

# RAMPTOR<sup>®</sup>

CARBIDE CIRCULAR SAWING MACHINE



**LINSINGER**

[www.linsinger.com](http://www.linsinger.com)

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**RAPTOR®**

[www.raptor-saw.com](http://www.raptor-saw.com)



## TECHNOLOGY

For over 80 years, LINSINGER stands for mechanical engineering excellence. Passion, hard work, personal commitment and dedication have played the primary role in the success of LINSINGER and the satisfaction of our customers. With an export quota of 98%, the company developed from a family business to an owner-run global player in the industry. Innovation plays another major role in the success of the company. That is why the Research and Development Department at LINSINGER is redefining the limits by collaborating with our clients to find the right solution for each project.

In order to develop tailored concepts aligned to the requirements of our customers, an involved partnership is very important to us. Our industry know-how enables continuous development on our products and processes. With innovation and precision, we develop and manufacture highly complex components and assemblies – everything from a single source.

## ENGINEERING

Our expert design team supports you in complex tasks. Our years of experience and the large in-house production depth are enabling us to complete all our projects within the shortest possible time, and through the collaboration with our clients, an optimum exchange of information is guaranteed.

## RAPTOR®

In the last 35 years, LINSINGER has been able to place more than 400 large circular saws for a wide variety of applications on the global market. The know-how gathered in this multitude of projects is now applied in the new RAPTOR® product line, together with numerous innovations and technological advancements.

## APPLICATIONS



FORGING



TUBE & PIPE



AUTOMOTIVE



NON-FERROUS

Our product line RAPTOR® provides the proven reliability and stability of LINSINGER's circular sawing machines for the demand of modern mass cutting operations. The RAPTOR® family has been especially developed to ensure highest performance in combination with thin-cut saw blade technology.

	RAPTOR® 100	RAPTOR® 180	RAPTOR® 300
Round [mm]	10 - 100	20 - 180	60 - 300
Square max [mm]	85 x 85	150 x 150	260 x 260
Speed [m/min]	up to 240	up to 240	up to 240
Feed [mm/sec]	0.5 - 45	0.5 - 45	0.5 - 45
Main drive [KW]	15	36	56
Saw blade diameter [mm]	280 - 360	440 - 630	610 - 830
Machine weight [kg] approx.	2 500	6 500	11 000
Hydraulic-free	✓	✓	✓
HMI 22" Easy Touch / Pro	✓/•	✓/•	✓/•
Contact-free saw blade return	•	✓	✓
Multi-point saw blade damping	✓	✓	✓
LINCUT approved	-	✓	✓
Sawblade micro lubrication & cooling	✓	✓	✓
Chip brush	✓	✓	✓
Automatic central lubrication unit	✓	✓	✓
Feeding tong single stroke length [mm]	✓ 750/• 1 500	✓ 750/• 1 500	✓ 750/• 1 500
Fully integrated, temp. controlled switch cabinet	✓	✓	✓

\* ✓ included  
• optional  
- not included



ELECTRO-MECHANIC  
POSITIONING



ELECTRO-MECHANIC  
CLAMPING



ADVANCED SAW BLADE  
DAMPING



STATE OF THE ART  
OPERATING PANEL



## RAPTOR® STANDARD

# PREMIUM FEATURES

Machines of the RAPTOR® family completely refrain from using hydraulics. As a result, bulky components such as pumps, pipelines, hoses, or accumulators are completely eliminated. The removal of hydraulics allows for a quieter machine overall, with a significant reduction in noise pollution. The reduced risk of pollution caused by leaking oil, fires or accidents at work underlines the "green and safe" philosophy of this machine once again.



Particular attention has also been paid to the optional integration of components that allow **condition monitoring** and **predictive maintenance**.

