

PRCB - High Performance

Configurable solution for
high-performance and top quality work



PRCB

HIGH PERFORMANCE

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dm
DELAHENTY
MACHINERY

MACHINE TOOL MERCHANTS SINCE 1964

RICO[®]
Precision Ideas

***PRCB** is a high-performance press brake designed for all types of production involving demanding requirements.*

Versatility and options for configuring and customising the equipment enable **PRCB** to be used at any kind of company and work, from spot bending the simplest parts to production involving a series of complex bending operations requiring high accuracy.

PRCB
Ultimate in
precision and
versatility



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ADVANTAGES

/ Significantly less chance of collision with the frame.

/ Extremely quick cycle times due to upper ram high speed and back gauge equipped both with ball screws and high-performance brushless servo motors, thereby ensuring high productivity and accuracy.

/ Highly customisable machinery configured in accordance with each company's needs.

/ A wide range of tools and systems for punches and dies fast clamping, ensuring geometrically complex bending and short setup times.

*Differentiated
advantages of
PRCB*



RANGE

PRCB range is fully configurable following the customer's needs.
The standard range features models with capacities varying from 30 to 1200 tons.
Furthermore, RICO is able to build machinery following different configurations upon customer's request.

Range PRCB							
Capacity \ Length	1600	2100	2600	3100	3600	4100	6100
30 Ton	•	•					
70 Ton	•	•	•	•			
100 Ton	•	•	•	•			
135 Ton			•	•	•	•	
160 Ton				•	•	•	•
200 Ton				•	•	•	•
250 Ton				•	•	•	•
300 Ton				•	•	•	•
400 Ton					•	•	•
450 Ton					•	•	•
500 Ton					•	•	•
600 Ton					•	•	•
800 Ton						••	••
1000 Ton							••
1200 Ton							••

- Standard equipment
 - Upon order
- NOTE

All models allow its integration in robotic cells.

All models may be used in Tandem or Tridem system.

/ AFTER-SALE SERVICE

RICO's policy is based on an accurate selection of its components in accordance with the huge experience acquired over the years. All the company's components are certified in accordance with European Standards. RICO enriches its service by means of quality and proximity to the customer. 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 failure as well as training or 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 a qualified technical service, working in line with the following goals:

- Problems solution at the first contact;
- Quick answer;
- Assured quality.



The ideal solution for high levels of competitiveness, precision and safety

STANDARD EQUIPMENT

- / Delem DA-52 or Cybelec Cybtouch 8 PS CNC control
- / 3 Automatic axes: Y1+Y2+X
- / 4 Manual axes: R1+R2+Z1+Z2
- / Standard BGS back gauge equipped with ball screws and brushless motor
- / Sheet metal frontal supports, SFS
- / Front cover: Akas LC-II F safety laser (Category IV)
- / Rear cover: Safety barriers (Category IV)
- / CNC hanging swivel control
- / Self-centered table
- / Rear lighting
- / Offline software Delem Profile-S
- / Standby function



OPTIONAL EQUIPMENT

. Controls

Delem	Axes	Screen	2D graphical view	3D graphical view	3D graphical programming	Automatic bending sequence	Touch Screen	DXF Import	CYBELEC INFRANOR GROUP COMPANY
 DA-52	4	7"	X	X	X	X	X	X	 CybTouch 8 / 12PS
	4	7"	X	X	X	X	✓	X	
 DA-56	4	10"	X	X	X	X	X	X	 DNC 15
	7	10"	✓	X	X	✓	X	X	
 DA-66T	8	17"	✓	✓	X	✓	✓	○	 ModEva 15T
	8	10"	✓	X	X	✓	X	X	
 DA-69T	8	17"	✓	✓	✓	✓	✓	✓	 ModEva RA ModEva RA Premium
	8	15"	✓	✓	X	✓	✓	X	

✓ Available X Unavailable ○ Optional

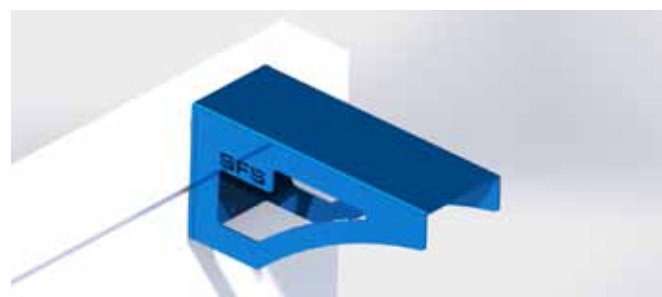


. Supports

The sheet metal holder systems ensure less operators' efforts when repeatedly handling heavy plate, allowing greater accuracy when positioning the sheet metal close to the tool and back gauge.

