

Installation and Commissioning - Fast and Competent

On-Site service

- Troubleshooting
- Safety test
- Machine condition test
- Service check
- Tie bar strain measurement
- Shot adjustment
- Machine Optimisation
- Preventive maintenance
- Hydraulic, mechanical, electrical repairs
- Gauging of pumps
- Testing of piston accumulators and nitrogen bottles
- Machine relocation
- Dismantlement of oversized machines
- Machine alignment
- Geometric measurements

Your benefit (hydraulic, mechanical, electrical)

- Fast and on-time production start-up
- Benefit from our dedication and experience

Troubleshooting in Electrohydraulic Systems and Rectification!

We bring everything along

Special tools for:

- Machine alignment with laser technologies
- Shot alignment with laser technologies
- Ultrasonic tests
- Mobile milling and spindle technologies
- Welding technologies (e. g. rotation welding: inside and outside circular)
- Hoisting vehicle Boom-Truck up to 50 t
- Pressure testing system with 3.1.b. certificate

Strain measurement

Exact adjustment of the machine by means of strain measurement ensures high production quality and reduces wear out

Shot adjustment

The shot is precisely aligned with the latest laser technologies





Modernisation and Revision Fresh Wind for Existing Production Facilities

Machine service on site

In the annual inspection, the following is performed:

- ▶ Maintenance of tiebar and tiebar nuts
- ▶ Leveling the machine
- ▶ Control of sliding plates, sliding belts and guiding elements
- ▶ Condition and function checks of closing force regulation, casting valves, cooling system, hydraulic system, filtration, sensors and actuators, control system components
- ▶ Diagnostics of pump systems and proportional hydraulics
- ▶ System and security checks

Your benefit

- ▶ Reduce operating costs
- ▶ Increase system availability
- ▶ Extend machine lifetime
- ▶ Reduce downtimes

Retrofit your Die Casting Machine!

Regulated shot

- ▶ Latest technology
- ▶ Regulated production
- ▶ Completely no new control needed
- ▶ Shot optimisation

Safety door

- ▶ Extruded aluminium profile
- ▶ Free ground anchoring
- ▶ Protection by safety switch
- ▶ Device to prevent access/stepping behind
- ▶ Control integration and installation on request
- ▶ Stroke adjusted as needed

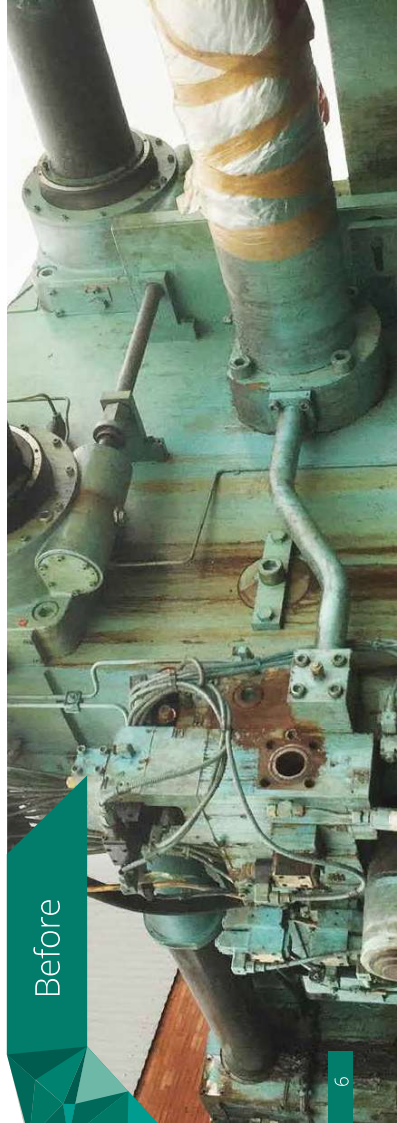
Path sensor

- ▶ Very robust
- ▶ High accuracy (0.1 mm)
- ▶ Integrated GK return signal
- ▶ High compatibility

Tiebar withdrawal

- ▶ Faster change of device
- ▶ Lower machine downtime
- ▶ Increasing safety at work
- ▶ Mobile retrofitable on site
- ▶ Change / optimization of existing, vulnerable systems
- ▶ Higher availability of machine

Before



After





Preventive Maintenance. Reduction of Unplanned Downtime.

Inspections of installations (twice a year or annually):

- ▲ Regular assessment of the machines
- ▲ Testing electrical and mechanical functions
- ▲ Assessment and evaluation of wear parts
- ▲ Determining the need for maintenance
- ▲ Documentation of defects and risks
- ▲ Advice on measures to be initiated
- ▲ Assessment of functionality
- ▲ Safety test

Hydraulic service on site

- ▲ Gauging of pumps
- ▲ Repairs
- ▲ Mobile test bench
- ▲ Hydraulic hoses
- ▲ Cylinder construction and overhaul
- ▲ Repair of equipment (hydraulic, mechanical, electric)
- ▲ Pressure testing of nitrogen bottles, pressure vessels etc. according to DIN EN10204
- ▲ Mobile piston rod repair / mobile electroplating
- ▲ Non-destructive, endoscopic examination of hydraulic equipment
- ▲ Analysis of the medium

Pump overhaul

Let us check your defective pump.
You will receive a free quote for the repair.

Transportable test bench

Testing of hose lines and pressure bodies (eg piston accumulators or nitrogen bottles according to DIN EN10204 with 3.1.b. certificate)



Electronics Service for Your Die Casting Machine

Our portfolio

- ▶ Troubleshooting
- ▶ Diagnosis and troubleshooting in machines and plants
- ▶ Switch cabinet construction
- ▶ Software and measuring electronics for casting process documentation
- ▶ Programming of SPS controls (also peripherals)
- ▶ Programming according to IEC - 61131
- ▶ Development and production of controls for die casting machines and accessories
- ▶ Machine cabling on site
- ▶ DGUV3 exam
- ▶ Energy efficiency
- ▶ Circuit diagram creation in E-Plan
- ▶ Systems CE creation

Electronics service

- ▶ Diagnosis and troubleshooting of machines and systems
- ▶ Siemens S7/F
- ▶ Profibus / Profinet
- ▶ HMI PC-based or panel

Cabling and Commissioning in 3 Weeks!

Hardware switch cabinet construction

- ▶ High ease of use
- ▶ One control panel for all operating and display elements
- ▶ Network connection for PDA / control station
- ▶ Safety standard (EN869)
- ▶ Standard interfaces: after metal supply, sprayer, removal
- ▶ Protective fencing wired or bus system

Software switch cabinet construction

- ▶ Language switch German - national language
- ▶ Parallel operation via touchscreen and keyboard
- ▶ Very simple shot curve programming
- ▶ Free tool management

