





PRCN ONE STEP BEYOND

Using all **RICO**'s knowledge and technology, **PRCN** models combine quality, performance and accuracy for those company's that wants to embrace future sustainable development.

PRCN is a range of high performance press brakes for all types of production and highest levels for accuracy and productivity.

It's versatility for multiple configuration and customization, shows that **PRCN** can be used in any company and in any kind of work, from bending of the simplest parts, up to complex mass production parts with tight tolerances. It's the ideal solution to achieve higher levels of competitiveness, precision and safety.









| 300

C-LINE

500

400

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	MAIN	A	DVANTA
	.01	/	Very high pr
WARRANTY	.02	/	Exclusive str
	.03	/	Extremely q
	.04	/	Customizab
	.05	/	Excellent dir
	.06	/	2 years warr



AGES

- recision and repeatability
- ructural concept
- quick cycle time
- ole
- imensional characteristics
- ranty

TOP FEATURES



/ H-BOX FRAME

RICO's policy is based on an accurate selection of its components in accordance with the huge experience acquired over the years.

All the machine components are **certified** in accordance with european standards.

GUARANTEE OF PRECISION

. Placing the cylinders closer fixed to an upper H shaped monoblock frame, it will be ensured 60% less structural deformation, providing greater uniformity in the distribution strain, when loaded;

PRCN performs better when used in decentralised or multi-station bending operations.



/ TRIPLE GUIDE

DYNAMIC STABILITY

- The upper ram guiding system operates by means of a triple guide system (one central and two on the sides);
- Reduces the deformation of the ram in the transversal direction during the bending operation.

/ SWAYBEND

ADDITIONAL VERSATILITY

The upper ram, in contact with the cylinder rods by means of special rotary joints, in addition to a triple guide system, ensure exceptional levels of inclination;

Conical bending, usually presenting significant different angles between tips are now perfectly makeable;



B) 2002.5mm- Distance between cylinders on different positions.



/ STANDBY FUNCTION

ENERGY EFFICIENCY

This function leads to the automatically stop of the power after 5 consecutive minutes of inactivity.



PRCN RANGE

CAPACITY	2100	2600	3100	3600	4100	
70 TON	F					
100 TON				F		
135 TON						
160 TON						
200 TON						
250 TON			٠	٠	٠	
300 TON			٠	٠	•	
400 TON				٠	•	
450 TON				٠	•	
500 TON				٠	٠	
 I-Line C-Line NOTES: - All models allow its integration in robotic cells. - All models may be used in Tandem or Tridem system. - All customized models are C-Line design. 						

AFTER SALES SERVICE

of doubts. We employ highly skilled and experienced technicians to provide customer's with the best advice, searching for the best metal plate cutting and shaping solutions. We provide our customer's with qualified technical service, always working with the following goals: PROBLEMS SOLUTION AT THE FIRST CONTACT; QUICK ANSWER; - ASSURED QUALITY.

RICO enriches its service by means of all emergencies, both regarding mechanical quality and proximity to the customer. failure as well as training or clarification 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 customer's since 2007. We guarantee immediate intervention for

PRCN FULLY CONFIGURABLE

PRCN range is fully configurable following the customer's need. The standard range features models with capacities varying from 70 to 500 ton. Furthermore, **RICO** is capable of building machinery with different configurations upon customers' request.

MOST COMMON CUSTOMIZATION STROKE, DAYLIGHT, THROAT DEPTH, SIDE FRAMES DISTANCE.



EQUIPMENT

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

STANDARD ^S

We make proposals with **detailed** configuration and based on **customer** requirements

TYPE	ITEM	I-LINE	C -LINE	PAGE
Special systems	H-Box frame	٠	٠	4
	Swaybend system	•	•	5
	Triple-guide	•	•	5
	Standby function	•	•	5
Control panel	Delem DA-66T control	•	٠	10
Automatic axes	4 automatic axes: Y1+Y2+X+R	•	•	11
Back gauge	BGR back gauge	•	-	11
	BGRH back gauge	-	•	
Front safety	LASER AKAS II-F	•	•	10
Rear safety	Safety barriers (Level IV)	•	•	-
Supports	SFS front support	•	•	12
Top clamping	Manual clamping	•	•	14
Bottom clamping	Manual clamping	•	•	14
Offline software	Profile TL	•	•	17
Others	Hanging swivel in control panel	-	•	-
	Mobile vehicle in control panel	•	0	-
	Machine LED status	•	•	8
	Hex key set	•	•	-
Design	Design I-line	•	-	-
	Design C-line	0	•	-

