

Graebener® makes the difference.

Your technology and system partner for customized solutions.

Machine the difference.

CHAPTERS



History

Our individual solution concepts are based on reliable values and expert knowledge, which we have built up in our family-owned company over the course of more than 100 years.

Experience since 1921



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Hydroforming

Smart forming of components with complex geometries, e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming



Automotive

More complex and at the same time lighter and stronger.

Along with the increasing requirements for cross components in vehicles, the requirements for intelligent production processes in the automotive industry have been increasing over the last years.

Our solutions are hydroforming and hot forming.



Bipolar Plate Technologies

Our declared goal: shaping the future of energy production more intelligently and ecologically sensible way. We train new ground and develop production technologies for fuel cells and electrolyzers.

R&D and mechanical Engineering since 2003



Pipes

We understand your processes.

As experienced partner, we accompany you from the first plate processing up to the optimized pipe or pipe section. Individual, individual, customer-oriented.

Thanks to our experience gained from 1976 - 1997 with our own pipe mill



Wind Towers & Vessels

Extremely robust and long-lasting.

Our machines differentiate from the standard when it comes to the production of large vessels, wind towers and monopiles with increased wall thicknesses.

Based on more than 40 years of experience



Shipbuilding

Leading shipyards worldwide have been placing their trust in our reliable solutions. Because in the shipbuilding sector, panel lines are one of the key systems of the entire production.

Tailor-Welded-Plates® technology by Graebener®



Modernization

New power for old technology.

Benefit from the extensive experience of a veteran.

We update your existing machines or production lines according to the latest technological standards.

Reliable solutions by Graebener®



Services

We do not only supply your customized machine, but also support you as a partner throughout the entire machine life cycle.

Consulting and Engineering | Prototyping and Small Series Production | Hydraulics Automation and Control Technology | After Sales



Process and machine optimization with AI

Based on your data we determine unseen potentials of your production and equip your machines with the necessary technology.

Condition Monitoring

Error analysis and systematic improvement of the production

Predictive Maintenance

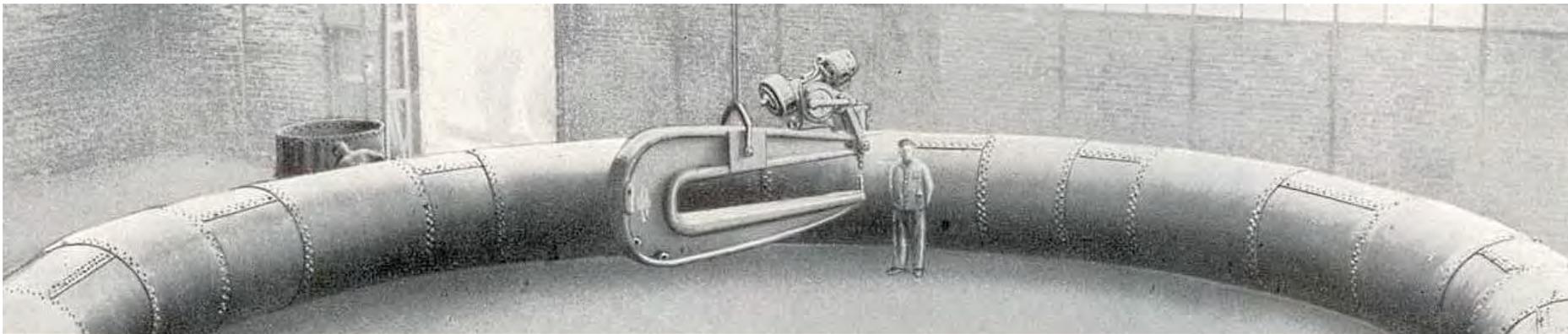


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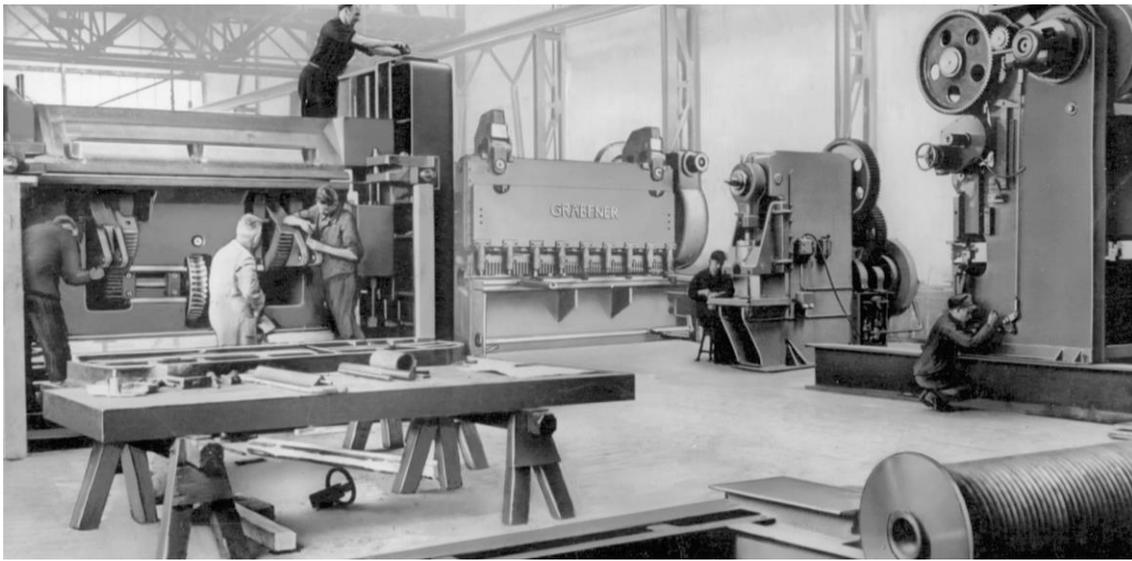
Experience since 1921



1921 - 1955

Manufacture of heavy iron and
steel plate constructions
incl. steel and vessel
construction.



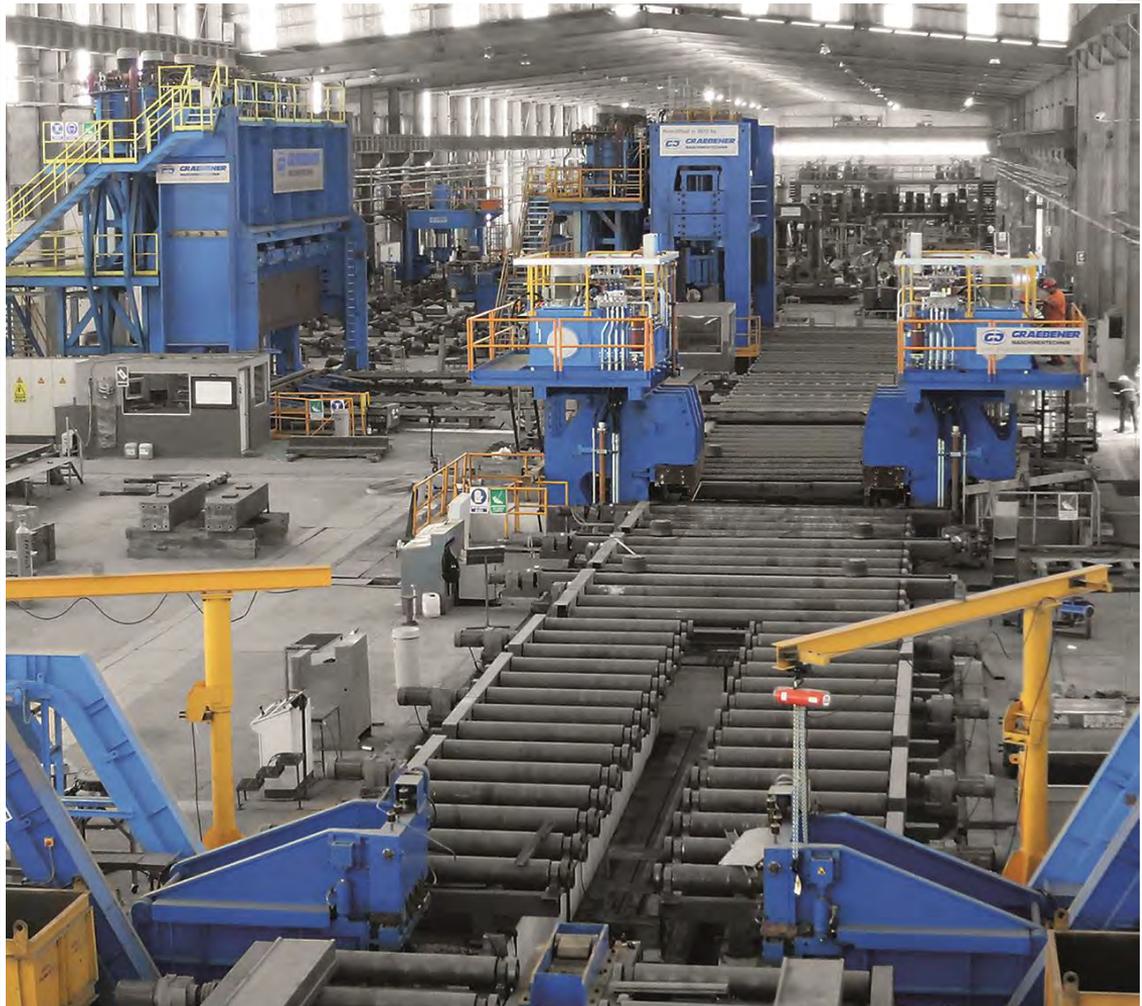


1955 - 1996

Development and establishment of an independent machine construction and a large pipe mill.

1997 - today

From production company to
„virtual factory“ with
the cornerstones
hydraulics, mechanics
and electrics.



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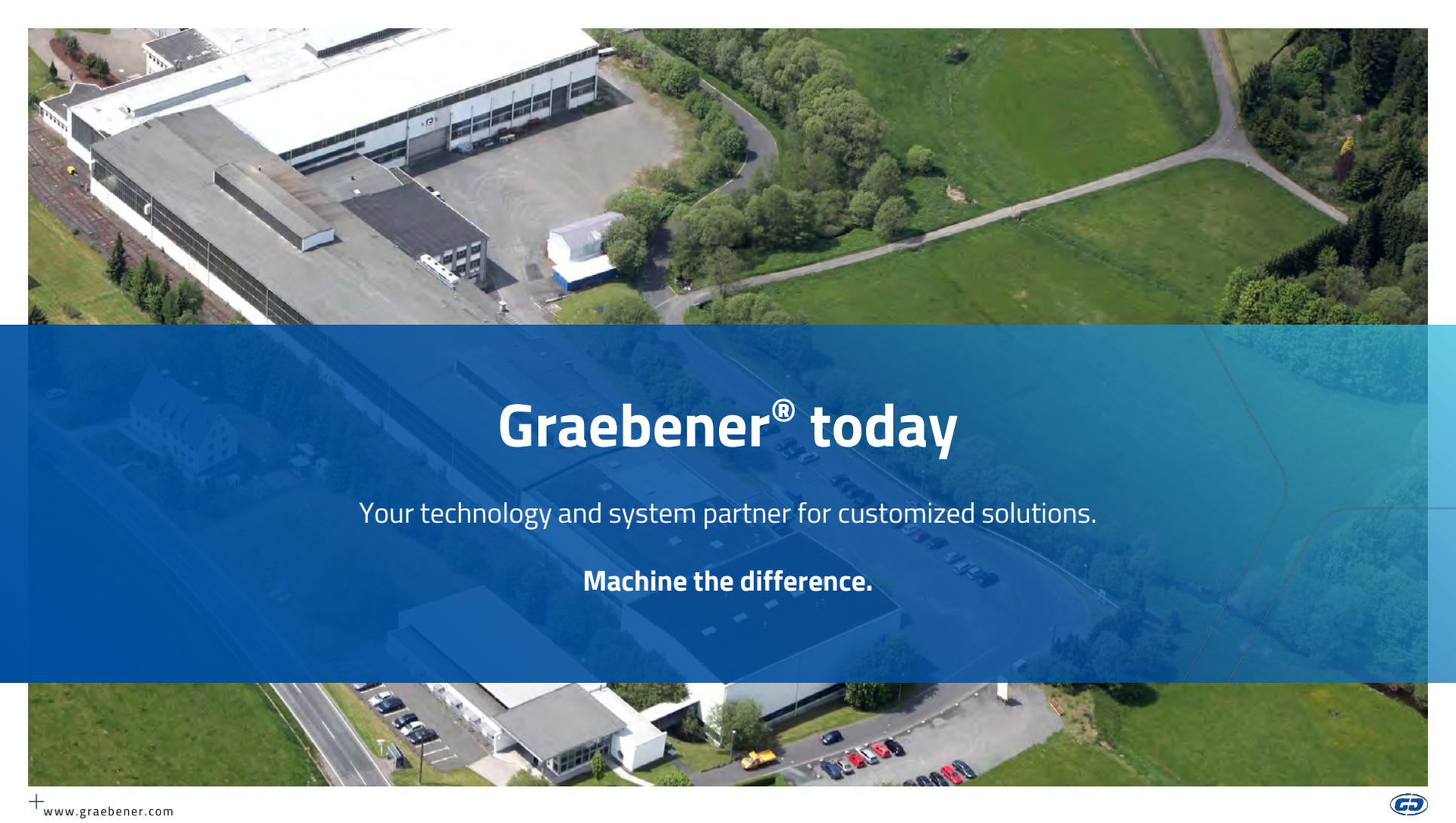


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Our promise to you

„With us, you don't get a standard machine, but we develop exactly the machines you need, thus enabling you to manufacture even more efficiently and economically. To achieve this, we listen to you carefully and work out the best solution together with you.“

In over 100 years, we have learned that markets are constantly evolving – and with them the corresponding technologies. The drive to innovate is therefore our motivation and our promise to you, delivering the highest perfection according to your requirements.“

Fabian Kapp, Managing Director

OUR LOCATIONS

Headquarters

Locations

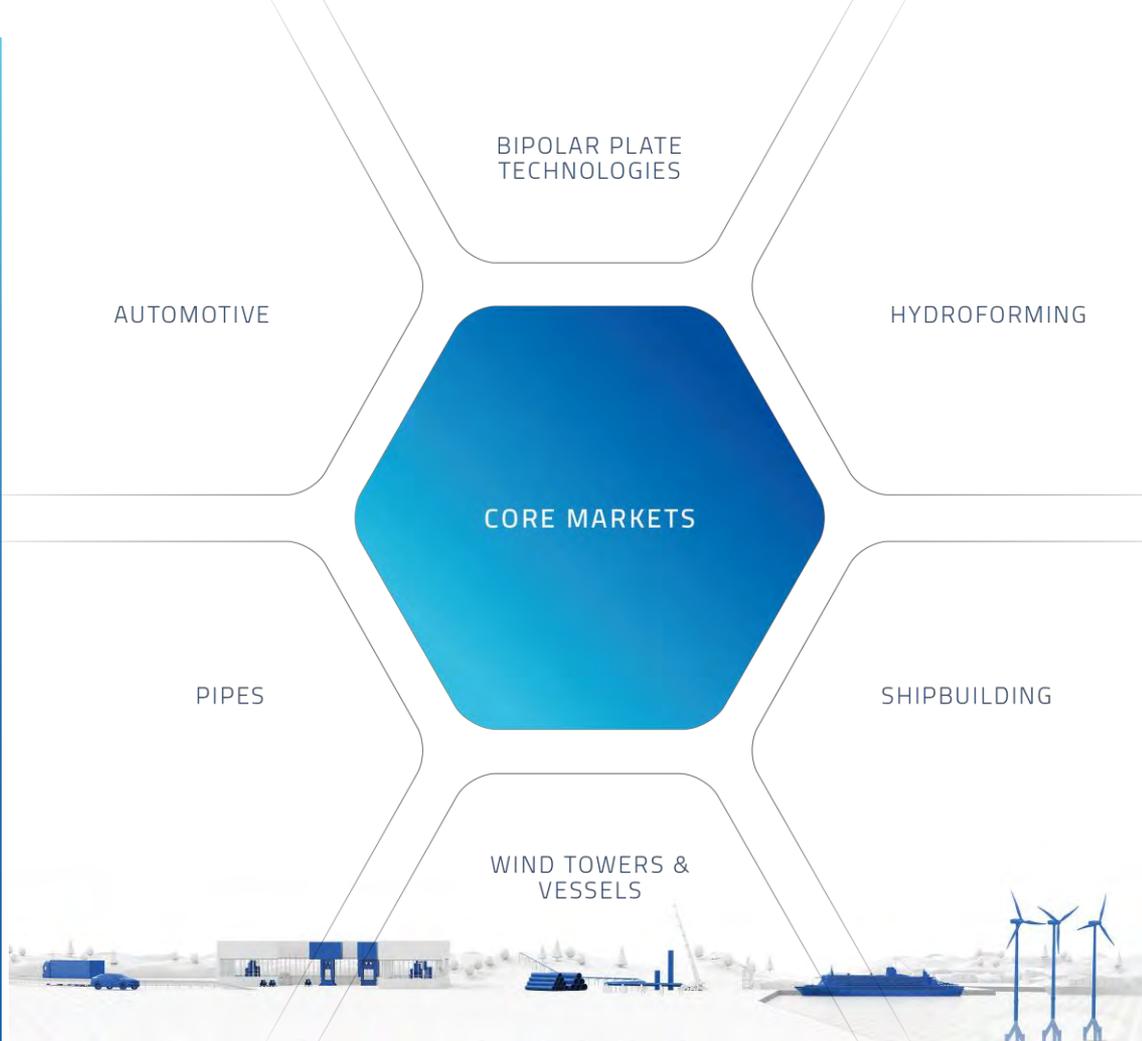
Representatives



Our Core Markets

As a family owned company
we develop and implement
customized solutions worldwide.

