



More than a machine.

An advanced wide range for
sheet metal processing.

Partners
for **Life**





We
make
it **Work**



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KNOW-HOW

A path of **50 years** in the machines manufacture, press brakes and shears, ensures the necessary experience to offer the best solutions for the greatest challenges. High quality standards require a professional and specialized team.



PREDICTING FUTURE

Day-to-day operations are important, but long-term business strategy will determine the ongoing and further success. Building a reliable board of principles will help to **ensure that our vision for the future will be carried forward.**



RELIABILITY + DURABILITY

Our products are the result of a continuous focus on improving processes and supported by high quality levels, which result in recognition of RICO machines as state-of-the-art equipment.



SUSTAINABLE GROWTH

We value sustainability respecting people and the environment.

—50^{years} More then of *Know-How*

We believe in specialization because it gives us more advanced knowledge of technology and processes.

With a growing dynamic over time, the experience gained over the years is increasingly fundamental to mastering technology.



Specialization.

HGR

Competing for *Excellence*

With a unique operating principle, **HGR** shears are distinguished by their dynamic structural behavior and cutting quality.

The mechanical system offers a high quality cut without vibration, thus increasing the machine's useful life.

Cutting perfect



BEST CUT, BEST DURABILITY.

Vertical cutting is the most effective and accurate system compared to alternative ones. Here it is possible to vary the cutting angle depending on the type of material and thickness of the plate.

Details that makes the *difference*

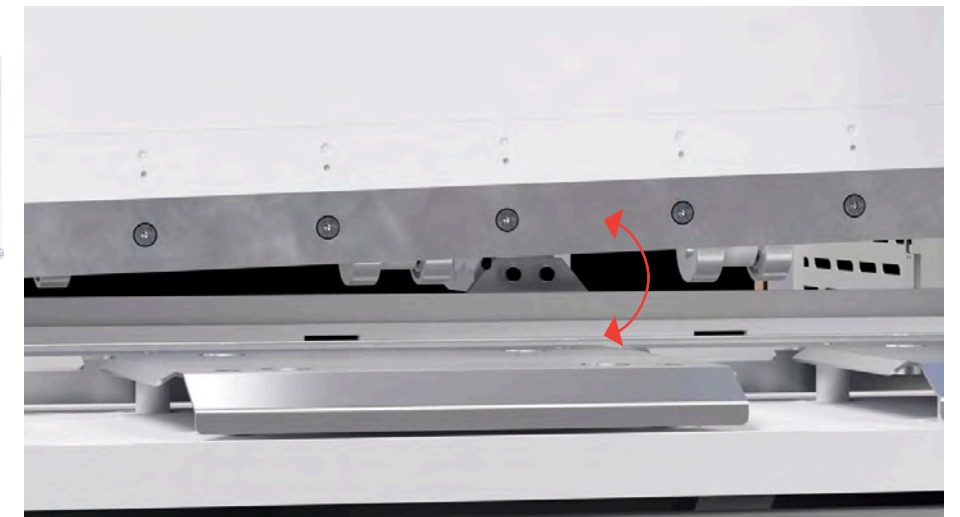
/ Vertical cut

This system guarantees the homogeneous distribution of force along the entire length, which results in a smooth and a vibration-free cut.