• Standard **O** Optional

S Machine LED status





OPTIONAL

TYPE		ITEM						PAGE
Control panel		DELEM		CYBELEC				
		DA-69T		Modeva 19T			10	
			Modeva RA Premium				10	
Automatic axes		Z1+Z2		Х5				11
Back gauge		BGT with 6	automatic	axes				11
Safety lasers		AKAS II-M		AKA	S 3P		Iris	10
Angle measurers		React		Iris P	lus		eyeV	15
Front supports		SFA		SFH				12
Rear supports		SPA						13
Follower supports		ACFA		ACF1 ACF2		ACF2	13	
Top clamping		MANUAL		PNEUMATIC			HYDRAULIC	
		Speed Grip M		Speed Grip P				
		FR-M		FR-P)			14
		Wila M		Wila	PN		Wila HYD	
Bottom clamping		CROV	VNING			CLAMPING		
		CNC	MANUAL	MA	ANUAL	PNEUMATIC	HYDRAULIC	
	RICO	0	0	R	DL2 M	ROL2 PN	ROL2 HYD	14
	WILA	0	0		0	0	0	14
LED tool locator		RICO LedB	Bar	Wila Smart Tool Locator				15
Tool identification		WILA TIPS				15		
Tool cabinet		ARM1 ARM2 ARM1A		ARM1A	17			
Offline software		Delem Prot	file T2D	Delei	m Profile	T3D	RICOBend	17
Others		S-Boost						16

EQUIPMENT

. CONTROLS

	DEL	EM	CYBELEC		
	DA-66T ^S	DA-69T	ModEva 19T	ModEva RA PREMIUM	
Axes	8	8	8	8	
Screen	17"	17"	19"	15"	
2D graphic view	•	•	•	٠	
3D graphic view	•	•	-	۲	
3D programming	-	•	-	٠	
Auto tooling selection	•	•	-	•	
Touch screen	•	•	•	•	
USB ports	2	2	1	1	
2D DXF import	0	•	-	۲	
3D IGES/STEP offline import	-	•	-	•	
3D offline import	0	•	-	•	
Export DXF 2D FP	-	-	•	•	
Offline software	Profile TL	Profile T3D	PC-Modeva	PC RA Premium	

• Standard **O** Optional

. SAFETY LASERS



. BACK GAUGES

BGR ^S	χS	RS	Z1
Stroke (mm)	750 (1120)	200 / 250*	UNDER REQUEST
Speed (mm/s)	500	170	2000
Precision (mm)	± 0,02	± 0,10	± 0,10
Type of motor	BRUSHLESS	BRUSHLESS	BRUSHLES
Mechanical system	BALL SCREW	RACK	RACK

* For machines with more than 200 Ton.



BGT	X1	X2	R1	R2	Z1	Z2
Stroke (mm)	800	800	200	200	UNDER REQUEST	UNDER REQUEST
Speed (mm/s)	600	600	200	200	550	550
Precision (mm)	± 0,05	± 0,05	± 0,05	± 0,05	± 0,10	± 0,10
Type of motor	BRUSHLESS	BRUSHLESS	BRUSHLESS	BRUSHLESS	BRUSHLESS	BRUSHLESS
Mechanical system	RACK	RACK	RACK	RACK	RACK	RACK





PRCN

Z2 X5 UNDER REQUEST 200 2000 300 ± 0,10 ± 0,02 S BRUSHLESS BRUSHLESS RACK BALL SCREW

RICO

. SUPPORTS

Sheet supports are auxiliary bending accessories. They must be chosen according to the dimensions and weight of the pieces.

Front supports: Support the plate during the front feed;Back supports: Support the plate in the approach to the back gauge;Follower supports: Support the movement of the plate during the bending.



FRONTAL SUPPORTS



- . Supported on any position of the clamps; . Manual height regulation; . Device for approaching to the die;
- . Load capacity:
 - < 200 Ton: 75 kg per support

Supported on sliding guides;

Device for approaching to the die;

- < 200 Ton: 100 kg per support

- ≥ 200 Ton: 150 kg per support.

Manual height regulation;

Adjustable plate stop;

Removable supports;

Millimetric scale;

. Load capacity:

Can be placed at any point along the length;

Ball transfer units to facilitate handling parts;

- ≥ 200 Ton: 150 kg per support.

REAR SUPPORTS



FOLLOWER SUPPORTS



ACF1 / ACF2







SFH



- . Supported on sliding guides;
- . Continuous manual height regulation;
- . Millimetric scale;
- . Ball transfer units to facilitate handling parts;
- . Adjustable plate stop;
- . Load capacity 2000 kg per support.