/ SFS

- . Supported on any position of the clamps;
- . Manual height regulation.



/ SFA

- . Supported on sliding guides;
- . Can be placed at any point along the length;
- . Manual height regulation;
- . Millimetric scale;
- . Ball transfer units to facilitate handling parts;
- . Adjustable plate stop;
- . Device for approaching the die;
- . Removable supports.



/ 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/support.



/ ACF1 | ACF2

- . Automatic bending follower supports;
- . Controlled by CNC;
- . Recommended for heavy parts or large thin plate;
- . Assistant operator free;
- . Supported on longitudinal sliding rails;
- . Wheel controlled height regulation;
- . ACF1 160 kg per support | ACF2 360 kg per support.



/ SPA

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



. Quick clamping

Quick punch clamping system

Model	Type	
Speed Grip	Mechanical	
Speed Grip PN	Pneumatic	

- . The punch may be installed from the front.

Quick die clamping system

ROL2 PN	Pneumatic	
ROL2 HYD	Hydraulic	

/ SPEED GRIP SYSTEM

The speed grip system reduces the time spent changing tools by 8.5 times compared with traditional systems.



. RICO LED Techbar

Smart LED position indicator controlled by CNC, providing the worker where to position the tools correctly.



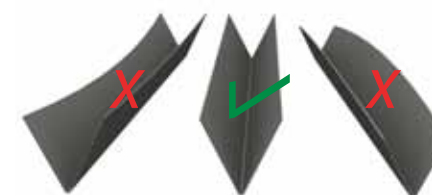
. Tool Rack

ARM 1	4 Shelves
ARM 2	8 Shelves



. Crowning table

This system enables the user to offset deformations of the beam while bending. Thus, the angle is keeping constant along the entire plate length.