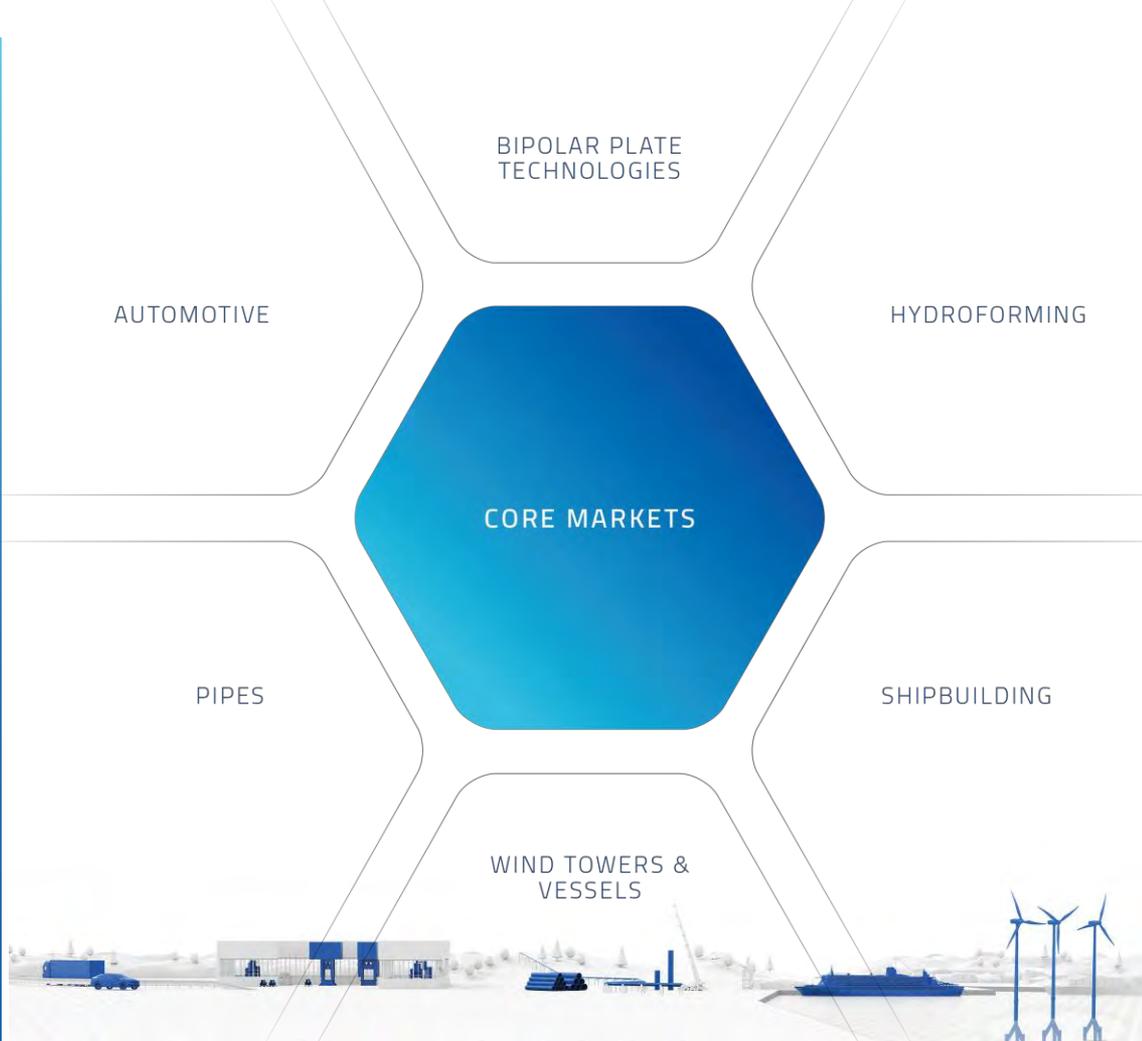
**From the Siegerland,
to all continents of the world.**



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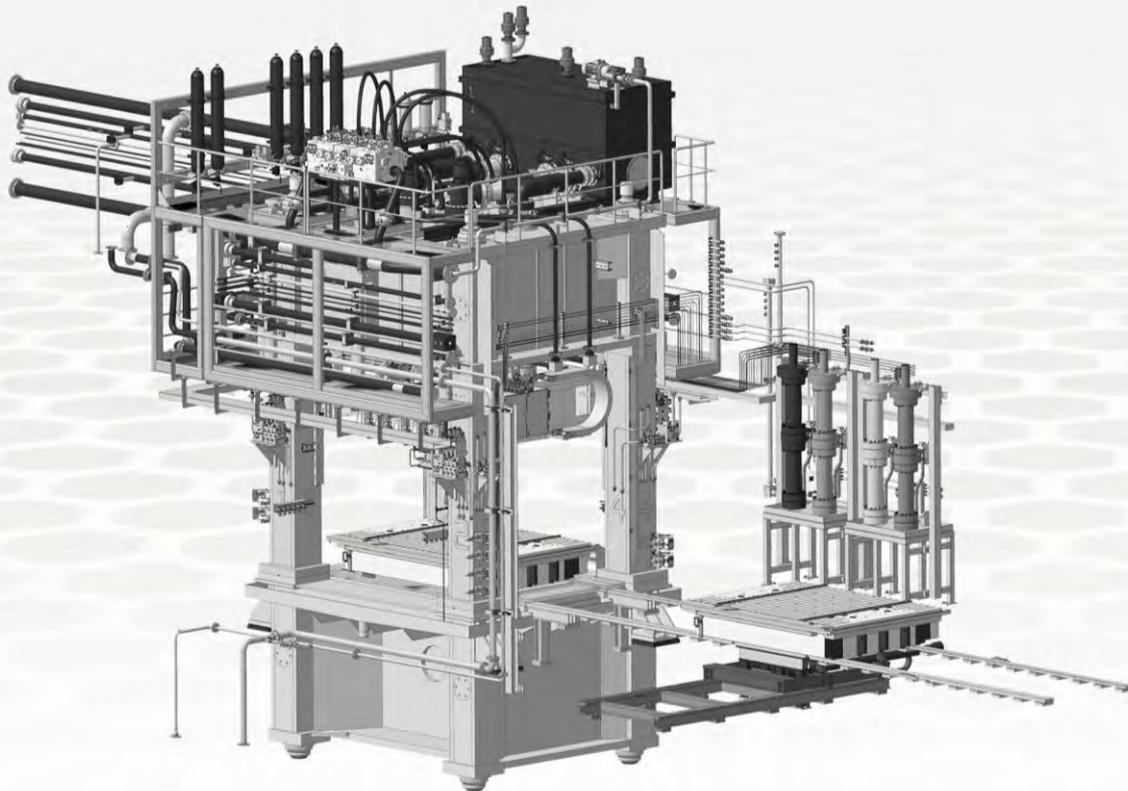
A detailed view of a hydroforming process. A long, thin metal tube is being formed into a curved shape. The tube is held in place by a large metal block. A green liquid is being pumped into the tube from the right side. The background is a blurred industrial setting.

Hydroforming

Smart forming of components with complex geometries,
e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming

COMPLEX GEOMETRIES. LIGHT AND STABLE. FROM THE IDEA TO THE MACHINE



FORMING

Hydroforming Presses

HYDROFORMING PRESSES

From the first idea through prototyping to your individual press

- Graebener® is one of the few hydroforming pioneers = R&D since the mid 1980ies
- We support you along the entire value-added chain:
 - Feasibility and simulation phase
 - Tool engineering
 - First prototypes and small series components in our own Graebener® prototyping center
 - Your individual Graebener® hydroforming press – new or retrofitted

Graebener® Prototyping Center:
Press capacities with a
closing force of 1,500 - 10,000 t



Value-added chain



Hydroforming Presses

For the forming of fittings with sophisticated geometries such as tees or reducers.

Busch and Kunz (DE)
Erne (AT)
Nirotec (DE)
Viega (DE)



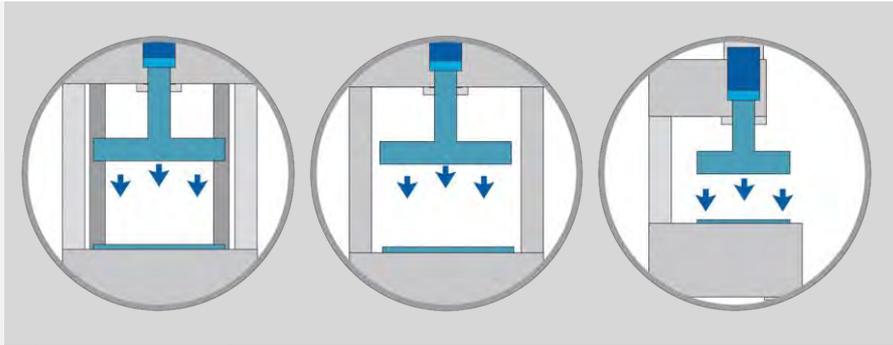
HYDROFORMING PRESSES

Machine types

- Press for internal and external high pressure forming:
 - 4-Column Press
 - Frame Press
 - C-Frame Press

Characteristics

- Advantages compared to conventional forming methods:
 - Enormous freedom of design for components
 - High mechanical strength
 - Form and repeat accuracy of the process



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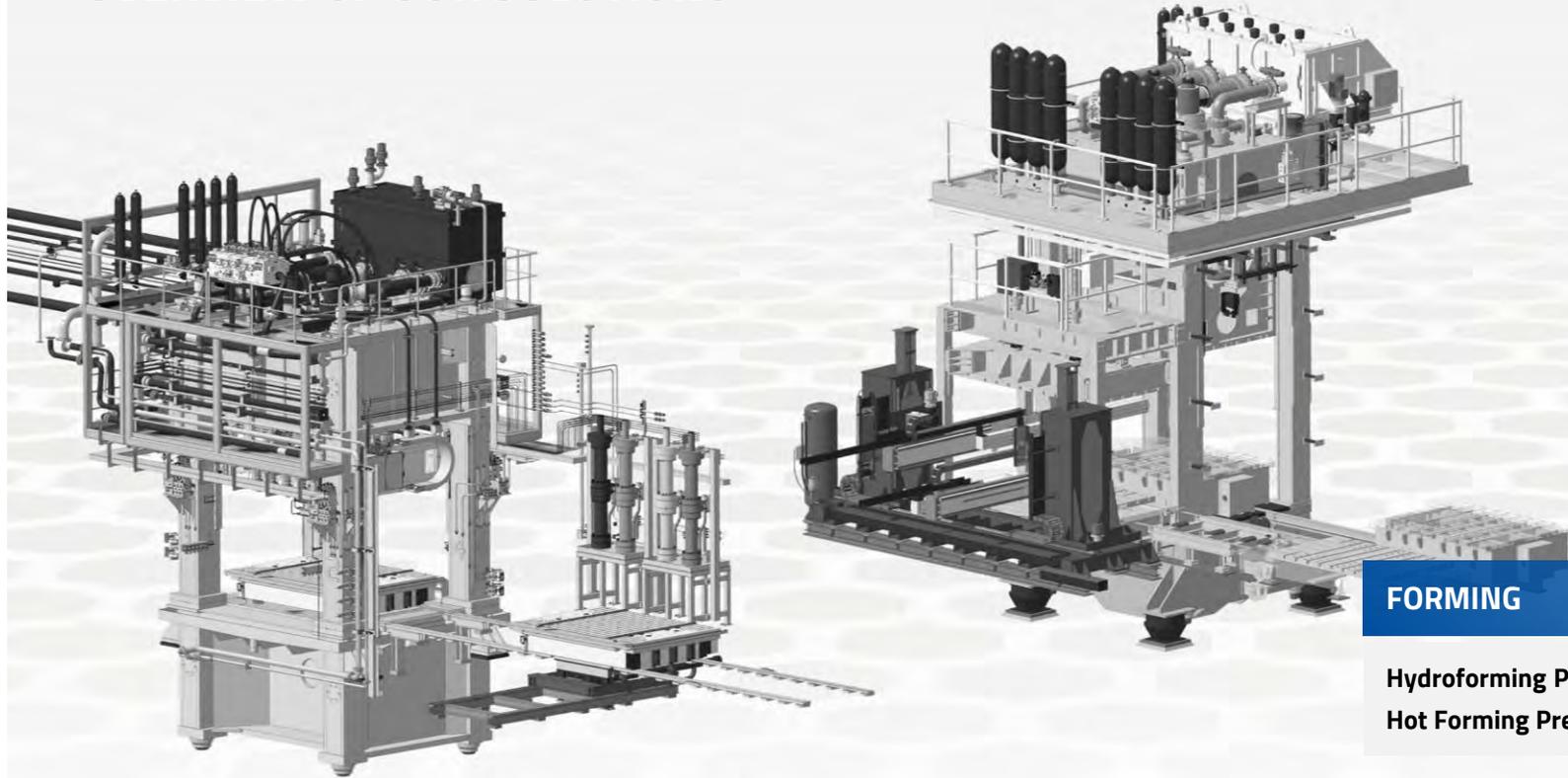
The image shows a large industrial facility with several vertical hydroforming machines. Each machine consists of a large, polished stainless steel cylinder supported by a white, multi-column frame. The machines are arranged in a row, and the background shows a clean, well-lit factory environment with overhead lighting and various cables. A blue semi-transparent banner is overlaid on the middle of the image, containing text.

Automotive

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COMPLEX GEOMETRIES. ACCURATE AND HIGH STRENGTH. OVERVIEW OF OUR SOLUTIONS



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Hydroforming Presses
Hot Forming Presses

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Graebener® Prototyping Center:
Press capacities with a
closing force of 1,500 - 10,000 t



Value-added chain



Hydroforming Presses

For the forming of metal semi-finished products with sophisticated geometries.

