







The best cut with the best performance and durability.

Vertical cut is the most effective and accurate system compared to alternative systems in guillotine cutting. With this system it is possible to vary the cutting angle depending on the type of material and thickness of the sheet.



RICO



HGR THE EXCELLENCE

HGR shears have a unique cutting system that offers a vibration-free cut, greatly reducing cutting noise and increasing cutting quality.

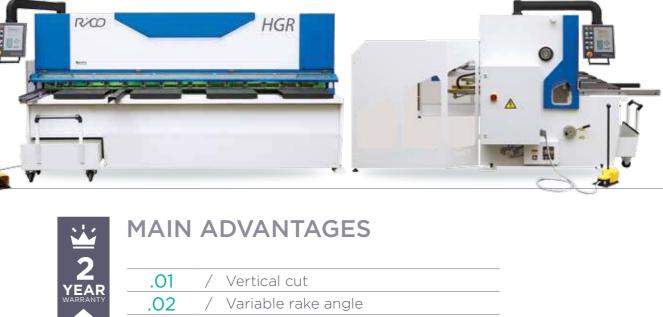
HGR

	RXCO HGR

TABLE OF CONTENTS

		PAGE
.01	Top features	4
.02	HGR Range	7
.03	Equipment	10
.04	RICO Green	16
.05	RICO Product range	18
.06	Technical specifications	20





	.01	/ Vertical cut
ANTY	.02	/ Variable rake angle
	.03	/ Unique structure
	.04	/ Customizable
	.05	/ Low vibration
	.06	/ 2 years warranty

TOP FEATURES





HGR RANGE

LENGTH (mm) CAPACITY	1050	1550	2050	2550	3050	4050	6050
4 mm	0	0	•	•	•	•	•
6 mm		0	•	•	•	•	•
8 mm			•	•	•	•	•
10 mm			•	•	•	•	•
13 mm			•	•	•	•	•
16 mm			0		•	•	0
20 mm					•	•	0
25 mm					•	0	
30 mm					0		

• Available • O Under Request

AFTER SALES SERVICE

RICO enriches its service by means of failure as well as training or The competence and experience acquired as manufacturer are key factors for the solutions provided and results achieved.

Being **RICO**'s customer is to have a service of excellence on previous and after-sale counseling and support. We believe that technical assistance is vital to the best equipment performance and, as such, we decided to provide free lifelong training to all our customers since 2007.

We guarantee immediate intervention for all emergencies, both regarding mechanical

quality and proximity to the customer. clarification of doubts. We employ highly skilled and experienced technicians to provide customers with the best advice, searching for the best metal plate cutting and shaping solutions.

> We provide our customers with qualified technical service, always working with the following goals:

PROBLEMS SOLUTION AT THE FIRST CONTACT; - QUICK ANSWER;

- ASSURED QUALITY.

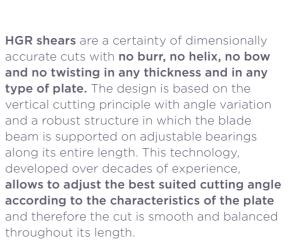
HGR A UNIQUE SYSTEM

The movement of the blade holder on bearings provides constant and permanent support without regular lubrication. All support points are adjustable to ensure a perfect cut.

BEST SUITED CUTTING

Vertical cut machines consist in a system which the blade holder is supported on bearing along its entire length.

This system enables the user to change the corresponding angle as a function of plate thickness, performance unavailable when using swing beam cut machines provided with fixed angle.



EQUIPMENT

The right machine configura-tion is essential to achieve maximum efficiency taking into account the type of intended use.

CHOOSING IS IMPORTANT

The purpose of each option is to **get the return that** is higher than its cost. For this, it's important to evaluate the return that will be obtained taking into account the work that is intended to accomplish in the future.