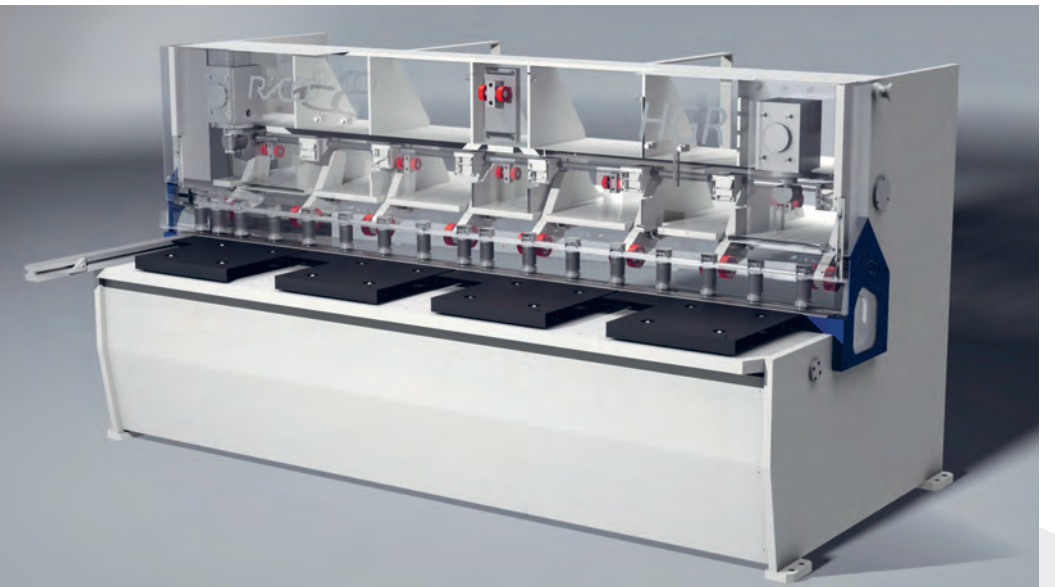
/ Variable rake angle

In order to minimize the “helix” effect of the sheet, the HGR shear allows to vary the angle depending on the thickness of the sheet. This rake variation is done automatically.



/ RAE System

While cutting, the back gauge automatically retracts to avoid collision with the plate.



VERSATILITY

With a cutting capacity of 4 mm to 40 mm thick. And from 1.2 m to 8 m in length, the HGR shear has a wide variety of solutions and automation.

Overcoming *all the* expectations



Strong & Reliable

HGR is the ideal solution to achieve demanding levels of productivity, precision and safety.

.01 HGR range

.HGR

	LENGTH (mm)						
CAPACITY	1250	1550	2050	2550	3050	4050	6050
4 mm	o	●	●		●	●	●
6 mm		o	●	●	●	●	●
8 mm			●	●	●	●	●
10 mm			●	●	●	●	●
13 mm			●	●	●	●	●
16 mm			o		●	●	o
20 mm					●	●	
25 mm					●	o	
30 mm					●		
35 mm					●		
40 mm					●		