SPA supports are installed in the fingers of the back gauge. They can be activated in predefined bending and enable the plate to slide until it lies adjacent to the back gauge.

Load capacity - 30 kg/support.

- . Automatic bending follower supports;
- . Controlled by CNC;
- . Recommended for heavy parts or large thin plate;
- . Supported on longitudinal sliding rails;
- . X and Y position adjustment;
- . Load capacity 180 kg per support.
- . Automatic bending follower supports;
- . Controlled by CNC;
- . Recommended for heavy parts or large thin plate;
- . Supported on longitudinal sliding rails;
- . X and Y position adjustment;
- . Load capacity:
 - ACF1: 160 kg per support
 - ACF2: 400 kg per support.

. QUICK CLAMPING

When there are frequent tooling changes, punches or dies can be changed over in a short time by using the quick clamps. The time saved will be higher as more often will be necessary to change tools.

In all top clamping the punches can be removed directly from the front, so it is not necessary to slide it on one side. This operation compared to conventional **allows a** reduction of times greater than 8x.



* Under request.

R'CO°

. LED TOOL LOCATOR

LedBar is a bending aid that helps the operator to position the tools and parts during the bending process.

RICO LedBar



. WILA TOOL IDENTIFICATION AND POSITIONING SYSTEM (TIPS)

The WILA TIPS system is an integrated part of the press brake control system that helps to identify tools and to continuously read their position. The tools are localized and identified irrespective of whether they are located in the upper clamping, lower clamping or storage system.

. ANGLE MEASURERS





WILA Smart Tool Locator

. CROWING TABLE

This system **enables the user to offset deformations** of the beam while bending. By this, the angle remains constant throughout the length.

The compensating arc is accurately calculated taking

into account the design of the machine and its deformations under load. The process is automatic and the calculation takes into account the thickness of the sheet, type of material, opening of the V and length.

PROMECAM



WILA



. S-BOOST

Increased productivity is a major goal of today's enterprises. S-Boost is a system that offers a greater fast speed up and down.

S-boost 1	up to 200 Ton
S-boost 2	from 200 to 300 Ton

NOTE: Speed values with S-Boost are described on page 24.



. TOOL CABINET

	Shelves	Sliding shelves
Arm1	4	-
Arm2	8	-
Arm1A	4	٠

. OFFLINE SOFTWARE

Offline software is an indispensable tool to increase the profitability of a machine. All RICO machines have offline software included depending on the machine control.

In the case of 3D software's allow the import of the 2D / 3D files automatically realizing the programming of the bending and creating a file for the cut.

	2D	3D
Profile TL ^S	•	-
Profile T2D	•	-
Profile T3D	•	•
PC Modeva	•	•
PC RA Premium	•	•
Radbend	•	•











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.







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TANDEM INTEGRATION

Two press brakes may be used in tandem when bending large lengths. This system enables the user to sychronise the two machines to guarantee the same speed and precision.

The Tandem system enables the two machines to be operated in **simulta**neous or stand-alone mode.

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PRCB

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Rico



RICO INTEGRATED CELLS

The PRCN press brake **is designed to** allow for the introduction of robotic cells developed in accordance with the needs of each project.



RICO PRESS BRAKE RANGE

RICO offers 4 models of Press Brakes with different configuration but with a common characteristic: **high quality.** The choice of the model must take into account the purpose and the advantage of its use.





- Accuracy
- General speed's
- Structural Performance
- Stroke range
- Energy efficiency

. OTHER ELEMENTS

	STANDARD CONTROL	STANDARD AXES	SWAYBEND	H-BOX FRAME	TRIPLE GUIDE
PRCB	Delem DA-53T	3	-	-	-
PRCN	Delem DA-66T	4	•	•	•
PRCN	Delem DA-66T	4	•	•	•
PRCE	Delem DA-53T	4	-	-	-



FUTURE FORWARD

Embrace future challenges, and give our contribution to help industries getting prepared to the next step, is **RICO**'s main commitment.

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.

