



STROMAB

EXPERTS IN CROSSCUTTING SOLUTIONS SINCE 1965

MATRIX

AUTOMATIC
CUTTING-OFF LINES WITH
ELECTRONIC PUSH FEED SYSTEM

"MATRIX" AUTOMATIC CUTTING-OFF LINES

"Evolution of the species": starting from the wide range of manually operated cutting-off machines, TR350, TR450, TR500 and TR600, produced since the start of the 1970s, STROMAB decided to evolve the range and enter the automatic cutting-off line sector, becoming one of the strongest global players.

More than 1000 machines with push feed system have been sold since the idea became reality, and as usual it is purely thanks to the characteristic Made in Italy ethos, an entirely Italian mindset which manages to blend customer care, in-depth market knowledge, the right quality-price ratio and an unwavering confidence in our company, and which has enabled us to become a point of reference on a global level.

EVOLUTION OF THE SPECIES: EXPERIENCE IN SOFTWARE.



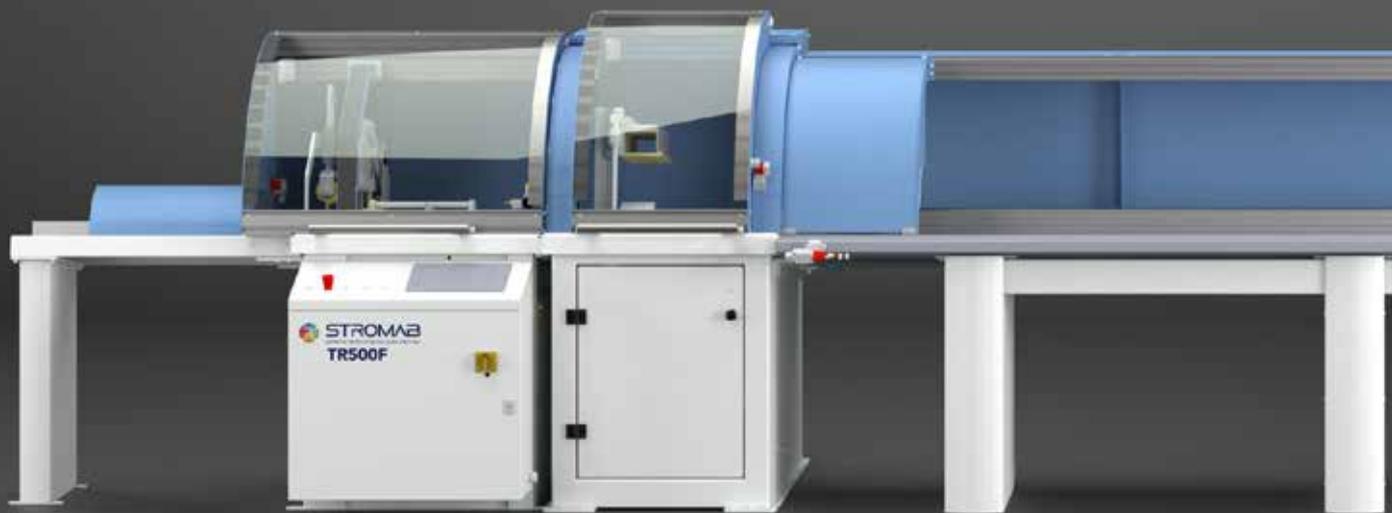
 **STROMAB**
EXPERTS IN CROSSCUTTING SOLUTIONS SINCE 1965
TR500F





STROMAB

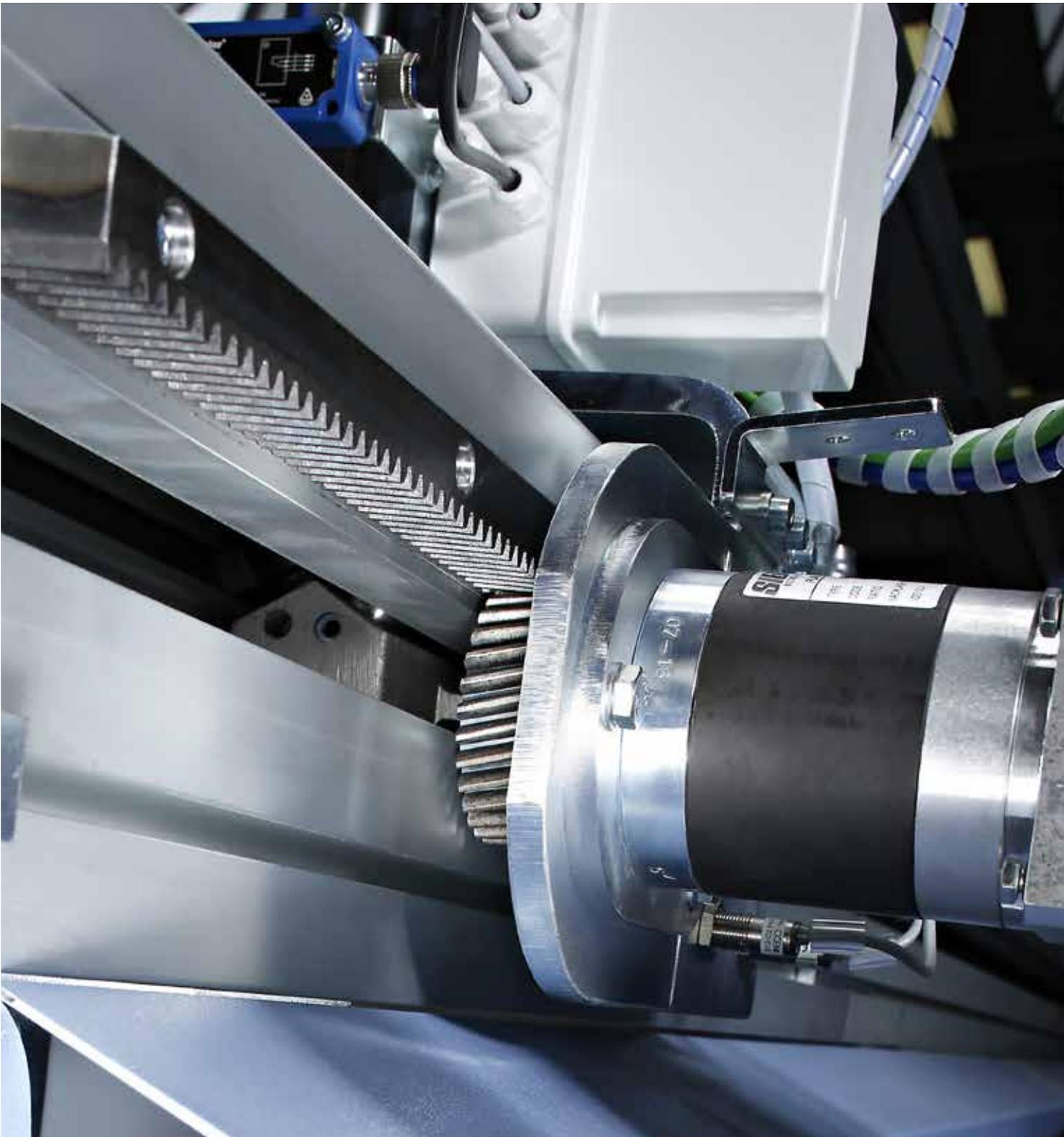
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MATRIX, A **STROMAB** PHILOSOPHY

Matrix is a cutting-off machine with electronic push feed system and controlled axis. The range has evolved with the arrival of new cutting-off units, and today we offer the TR450, TR500, TR600, TR500/F and FAST500. The wide choice of available versions, from 2000 mm to 14000 mm length, with left-hand and right-hand push feed system, and a wide range of accessories enables us to satisfy even the most demanding of clients.





PRECISION
CAN'T BE
AN OPINION

TR450 - TR500 - TR600

Detail of the pusher arm feeding system with rack and pinion and brushless motor for positioning without compromise.

TR450 and TR500 4-second cutting cycle

TR600 6-second cutting cycle.