Benteler (DE)
DANA (US)
ELB-FORM (AT)
fischer Hydroforming (DE)
Fischer Tubetech (CN)
Finow Automotive (DE)
FSB (DE)
ISE/Martinrea (DE)
Salzgitter Hydroforming (DE)
Tenneco (US)



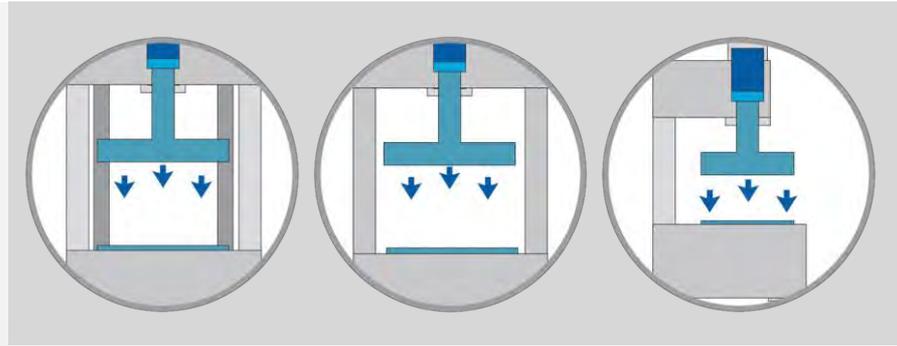
HYDROFORMING PRESSES

Machine types

- Press for internal and external high pressure forming:
 - 4-Column Press
 - Frame Press
 - C-Frame Press

Characteristics

- Advantages compared to conventional forming methods:
 - Enormous freedom of design for components
 - High mechanical strength
 - Form and repeat accuracy of the process



Hot Forming Presses

For the forming of metal semi-finished products with sophisticated geometries and increased strength.

Benteler (DE)

ISE/Martinrea (DE)

LINDE + WIEMANN (DE)

Metakus (DE)



HOT FORMING PRESSES

Machine types

- 4-Column Presses
- Furnaces: cooperation with experienced partners

Characteristics

- Forming of rough blanks and pipe-shaped profiles (Form Blow Hardening)
- Advantages of hot forming:
 - Increased weight saving potential
 - Superior strength
 - Very high forming accuracy
 - Realization of very complex components



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R&D and mechanical Engineering since 2003



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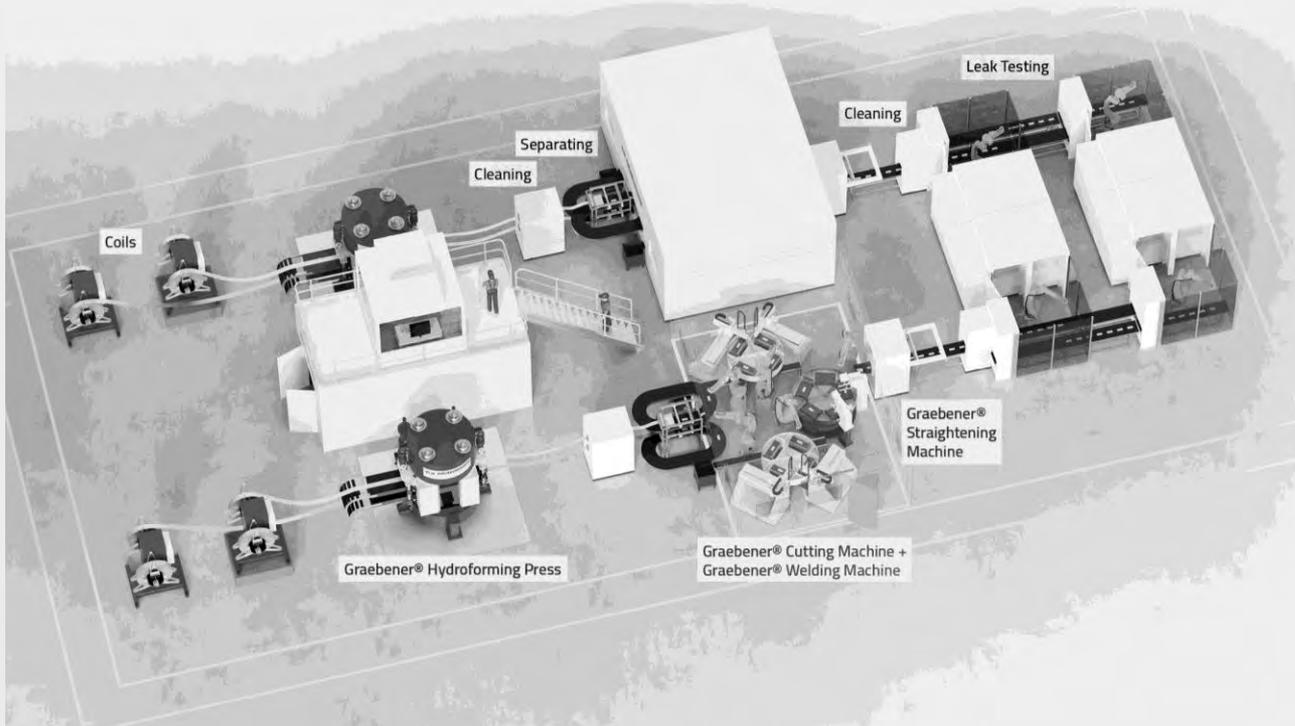


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SYSTEMS FOR COMPONENTS OF FUEL CELLS, HEAT EXCHANGERS AND ELECTROLYZERS. OVERVIEW OF OUR SOLUTIONS



PRESSES

Hydroforming Presses
Stack Presses

CUTTING

Laser Cutting System

WELDING

Laser Welding System

STRAIGHTENING

Straightening System

Fuel Cell, Heat Exchanger, Electrolyzer

Systems and lines for series production of components, such as metallic bipolar plates – esp. forming, cutting, welding and straightening.



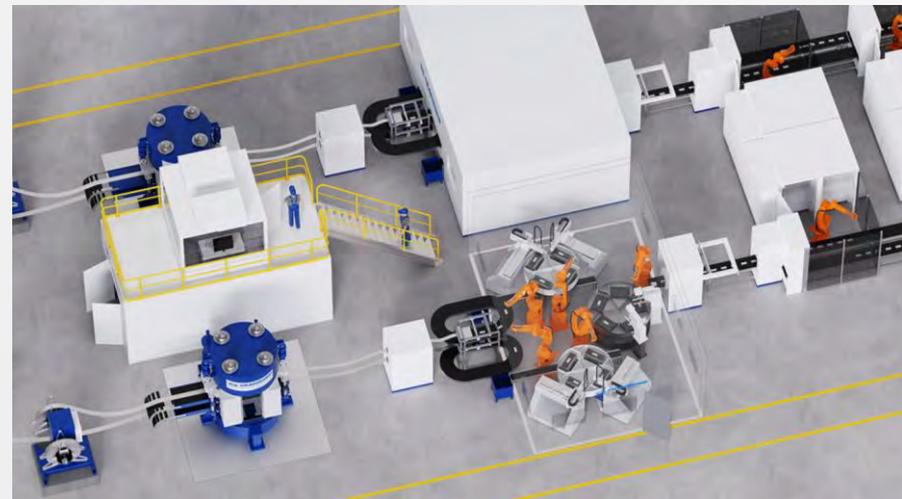
FUEL CELL, HEAT EXCHANGER, ELECTROLYZER

Machine types

- Individual systems and scalable production lines for fuel cell and electrolyzer components, such as metallic bipolar plates:
 - Hydroforming Presses, Stack Presses
 - Laser Cutting and Laser Welding Systems
 - Straightening Technology

Characteristics

- Highly precise results with increased repeat accuracy with foil thicknesses from 50 μm
- Services: engineering, prototyping and small series production



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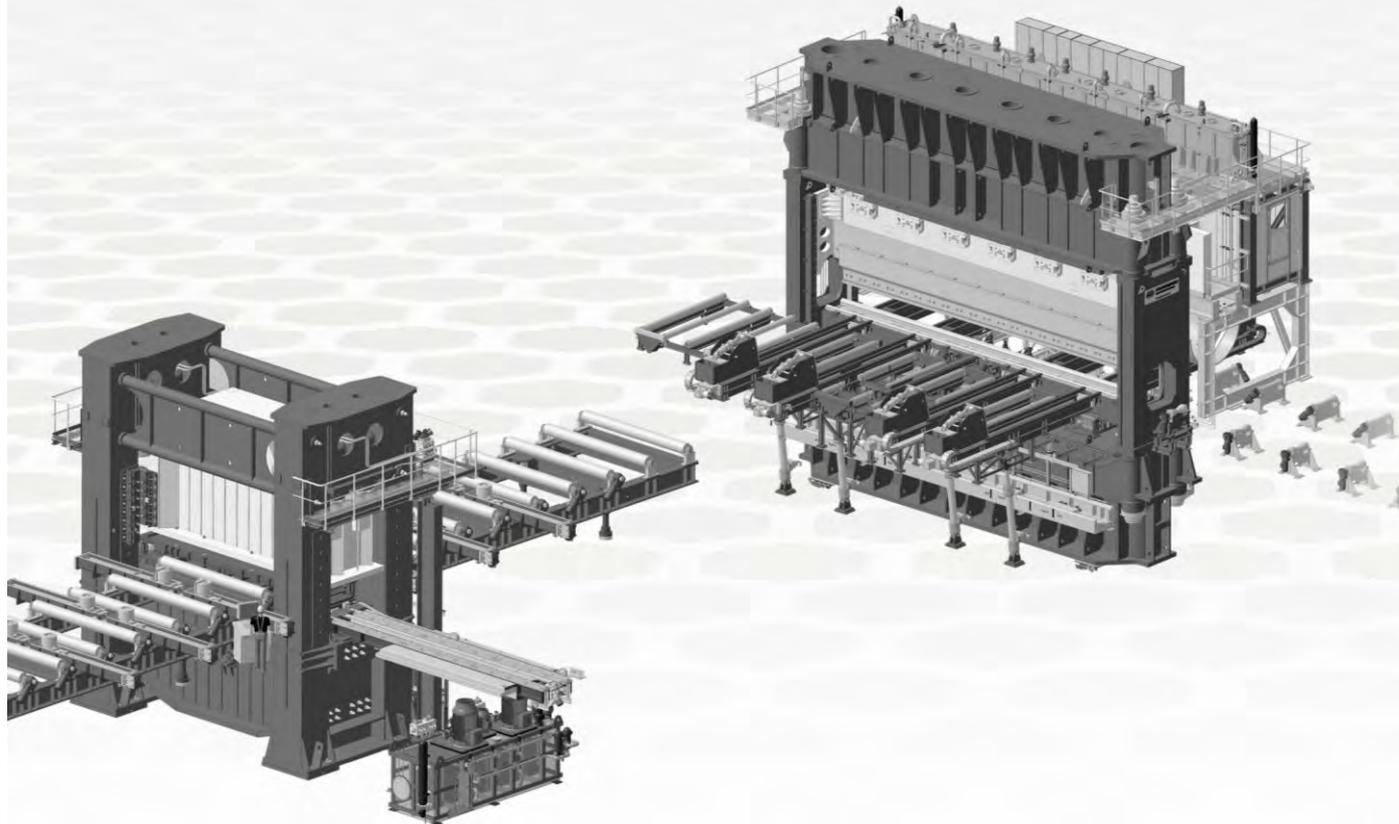
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LSAW PIPES. OVERVIEW OF OUR SOLUTIONS



SEAM PREPARATION

Plate Edge Milling Machines
Long Seam Milling Machines
Pipe End Beveling Machines

BENDING

Pre-Bending Presses
Pipe Bending Presses
3-Roll Bending Machines
Post-Bending Presses

JOINING

Continuous Root Tacking Machines

CALIBRATION + STRAIGHTENING

Calibration + Straightening Presses

Plate Edge Milling Machines

Economic plate edge processing,
especially for large format plates.

EEW (DE)

EEW Korea (KR)

EEW SPC (DE)

Eisenbau Krämer (DE)

Sif (NL)

Sosta (DE)

Tubacero (MX)

VandeGrijp (NL)



PLATE EDGE MILLING MACHINES

Machine types (extract)

- 1-Side Plate Edge Milling Machine
- 2-Side Plate Edge Milling Machine
- 2-Side Pull-Through Plate Edge Milling Machine

Plate dimensions

- Plate length: 4 - 18.5 m
- Wall thickness: 4 - 80 mm



PLATE EDGE MILLING MACHINES

Characteristics

- Various designs possible, e.g. with slewable milling head, moveable clamping beams or as tandem system
- Positioning of plates directly in the machine
- Automatic measuring of the plates
- Plate clamping system
- Metallic bright surface and highly parallel milled edges
- Electronic copying of the plate waviness
- Special design suitable for machining clad sheet material

Pre-Bending Presses

Simultaneous step-by-step pre-bending of both plate sides for LSAW Line Pipes.

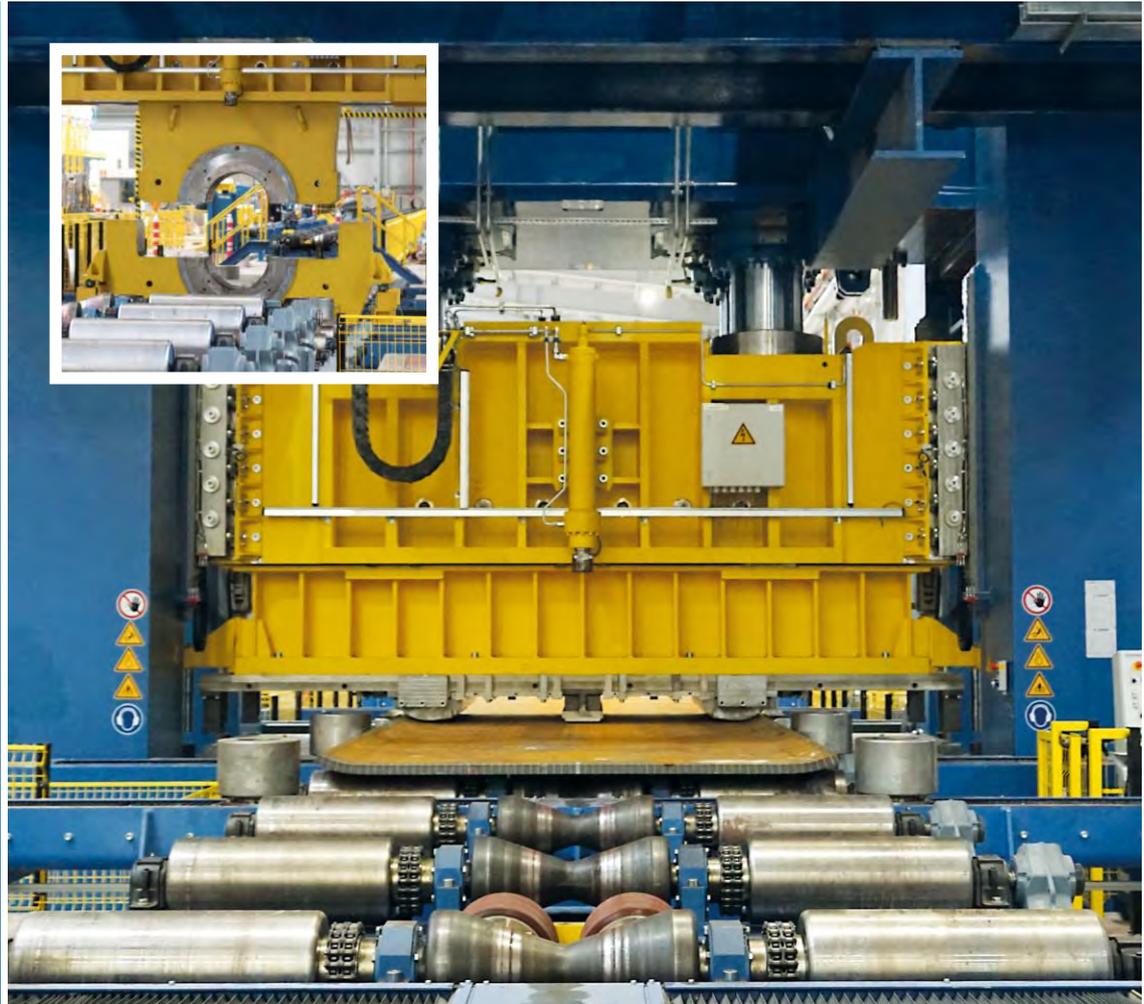
Eisenbau Krämer (DE)
Steelwind (DE)
Tubacero (MX)



Calibration and Straightening Press with **Pre-Bending Option**

Worldwide unmatched –
up to four functions with
one single machine.