Detailed confi-	TYPE							
guration are	Control	Elgo P40		11				
-		Elgo P40T	0	11				
always based		Delem DAC-360	0	11				
on customer		Cybelec CybTouch 6G	0	11				
	Systems	Vertical cut		4				
requirements		Automatic variable rake angle		5				
		Automatic cutting length		5				
		RAE - automatic retraction		5				
		Standby function		5				
	Front supports	1000 mm squaring arm		-				
		1000 mm single support		-				
		Front gauges FG1/FG2	0	-				
		Single square support	0	-				
		Support with 2 guides and scale	0	-				
		Support with 1 guide and tranfer balls	0	-				
	Rear supports	MAC1						
		MAC2	0	12				
		MAC3	0	13				
		MACX	0	13				
	Front safety	Mechanical finger protection		-				
		Tilting finger protection	0	14				
		Safety barriers (Level IV)	0	-				
	Rear safety	Safety barriers (Level IV)		-				
	Back gauge	BGA		-				
		BGA-S servo-motorized	0	14				
	Others	Hanging swivel control panel		-				
		Cutting lighting shadow line		-				
		LED table lighting		-				
	F	Hold down jacks performig progressive load with Fibroflex tip		-				
		2 operating modes: Continuous or cycle-by-cycle cut		-				
		Independent ramming (pre-selected)		-				
		Front table with ball joints		-				
		Hour counter		-				
		Front table in stainless steel	0	-				
		Laser cutting line	0	14				
		FSE - Front extraction	0	12				
		RTS - Return to sender	-	13				
		Angle measurer	0	-				
	• Standard • C		~					

• Standard • Optional



CYBELEC

DELEM

. CONTROLS

	E	LGO
	P 40 ⁹	P40
Program capacity	500 lines Example: 20 programs with 25 lines	1000 lines Example: 50 with 20 lines
Lines per program	-	-
Screen	LCD 120x80 px	5.7"
Touch Screen	-	•
List of materials	•	•
Cut counter	•	•
Programmable		
Retraction	•	
Pressure	-	C
Length	•	
Control of		
Pneumatic table	-	
Angle	•	•
Blade gap	0	C



. REAR SHEET SUPPORT TABLE AND EXTRACTION SYSTEMS

The **rear sheet support is fundamental** particularly **in thin material**.

The system ensures that the plate is aligned with the back gauge without changing the measurement. Sheet extraction systems can be added depending on the sheet support selected.



- **ר** ג
- lt



Pneumatic sheet support with automatic programmed speed; Swing movement from the plate extraction ramp.

MAC2



Pneumatic sheet support with automatic programmed speed;

. Several cylinders installed in back gauge; . Linear movement parallel to the sheet to be cut.

FSE



Front sheet extraction system up to 450 mm in length;
Includes one extraction drawer.

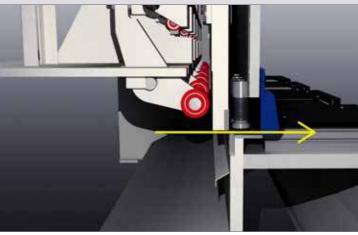
FSE system is only available with MAC2 or without pneumatic support.



MACX



RTS - Return to sender



HGR structure is designed to ensure the best balance and less deformation during cutting.

It is a single unit welded construction and reinforced sheet-quality and certified, properly dimensioned.

- Pneumatic sheet support with automatic programmed speed;
- . Vertical linear movement, perpendicular to the sheet to be cut;
- . Sheet extraction table with conveyor belts with 3 operating modes;
- Sheet separation system.

- . Pneumatic sheet support with automatic programmed speed;
- . Dual vertical and swing movement;
- . Guarantees the full support of the sheet during the cutting process.



