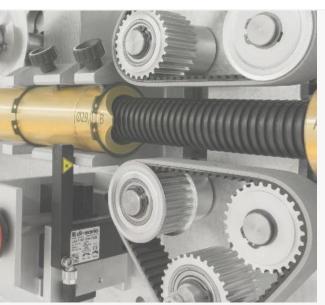
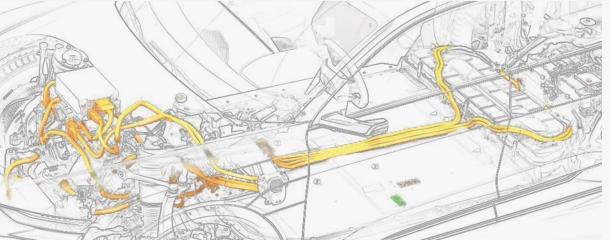


CABLE- AND CORRUGATED TUBE PROCESSING

Stand 04/2021















AGENDA

WHO WE ARE

CUT AND STRIP

TRIATHLON SYSTEM

UNIVERSAL CUTTING MACHINES

CORRUGATED TUBE PROCESSING

PERIPHERAL EQUIPMENT

EFFECTIVE SOFTWARE SOLUTIONS

INDIVIDUAL SOLUTIONS

CUSTOMER SERVICE

METZNER WORLDWIDE

REFERENCES





WHO WE ARE



BACK IN 1980: FULL OF INVENTIVE SPIRIT & DRIVE

1980

The success story of Metzner
Maschinenbau begins in a small shed in
Ringingen under the name "Metzner &
Böhm Apparatebau". Here, the two
founders, Mr Klaus Metzner and Mr
Helmut Böhm, tinker with the first cutting
machines.











METZNER: ONE STEP AHEAD

THEN AND NOW

1980

Foundation as "Metzner & Böhm Apparatebau GmbH"





1990

Mr Böhm retires for reasons of age, Klaus Metzner takes over the business shares from Mr Böhm. Since then, the company has been trading as "Metzner Maschinenbau GmbH".



2000

Gerhard Rauch joins as new managing partner



2007

Takeover of the mechanical engineering company Max Müller. Expansion of the product range to include impact knife, mandrel cutting and eccentric cutting machines.



2011

Takeover of the
"automation
solutions for the
carbide industry"
product division
of Manz AG



2018

Foundation of the company Metzner E-Mobility GmbH in Neu-Ulm





2019

Certification of the quality management system of Metzner Maschinenbau GmbH according to ISO 9001:2015





FACTS AND FIGURES



125 Employees

full of competence, motivation & commitment



>25 Patents

for our unique & innovative automation solutions



30 Representatives

worldwide



100 Years of Professional Experience



More than 100 satisfied customers

China, India, Europe, USA, Mexico,



METZNER CABLE PROCESSING MACHINES



AM-SERIES

- Processing of shielded cables
- Multi-stage stripping of multicore cables
- Outstanding cutting and stripping force
- With or without rotary cut
- Patented double blade cutting system

TRIATHLON-SERIES

- For precise cutting to length and stripping on one or both sides at the exact position
- For crimping the wire end ferrules
- For individual labeling of the stranded wires with different printing methods
- For sorting the strands according to assembly











UNIVERSAL CUTTING MACHINES

- Quick change of cutting tools
- Programmable logic controller
- Standard stepper motor for precise positioning and variable speeds
- Sensitive contact pressure