WILA



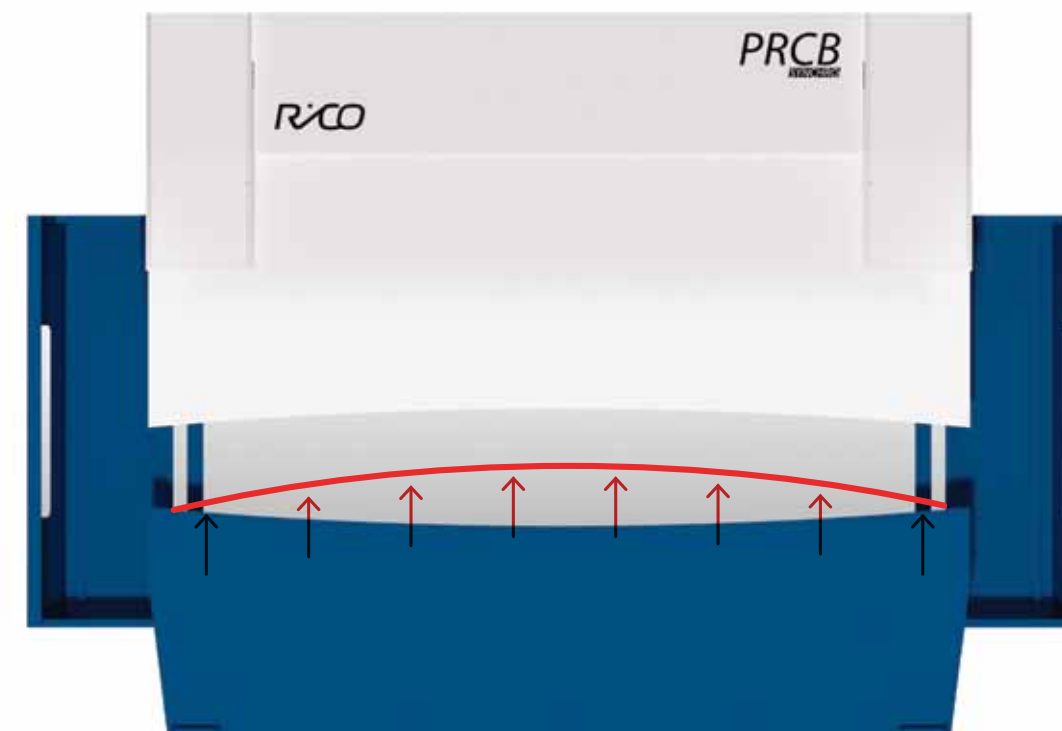
RICO



. RICOBEND Software

This software features offline programming by importing files in different formats. **RICOBEND**'s powerful 3D simulation tool enables the worker to simulate all the possible bending sequences, select the tools, define the stop position and safely detect collisions. Once **RICOBEND** has been programmed, the software delivers the file to the equipment's numerical control panel, which is then configured to execute the work immediately.

RICOBEND allows the introduction of software providing from other kind of machinery such as Laser, Plasma or Punching systems, among others.



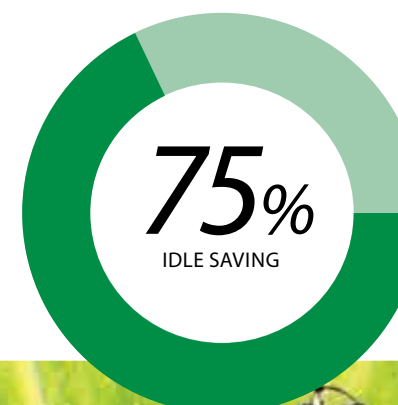
RICO GREEN

RICO promotes a friendly environmental policy, and, as such, all our equipment features the **Standby Function**. This function leads to the automatic stop of the power after 5 consecutive minutes of inactivity. **Standby Function** ensures an effective economy of energy on an automatic basis.

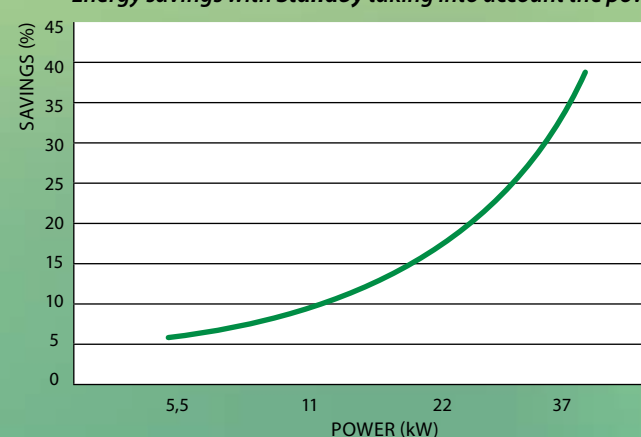


RICO GREEN, Integrated Nature

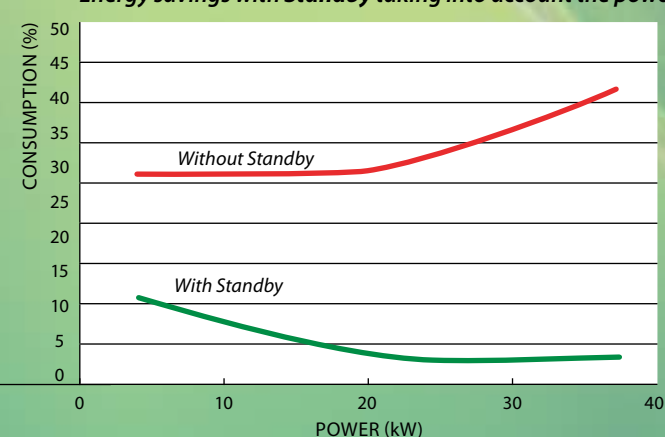
*Developing in line
with sustainability and
environmental concern*



