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The CYLASER Name Is Your Assurance of Quality



**CYBEND is a robust, reliable high quality machine totally designed and built in Italy.**

## About CYLASER

CYLASER is proud to introduce the CYBEND line of standard and enhanced press brakes. CYBEND machines are engineered to complement our laser systems and give our customers a more complete single-source manufacturing solution.

In keeping with our founding philosophy to always be a technological resource for our customers, CYLASER has partnered with an experienced Italian manufacturer to produce CYBEND press brakes to our specifications and quality standards.

## PRODUCTION ESSENTIALS



### Solid Construction

CYBEND press brakes feature a heavy-duty welded steel plate structure sized for working loads well above rated machine capacities.

### Environmentally Friendly Painting

CYBEND press brakes are finished with modern water-based paints applied by skilled painters using eco-friendly, state-of-the-art equipment.



### In-House Machining

CYBEND frames are machined on large precision boring mills on the builder's production floor to guarantee maximum quality and accuracy.

### Reliable Hydraulics

CYBEND press brakes use readily available Off-The-Shelf hydraulic components assembled into fine-tuned systems that deliver high performance, extreme reliability and extended service life.



### Precision Assembly

CYBEND cylinders and other components are assembled by skilled craftsmen.

### Electrical Panels

Each CYBEND press brake comes with an electrical panel designed by the builder's engineers and assembled by skilled electricians.



## CYBEND STANDARD PRESS BRAKES



CYBEND Standard press brakes are available with capacities from 50 to 1,200 metric tons (1,323 tons) and lengths from 1,500 mm (5') to 10,000 mm (32.8').

### STANDARD EQUIPMENT INCLUDES:

- > An inverter-controlled main motor
- > 4-axis (Y1-Y2-X-R) CNC control with touch screen interface
- > Adjustable, quick-release intermediate clamps H=100 mm (4") or H=150 mm (6") depending on the model selected

- > Segmented hardened and ground tooling
- > Hydraulic crowning unit on all models except CY-S
- > A ballscrew back gauge
- > Two sliding back gauge fingers adjustable from front side of machine
- > Laser front safety system
- > Light curtain rear safety system
- > Bottom die table
- > Ball screw guided sliding front support arms
- > An automatic pressure lubrication system

## CYBEND HIGH LINE PRESS BRAKES



CYBEND High Line press brakes offer high-end features in machines ranging from 120 to 400 metric tons (132 to 441 tons) and lengths from 3,200 mm (10.5') to 4,200 mm (13.8').

### STANDARD EQUIPMENT INCLUDES:

- > An Inverter-controlled main motor
- > An ESAUTOMOTION S660 7-axis (Y1-Y2-X1-X5-R-Z1-Z2) CNC with 19" color touch screen interface.
- > Longer cylinder stroke
- > 250 mm (9.8") pneumatic intermediate clamps suitable for deep box production

- > Retractable rear supports mounted on the back gauge
- > Light barrier front and rear safety systems
- > Motorized laser support bracket with automatic positioning based on tool height
- > An LED light mounted on the top beam to assist in machine set up
- > Dynamic hydraulic crowning system
- > Bottom die table
- > Hardened and ground sectional tooling
- > Automatic pressure lubrication
- > Ball screw guided sliding front support arms

## EVEN MORE STANDARD FEATURES

### Hydraulic Crowning Unit

A "sandwich type" lower beam hydraulically balances top and lower beam deflection to maintain maximum parallelism over the entire bending length. The system is automatically managed by the CNC, and an optional "Real Time" compensation system is available on request.

### Inverter Motor Control

#### HIGH PRODUCTIVITY

Up to 90% higher return speeds

Up to 50% higher bending speeds

Up to 35% more nominal bending force

Same flexibility of a traditional press brake.  
(No constraint to machine size)