CUT AND STRIP





METZNER AM 1000

FEATURES

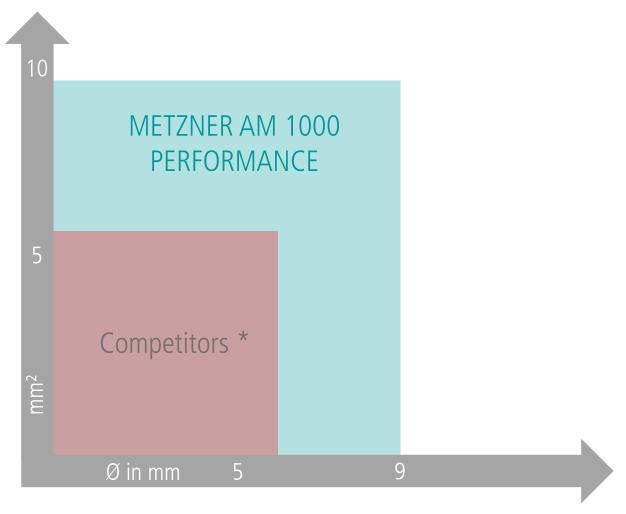
- For cables, stranded wires and wires up to 9 mm diameter and 6 mm² cable cross-section (10 mm²; depending on material)
- Short changeover times thanks to tool-free change of transport rollers and guides in less than 60 seconds
- Equipped as standard for processing cable lists and controlling printers
- Effortless transport due to retractable touch screen and low weight of only 28 kg
- Easy expansion with peripheral devices thanks to extensive interface





SUPERIOR PERFORMANCE

66% more power in terms of diameter and cross-section



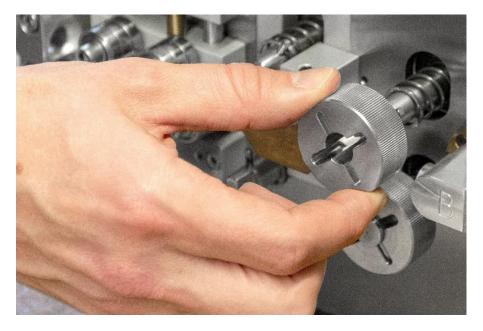
- More power
- More diameter
- More cross section
- More versatility
- Ready for bigger tasks

* e.g. Ecostrip 9850 and Kappa 310



SHORTEST CHANGEOVER TIMES

With tool-free change



Tool-free change of rollers and guide tube in less than 60 seconds.







OPERATING COMFORT WHAT OTHERS DREAM OF

12" Touchscreen

- Largest display (Ecostrip 9380 only 5.7")
- Most convenient data entry
- Best readability
- Foldable screen

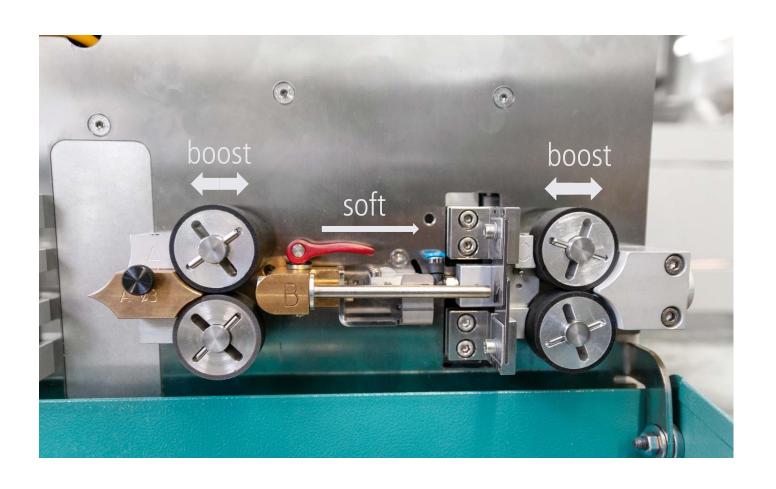




AUTOMATIC PRESSURE CONTROL SERIES

FEATURES

- For particularly gentle cable handling
- "soft" for cable transport
- "boost" for cable take-off





VERSATILE RANGE OF APPLICATIONS



V-KNIFE

For cutting cables



RADIUS-V-KNIFE

For cutting and stripping



LENGTH MEASURING SYSTEM

- In the basic version, the length is reliably determined via the feed motor
- The optional length measuring system provides precise length measurement even when the material "slips" under the rollers during machining