Cimtas (TR)



PRE-BENDING PRESSES

Machine types

- 2-Side Pre-Bending Press
- Calibration and Straightening Press with Pre-Bending Option

Plate dimensions

- Plate width: up to 4.8 m
- Wall thickness: up to 75 mm
- Individual plate weight: up to 36 t



PRE-BENDING PRESSES

Characteristics

- No roll-out of the plate edges and no crushed edges
- Prevention of plate waviness in the pre-bent edges; therefore zero gap without edge offset
- Suitable for various materials (also Clad)
- Suitable for plates with increased wall thickness in high steel qualities and special grades
- Cost-efficiency due to
 - Innovative tool design,
 - Minimum reworking
- Unmatched worldwide: patented Graebener® 4-in1-technology for highest flexibility in production = pre-bending plates and calibration, straightening and even bending of pipes in one machine

Pipe Bending Presses

Highly flexible, reliable
and economic.

Cimtas (TR)

Cimolai (IT)

EEW (DE)

EEW Korea (KR)

EEW Malaysia (MY)

Eisenbau Krämer (DE)

Global Pipe (SA)

Tubacero (MX)



PIPE BENDING PRESSES

Pipe dimensions

- Pipe length: up to 18 m
- External pipe diameter: 16" - 64"
- Wall thickness: up to 75 mm

Characteristics

- Remaining gap can be pushed together in the machine; so pipe closing press no longer necessary
- Bending sword and lower tools suitable for universal use for various pipe diameters
- Special construction for outstanding operating life



PIPE BENDING PRESSES – OPTIONALLY WITH RadiiPro®

Characteristics

- Electronic radius measurement system
- Measurement via laser instead of manual measurement using a template – convenient, safe and precise
- Live transmission of the contour in the bending process to the screen
- Simultaneous calculation of the contour deviation and the local contour curvature
- Increase in productivity by avoiding non-productive time and incorrect measurements
- Transparent quality management due to data storage



3-Roll Bending Machines

Individual concepts,
esp. for line pipe production.

EEW (DE)



3-ROLL BENDING MACHINES

Machine types

- 3-Roll Bending Machines for line pipe production

Pipe dimensions

- Pipe length: up to 12.2 m
- External pipe diameter: up to 98"
- Wall thickness: up to 40 mm



3-ROLL BENDING MACHINES

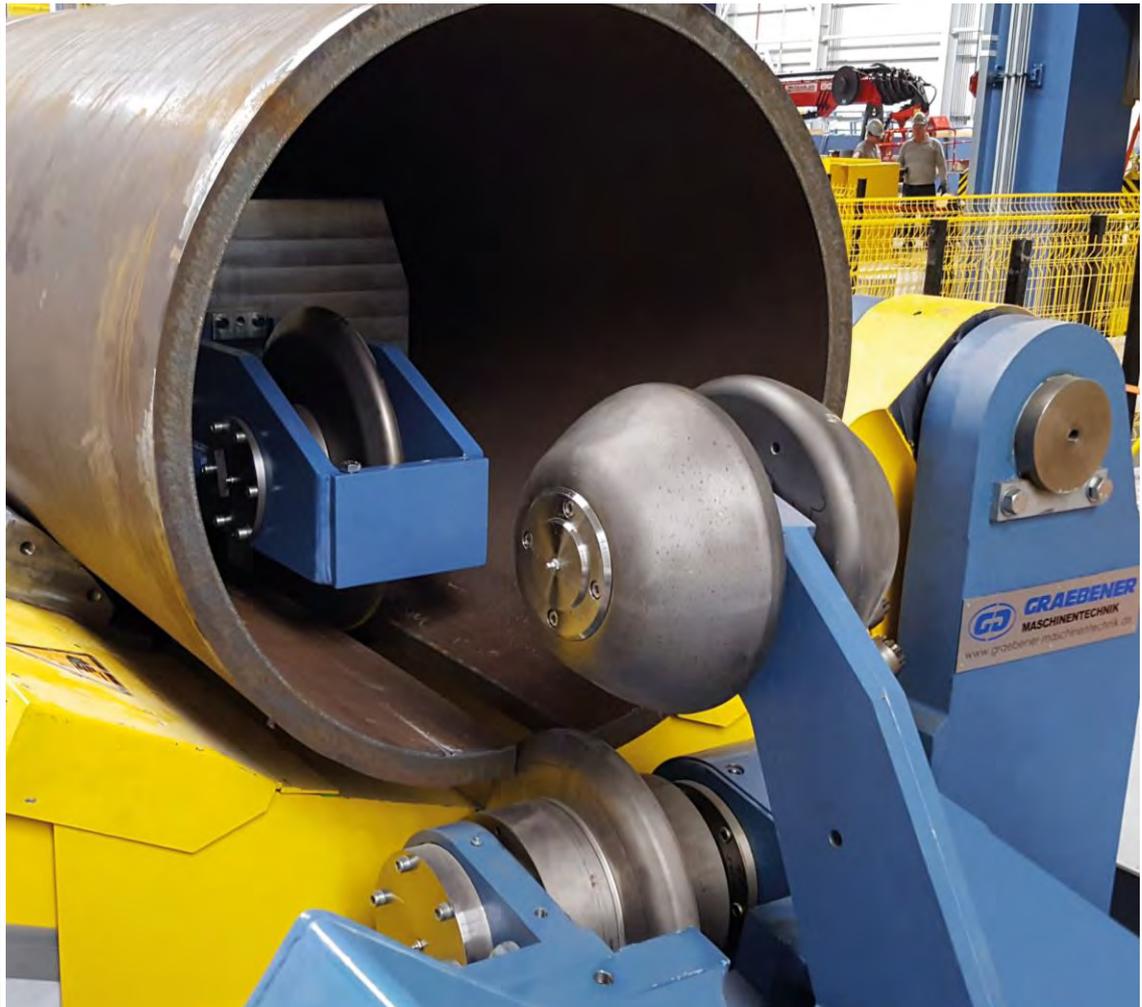
Characteristics

- Economic concepts especially for pipes of increased length
- Fast and simple operation
- Suited for API pipes with small and medium wall thickness
- Special pre-clamping system ensures optimum bending results at lengths of up to 12.2 meters
- Top roll can be exchanged for different pipe dimensions
- Incl. plate handling system

Post-Bending Presses

Prevent crushed edges,
increase economic efficiency.

Cimtas (TR)
EEW (DE)
EEW Korea (KR)
EEW Malaysia (MY)
Global Pipe (SA)
VandeGrijp (NL)



POST-BENDING PRESSES

Pipe dimensions

- Pipe length: up to 18 m
- External pipe diameter: 16" - 64"
- Gap width: up to 100 mm
- Wall thickness: up to 40 mm
- Material strength: up to 700 N/mm²

Characteristics

- Alternative to pre-bending presses
- No crushed edges



Continuous Root Tacking Machines

Ensure a proper tacking lay
and operator-friendly
machine control.

Cimtas (TR)

Cimolai (IT)

EEW (DE)

EEW Korea (KR)

Eisenbau Krämer (DE)

Global Pipe (SA)

Tubacero (MX)



CONTINUOUS ROOT TACKING MACHINE

Pipe dimensions

- Pipe length: up to 18 m
- External pipe diameter: up to 84"
- Wall thickness: up to 75 mm

Characteristics

- Exact processing of the open seam pipe by adjustable rolls and roller cage
- Constant tacking lay by 2D-laser-scan
- Very robust and durable design



Long Seam Milling Machines

Weld seam preparation,
cost-efficient, reliable and safe.

Cimtas (TR)

Cimolai (IT)

EEW (DE)

EEW Korea (KR)

Eisenbau Krämer (DE)

Europipe (DE)

Global Pipe (SA)

PT. DSAW (ID)

Sif (NL)

Tubacero (MX)



LONG SEAM MILLING MACHINES

Machine types

- Long seam milling machine underground design

Pipe dimensions

- Individual pipe length: 6,000 - 18,000 mm
- External pipe diameter: 16" - 64"
- Milling depth: up to 60 mm



LONG SEAM MILLING MACHINES

Characteristics

- Suitable for the preparation of welding seams, removal of the tack weld and repair of pipes
- Constant seam depth by compensating height differences with a copying system
- Milling speeds up to 1,000 mm per minute
- Cost-efficient milling tips with multiple cutting edges
- Seam tracking by means of integrated camera
- More cost efficient, quicker, better and health-preserving compared to common processes (gouging/grinding)

Calibration and Straightening Presses

Calibration, straightening
and even impanding.

Cimtas (TR)

EEW (DE)

EEW Korea (KR)

Eisenbau Krämer (DE)

LS Industrial Systems (KR)



CALIBRATION AND STRAIGHTENING PRESSES

Machine types

- Calibration and straightening press
- Calibration and straightening press with pre-bending option
- Special development: quadruple acting calibration press (impander)

Pipe dimensions

- External pipe diameter: up to 84"
- Wall thickness: up to 75 mm



CALIBRATION AND STRAIGHTENING PRESSES

Characteristics

- 2in1-technology: calibration and straightening in only one machine
- Cost-efficient and short set-up times thanks to modular tool structure
- Unmatched worldwide, patented solutions:
 - 4in1-technology incl. pre-bending = pre-bending of plates, calibration, straightening and bending of pipes
 - Special development incl. impanding = calibration, straightening and impanding of pipes

Pipe End Beveling Machines

CNC technology
for all requirements.

Cimtas (TR)

Cimolai (IT)

EEW (DE)

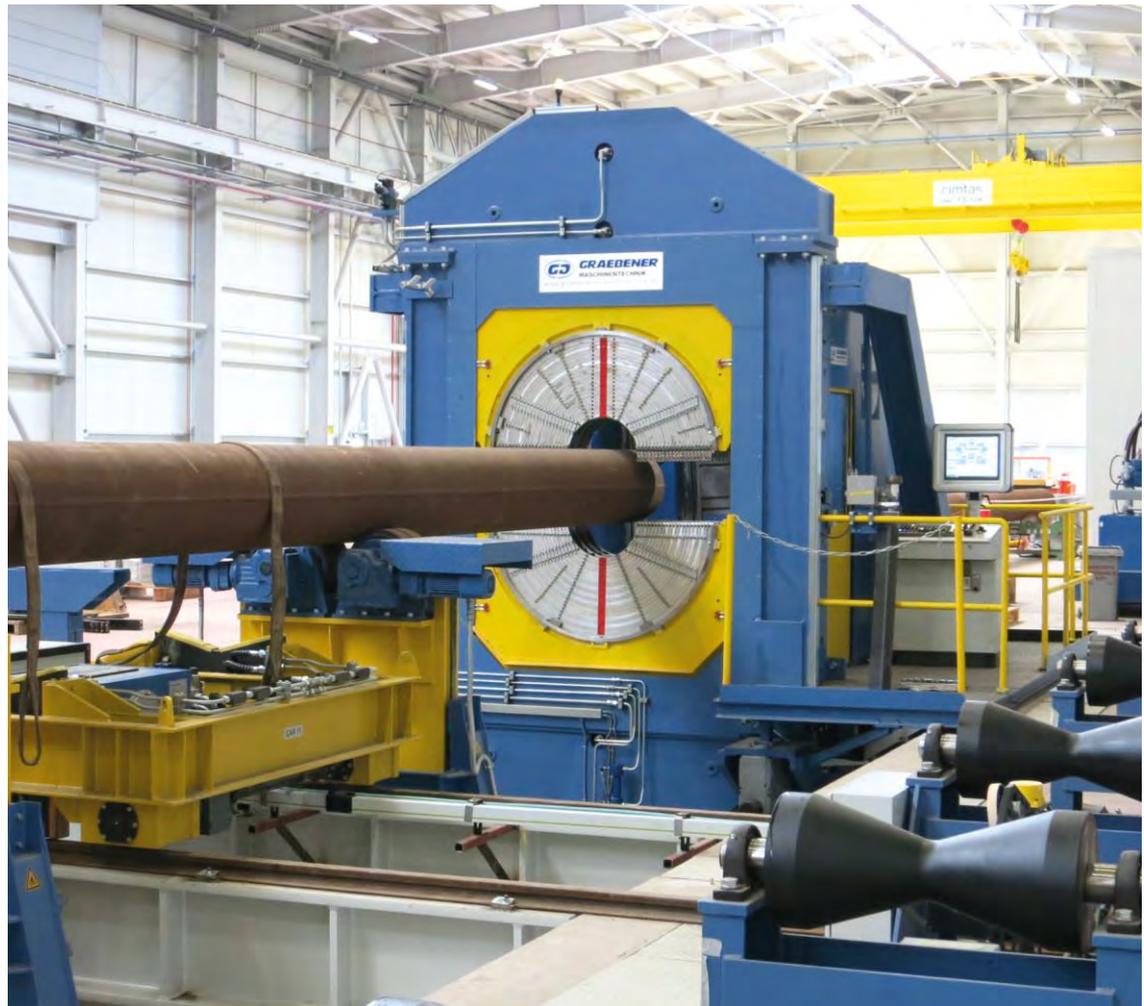
EEW Korea (KR)

Global Pipe (SA)

Mannesmannröhren-Werke (DE)

Novatek (RU)

Tubacero (MX)



PIPE END BEVELING MACHINES

Machine types

- 1-Side CNC Pipe End Beveling Machine
- 2-Side CNC Pipe End Beveling Machine

Pipe dimensions

- Pipe length: up to 18 m
- External pipe diameter: up to 98"
- Wall thickness: up to 80 mm



PIPE END BEVELING MACHINES

Characteristics

- „One for all“ technology:
Mechanical copying and CNC copying in one machine
- Cost-efficient facing operations and most complex weld seam geometries with wall thicknesses up to 80 mm
- Ovality measuring of the pipe end
- Facing slide of universal design for the flexible accommodation of tools and measuring devices
- Operator-friendly, modular pipe clamping device for highest flexibility and shortest change-over times
- Integrated pipe length measuring

CHAPTERS



History

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Experience since 1921



Graebener® today

Your technology and system partner for customized solutions.

Machine the difference.



Hydroforming

Smart forming of components with complex geometries, e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming



Automotive

More complex and at the same time lighter and stronger.

Along with the increasing requirements for cross components in vehicles, the requirements for intelligent production processes in the automotive industry have been increasing over the last years.

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Bipolar Plate Technologies

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R&D and mechanical Engineering since 2003



Pipes

We understand your processes.

As experienced partner, we accompany you from the first plate processing up to the optimized pipe or pipe section. Individual, individual, customer-oriented.

Thanks to our experience gained from 1976 - 1997 with our own pipe mill



Wind Towers & Vessels

Extremely robust and long-lasting.