3 versions for 3 integrated solutions BASE / OPTI / OPTI-PLUS

clear choices for complex solutions.



BASE

Cutting line for those working with uniform-length materials, with workpieces loaded individually or in bundles.

3 optimisation options (Maximum length, Sequence and Board sequence)



OPTI

Function enabling the automatic measurement of the workpiece being cut. Optimum solution for those working with variable-length materials, with workpieces loaded individually or in bundles.

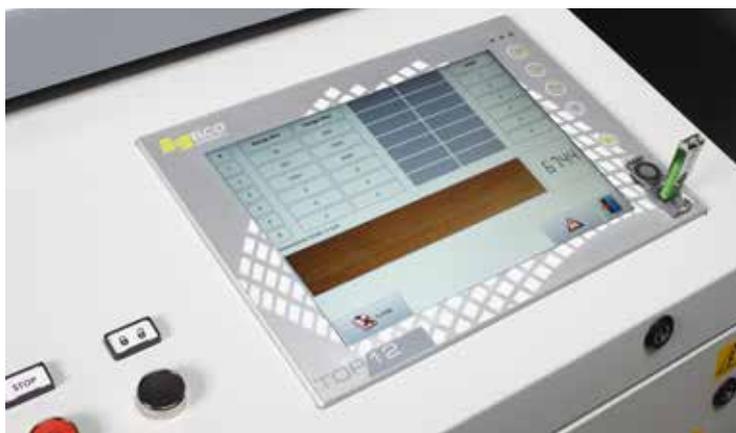
6 optimisation options (Maximum length, Sequence, Board sequence, Volume, Minimum waste and Priority)



OPTI PLUS

Mark detection function which guarantees **complete optimisation** and the elimination of knots and defects. Marking in fluorescent chalk. (should always be ordered in combination with the OPTI function)

High-resolution 12" touch screen controller with graphics interface. USB port and Ethernet port as standard.



Detail of the push feed system with automatic sensor to measure the workpiece being cut (OPTI function)



The latest addition to the cutting-off machine family was designed to reduce times and increase production. **The cutting cycle is 2 seconds.**



BASE

Cutting line for those working with uniform-length materials, with workpieces loaded individually or in bundles.

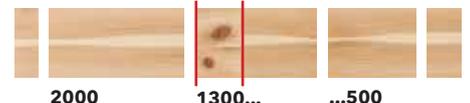
3 optimisation options (Maximum length, Sequence and Board sequence)



OPTI

Function enabling the automatic measurement of the workpiece being cut. Optimum solution for those working with variable-length materials, with workpieces loaded individually or in bundles.

6 optimisation options (Maximum length, Sequence, Board sequence, Volume, Minimum waste and Priority)



OPTI PLUS

Mark detection function which guarantees **complete optimisation** and the elimination of knots and defects. Marking in fluorescent chalk.

(should always be ordered in combination with the OPTI function)

Detail of the upper workpiece clamp.