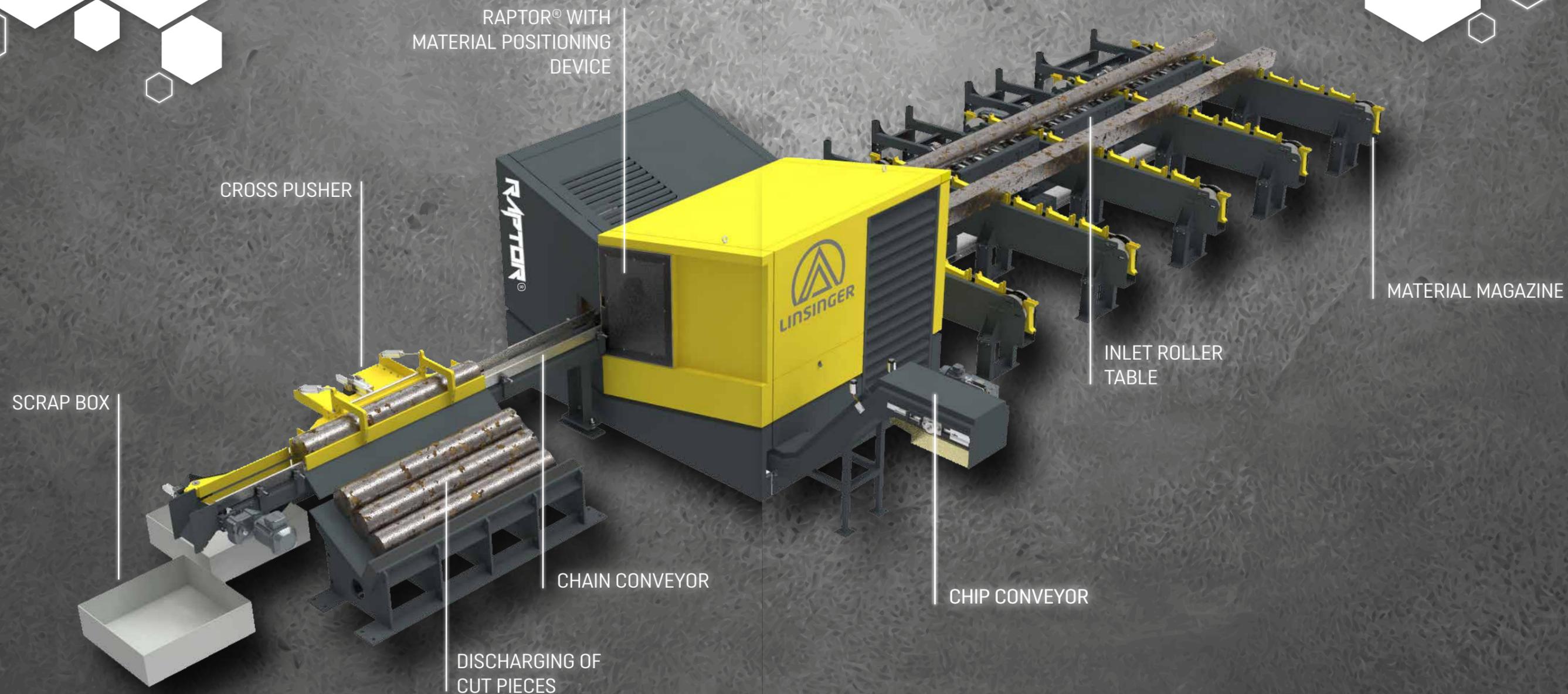
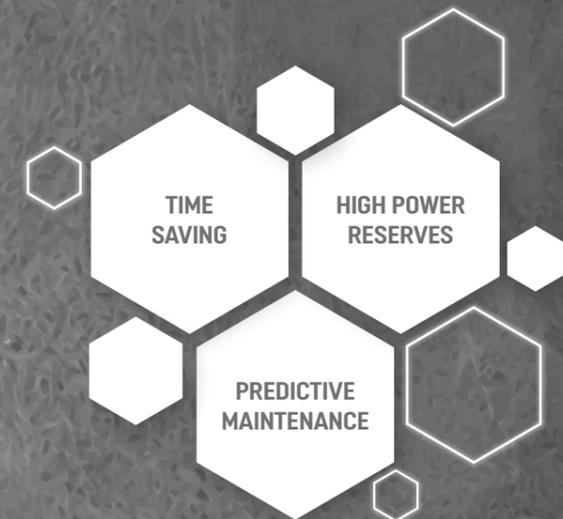
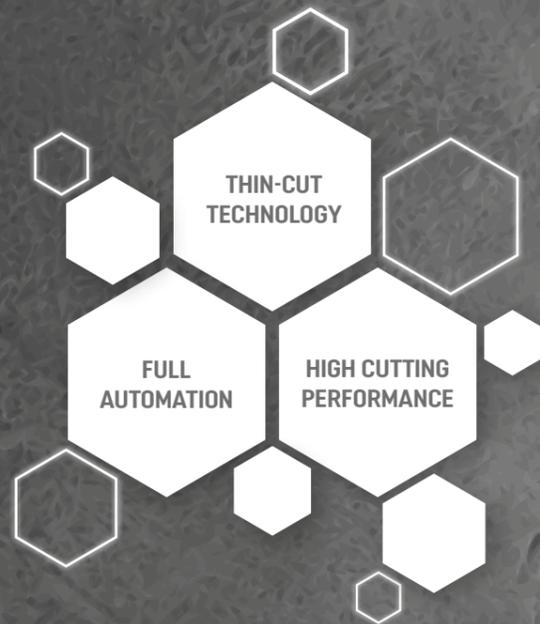