STRAIGHTENER

Curved cables become straight

- Cables that are processed from a spool or from a drum are always curved
- The centrally adjustable straightener straightens these cables - a great advantage for subsequent processing







METZNER AM 3000



HIGH PRODUCTIVITY



OUTSTANDING CUTTING FORCE



VARIABLE FEED SYSTEM



SIMPLE OPERATION



DOUBLE BLADE **CUTTING SYSTEM**



ROTARY CUTTING MODULE

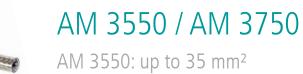
THE RELIABLE MODELS



AM 3500

AM 3500: up AM 3700: up

One complete set of guide bushings included in price Cable diameter: up to 15 mm



AM 3550: up to 35 mm² AM 3750: up to 50 mm²

Cable diameter: up to 15 mm





Machining lengths: from 20 mm

Cable diameter: up to 8 mm





AM 3000 LINE





METZNER AM 3800 | AM 3850







AM 5000 RANGE

FEATURES

- Automatic cut-to-length and multi-stage stripping
- Double system monitoring
- Powerful »Heavy-Duty« version for very thick and hard process cables
- Integration of an Ink-Jet printer
- Transport speed of 150 m/min
- For cables up to 30 mm diameter and with a conductor section of 0.5 mm² to 240 mm².
- Cutting and pull-off power for cables up to 240 mm² with the AM 5800
- Cable processing up to 185 mm² with AM 5850

AM 5800
WITHOUT ROTARY PROCESSING





AM 5850
WITH ROTARY PROCESSING





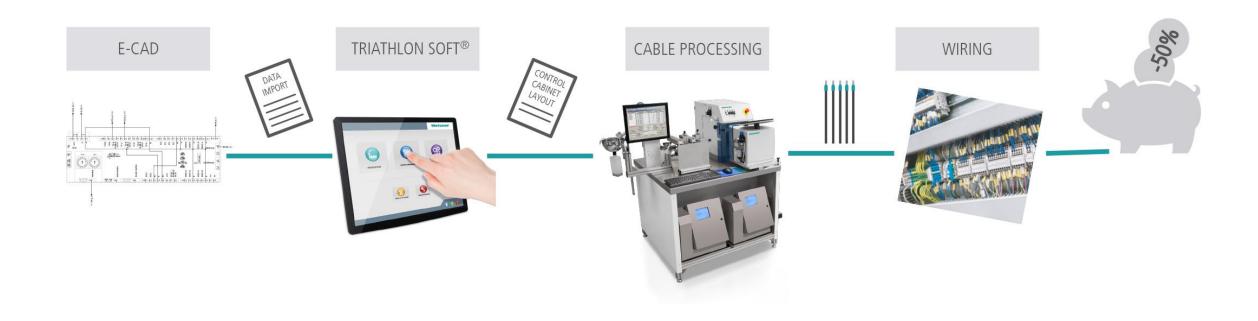
AM 5000 LINE

WITH CLEANING STATION





TRIATHLON SYSTEM





TRIATHLON SERIES

FEATURES

- Precision cut-to-length stripping and single or double-sided stripping
- Crimping of cable ends
- Single-wire marking (inkjet or Brady Wraptor printing)
- Sorting the strands according to assemblies
- Triathlon 3000 offers the entire performance range of the AM 3000 series

TRIATHLON 2000

Cross section: 0,14 mm² - 6 mm² Crimping up to 4 mm²

Ø max.: 6 mm



TRIATHLON 3000

Cross section: 0,5 mm² - 35 mm²

Crimping: bis 4 mm²

Ø max.: 15 mm



TRIATHLON 3000+

Cross section: 0,5 mm² - 35 mm²

Crimping: bis 6 mm²

Ø max.: 15 mm







TRIATHLON SECTION







TRIATHLON 2000

- Precision cut-to-length and single or double sided stripping
- Crimping of cable ends (single or double-sided)
- Automatic single wire labelling