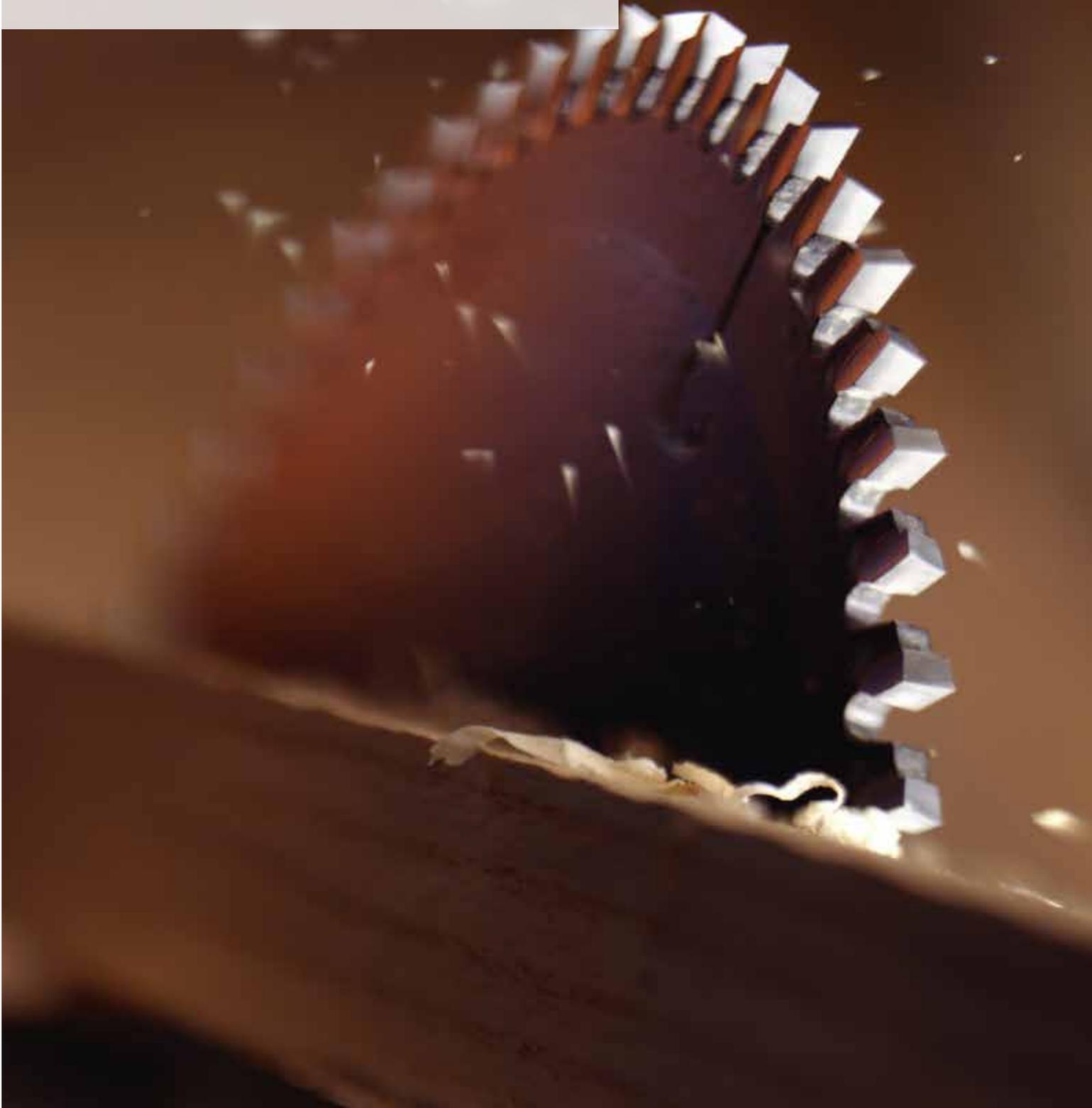
Detail of front clamps.