Energy savings with Standby taking into account the power

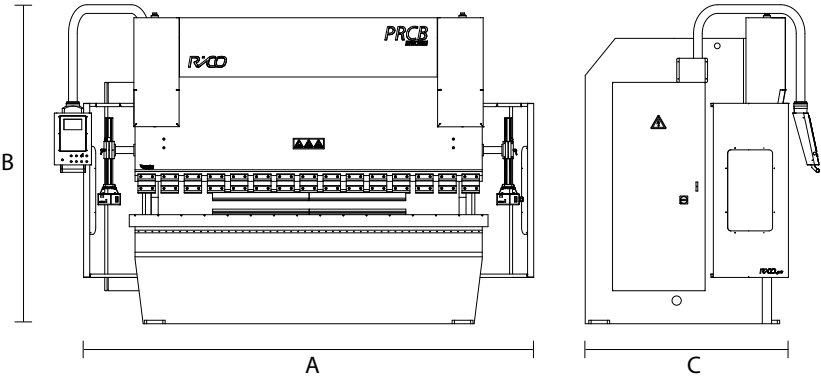


Energy savings with Standby taking into account the power



TECHNICAL SPECIFICATIONS

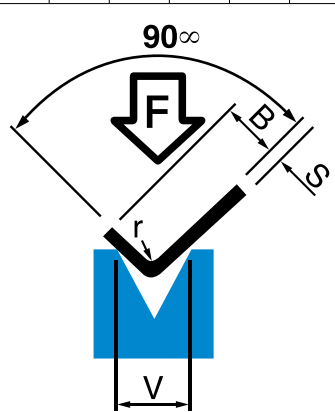
Model	Bending length	Tonnage	Throat Depth	Beam Stroke	Daylight	Fast Speed	Slow Speed (Work Speed)	Return Speed	Oil Capacity	Back Gauge Stroke	Motor Power	Total Length (A)	Total Height (B)	Total Width (C)	Distance Between Frames	Height Under the Floor	Approx. Weight	
						Beam Speed						Dimensions						
						mm/s	mm/s	mm/s				mm	mm	mm	mm	mm		kg
PRCB 1530	1600	30	250	200	395	180	0-10	130	55	700	3	2400	2290	1420	1220	0	1900	
PRCB 2030	2100	30	250	200	395	180	0-10	130	55	700	3	2780	2290	1420	1600	0	2750	
PRCB 2070	2100	70	300	200	395	180	0-10	120	125	700	5.5	2850	2520	1530	1600	0	3900	
PRCB 20100	2100	100	300	200	395	160	0-10	130	125	700	7.5	2880	2520	1550	1600	0	5600	
PRCB 2570	2600	70	300	200	395	180	0-10	120	125	700	5.5	3350	2520	1530	2100	0	4300	
PRCB 25100	2600	100	300	200	395	160	0-10	130	125	700	7.5	3380	2520	1550	2100	0	6060	
PRCB 3070	3100	70	300	200	395	180	0-10	120	125	700	5.5	3850	2520	1530	2600	0	5280	
PRCB 30100	3100	100	300	200	395	160	0-10	130	125	700	7.5	3880	2520	1550	2600	0	7040	
PRCB 30135	3100	135	400	200	395	190	0-10	130	160	700	11	3880	2650	1860	2600	0	8580	
PRCB 30160	3100	160	400	200	395	180	0-10	120	200	700	15	3900	2710	1780	2600	0	9350	
PRCB 30200	3100	200	400	200	395	160	0-10	120	200	700	18.5	3920	2740	1930	2600	0	11000	
PRCB 30250	3100	250	400	250	465	180	0-10	110	300	700	22	3950	3180	2020	2600	0	13000	
PRCB 30300	3100	300	400	250	465	170	0-10	110	345	700	30	3950	3180	2020	2600	0	14000	
PRCB 35100	3600	100	300	200	395	160	0-10	125	125	700	7.5	4380	2520	1550	3100	0	8140	
PRCB 35135	3600	135	400	200	395	190	0-10	125	160	700	11	4380	2650	1860	3100	0	9100	
PRCB 35160	3600	160	400	200	395	180	0-10	115	200	700	15	4400	2710	1780	3100	0	9950	
PRCB 35200	3600	200	400	200	395	160	0-10	115	200	700	18.5	4420	2740	1930	3100	0	12000	
PRCB 35250	3600	250	400	250	465	180	0-10	110	300	700	22	4450	3180	2020	3100	0	14000	
PRCB 35300	3600	300	400	250	465	160	0-10	110	345	700	30	4450	3180	2020	3100	0	15200	
PRCB 35400	3600	400	300	300	520	170	0-10	100	380	700	37	4480	3470	2300	3100	0	22400	
PRCB 35450	3600	450	300	300	520	150	0-10	100	380	700	37	4480	3510	2300	3100	0	23500	
PRCB 35500	3600	500	300	300	520	150	0-10	90	380	700	37	4500	3510	2360	3100	0	26200	
PRCB 40100	4100	100	300	200	395	160	0-10	125	125	700	7.5	4880	2520	1550	3100	0	8900	
PRCB 40135	4100	135	400	200	395	190	0-10	125	160	700	11	4880	2650	1860	3100	0	10050	
PRCB 40160	4100	160	400	200	395	180	0-10	115	200	700	15	4900	2720	1900	3100	0	11000	
PRCB 40200	4100	200	400	200	395	160	0-10	115	200	700	18.5	4920	2740	1930	3100	0	13200	
PRCB 40250	4100	250	400	250	465	180	0-10	110	300	700	22	4920	3180	2020	3100	0	15300	
PRCB 40300	4100	300	400	250	465	160	0-10	110	345	700	30	4960	3180	2020	3100	0	16800	
PRCB 40400	4100	400	300	300	520	170	0-10	100	380	700	37	4980	3470	2300	3100	0	24000	
PRCB 40450	4100	450	300	300	520	150	0-10	100	380	700	37	4980	3510	2300	3100	0	25600	
PRCB 40500	4100	500	300	300	520	150	0-10	90	380	700	37	5000	3520	2360	3100	0	28000	
PRCB 40600	4100	600	300	350	570	140	0-10	80	500	700	55	5020	3580	2500	3100	900	31000	
PRCB 60100	6100	100	400	200	395	170	0-10	115	125	700	7.5	6880	2700	1900	5100	0	13000	
PRCB 60135	6100	135	400	200	395	170	0-10	115	160	700	11	6880	2780	1900	5100	0	13800	
PRCB 60160	6100	160	400	200	395	170	0-10	110	200	700	15	6900	2880	2000	5100	0	17500	
PRCB 60200	6100	200	400	200	395	150	0-10	100	200	700	18	6920	2980	2050	5100	1150	21000	
PRCB 60250	6100	250	400	250	465	150	0-10	100	300	700	22	6960	3380	2100	5100	1200	26400	
PRCB 60300	6100	300	400	250	465	150	0-10	100	345	700	30	7000	3380	2100	5100	1200	30600	
PRCB 60400	6100	400	400	300	520	140	0-10	75	380	700	37	7040	3520	2430	5100	1350	38000	
PRCB 60450	6100	450	400	300	520	140	0-10	75	380	700	37	7040	3520	2430	5100	1350	41500	
PRCB 60500	6100	500	400	300	520	140	0-10	75	380	700	37	7080	3660	2430	5100	1700	46400	
PRCB 60600	6100	600	400	350	570	130	0-10	75	500	700	55	7080	3760	2500	5100	1700	51000	