Our machines differentiate from the standard when it comes to the production of large vessels, wind towers and monopiles with increased wall thicknesses.

Based on more than 40 years of experience



Shipbuilding

Leading shipyards worldwide have been placing their trust in our intelligible solutions. Because in the shipbuilding sector, panel lines are one of the key systems of the entire production.

Tailor-Welded-Plates® technology by Graebener®



Modernization

New power for old technology.

Benefit from the extensive experience of a veteran.

We update your existing machines or production lines according to the latest technological standards.

Reliable solutions by Graebener®



Services

We do not only supply your customized machine, but also support you as a partner throughout the entire machine life cycle.

Consulting and Engineering | Prototyping and Small Series Production | Hydraulics Automation and Control Technology | After Sales



Process and machine optimization with AI

Based on your data we determine unseen potentials of your production and equip your machines with the necessary technology.

Condition Monitoring

Error analysis and systematic improvement of the production

predictive Maintenance

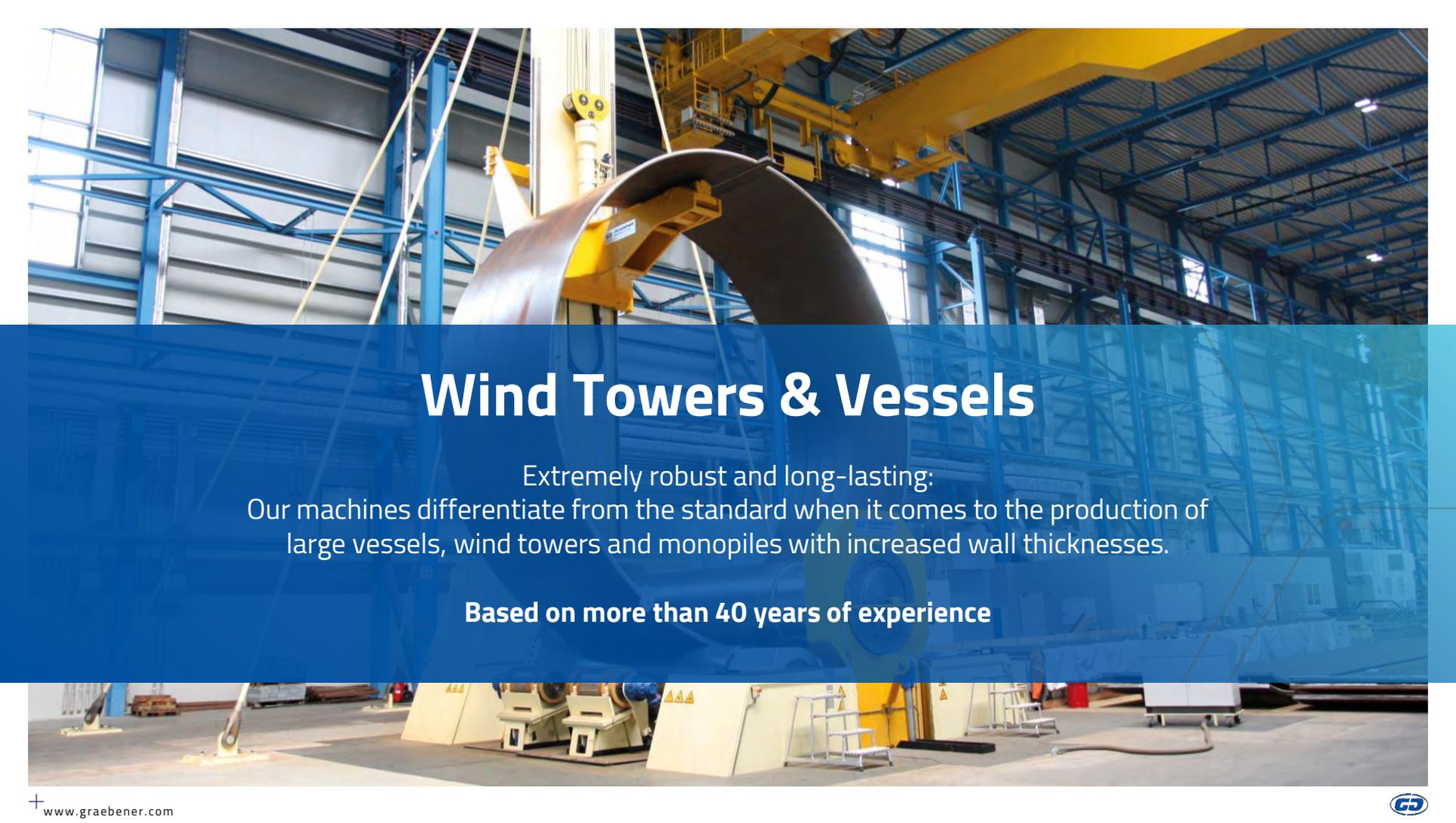


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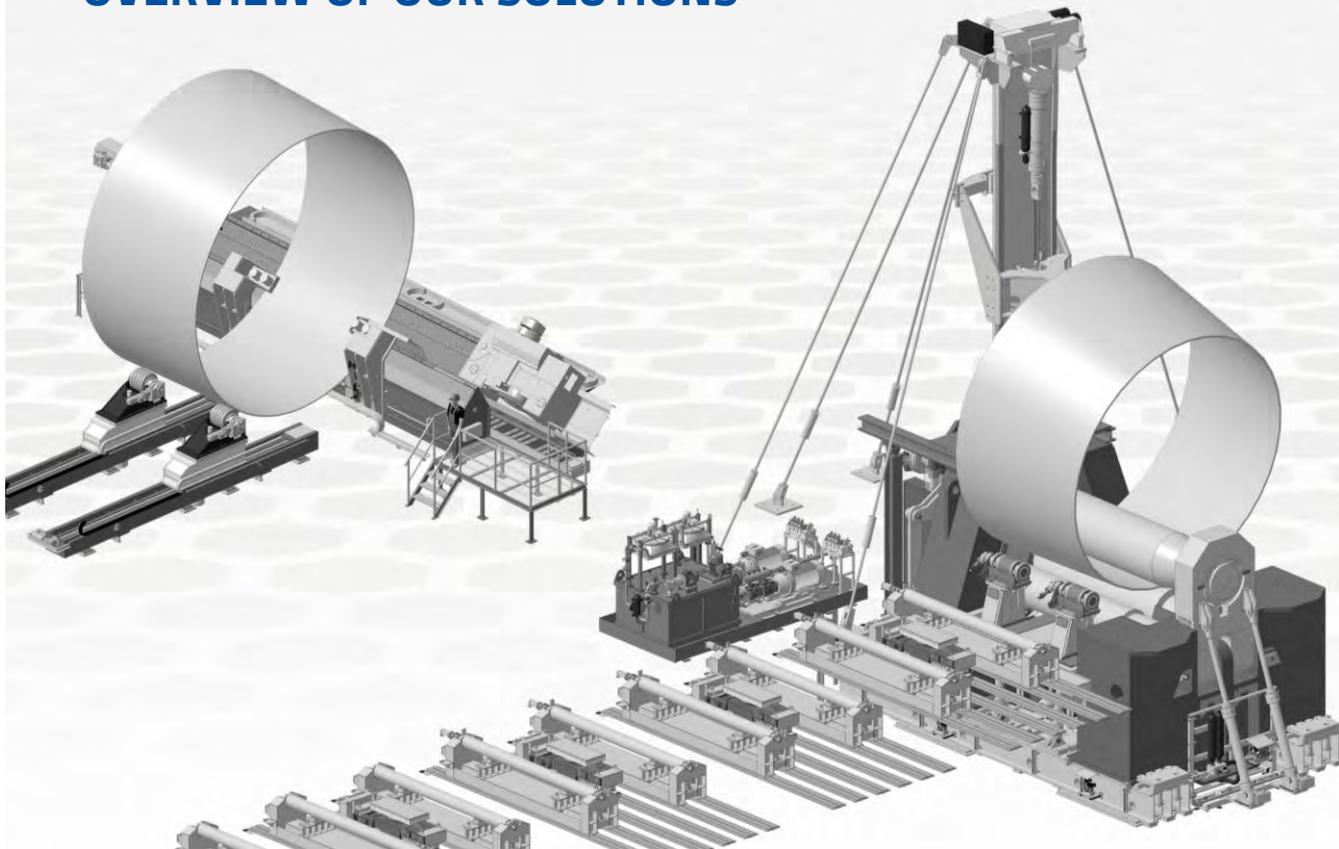


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LARGE PLATES. THICK-WALLED SHELLS. OVERVIEW OF OUR SOLUTIONS



SEAM PREPARATION

Plate Edge Milling Machines
Long Seam Milling Machines
Circ Seam Milling Machines

BENDING

Pre-Bending Presses
3-Roll Bending Machines
4-Roll Bending Machines

Plate Edge Milling Machines

Economic plate edge processing,
especially for thick-walled,
large format plates.

EEW SPC (DE)



PLATE EDGE MILLING MACHINES

Machine types (extract)

- 1-Side Plate Edge Milling Machine
- 2-Side Plate Edge Milling Machine
- 4-Side Plate Edge Milling Machine System

Plate dimensions

- Plate length: up to 30 m
- Wall thickness: up to 150 mm
- Individual plate weight: up to 100 t



PLATE EDGE MILLING MACHINES

Characteristics

- Wide range of possible designs, e.g. with slewable milling head or as tandem system
- Positioning of plates directly in the machine
- Automatic measuring of the plate
- Plate clamping system
- U-groove seams are possible as well as chamfering
- Metallic bright surfaces and highly parallel milled edges
- Electronic copying of the plate waviness

Pre-Bending Presses

For large, thick-walled pipes and vessels.

Steelwind (DE)



PRE-BENDING PRESSES

Machine types

- 1-Side Pre-Bending Press

Plate dimensions

- Plate width: up to 4.5 m
- Wall thickness: up to 150 mm
- Individual plate weight: up to 100 t



PRE-BENDING PRESSES

Characteristics

- Pre-bending of conical shell sections is possible
- Automated positioning device for the plate handling during the pre-bending process
- For plates with increased wall thickness in high steel qualities and special grades
- Cost-efficiency due to
 - Innovative tool construction,
 - Less time required for the calibration of the pipe section and
 - Increased output on the roll bending machines, since pre-bending and bending process can be carried out in parallel; the roll bending machine must be designed for bending and calibrating only

3-Roll Bending Machines

Individual concepts,
esp. for thick-walled shells
(cones, cylinders).

EEW (DE)

EEW SPC (DE)

Eisenbau Krämer (DE)

Mudersbach (DE)

PT. DSAW (ID)

Sif (NL)

VandeGrijp (NL)



3-ROLL BENDING MACHINES

Machine types

- 3-Roll Bending Machines for wind towers and monopiles
- 3-Roll Bending Machines for special vessels and conical shapes

Pipe dimensions

- Pipe length: up to 4.5 m
- External pipe diameter: up to 15 m
- Wall thickness: up to 200 mm



3-ROLL BENDING MACHINES

Characteristics

- Economic concepts especially for shells of increased wall thickness – irrespective of to be formed conically or cylindrically
- Bending machines for special vessels and conical shapes:
 - Fast and simple operation
 - Economic production of cones; suited for increased wall thickness
 - Can also be used for calibrating of cylindrical and conical shells
 - Increased stiffness of the tilting bearing column
 - Top roll inclination so that the pipe shells can be removed
- Special plate handling system

4-Roll Bending Machines

For large, thick-walled vessels,
wind towers and monopiles –
optionally with
supporting yoke or beam

EEW Korea (KR)
EEW Pickhan (DE)
EEW SPC (DE)
Global Pipe (SA)
Kremsmüller (AT)
Steelwind (DE)



4-ROLL BENDING MACHINES

Pipe dimensions

- Pipe length: up to 4.5 m
- External pipe diameter: up to 15 m
- Wall thickness: up to 200 mm

Characteristics

- Plate positioning without crane handling possible
- Suited for increased wall thickness with continuously high production output



4-ROLL BENDING MACHINES – SUPPORT YOKE AND BEAM OPTIONALLY

Characteristics

- Patented support yoke:
 - Support of the slim rolls during the pre-bending of extremely increased wall thickness
 - Straight plate ends are reduced to an invisible minimum
 - Considerable reduction of calibration works
 - Various diameters by using a single top roll possible; less exchange rolls and increased productivity
 - Can be completely submerged in the foundation
- Supporting beam:
 - Prevents the collapsing of comparatively thin plates with large diameters during bending process respectively prevents the influence of the weight of such pipes on the bending process



Long Seam Milling Machines

Weld seam preparation
cost-efficient, reliable and safe.

Bladt (DK)

Cimtas (TR)

CTCI (TW)

EEW (DE)

Haizea Wind (ES)

Lointek (ES)

Novatek (RU)

Sif (NL)

Steelwind (DE)



LONG SEAM MILLING MACHINES

Machine types

- Long Seam Milling Machine Underground Design
- Long Seam Milling Machine Overground Design

Pipe dimensions

- Individual pipe length: 1,500 - 4,500 mm
- External diameter: 2,000 - 15,000 mm
- Milling depth: up to 150 mm



LONG SEAM MILLING MACHINES

Characteristics

- Suitable for the preparation of welding seams, removal of the tack weld and repair of pipes
- Constant seam depth by compensating height differences with a copying system
- Milling speed up to 1,000 mm/minute
- Cost-efficient milling tips with multiple cutting edges
- Seam tracking by means of an integrated camera
- More cost-efficient, quicker, better and health-preserving compared to common processes (gouging/grinding)
- Our Innovation: Graebener® turning device for cones
 - For the crane-independent positioning of the weld seams of cones and cylinders with diameters of up to 15m

Circ Seam Milling Machines

Weld seam preparation
cost-efficient, reliable and safe.

Bladt (DK)

Cimtas (TR)

CTCI (TW)

EEW (DE)

EEW Korea (KR)

Eisenbau Krämer (DE)

Haizea Wind (ES)

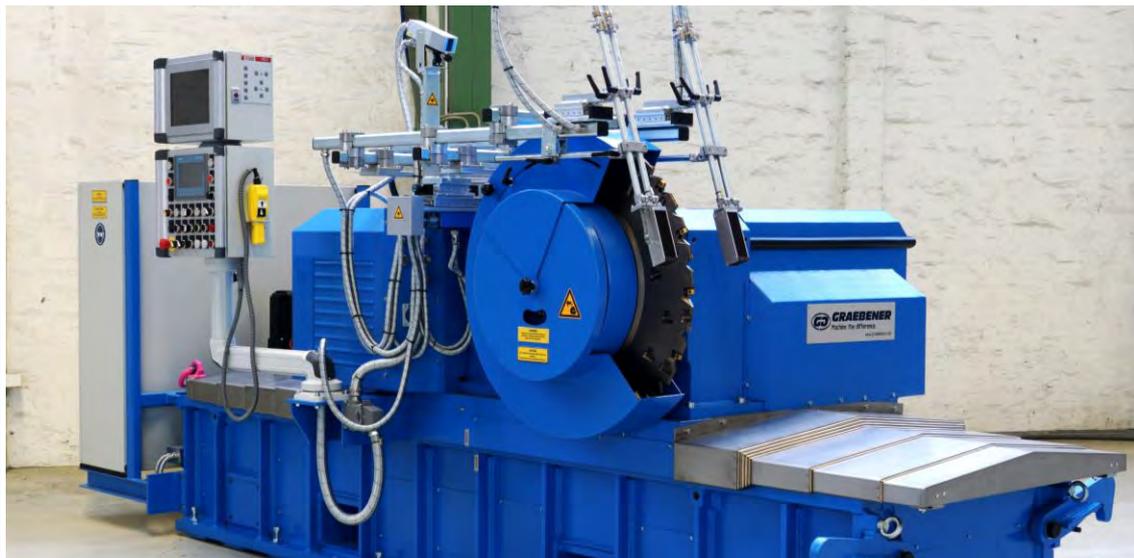
Lointek (ES)

Novatek (RU)

Sif (NL)

Steelwind (DE)

Windar (ES)



CIRC SEAM MILLING MACHINES

Machine types

- Mobile solutions – transportable by crane or forklift truck
- Rail-bound solutions

Pipe dimensions

- External diameter: from 31"
- Milling depth: up to 150 mm



CIRC SEAM MILLING MACHINES

Characteristics

- Suitable for the preparation of welding seams, removal of the tack weld and repair of pipes
- Constant seam depth by sensor scanning
- Milling speed up to 600 mm/minute
- Cost-efficient milling tips with multiple cutting edges
- Seam tracking by means of an integrated camera and laser
- More cost-efficient, quicker, better and health-preserving compared to common processes (gouging/grinding)
- Cost-efficiency confirmed worldwide: Real case studies give proof of the cost advantages of more than 50 percent

CHAPTERS



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Experience since 1921



Graebener® today

Your technology and system partner for customized solutions.