The RTS system (return to sender) allows to send the cut sheet back to the operator via the entry area. *This system is only available with MACX support.*

. BACK GAUGES

BGS ^S

AC motor Ball screws Belt transmission Speed: 70 mm/s Accuracy: ± 0,10 mm Brushless servo motor Ball screws Belt transmission Speed: 250 mm/s Accuracy: ± 0,05 mm

BGA



TABLE SETTING

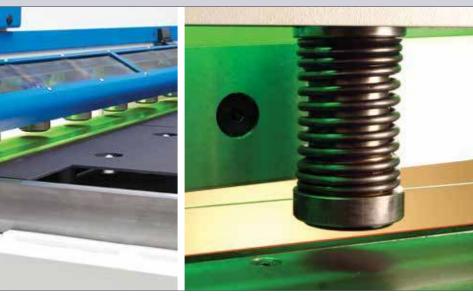
The front table can be equipped with several supports with different configurations:

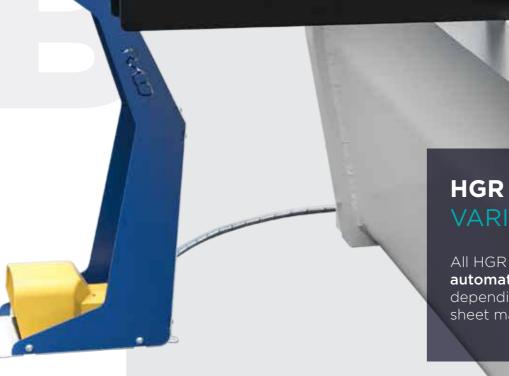
- SQUARE SUPPORTS;
- FRONT GAUGES;
- TABLE IN STAINLESS STEEL;
- TABLE COVER IN SUSTAMID.

. OTHER OPTIONAL PARTS

TILTING FINGER PROTECTION

LASER CUTTING LINE





R'CO°

HGR VARIABLE RAKE ANGLE

Randoy

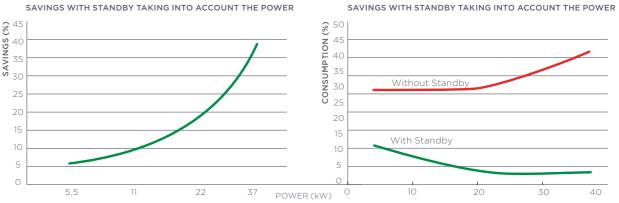
All HGR shears have variable rake angle automatically adjusted by the control depending on the thickness and type of sheet material.

RICO GREEN

RICO promotes a friendly environmental policy, and, as such, all our equipment features the Standby Function. This function leads to the automatically stop of the power after 5 consecutive minutes of inactivity.

Standby Function ensures an effective economy of energy on an automatic basis.







75% IDLE SAVING

20%



киом-ном

Nearly 50 years of expertise in the manufacture of press brakes and guillotines machines give us the security that is needed for future challenges.

TRUST + RELIABILITY

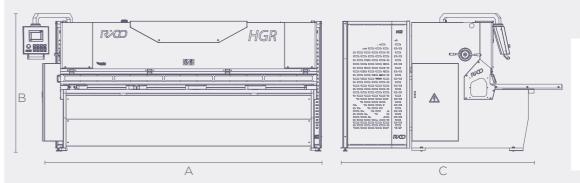
High standards of quality and a team with the best training and knowledge are a major condition for our success. Our products are the result of a continued focus on improving internal processes underpinned by high quality levels, that result in the recognition of RICO's machines as quality garantee equipment.

SUSTAINABLE GROWTH

The purpose of RICO strategy is sustainable growth that can ensure a constant investment in innovation, which results in added value for the customer, to create good conditions for its employees and respects the environment.