To increase the operational efficiency of the RAPTOR® even more – this machine has been developed for the use of modern thin-cut saw blades and the LINSINGER LINCUT®.

### PREMIUM FEATURES

- LINSINGER heavy duty gearbox
- Contact-free saw blade return
- Central lubrication of all spindles and linear guidings
- Cooling and lubricating technology for saw blades
- Linear guided saw feed with ball-screw spindle and servo motor
- Frequency controlled main drive with high power reserves
- Fully-integrated switch cabinet resulting in small footprint and quick installation



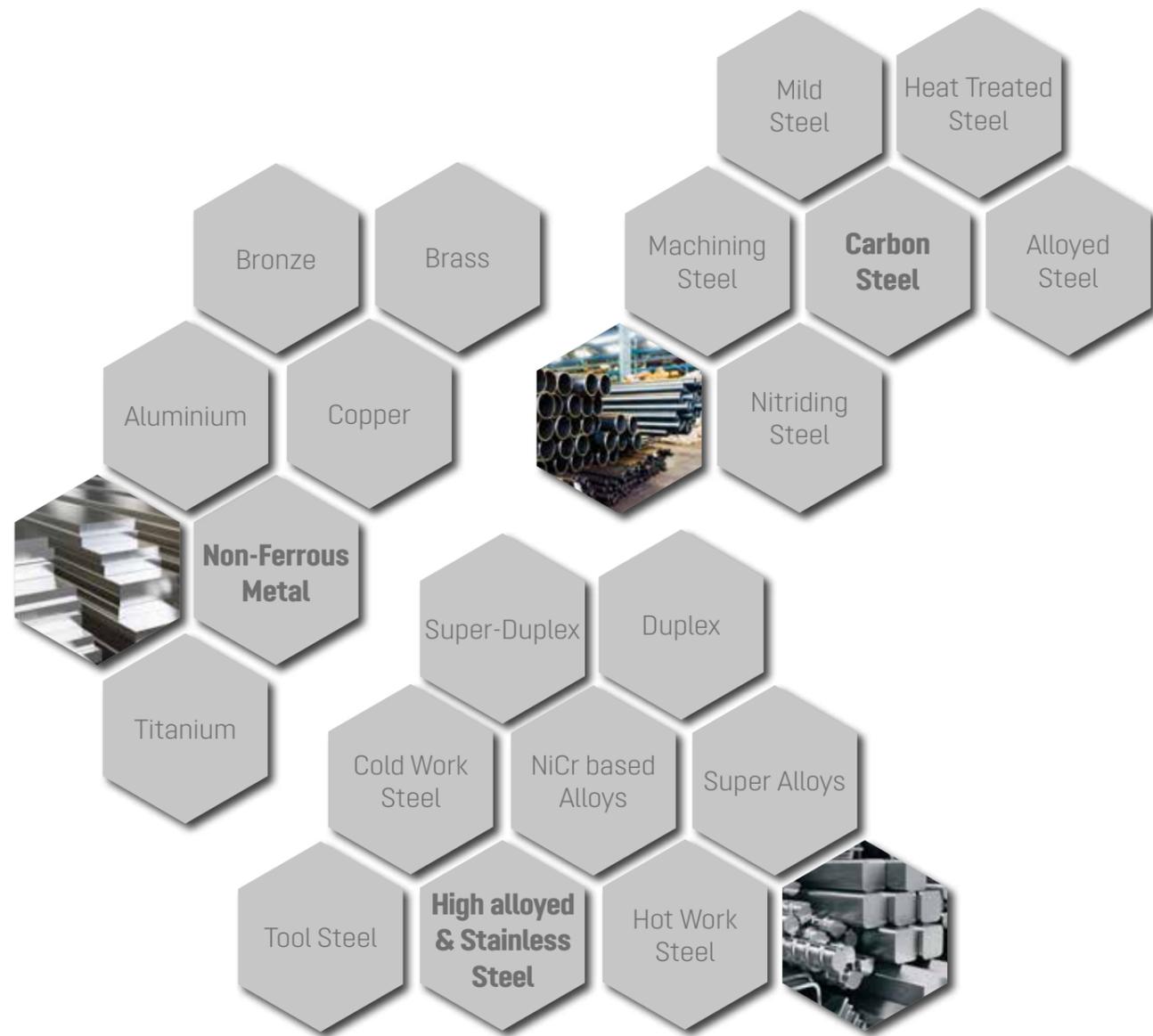


**RAPTOR®**  
Carbide circular sawing machine

**TRUST YOUR INSTINCTS**

# BEAT THE ELEMENTS

The RAPTOR® machine has been designed to be applicable for all requirements. A wide range of materials can be cut in the most economic way due to heavy rigid machine design, highest main drive power, first class components and the overall experience of the successful LINSINGER Sawing Technology.



# IN-HOUSE TOOL TECHNOLOGY

LINSINGER is in the unique position to offer a complete solution of machine and tool from a single source. The machine know-how as well as the in-house