. Required bending power (TON/METER)

Rm=42 daN/mm² - Rm=70 daN/mm²

S (mm)																											
R	B	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 ₇	6 ₁₀	12 ₂₀																						
0,7	3,5	5	3 ₅	5 ₈	9 ₁₅	15 ₂₅																					
0,8	4	6	2 ₄	3 ₆	7 ₁₂	11 ₁₉	18 ₃₀																				
1	5,5	8		2 ₄	5 ₈	8 ₁₃	12 ₂₁	21 ₃₅																			
1,3	6,5	10			4 ₆	6 ₁₀	9 ₁₅	15 ₂₆	30 ₅₀																		
1,5	8	12				5 ₈	7 ₁₂	12 ₂₀	23 ₃₈	39 ₆₆																	
2	10,5	16					5 ₈	8 ₁₃	16 ₂₆	27 ₄₅	44 ₇₁																
2,5	13	20						6 ₁₀	12 ₁₉	20 ₃₃	31 ₅₂	60 ₁₀₁															
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 ₅₅	70 ₁₁₇	109 ₁₈₂	173 ₂₈₈										
10	52	80												25 ₄₂	46 ₇₇	79 ₁₃₁	124 ₂₀₇	213 ₃₅₄									
12	65	100													35 ₅₉	58 ₉₆	91 ₁₅₁	155 ₂₅₈	302 ₅₀₄								
15	81,5	125														44 ₇₄	66 ₁₁₀	113 ₁₈₉	220 ₃₆₇	373 ₆₃₀							
20	104	160															50 ₈₃	81 ₁₃₅	263 ₄₄₈	425 ₇₀₉							
25	130	200																62 ₁₀₄	115 ₁₉₂	197 ₃₂₈	310 ₅₁₇						
37	163	250																	89 ₁₄₈	144 ₂₄₀	227 ₃₇₈						
45	195	300																		120 ₂₀₀	173 ₂₈₈						



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