TRIATHLON 3000

- Processing of strands and cables up to 35 mm² and up to 15 mm outer diameter
- Multi-stage cable processing and lengthway slitting unit
- Automatic printing of all cables and wires in normal use for control cabinets

TRIATHLON 3000+

- Modular crimping unit
- Automatic crimping up to 6mm² cable cross-section



UNIVERSAL CUTTING MACHINES



CUT-TO-LENGTH MACHINES

Cutting to length of strands, cables and other materials with dimensions up to 150 mm x 30 mm (WxH)

Metzner





CUT-TO-LENGTH MACHINES

FEATURES

- Material changeover in less than three minutes
- PLC control with CoDeSys programming
- Stepper motor for exact positioning and variable speeds
- Very smooth belt pressure adjustment
- Cabel cross-section stranded wire/solid wire: 50 mm² / 10 mm²

EQUIPMENT LEVELS

R Red

Solid and robust basic funtions, attractive price, combination with peripheral devices as autonomous individual devices

- G Green
 Convenient control, increased operating speed, integrated connections for peripherals, PC operation and printing
- B Blue

Touch screen control and Metzner SPS, highest operating speed, integrated connections for peripheral devices, PC operation and printing



CUT-TO-LENGTH MACHINES



VARIOCUT

Material dimension max.: 95 x 30 mm (WxH)

Equipment lines: Red, Green, Blue

ST-OB

Material dimension max.: 145 x 30 mm (BxH)

Equipment lines: Red, Green





CORRUGATED TUBE PROCESSING



metzner

CORRUGATED TUBE PROCESSING

- High-performance precision machines (slotted, unslotted or with sleeves) from 4.5 mm - 39 mm diameter
- Different machine models with different features:
 - Lengthway slitting unit
 - Rotary module
 - Gear laser system





CT-RANGE

FEATURES

- Optimum adaptation to material requirements
- Very short set-up time
- Cuts corrugated tubes exactly on the crest
- Material outer diameter: 4.5mm to 39 mm
- Feed rate: 90 m/min

CT 4100

Cuts corrugated tubes exactly on the crest





CT 4200

Additional lengthways slitting unit for automatic slitting of non-slit corrugated tubes

Cutting height adjustable by height adjustment of the slitting blade



OCTABINE DISPENSER

FEATURES

- Unwinding device for octabins with electric motor drive for unslit corrugated tubes from octabins (without ramp)
- Turntable 1600 mm
- Speed 10 revolutions/min
- Stepless speed control of the turntable via dancer arm
- Including protective fence with doors and safety device







METZNER CT 4100 | CT 4200

THE SOLUTION FOR SLIT AND NON-SLIT CORRUGATED TUBES







SM 4000

FEATURES

- For corrugated tubes fromØ 4.5 mm to 40 mm
- Patented Metzner "Toothed wheel laser system".
- Laser sensors monitor the position of the gear wheels
- "Toothed-wheel" transport system as standard
- Feed rate: 120 m/min





