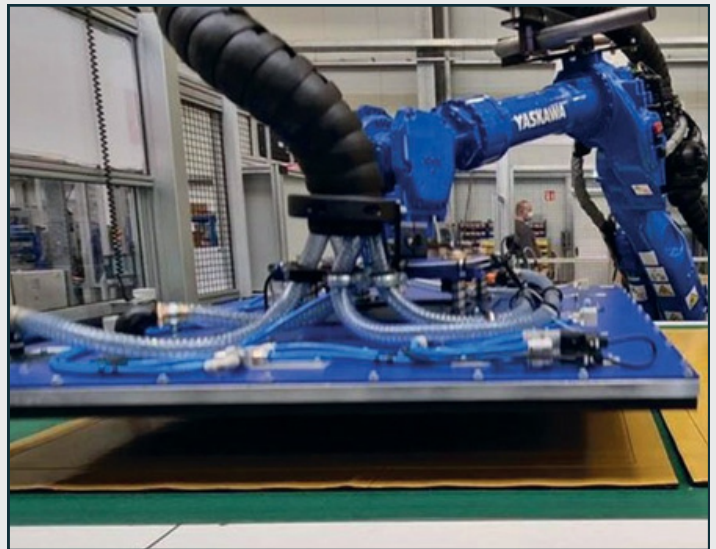
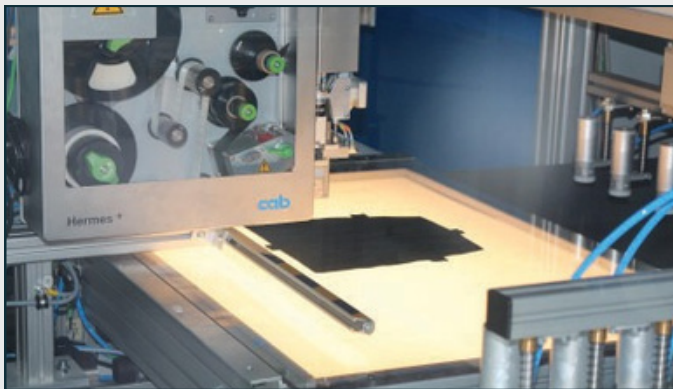


# CUSTOMISED AUTOMATION

We offer state-of-the-art technologies for automating your manufacturing processes. These include the use of automatic loading and unloading systems with robots or handling modules, which enable efficient interlinking of individual processes. Smooth operating processes are ensured by the integration of conveyer and handling technology. We also integrate various marking systems, such as printing or labelling units, to optimally mark your products. For the highest quality, we rely on image processing systems for quality assurance.

Our solutions also include the use of various adhesive and joining techniques, as well as the use of rotary indexing tables and much more.

We are happy to support you in implementing your individual tasks and develop tailor-made automation concepts for your company.







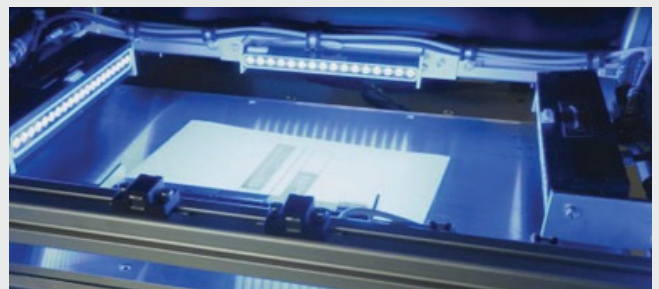
## RING: Your partner for customised special machine solutions

At RING, we develop, design and manufacture complex specialpurpose machines that are precisely tailored to the needs and requirements of our customers.

Whether you need embossing machines, packaging systems, control systems or handling tasks, we will work with you to find the right, efficient solution to increase your productivity and quality.

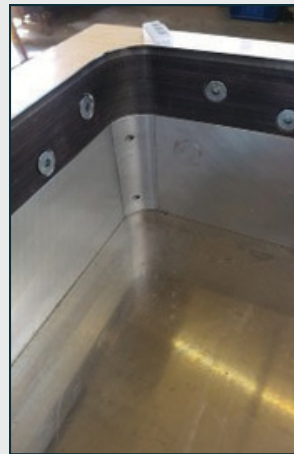
As a customer, you benefit from our fullservice package: a personal contact person will accompany you from the initial concept to the commissioning of your system. After commissioning, our experienced aftersales department is available to you at any time with service and maintenance services.

We look forward to working with you to implement your individual requirements!



# INNOVATIVE DIE CUTTING

- Punchings on/in thermoformed parts
- Filters
- Seals
- Carpets
- Moulded parts made of aluminium foil
- Sandpaper
- Blister packaging
- Leather parts
- Moulded parts made of foam
- Stamping dies
- Steel strip cutting tools for deep-drawn parts
- Steel strip knives
- Solid tree knives
- Forged knives
- Stamp dies Tools
- Special tools
- Stamping devices
- And much more



## PUNCHING KNIVES FOR THE SHOE INDUSTRY

- Forged knives in heights of 19mm, 32mm and 50mm
- Strip steel knives in heights of 19mm, 32mm and 50mm





# SPARE PARTS & SERVICE

## REPAIR SERVICE

We repair every component of your system that we have supplied exclusively with original spare parts. The work is carried out by our service team. If necessary, we can also help you with your third-party system at any time.

## SPARE AND WEAR PARTS

Our service team provides you with expert advice and supplies you with original spare parts quickly and on time.

For you, this means reliable production and no unnecessary downtime costs.

## WE OFFER

Information about costs and delivery times; personal advice on initial equipment; based on our experience, we recommend spare parts concepts tailored specifically to your needs.

## PREVENTIVE MAINTENANCE

As part of preventive maintenance, we inspect your system. We analyse and assess its current condition in order to identify and repair any damage in good time.

## WE PROVIDE YOU WITH

An assessment of the current condition of your system.

An assessment of electrical and mechanical functions.

Determination of repair and maintenance requirements  
Identification of defects and risks.

## TELEPHONE SERVICE / REMOTE MAINTENANCE

Our telephone service puts you in touch with our specialists, who will provide you with expert and helpful assistance with any urgent problems you may have. If necessary, remote maintenance allows us to access your system via the Internet, enabling us to locate faults immediately and provide targeted assistance.

## MAINTENANCE AND SERVICING

To ensure regular maintenance of the machines by trained personnel, we recommend that our partners take out up-to-date service and maintenance contracts as a preventive measure. This service is carried out by our experienced specialists from the service team. They replace defective parts, identify danger areas and advise on recommended repairs. After maintenance, the responsible departments in the respective company receive a test report with any abnormalities and suggestions for rectification. The agreed maintenance intervals are monitored by our service team so that early information about the next maintenance dates can be coordinated with the partners.

Faults on systems with a maintenance contract have special status.

Companies do not need their own service teams or expensive specialists, who are usually only busy part of the time. A longer service life for production equipment also extends the investment intervals. Annual service for your machines according to a checklist. Maintenance is carried out every 6 or 12 months, depending on the type of equipment and utilisation. Exact dates are agreed in advance by telephone.

The services provided by our service staff include the inspection of all electrical, mechanical, hydraulic and pneumatic parts, including functions and wear.

# RUCOMA



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