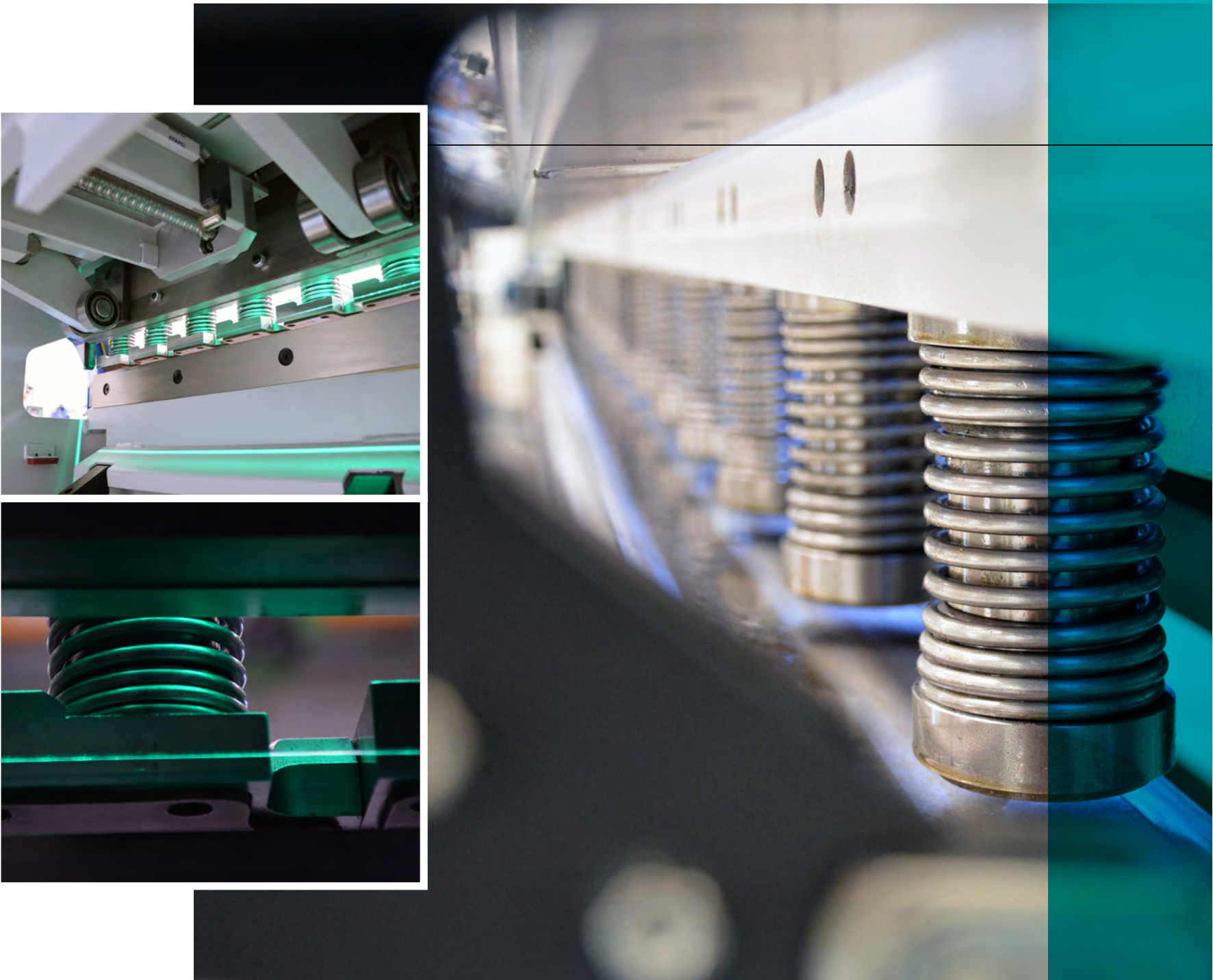
● Standard ○ Under request



.02 Equipment

. Standard equipment

Type	
Control	Elgo P40
Systems	Vertical cut
	Automatic variable rake angle
	Automatic cutting lenght
	RAE - Automatic retraction
Frontal supports	Standby function
	1000 mm squaring arm
Frontal safety	1000 mm single support
	Mechanical finger protection
Rear safety	Safety barriers (type IV)
Back gauge	BGS
Others	Hanging swivel control panel
	Cutting lighting shadow line
	LED table lighting
	Hold down jacks performing progressive load with Fibroflex
	2 operating modes: continuous or cycle-by-cycle cut
	Independent hold down jacks (pre-selected)
	Frontal table with ball joints
	Hours counter