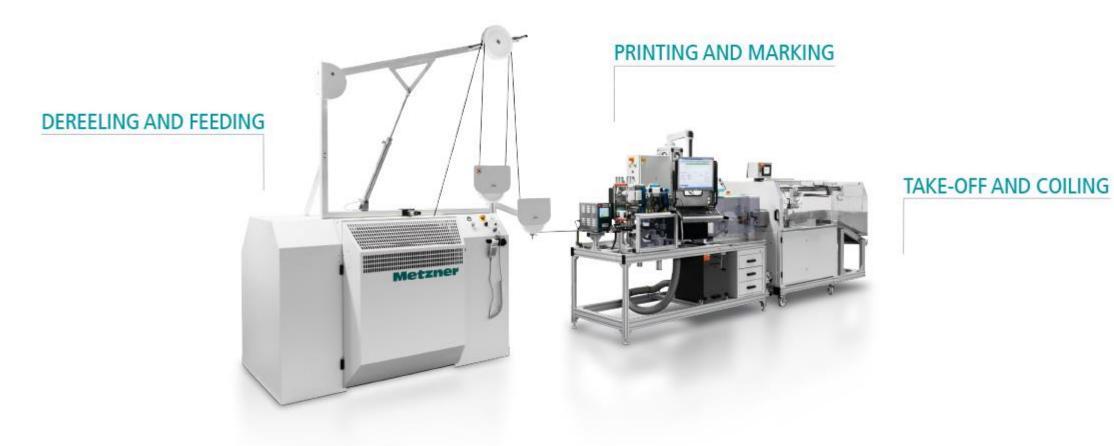


SM 4000 LINE





PERIPHERAL EQUIPMENT





DEREELING AND FEEDING



MOTORISED HIGH-PERFORMANCE DEREELER DR RANGE



LOOP CONTROL SYSTEMS DHS RANGE



PASSIVE DEREELERS DRS RANGE



FEEDING DEVICES
PF RANGE



PRINTING AND MARKING



LASER-MARKING



INK-JET-PRINTING



THERMAL-TRANSFER-PRINTING



HOT-STAMP-MARKER



BRADY-WRAPTOR-PRINTING



PRINTING AND MARKING



INK-JET-PRINTING

- Prints freely programmable texts, logos and markings on the fly
- Low-cost procedure



THERMAL-TRANSFER-PRINTING

- High print quality
- Individual design of texts, logos and graphics



BRADY WRAPTOR

- High print quality
- Application of the texts on a white background and subsequent wrapping with foil



TAKE-OFF AND COILING

CABLE RING COILER

CPC- AND CRC RANGE





WIRE STACKER

MA RANGE



CABLE REEL RACK SYSTEM

SEMI-AUTOMATIC SYSTEMS



- Enormous productivity advantages
- _ Reduction of set-up times
- _ Improved use of the production area
- Advanced level of integration withMetzner software

FULLY-AUTOMATIC SYSTEMS



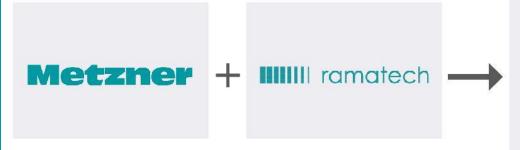
- _ Increased productivity by up to 50%.
- _ Individual capacity planning
- Solutions with autonomous and fully automatic transport vehicles



CABLE REEL RACK SYSTEM

BENEFITS

- Optimal use of space
- Minimization of set-up times
- Reduction of internal material transport
- Gentle working process
- Flexible feeding of the bobbins
- Avoidance of heavy labour and dangerous situations
- Cost-effective expansion of storage capacity
- Customized production



SYSTEM ADVANTAGE

UNIQUE SOFTWARE INTEGRATION

Both firms have the software of their products optimally co-ordinated with each other and offer additional automation functions via intelligent interfaces for the spool storage system, directly on the Metzner machine operator panel.



EFFECTIVE SOFTWARE SOLUTIONS



LANGUAGES



PRODUCTION



PROCESSING DATA



MANUAL MACHINE OPERATION



TOUCH KEYBOARD





INDIVIDUAL SOLUTIONS





MINERAL INSULATED (MI) CABLES

SOLUTION FOR AUTOMATIC CUT-TO-LENGTH OF RIGID MINERAL INSULATED THERMOCOUPLES











INDUSTRIAL

ONE SYSTEM COVERING ALL REQUIREMENTS- FULLY AUTOMATIC



- Dereeling
- Cable marking
- Grinding the outer jacket
- Cut to length and stripping
- Coiling with laying system
- Cable ring binding
- Evacuation on roller conveyor