KNOW-HOW

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

ding length	nage	oat depth	m stroke	light	light 2 *	Fast	Bending	Return (RS) RS <mark>S-B</mark> oost *	capacity	k gauge stroke	or Power	Total length (A)	Total height (B)	Total width (C)	Distance between frames	Heigth under the floor	ox. weight
Ben	Ton	Thro	Bea	Day	Day		Y axis sp	eed	Oil	Bac	Mot		Dim	ensior	IS		Apr
mm	Ton	mm	mm	mm	mm		mm/s	Lts	mm	kW			mm			Kg	

I-LINE

PRCN 2070	2100					540	210	0-10/18*						3080			1600		6030	
PRCN 2570	2600	70	300	300	500				145	220	120	750	7,5	3580	2790	2030	2100	0	6620	
PRCN 3070	3100													4080			2600		7640	
PRCN 25100	2600								145	220	180			3600			2100		8060	
PRCN 30100	3100	100	100	700	500	540	200	0-10/18*				750	11	4100		2090	2600		9230	
PRCN 35100	3600		400	300										4600	2890		3100	0	10670	
PRCN 40100	4100													5100			3600		12050	
PRCN 30135	3100														4120			2600		10910
PRCN 35135	3600	135	400	300	500	540	200	0-10/17*	135	200	230	750	11	4620	2905	2160	3100	0	12590	
PRCN 40135	4100													5120			3600		14080	
PRCN 30160	3100				500	540	200	0-10/17*	155	205	230	750	15	4120			2600		12220	
PRCN 35160	3600	160	400	300										4620	2965	2220	3100	0	14250	
PRCN 40160	4100													5120			3600		15980	
PRCN 30200	3100						200							4100			2600		15140	
PRCN 35200	3600	200	400	300	500	540		0-10/ 17 *	130	200	290	750	15	4600	3015	2030	3100	0	16410	
PRCN 40200	4100													5100			3600		20200	

C-LINE

PRCN 30250	3100													3940			2600		18080
PRCN 35250	3600	250	400	350	570	610	180	0-10/17*	130	205	390	750	19	4440	3440	2020	3100	0	19720
PRCN 40250	4100													4940			3100		20310
PRCN 30300	3100													3960			2600		19130
PRCN 35300	3600	300	400	350	570	610	180	0-10/17*	130	205	470	750	30	4460	3440	2020	3100	0	20730
PRCN 40300	4100													4960			3100		21410
PRCN 35400	3600	100	400	400	620	660	170	0-10	120		700	750	70	4480	7766	2305	3100	0	25980
PRCN 40400	4100	400							120		300	/30		4980	3700	2395	3100		26900
PRCN 35450	3600	100	100	100	620	660	150	0-10	105		700	750	30	4480	7775	2705	3100		27000
PRCN 40450	4100	450	400	400	020	000			105	_	300			4980	2393	2395	3100		27670
PRCN 35500	3600		400	100	620	660	140	0-10	105		700	75.0	70	4500	7775	2395	3100		28320
PRCN 40500	4100	500		400	620	000			105	_	380	/50	30	5000	3/35		3100		29310

* Optional

Content subject to change without notice. V4.02

BENDING TABLE

Required bending power (Ton/m) Rm=420 N/mm² - Rm=700 N/mm²

R	В	V	0,5	0,6	0,8	1	1,2	1,5	2	2,5	3	4	5	6	8	10	12	15	20	25	30
0,5	3	4	4	6	12 20																
O,7	3,5	5	35	58	9 15	15 25											90) ∞			
0,8	4	6	24	3_6	7_12	11 19	18 30										JF	\mathbf{l}	1 D	×.	
1	5,5	8		2_4	58	8 13	12 21	21 35									V		X	\s \s	
1,3	6,5	10			4_6	6_10	9 15	15 26	30 50								r				
1,5	8	12				58	7_12	12 20	23	39 66							Ň				
2	10,5	16					58	8 13	16 26	27 45	44										
2,5	13	20						6	12	20 33	31 52	60 101					V	→			
3,2	16,5	25							9 15	14 24	23 38	44 73	76 126								
4,4	21	32								11 18	16 27	32 53	54 90	85 142							
5	26	40									12 21	23 38	39 66	62 103	121 202						
6,5	32,5	50										18 30	29 48	45 76	88 147	151 252					
8	41	63											22 37	33	70	109 182	173 288				
10	52	80												25 42	46	79 131	124 207	213 354	_		
12	65	100													35	58 96	91 151	155 258	302 504		
15	81,5	125														44 74	66 110	113 189	220 367	378 630	
20	104	160															50 83	81 135	158 263	269 448	425 709
25	130	200																62	115 192	197 328	310 517
37	163	250																	89 148	144 240	227 378
45	195	300																		120 200	173 288



S (mm)





ALL DIMENSIONS CAN BE DIFFERENT ON CUSTOMIZED MACHINES.

THE DIMENSIONS FOR TRANSPORT CAN BE DIFFERENT. AGENT\



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