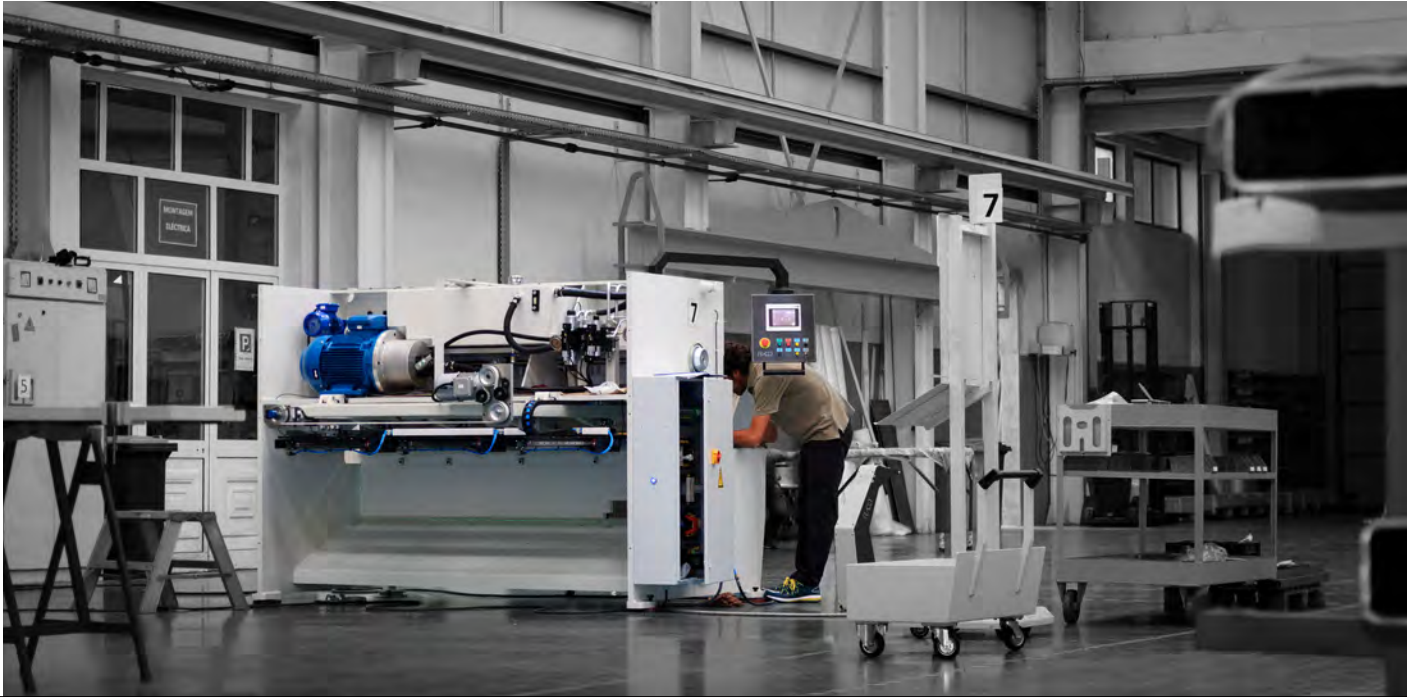


. Controls



Models	P 40 ^S	P 40T	DAC-360T	CybTouch 8G
Memory capacity (lines)	1000	1000	2500	4800
Screen	2.7" LCD	5.7" TFT	7" TFT	7" CRT
Touch screen	-	●	●	●
Materials list	3	3	6	10
Cuts counter	Ascending	Ascending/ descendant	Programmable	Programmable
Programming of:				
- Retraction	-	-	●	●
- Pressure	-	●	●	●
- Length	●	●	●	●
Control of:				
- Pneumatic sheet support	-	●	●	●
- Angle	●	●	●	●
- Blade gap	○	○	●	●
Offline software	-	-	DAC-360T	-