CUTTING+MILLING:
MULTIPLE OPTIONS
FOR **ANY**
REQUIREMENT

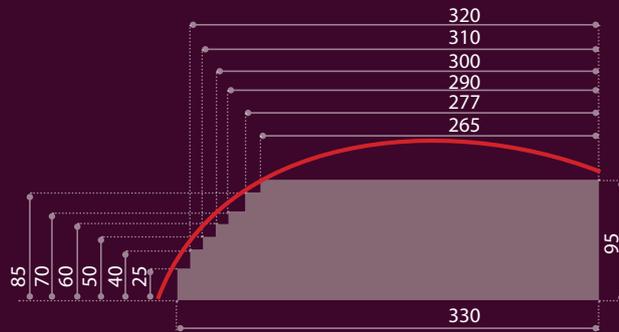
VARIOUS
CUTTING
SOLUTIONS



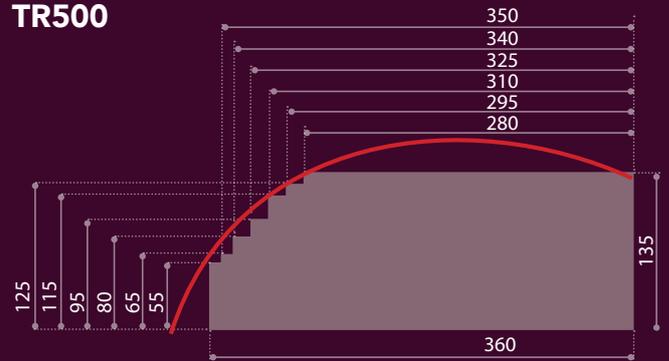
CUTTING DIAGRAMS

TR450-TR500-TR600

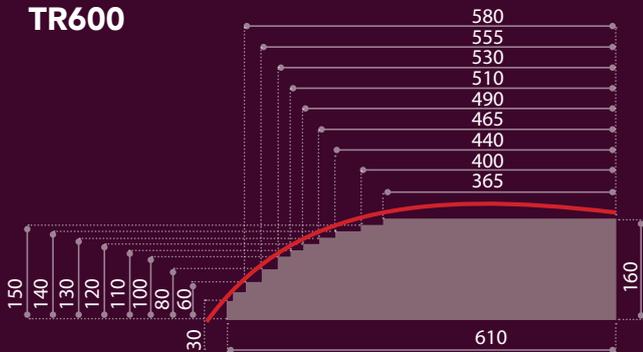
TR450



TR500



TR600



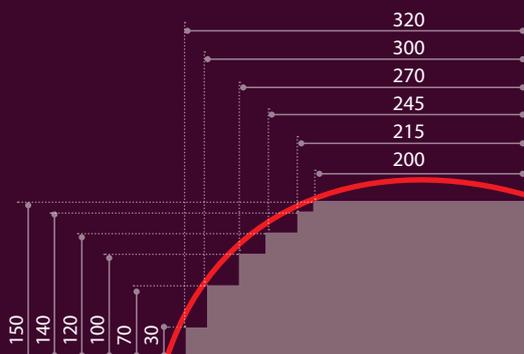
CUTTING DIAGRAMS

FAST500

Thanks to an innovative mechanical blade positioning system, we've introduced a new variable geometry cutting system, so that a single machine can meet requirements for both maximum height (POS. "A") and maximum width (POS. "B")