Machine the difference.



Hydroforming

Smart forming of components with complex geometries, e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming



Automotive

More complex and at the same time lighter and stronger.

Along with the increasing requirements for cross components in vehicles, the requirements for intelligent production processes in the automotive industry have been increasing over the last years.

Our solutions are hydroforming and hot forming.



Bipolar Plate Technologies

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R&D and mechanical Engineering since 2003



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Extremely robust and long-lasting.

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Based on more than 40 years of experience



Shipbuilding

Leading shipyards worldwide have been placing their trust in our intelligible solutions. Because in the shipbuilding sector, panel lines are one of the key systems of the entire production.

Tailor-Welded-Plates® technology by Graebener®



Modernization

New power for old technology.

Benefit from the extensive experience of a veteran.

We update your existing machines or production lines according to the latest technological standards.

Reliable solutions by Graebener®



Services

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Consulting and Engineering | Prototyping and Small Series Production | Hydraulics Automation and Control Technology | After Sales



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Predictive Maintenance



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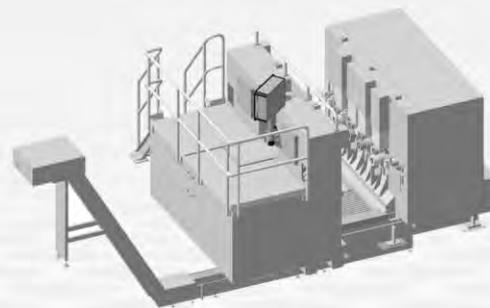
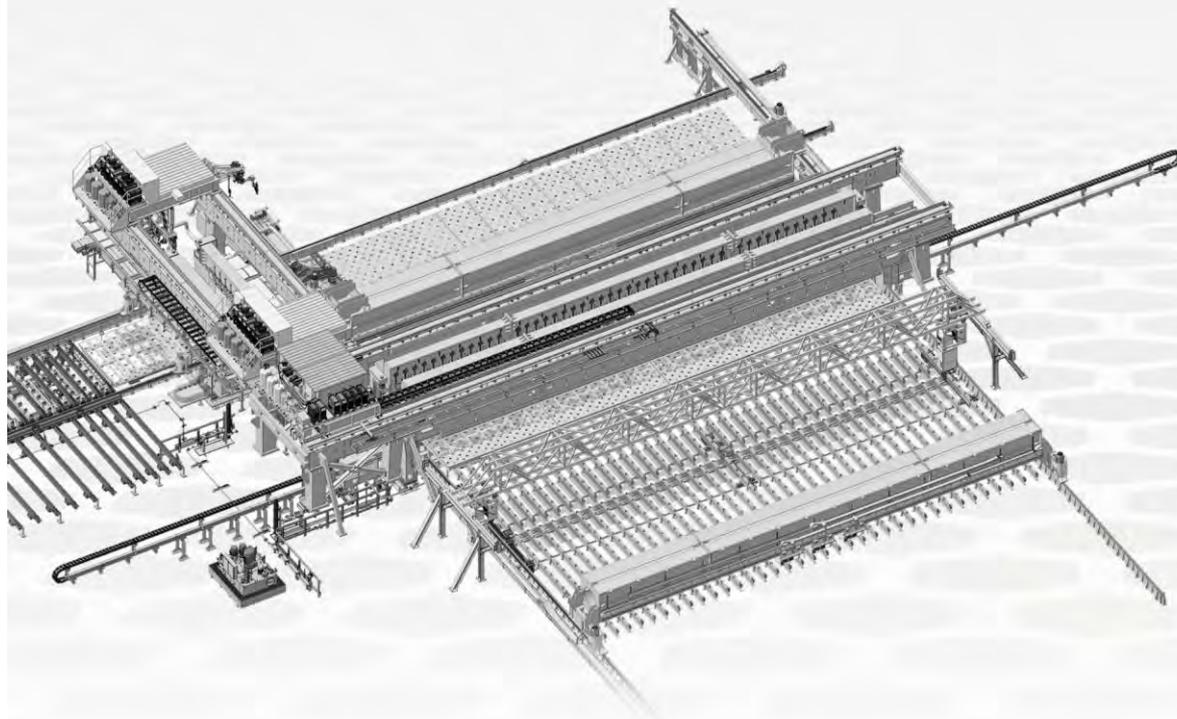


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LARGE PLATES. STABLE SHIP DECKS. OVERVIEW OF OUR SOLUTIONS



SEAM PREPARATION + JOINING

Panel Production Lines

SEAM PREPARATION

Plate Edge Milling Machines
Profile Milling Machines

Panel Production Lines

Combination of plate edge milling machines and most modern laser hybrid welding technology.

Fincantieri (IT)
GSI (CN)
Meyer Turku (FI)
Meyer Werft (DE)
Nassco (US)
SWS (CN)



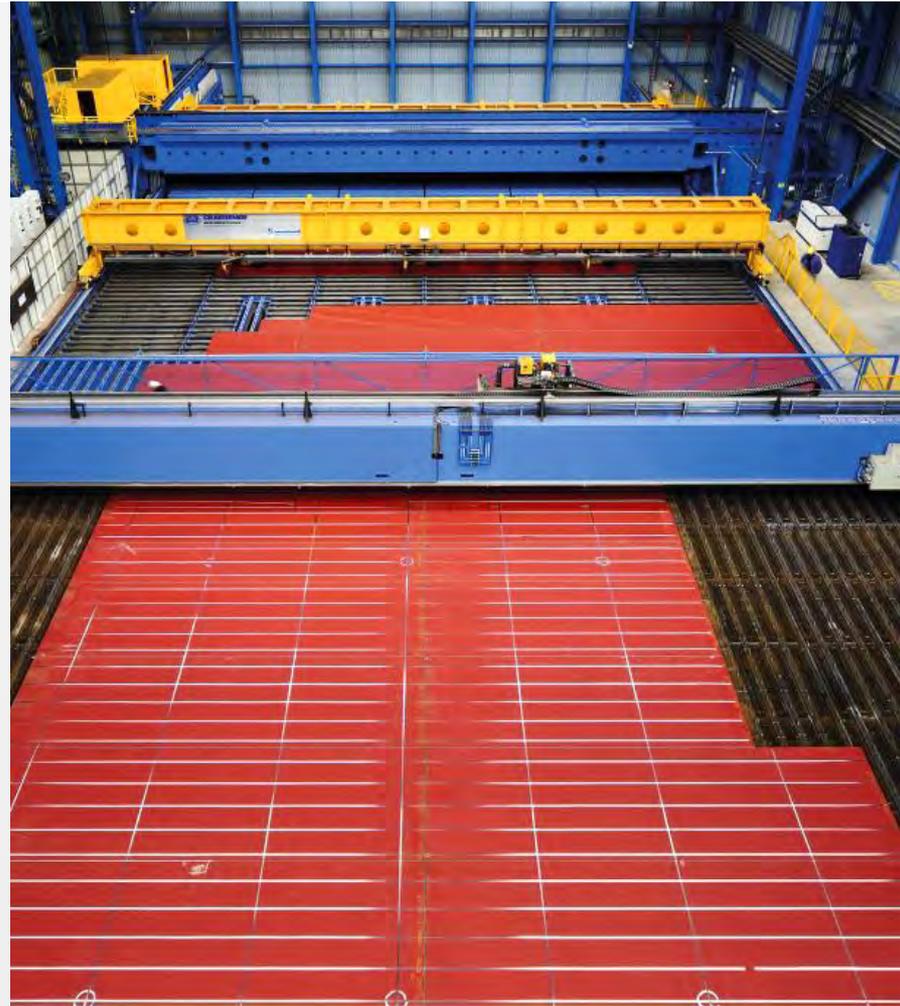
PANEL PRODUCTION LINES

Machine types

- 2-/4-Side Plate Edge Milling Machines:
Graebener® Plate Edge Milling Machines
incl. Laser Hybrid Welding Technology

Plate dimensions

- Individual plate length: up to 30 m
- Individual plate width: up to 4 m
- Deck length: up to 60 m
- Deck width: up to 30 m
- Wall thickness: 3 - 30 mm



PANEL PRODUCTION LINES

Characteristics

- Graebener® Tailor-Welded-Plates® technology: combination of most modern milling technology and laser hybrid welding for simultaneous milling and welding
- Worldwide unique: processing of cross areas of up to 4 different plate thicknesses
- Welding gap „0“ due to the simultaneous two-side milling process
= straightening, clamping and tacking operations in down stream machines are no longer necessary
- Low tolerances since the plate clamping remains constant from milling until end of joining process
- High quality welding technology by most experienced welding partners
- Option to use various welding processes
- Cost-efficient standard components for milling heads and milling tips with short changeover times
- Outstanding operating life especially for rough shipyard conditions

Plate Edge Milling Machines

Guarantee a cost-efficient, faster
and better weld seam preparation.

Austal (US)
Hudong Shipbuilding (CN)
Nassco (US)
Newport News (US)
Philly Shipyard (US)



PLATE EDGE MILLING MACHINES

Machine types (extract)

- 1-Side Plate Edge Milling Machine
- 2-Side Plate Edge Milling Machine
- 4-Side Plate Edge Milling Machine

Plate dimensions

- Plate length: up to 20 m
- Wall thickness: up to 65 mm

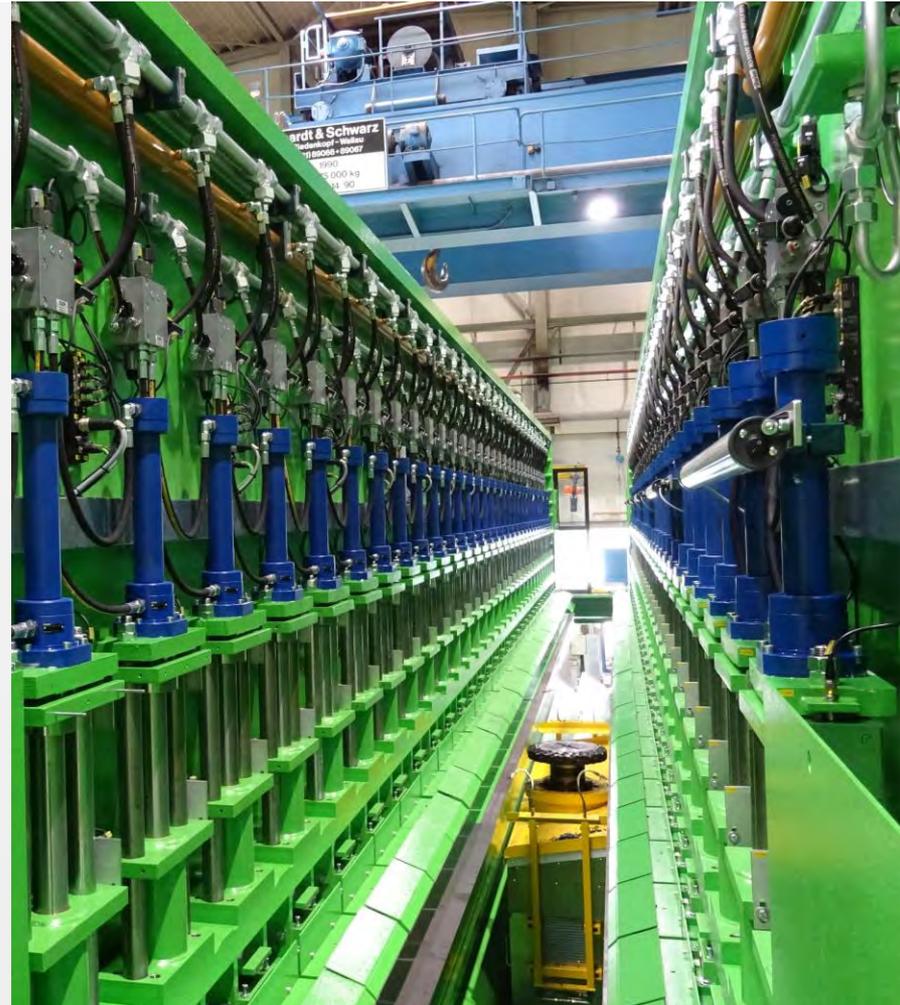


PLATE EDGE MILLING MACHINES

Characteristics

- Various designs possible, e.g. with slewable milling head or with moveable clamping beams
- Positioning of the plates directly in the machine
- Automatic measuring of the plates
- Plate clamping system
- Chamfering possible
- Result: metallic bright surface and highly parallel milled edges

Profile Milling Machines

Optimum weld seam preparation
at shipbuilding profiles.

Fincatieri (IT)

GSI (CN)

JSC (RU)

Nassco (US)

Odense Shipyard (DK)

Philly Shipyard (US)

SWS (CN)



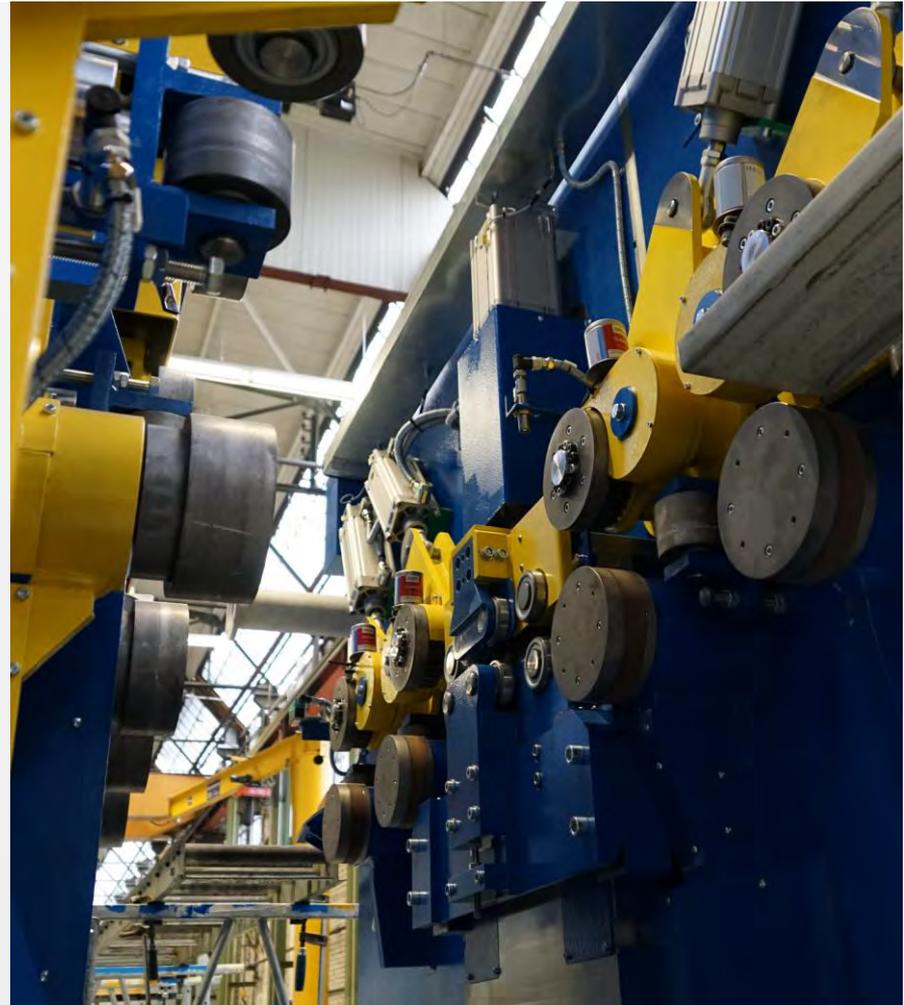
PROFILE MILLING MACHINES

Profile dimensions

- Profile (milling) length: 3 - 30 m
- Material thickness: up to 35 mm
- Profile types: bulb profiles, T-profiles, flat steels, angle steels

Characteristics

- For the preparation of the profile edges for the subsequent welding process, e.g. laser (hybrid)
- Suitable for all common types of shipbuilding steels
- Suitable for integration into a profile production line = moving of working piece instead of milling head



CHAPTERS



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Experience since 1921



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Machine the difference.