● Standard ○ Under request

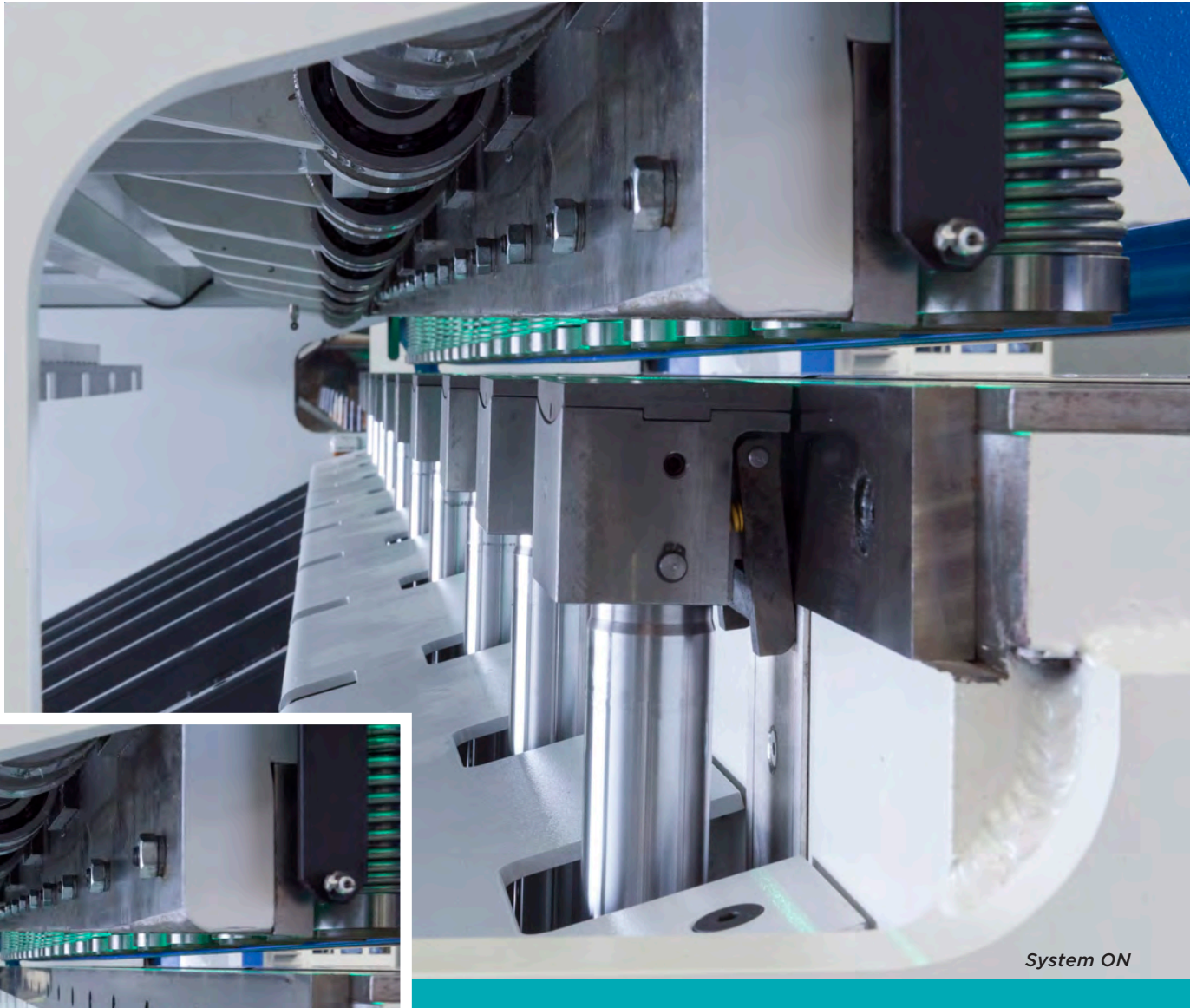


Front Feeder HGR

Automation.

HGR Front Feeder the ideal solution to reach demanding productivity and cadence levels.

It includes automatic positioning grippers that allow to perform varied cuts from entire plates, in a continuous way.



Anti-Twist

Flat cutting.

The Anti Twist is a hydraulic system, with cylinders installed in the lower area of the shear, which exerts force against the sheet to be cut, keeping it straight during the cutting process.

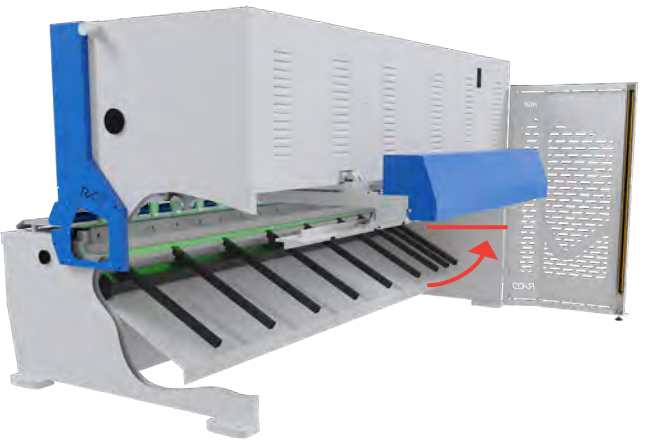
Cylinders are installed along the entire length of the machine. The system is activated on the control panel in an automatic way. The movement is synchronized with the blade holder and the force is distributed progressively.