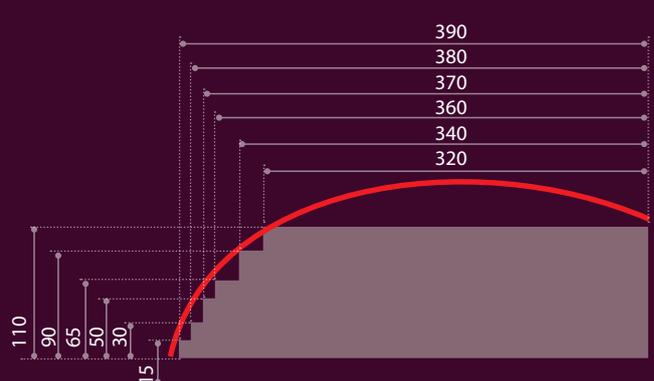
CUTTING CAPABILITY

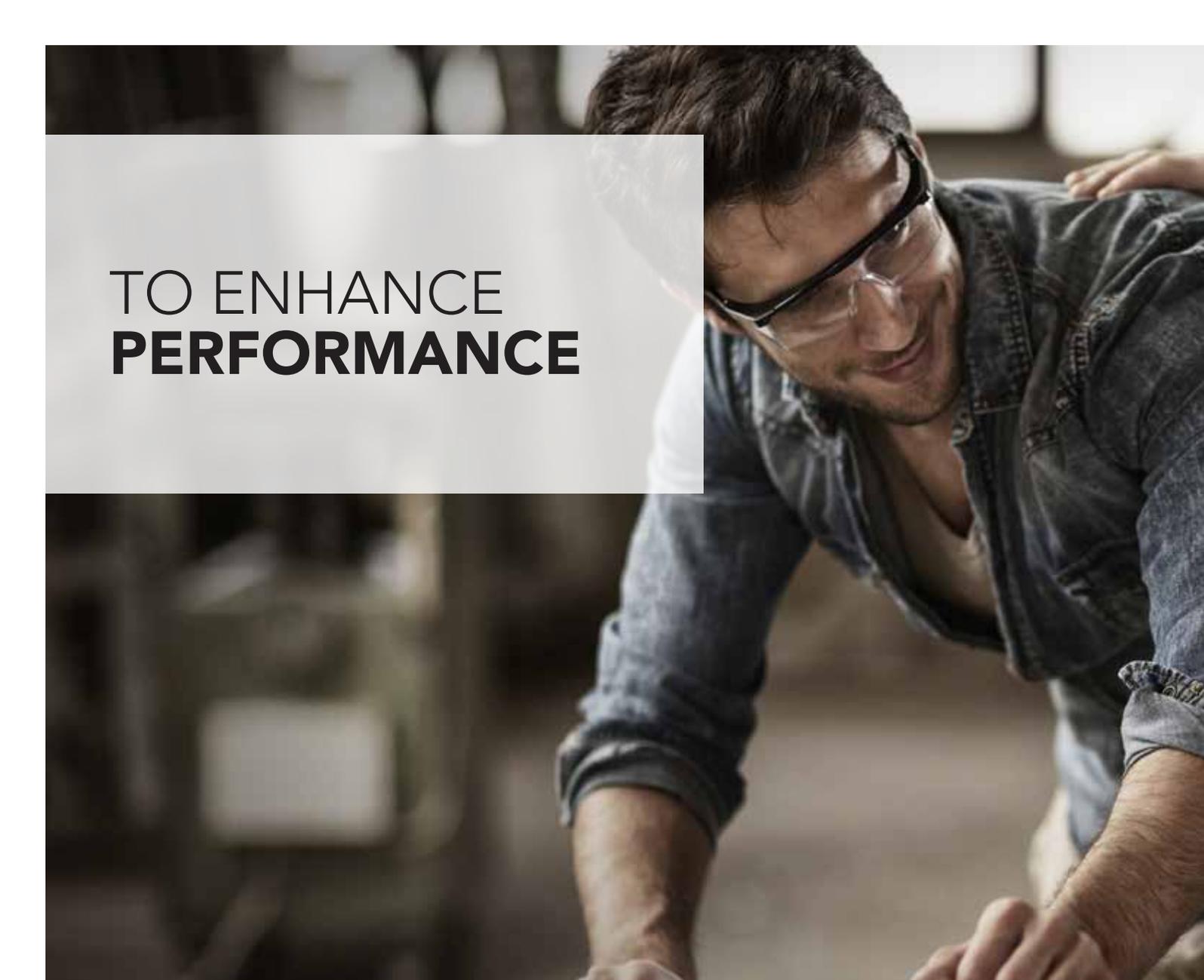
POS. A MAX. HEIGHT



CUTTING CAPABILITY

POS. B MAX. WIDTH

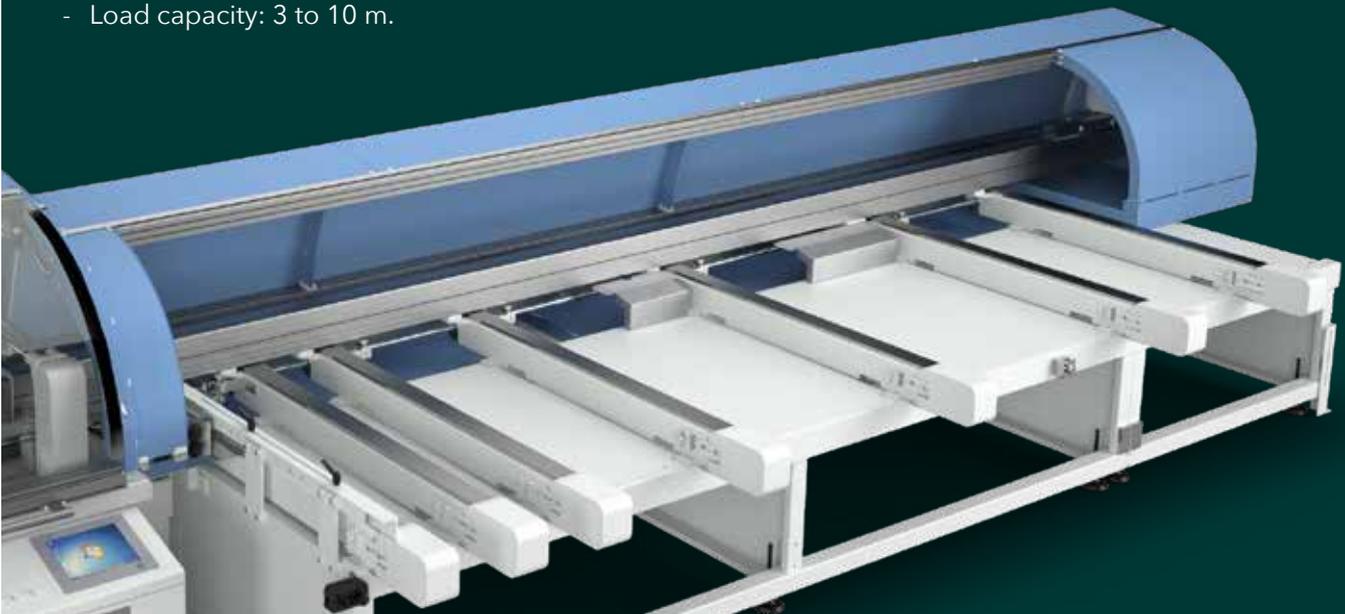




TO ENHANCE
PERFORMANCE

AUTOMATIC LOADER

- Automatic loader for individual workpieces or bundles of material
- Chain-type loading system
- Load capacity: 3 to 10 m.





ELECTRONIC SORTING CONVEYOR WITH BELT AND RAPID KNOCKOUT DEVICES

- Variable belt speed: 0-120 m./min.
- Size/knockout device match-up taken directly from cutting list
- Storage rack with idle rollers





THE **OPTIONS** THAT MAKE THE DIFFERENCE

Trap door for expelling trimmed material from headpiece and scraps from straight cut tailpiece (closed)



Trap door for expelling trimmed material from headpiece and scraps from straight cut tailpiece (open)



External vertical clamp





ACCESSORIES

Typical only of Italian industry, we've decided to meet the needs of our customers by introducing a wide range of accessories. Just to name a few:

- loading system located on both the left and right sides of the cutting unit
- push feed system length ranging from 2000 to 14000 mm.
- optimisation software with 6 programming options