TECHNICAL SPECIFICATIONS

	Length	Election (45 Kgs/ mm2)	Stainless steel (70 Kgs/mm2)	Rake Angle	< a)Bud	Angle <	Hold Down Jacks	Back Gauge Stroke	Throat Depth	Motor Power	Oil Capacity	Total Length (A)	Total Height (B)	Width (C)	Heigth Under the Floor	Aprox. weight							
	Ľ	Thick	kness			Min	Ĭ	ä	Ē		0		Ā										
	mm	m	m	0	qt	qt	qt	mm	mm	kW	Lts		mr			Kg							
HGR 204	2050	-			22	33	12	-				2600	1720	2330	0	3750							
HGR 2504	2550	-			17	27	14	-	135	5,5	55	3100	1720	2330	0	4600							
HGR 304	3050	4	2,5	1,5/0,7	16	27	17	1000				3600	1720	2400	0	5200							
HGR 404	4050	-			11	18	22		155	7,5	110	4600	1790	2550	0	7350							
HGR 604	6050				10	16	31		264	11	150	6600	2220	2630	0	17300							
HGR 206	2050	_			29	40	12				100	2600	1800	2500	0	4500							
HGR 2506	2550				17	25	14		155		110	3100	1800	2500	0	5140							
HGR 306	3050	6	6	4	1,5/0,7	17	25	17	1000	155	11		3600	1800	2500	0	6000						
HGR 406	4050				12	18	22	-			145	4600	1950	2710	0	9640							
HGR 606	6050				9	14	31		272		150	6600	2220	2630	0	23000							
HGR 208	2050			2/0,7	14	21	12	1000		5 11		2620	1950	2610	0	5750							
HGR 2508	2550				13	20	14		205		130	3120	1950	2600	0	6500							
HGR 308	3050	8	5		10	16	17		203	11		3610	1950	2620	0	7760							
HGR 408	4050				7	12	22				150	4610	2010	2710	0	12300							
HGR 608	6050				6	12	31		265	15	190	6610	2480	2680	0	28700							
HGR 210	2050				16	24	12	1000				2620	1950	2610	0	6300							
HGR 2510	2550		7		15	23	14		205	5 15	130 15	3120	1950	2620	0	7050							
HGR 310	3050	10		2/1	12	19	17					3610	1950	2620	0	8700							
HGR 410	4050				8	13	22		210		205	4610	2250	2520	0	13500							
HGR 610	6050					4	7	31	-	277		190	6620	2810	3060	0	33800						
HGR 213	2050				14	20	12					2630	2200	2500	0	8300							
HGR 2513	2550					13	19	14	1000	010		010	3130	2200	2500	0	9720						
HGR 313	3050	13	8	2/1	10	15	17	1000	210	18,5	210	3620	2200	2500	0	11150							
HGR 413	4050				8	13	22					4660	2250	2580	0	14500							
HGR 613	6050				4	7	31	1200	277		235	6780	3000	3370	910	49500							
HGR 316	3050			7 /2 -	7	14	17	1000 1200	0.0.7		0.0	3720	2300	2550	0	12360							
HGR 416	4050	16	12	3/1,5	4	8	22		220	22	225	4700	2630	2800	0	19000							
HGR 320	3050		14	14	14	- (6	9	17					3850	2660	2880	0	19200					
HGR 420	4050	20				14	14	14	14	14	14	14	14	3/1,5	4	7	22	1200	215	15 37	37 430	4760	2530
HGR 325	3050	25	17	3/1,5	5	7	17	1200	215	37	430	3870	2660	2890	0	21500							





R²**CO**°



ALL DIMENSIONS CAN BE DIFFERENT ON CUSTOMIZED MACHINES.

THE DIMENSIONS FOR TRANSPORT CAN BE DIFFERENT.

AGENT



MACHINERY SOURCE metalworking technology sales

Fax: 0113 2363339

view our website www.jps-machinery.co.u



JPS Machinery Ltd William Street, Stanningley, Pudsey, Leeds LS286JS Sheetmetal-Fabrication-Machine Tools

email: sales@jps-machinery.co.uk Tel: 0113 2363366



TOMÁS CASTRO SILVA, LDA. GONDOMAR | PORTUGAL

Rua de Cerquido - Zebreiros T | +351 224 540 370 4515-118 | Foz do Sousa Portugal

RICO.PT F | +351 224 541 424 E | geral@rico.pt