Technical data	
Cylinders distance	Aprox. 400 mm
Machine capacity reduction with ANTI TWIST	Aprox. 30%
Minimum cutting width	20 mm

. Rear sheet support & extraction systems

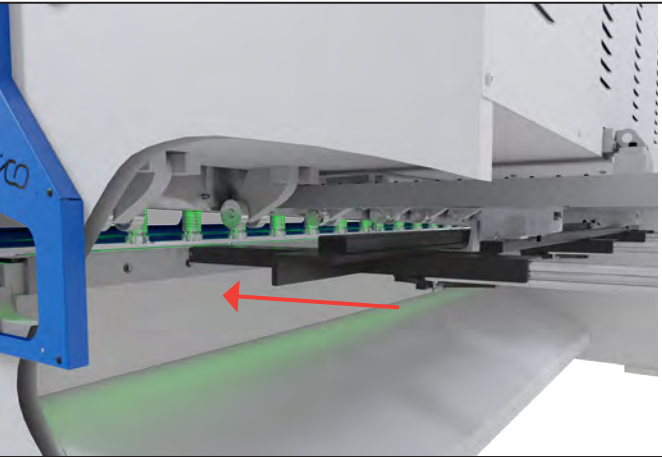
MAC 1

- . Pneumatic sheet support with automatic drive;
- . Adjustable speed;
- . Tilting movement from the sheet extraction ramp.



MAC 2

- . Pneumatic sheet support with automatic drive;
- . Adjustable speed;
- . Multiple cylinders installed in the back gauge;
- . Linear movement parallel to the sheet to be cut.



SFE

- . Front sheet extraction system up to 450 mm length;
- . Includes 1 extraction drawer.



FSE system is only available with MAC2 or without pneumatic support.

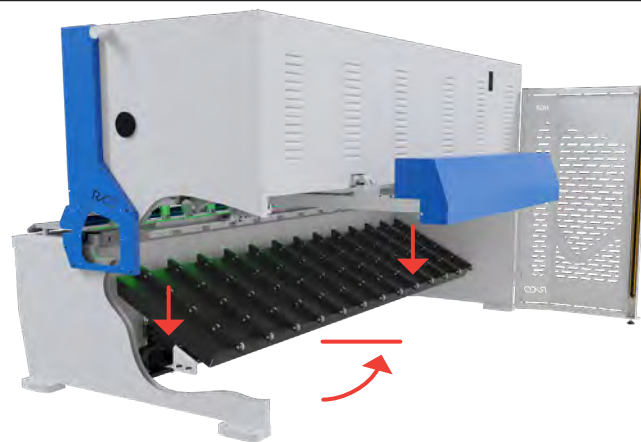
MAC 3

- . Pneumatic sheet support with automatic drive;
- . Adjustable speed;
- . Linear movement vertical and perpendicular to the sheet to be cut;
- . Conveyor sheet extraction with belts;
- . 3 operating modes;
- . Sheet scrap box.



MAC X

- . Servo-pneumatic sheet support with automatic drive;
- . Adjustable speed;
- . Double movement: vertical and tilting;
- . Ensures full support of the sheet during cutting.



RTS - Return to Sender

RTS System - Return to Sender allows you to send the cut sheet directly to the operator via the entry zone.

- . Motorized auto accompaniment;
- . Controlled by CNC.



Back gauges

BGS^S

- . AC motor
- . Ball screws
- . Belt transmission
- . Speed: 70 mm/s
- . Accuracy: $\pm 0,10$ mm

BGA

- . Brushless servo motor
- . Ball screws
- . Belt transmission
- . Speed: 250mm/s
- . Accuracy: ± 0.05 mm



. Frontal Safety

Tilting finger protection



Photoelectric barriers



. Other opcionals

Laser cutting line



Frontal sheet extraction ramp





THICK METAL CUTTING



Competing
for **Heavy Dutty**