Hydroforming

Smart forming of components with complex geometries, e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming



Automotive

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R&D and mechanical Engineering since 2003



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Shipbuilding

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Tailor-Welded-Plates® technology by Graebener®



Modernization

New power for old technology.

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Reliable solutions by Graebener®



Services

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Error analysis and systematic improvement of the production

Predictive Maintenance

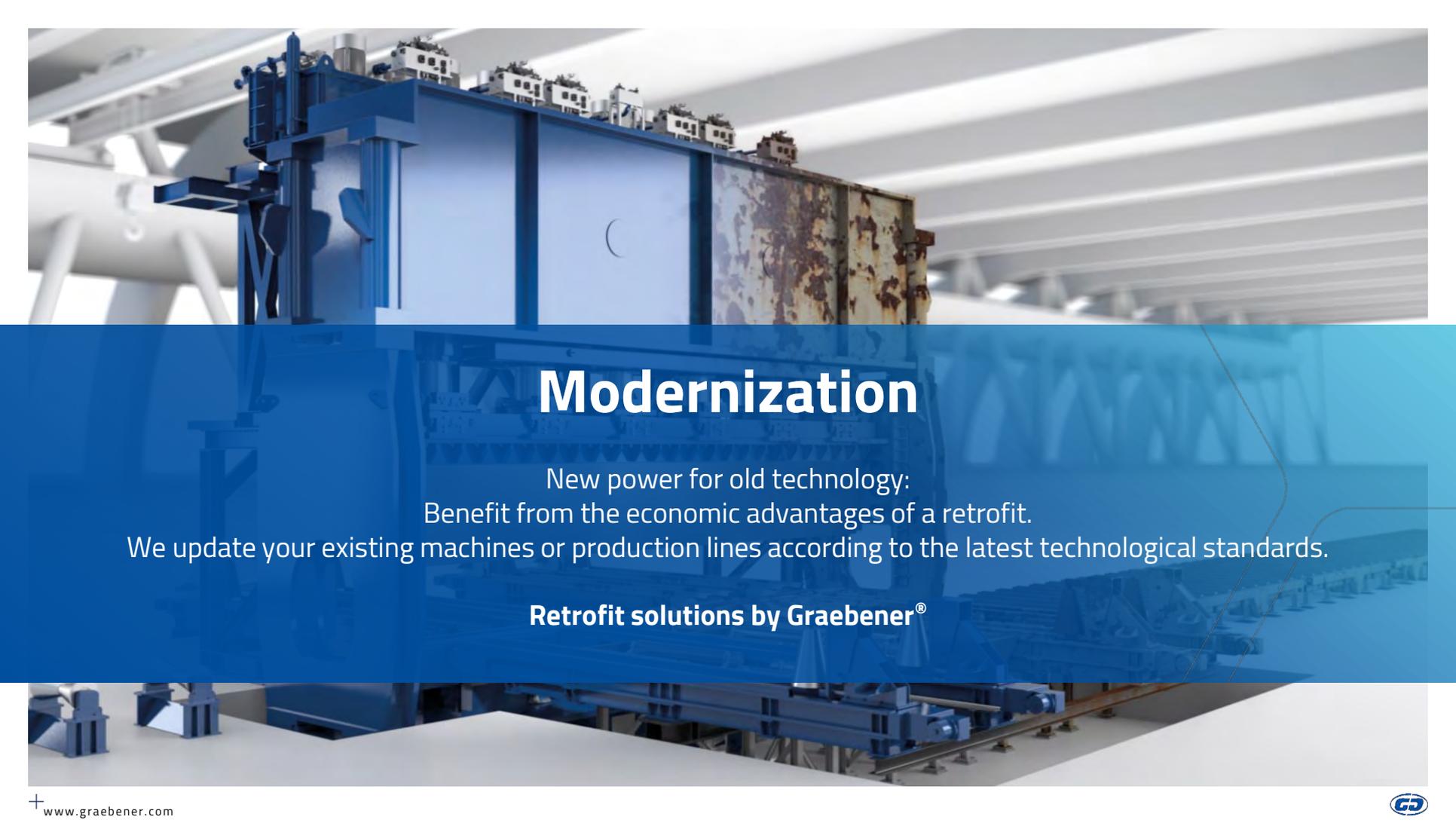


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Modernization

New power for old technology:
Benefit from the economic advantages of a retrofit.

We update your existing machines or production lines according to the latest technological standards.

Retrofit solutions by Graebener®

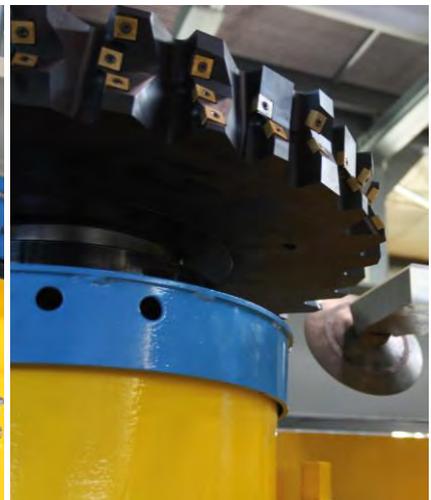
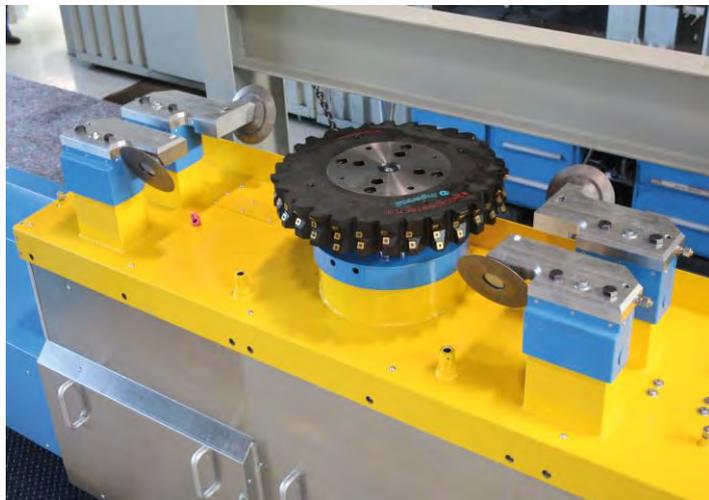
Retrofit: Hydroforming Press





Retrofit:
Pipe Bending Press
incl. Control System
+ Hydraulic Unit

Retrofit: Milling Support of a Plate Edge Milling Machine





Retrofit: Circ Seam Milling Machine

CHAPTERS



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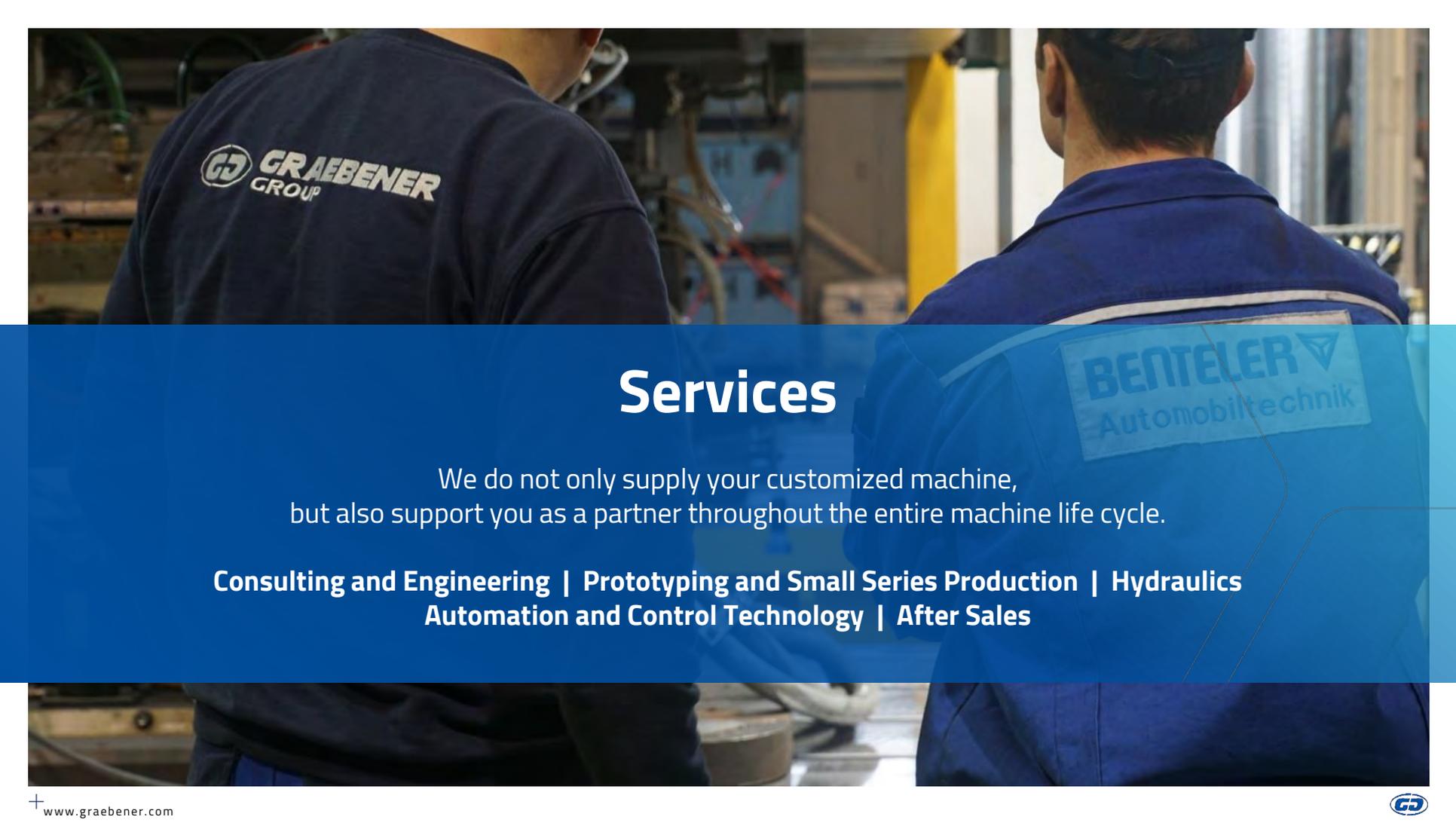


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GD GRAEBENER
GROUP

Services

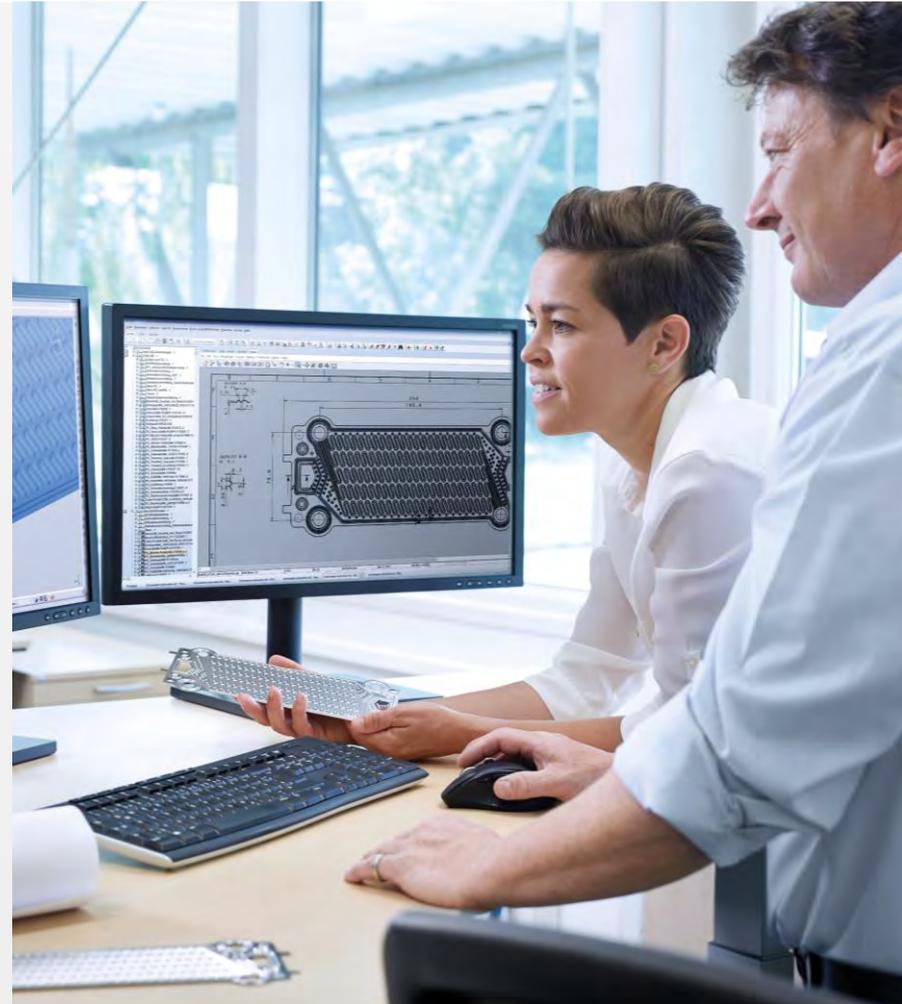
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**Consulting and Engineering | Prototyping and Small Series Production | Hydraulics
Automation and Control Technology | After Sales**

CONSULTING AND ENGINEERING

Individual, holistic, reliable

- For new lines, economic retrofit and complete production lines for pipes, vessels, wind towers and fuel cell components
- From the initial idea through the engineering up to the customized solution
- Inclusive tool engineering und prototyping
- Based on the decades of experience of our highly qualified engineers and technicians throughout the entire process chain



PROTOTYPING AND SMALL SERIES PRODUCTION

Inhouse Graebener® Prototyping Center

- Internal and external high-pressure forming
- For test series, small series production or in case of capacity bottlenecks
- From the simulation phase up to the first components