production and development capabilities of specially tailored tools enable LINSINGER to determine reliable tool costs already during the project planning phase with the customer. Benefit from modern material saving thin-cut saw blades and the unique LINCUT® saw blade system. LINCUT® is the most advanced saw blade technology since its introduction in 2008 – confirmed by more than 120 customers worldwide.

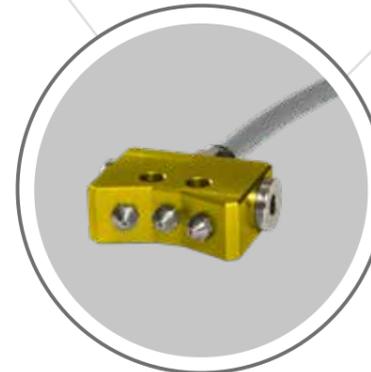


### THIN-CUT SAW BLADES

- Minimize material loss during cutting
- Energy-saving
- PVD coating for increased tool lifetime available
- Standard and special executions
- One-time use or possibility to resharpen

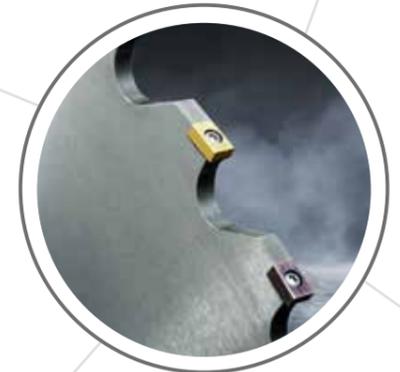
### LINCUT® SAW BLADE SYSTEM

- First field-proven saw blade with exchangeable teeth
- Re-tooling by operator
- Coated tips for extended tool lifetime
- Economic cutting also of complex materials
- Wide range of cutting geometries available
- Resharpener logistics are completely eliminated



### MICRO-DOSE UNIT

- Standard with every RAPTOR® machine
- Precise distribution of high performance cutting oils
- Effective saw blade body cooling
- Economic cutting of a wide range of materials