- 3 label printers and 1 ink-jet printer
- Automatic loading systems
- Automatic unloading systems

Label printer



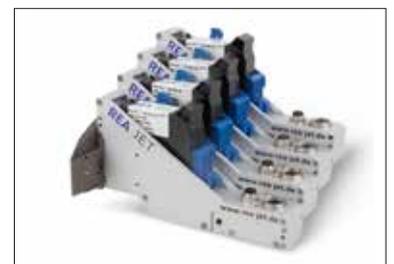
Internal side clamp



REA JET HR high-res ink-jet printer



4 vertical printing heads with print height of mm. 50.8



2 vertical printing heads with print height of mm. 25.4



A SINGLE MACHINE, A THOUSAND DIFFERENT USES

The MATRIX cutting-off lines are able to meet all the requirements of 90° cutting, popular with manufacturers of traditional packaging (pallets, crates, boxes), garden furniture, solid wood furniture and wooden doors and windows.



TECHNICAL CHARACTERISTICS		TR450	TR500	TR600	FAST500
Motor power	Hp.	5.5 (4 kW)	10 (7.5 kW)	12 (9.2 kW)	10 (7.5 kW)
Blade diameter	mm.	450	500	600	500
Intake vents	no.	2 Ø 100 mm.	4 Ø 100 mm.	4 Ø 100 mm.	2 Ø 120 mm.
Air flow rate	m ³ /h	1200	2400	2400	900
Air consumption per cycle	nl	6	4	no	34.8
Cutting system operation		pneumatic	pneumatic	hydraulic	pneumatic

MILLING UNIT		TR500/F
Milling cutter with 4 + 4 blades	mm.	Ø max 280
Milling cutter hole diameter	mm.	40
Milling stroke	mm.	400
Max. width of milling tool	mm.	100
Milling depth adjustment	mm.	0 ÷ 75
Standard motor power	Hp.	5.5 (4 kW)
Intake vents	no.	3 Ø 120 mm.