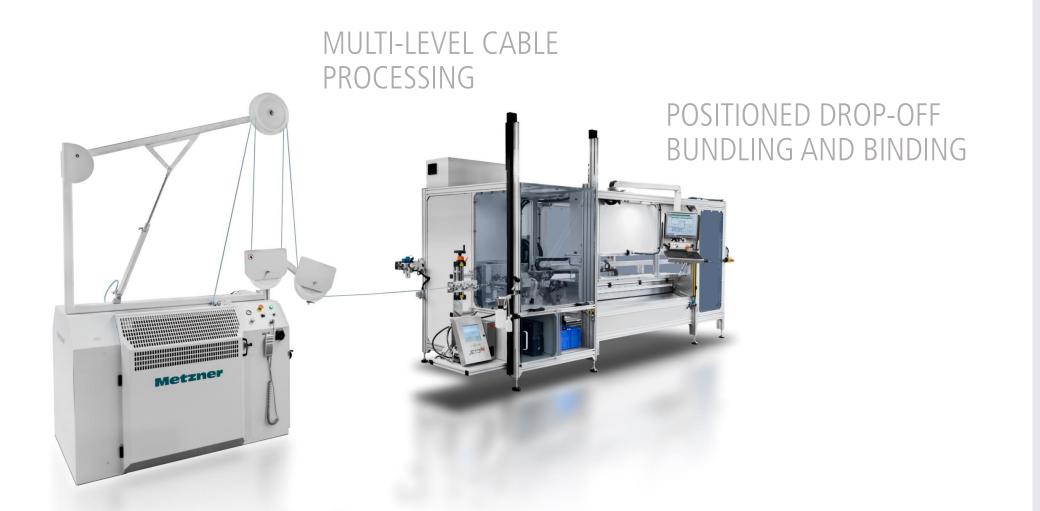






TELECOMMUNICATION

AUTOMATIC MULTI-LEVEL CABLE PREPARATION OF TELECOMMUNICATION CABLE KITS





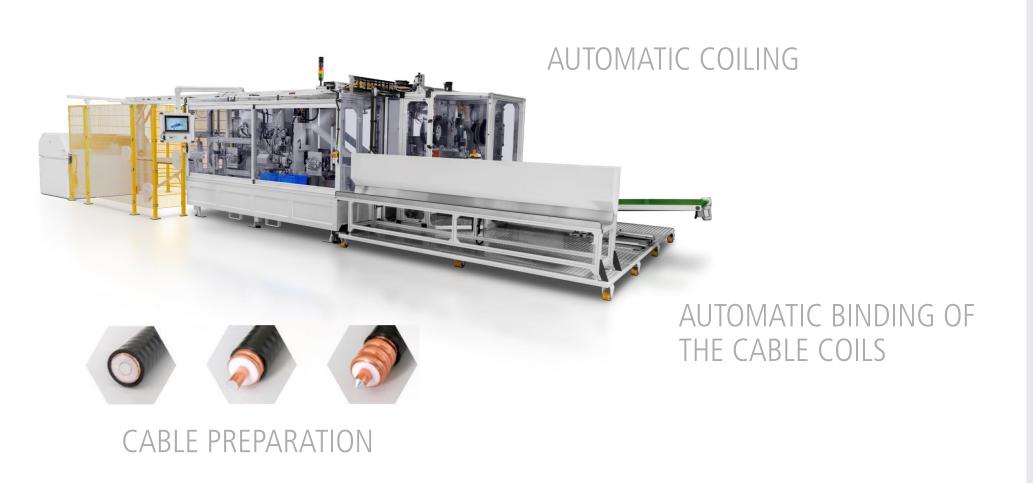






TELECOMMUNICATION

FULLY AUTOMATED PROCESSING AND WINDING OF HIGH-FREQUENCY COAX CABLES











STEEL CABLES











STEEL CABLES



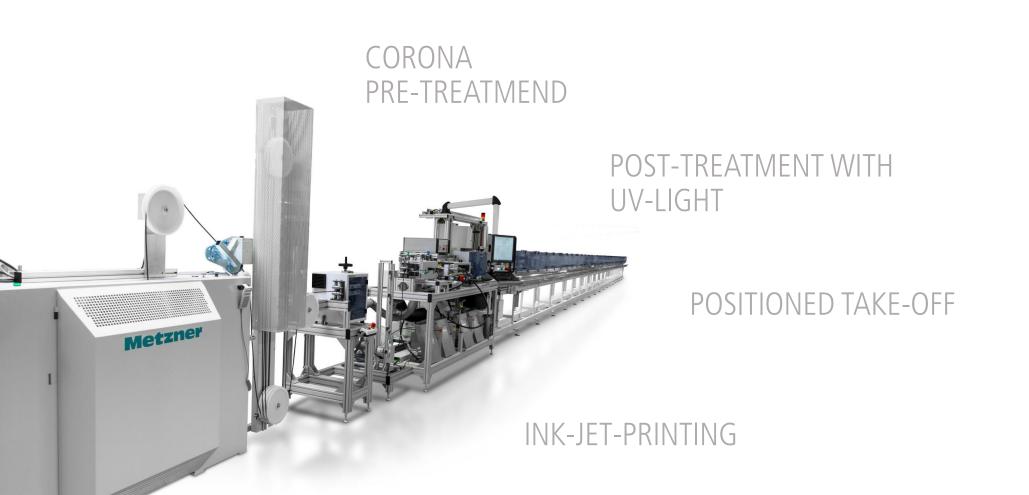






Metzner

RAILWAY INDUSTRY











SALES AND SERVICE



SALES PARTNER WORLDWIDE

Metzner is represented internationally by efficient partners for sales and service in numerous countries and is actively working to further expand its global presence. Specialized partners for the business areas of cable processing and rubber and plastics processing offer sound sales advice and service know-how.





METZNER CUSTOMER SERVICE

WE ARE THERE FOR YOU- WE ARE HAPPY TO HELP AND ADVISE YOU



Sven Baumann
Service fault messages
service@metzner.com



Michael Erhardt

Service Spare parts inquiries
spareparts@metzner.com



METZNER AFTER SALES SERVICES



Maintenance and servicing

Your machine or your Leibinger printer needs maintenance? We will do it for you or even just have the scope of maintenance determined by our qualified service technicians. In addition, we offer the (preventive) exchange of spare and wear parts to ensure the process-safe function of your machine



On-site operations

We come to your site! Wherever you need us for maintenance, servicing, troubleshooting or to determine the scope of maintenance - our service technicians will be happy to visit you and carry out the appropriate measures:



Spare parts

Do you need a spare part for one of our standard or special machines? Or would you like us to determine the spare part on the basis of pictures using the machine number? Then simply contact us and we will take care of it.



METZNER AFTER SALES SERVICES



Conversions

We convert your machine
- e.g. because you have
subsequent special
requests, you want to
expand the machine
scope or because the
parts availability of the
suppliers has changed.
This is usually carried out
at Metzner, but in special
cases conversions can also
be carried out on site.





Remote maintenance

In terms of software, many of our machines can be diagnosed with errors etc. via remote access or the system can be repaired via remote maintenance. Current software statuses or error descriptions can also be viewed via remote access.



Technical support

Do you have questions about our machines, spare parts or special requests? Or do you need information that goes beyond the operating instructions or spare parts list? Simply contact us by e-mail or telephone - we will be happy to help you.



To make sure that you know how to operate your machine correctly, we offer appropriate training courses before delivery as well as machine training courses for fundamental modifications after a conversion. Our range of services also includes company-/machine-specific training courses that enable you to perform your own maintenance.



OUR REFERENCES































































FIND MORE INFORMATION AT

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