Worldwide unique press capacities

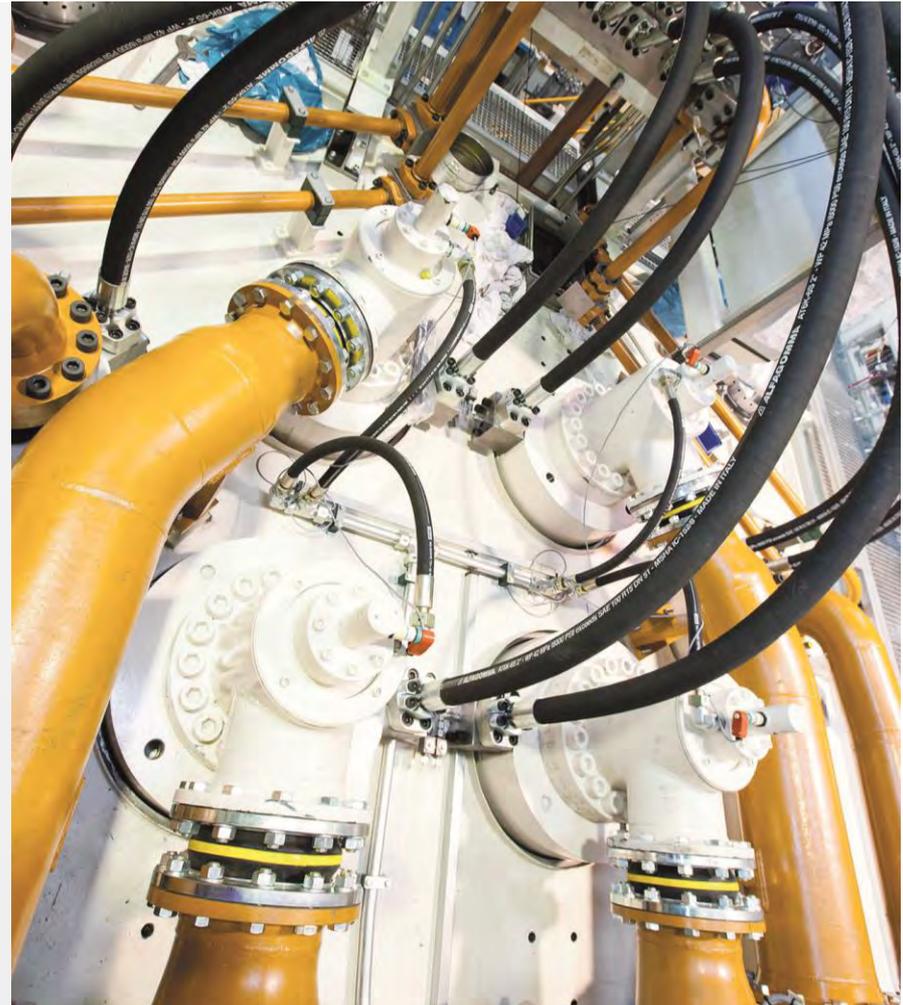
- Closing forces from 1,500 -10,000 t
- Table surfaces of up to 6 x 2.2 m



HYDRAULICS

**Everything from one source:
Ideal match of mechanics, electrics and hydraulics**

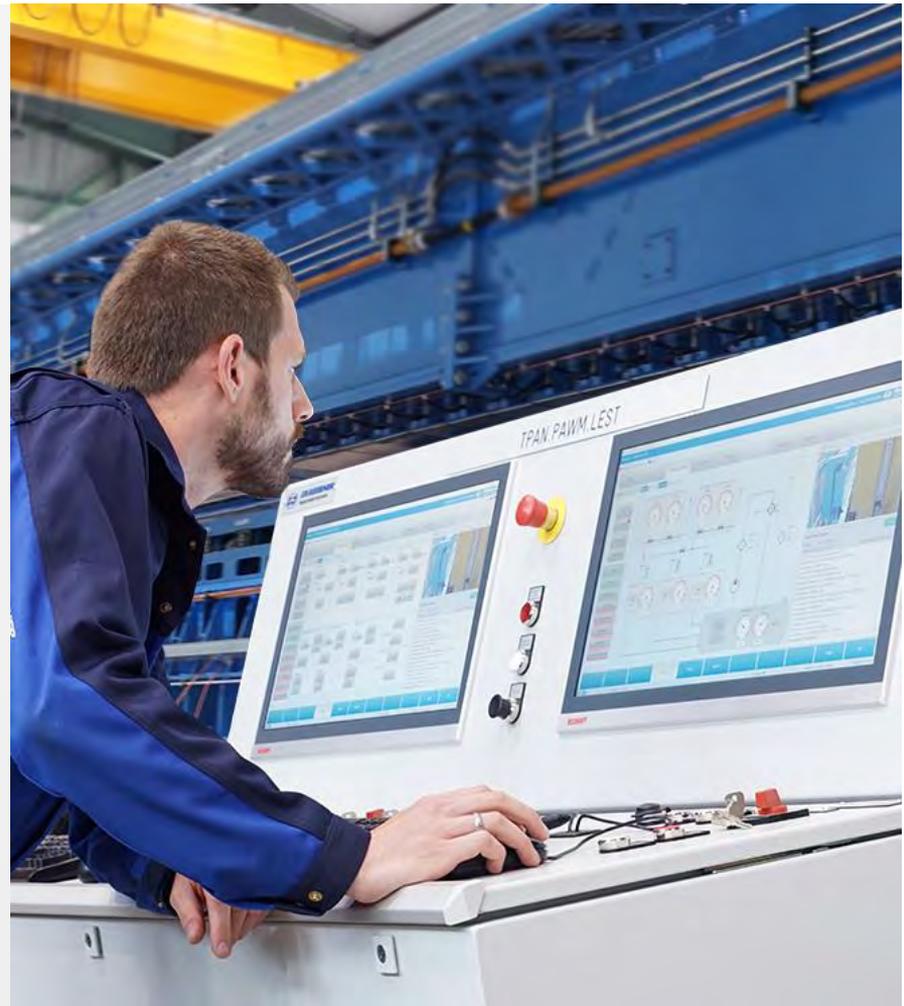
- From the first consulting up to the final start-up of your system
- For new lines and general modernization of your existing machines
- Comprehensive know-how for
 - Common oil hydraulics
 - Water hydraulics for the active media (HFA) hydroforming (internal and external)



AUTOMATION AND CONTROL TECHNOLOGY

As individual as your machine

- From the programming to the visualization up to the integration of Industry 4.0 application
- Your competitive edge in efficiency and economic profitability
- For your new machine or for already existing technology
- Graebener® control visualization with various user rights
- With hardware components from renowned manufacturers



AFTER SALES

Worldwide service

- Phone support and remote maintenance
- Spare part supply
- Repairs
- Maintenance (predictive)
- Assembly
- Training
- Modernization / Retrofit

Service centers

- Europe, USA and Asia



CHAPTERS



History

Our individual solution concepts are based on reliable values and expert knowledge, which we have built up in our family-owned company over the course of more than 100 years.

Experience since 1921



Graebener® today

Your technology and system partner for customized solutions.

Machine the difference.



Hydroforming

Smart forming of components with complex geometries, e.g. in the fitting industry or in the energy sector.

Internal and external high pressure forming



Automotive

More complex and at the same time lighter and stronger.

Along with the increasing requirements for cross components in vehicles, the requirements for intelligent production processes in the automotive industry have been increasing over the last years.

Our solutions are hydroforming and hot forming.



Bipolar Plate Technologies

Our declared goal: Shaping the future of energy production more intelligently and ecologically sensible way. We train new ground and develop production technologies for fuel cells and electrolyzers.

R&D and mechanical Engineering since 2003



Pipes

We understand your processes. As experienced partner, we accompany you from the first plate processing up to the optimized pipe or pipe section. Individual, individual, customer-oriented.

Thanks to our experience gained from 1976 - 1997 with our own pipe mill



Wind Towers & Vessels

Extremely robust and long-lasting. Our machines differentiate from the standard when it comes to the production of large vessels, wind towers and monopiles with increased wall thicknesses.

Based on more than 40 years of experience



Shipbuilding

Leading shipyards worldwide have been placing their trust in our intelligible solutions. Because in the shipbuilding sector, panel lines are one of the key systems of the entire production.

Tailor-Welded-Plates® technology by Graebener®



Modernization

New power for old technology. Benefit from the extensive experience of a veteran. We update your existing machines or production lines according to the latest technological standards.

Refit/solutions by Graebener®



Services

We do not only supply your customized machine, but also support you as a partner throughout the entire machine life cycle.

Consulting and Engineering | Prototyping and Small Series Production | Hydraulics Automation and Control Technology | After Sales



Process and machine optimization with AI

Based on your data we determine unseen potentials of your production and equip your machines with the necessary technology.

Condition Monitoring
Error analysis and systematic improvement of the production
Predictive Maintenance

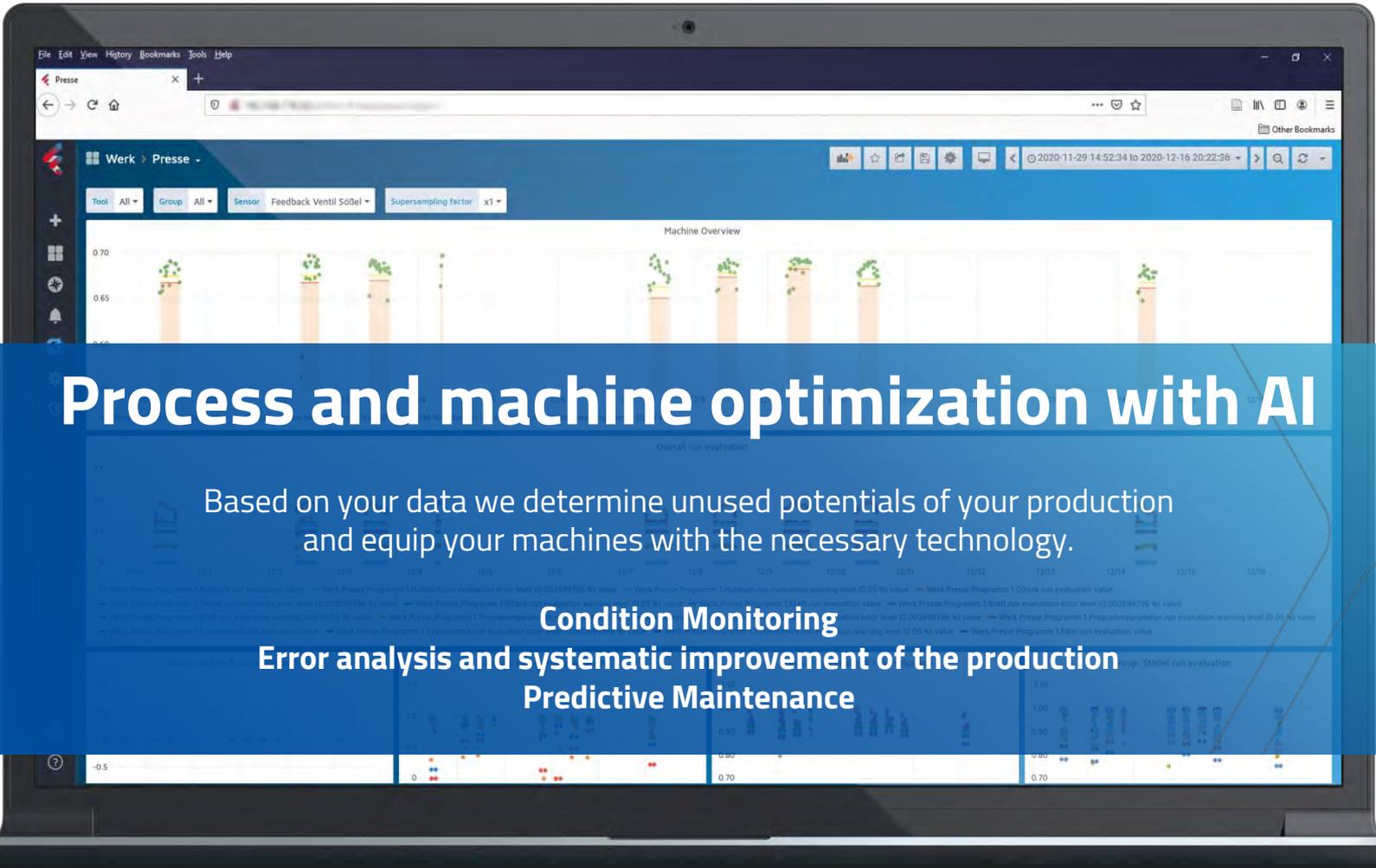


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Process and machine optimization with AI

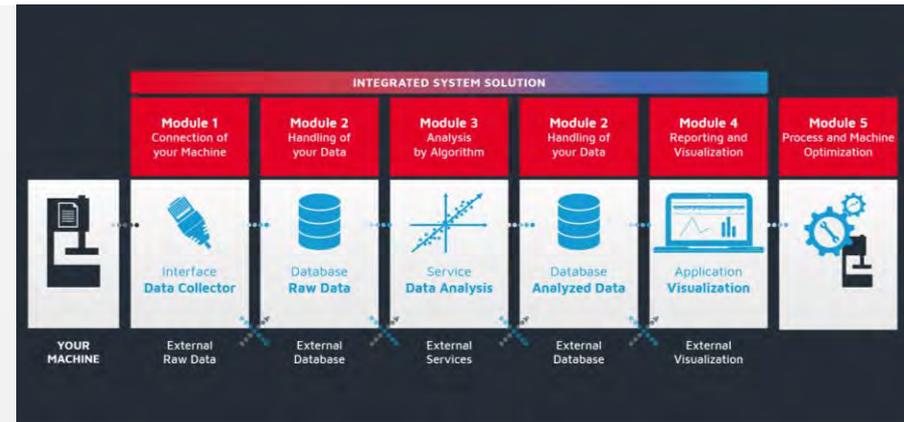
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Predictive Maintenance

OPTIMIZATION WITH AI

Intelligent production monitoring with our partner fabforce®

- Your modules – according to requirement:
 - Machine connectivity
 - Data handling
 - Data analysis per algorithms
 - Reporting and visualization
 - Process and machine optimization
- Your targets (extract):
 - Condition monitoring
 - Error analysis and systematic improvements
 - Predictive maintenance



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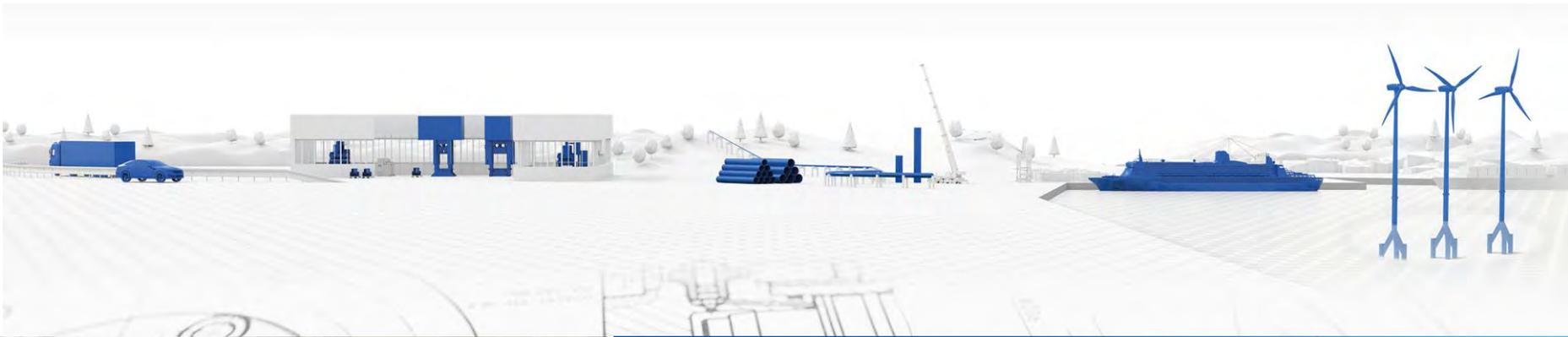


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