	BASE	OPTI	OPTI-PLUS
DATA ENTRY MANAGEMENT			
12" touch screen controller	•	•	•
Creation of cutting lists directly on the on-board controller	•	•	•
Transfer of cutting lists created by PC via USB or Ethernet port	•	•	•
Creation of cutting lists on PC (with optional ZS004)	•	•	•
Import of cutting lists to Excel (with optional ZS005)	•	•	•

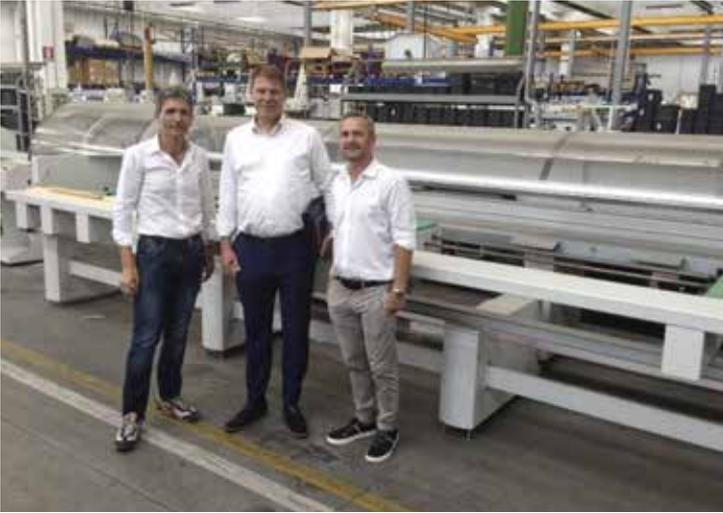
PROCESSING SOFTWARE			
A) Up to 1000 cutting lists made up of 10 sizes	•	•	•
B) One list of 10000 sizes in sequence	•	•	•
3 Optimisation options (Maximum length, Sequence and Board sequence)	•	•	•
3 Optimisation options (Volume, Minimum waste and Priority)		•	•

PUSHER TECHNICAL CHARACTERISTICS			
Working lengths from 2000mm to 14000mm	•	•	•
Feeder system with precision rack and brushless motor	•	•	•
Maximum push feed system speed 90 m/min	•	•	•
Positioning reading with brushless motor resolver	•	•	•
Positioning accuracy +/- 0.4 mm.	•	•	•
8° inclined work surface	•	•	•
Pneumatic lifting of the push feed system at the end of cycle and overhead return	•	•	•
Photocell reading of workpiece length		•	•
Defect detection photocell with fluorescent chalk marking			•
Management of 3 degrees of quality (Q1-Q2-Q3)			•

For 50 years, our family has been passionately building the machines which today help our many clients make their work more rewarding.



**SATISFIED
CUSTOMERS**





www.stromab.it

THE **VALUE** OF A FAMILY-OWNED COMPANY

Stromab has stood for reliability since 1965.

And we believe that this word best expresses the philosophy behind our products over our more than 40 years in business. The awareness that no investment can offer greater advantages than customer satisfaction leads us to constantly devote new resources for ongoing research into technology, development and human resources.

A constant growth trend is the natural result of a company policy based on the value of success in full compliance with environmental requirements. With a surface area of over 5000 m², 40 employees and a constantly updated line of products, Stromab has made a significant name for itself as one of the most dynamic companies in the woodworking machinery sector.

Technical data are not binding and may be altered during construction for improvements.



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STROMAB SPA

42012 CAMPAGNOLA EMILIA (RE) Italy
Via Zuccardi 28/a - Z.I. Ponte Vettigano
Tel. (0522) 1933300 - Fax (0522) 1933361
info@stromab.com - www.stromab.com