# CUSTOMIZED PRODUCTION LINES

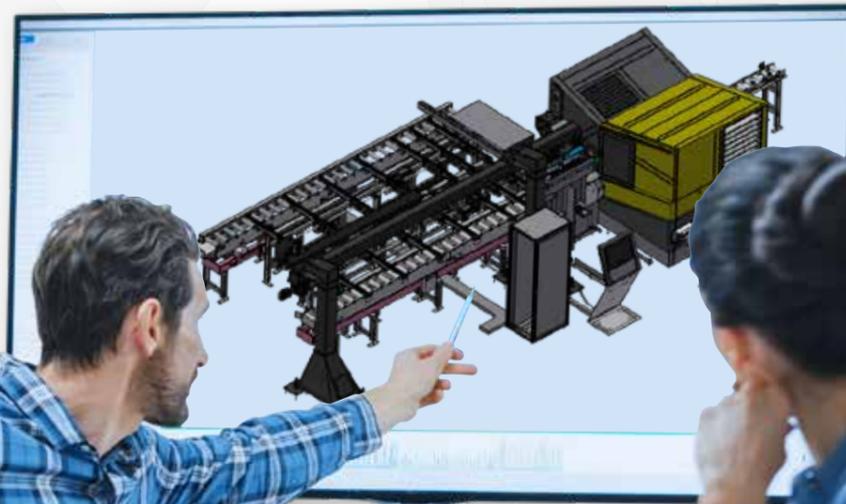
More than 80 years of experience in building special machinery – LINSINGER knows the importance of matching the sawing system to production requirements. Customized material handling for the RAPTOR® sawing machine will boost your productivity.

Ready-to-use solutions are in our portfolio. Handling of incoming material, in bundles or single – independent of shape – our material magazines and auxiliary systems ensure fast and uninterrupted supply of material to the machine.

Cut-offs as well as scrap and remnant pieces can be handled on the outlet side of the RAPTOR® on conveyors, gripper units or robots. Additional quality controls (length/weight), marking or sorting functionalities are available.

Application dependent – forging, pipe production, mass cutting, distribution or other – the possibilities are as diverse as the final product. Our engineers and saw specialists are ready to work out a tailor-made solution with and for the customer.

Integration into interlinked production lines or turnkey sawing plants – *we've got you covered.*



## MATERIAL MAGAZINES & HANDLING

- Flexible designs for round, square and rectangular material
- Magazines, roller tables and conveying systems
- Custom-built to meet the requirements



## CUT-OFF CHAIN CONVEYOR WITH DISCHARGE PUSHERS

- Heavy duty steel plate conveyor
- Scrap piece switches
- Cut-off discharge pushers



## ROBOT HANDLING

- 6-axis industrial robots with material grippers
- Sorting and stacking possibilities



## LENGTH MEASUREMENT & WEIGHING DEVICES

- 100% quality control for every cut-off
- Statistic records
- Cut-to-weight and weight optimization possible
- Length optimized cutting, remnant piece reduction



## MARKING & LABELLING

- Automatic marking units
- Laser or dot-peen markers
- Label printer and automatic application



## MANIPULATOR TONG

- Cut-off piece handling – fast and accurate



# BE IN CONTROL EASY TOUCH

## RAPTOR® EASY TOUCH

- 22" Siemens touch screen panel
- Automatic and single cut operation
- Detailed machine overview
- Production screens
- Maintenance functions
- Messages and error codes in clear text
- Remote diagnosis access

## RAPTOR® EASY TOUCH PRO

- **LINSINGER-Condition Monitoring System**
- Online real-time machine monitoring through secure cloud
- Uptime and availability analysis
- Machine status and performance tracking
- Predictive maintenance guidance
- Saw blade management
- Weight optimized cutting
- Level 2 connectivity



# AFTER SALES SERVICE

## AFTER SALES SERVICE BY LINSINGER

The LINSINGER experience is not limited to the purchase of the machine. At every machinery project, our Customer Service Department will be by your side. Your day-to-day needs such as installation, spare parts, commissioning and maintenance will be met by our team. Count on reliable, fast and skilled support 24/7 on 365 days a year.



### HOTLINE & TECHNICAL SUPPORT

Our hotline is available for our clients 24/7 on 365 days a year. We pride ourselves that we are not just innovative but also service orientated.



### CUSTOMER SERVICE & MAINTENANCE

The LINSINGER Service Team provides worldwide maintenance, service and repairs for LINSINGER machines.



### REMOTE SERVICE

Every machine is equipped with remote access function enabling quick off-site support.



### TRAINING & APPLICATION ADVICE

To optimize the use of your new machine, a thorough training by our expert technicians is conducted to obtain detailed knowledge on the machine.



### SPARE PARTS & TOOLS

We supply our clients with original spare parts and tools made by LINSINGER. This will ensure that any replacements will go smoothly and will fit perfectly.



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