#### LOW ENERGY CONSUMPTION

Up to 25% less energy required

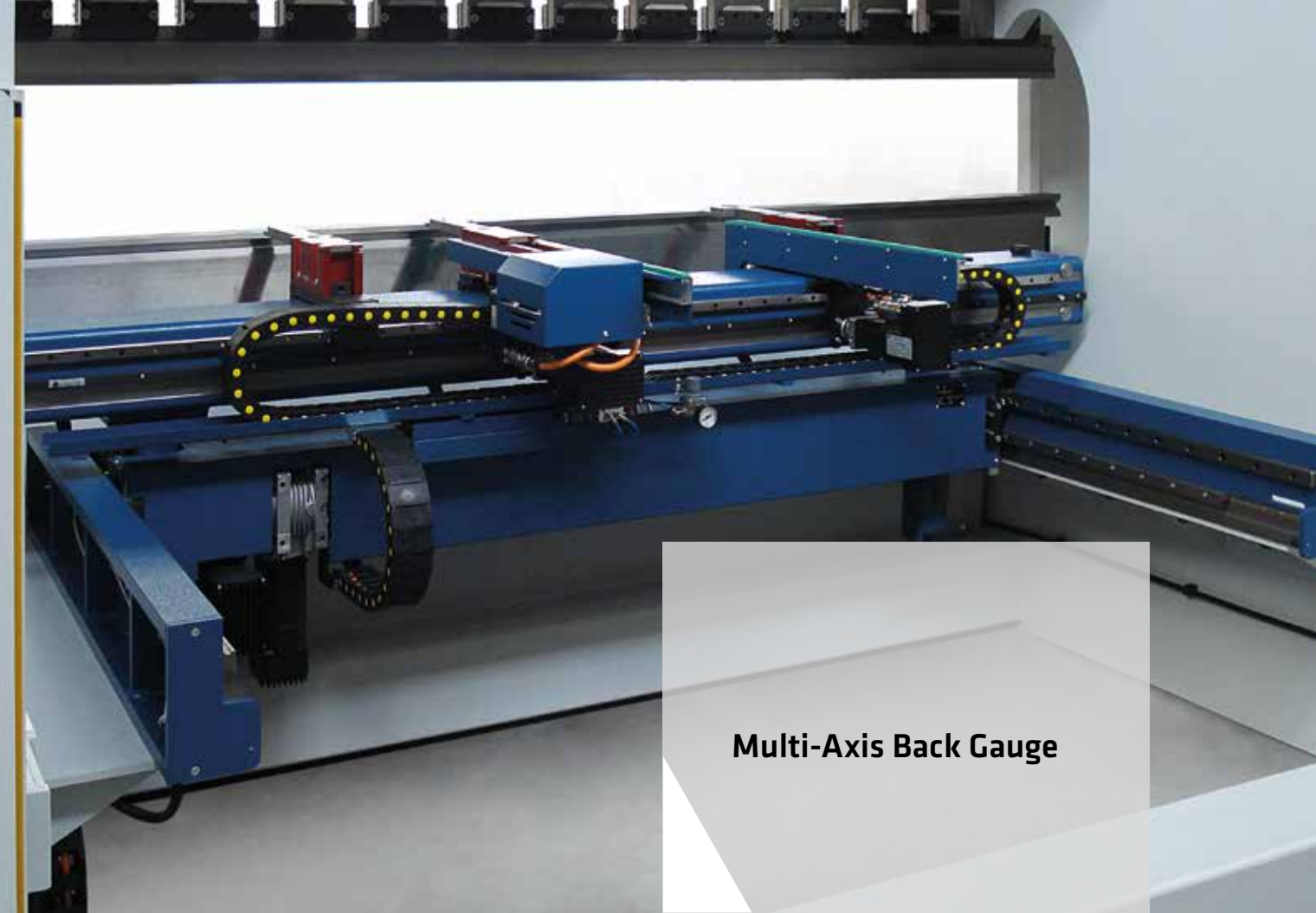
Less impact noise

Cooler running hydraulic components

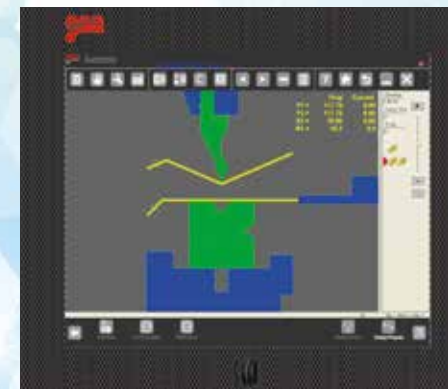


ALL CYBEND PRESS BRAKES ARE EQUIPPED WITH HIGH-PRODUCTIVITY, ENERGY-SAVING INVERTERS

A custom-tuned software algorithm developed specifically for this device delivers higher bending forces and speeds that translate directly into increased productivity. The control switches the motor off when the machine is idle to minimize energy consumption.



### Multi-Axis Back Gauge



### ESA S660 CNC with color graphics



**CYBEND**  
STANDARD SERIES  
ACCESSORIES



Self-aligning quick-release intermediate clamps with front extraction.



Self-aligning pneumatic intermediate clamps with front extension which also are available with a deep box bending capable extension.

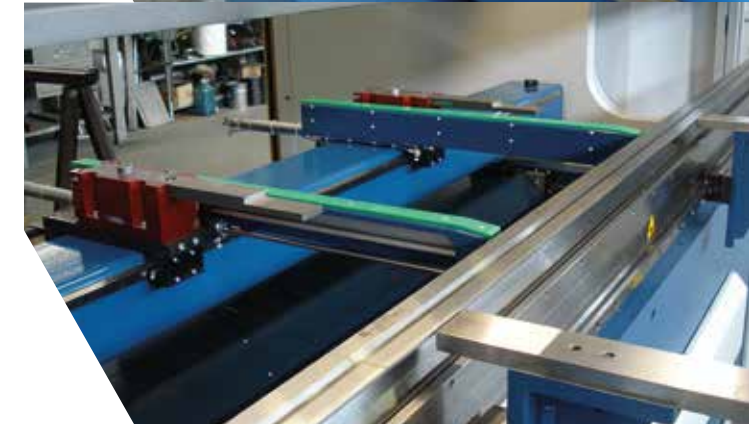


LED lighting mounted between the upper beam and intermediate clamps.

**ACCESSORIES**  
FOR STANDARD SERIES



Back gauge fingers with LED contact indicator.



Pneumatically-controlled rear supports.

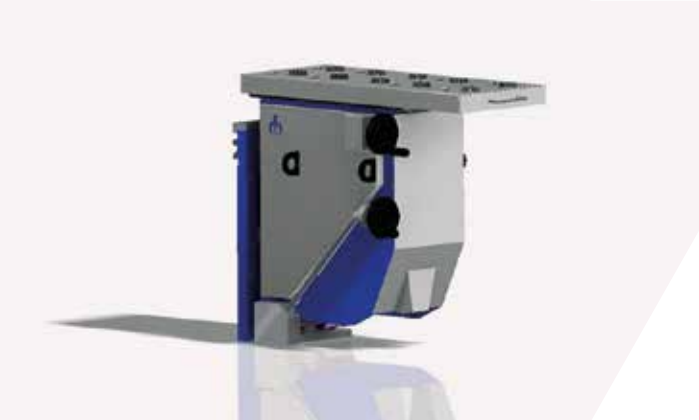


Motorized laser support bracket with automatic CNC positioning based on tool height for work area protection.

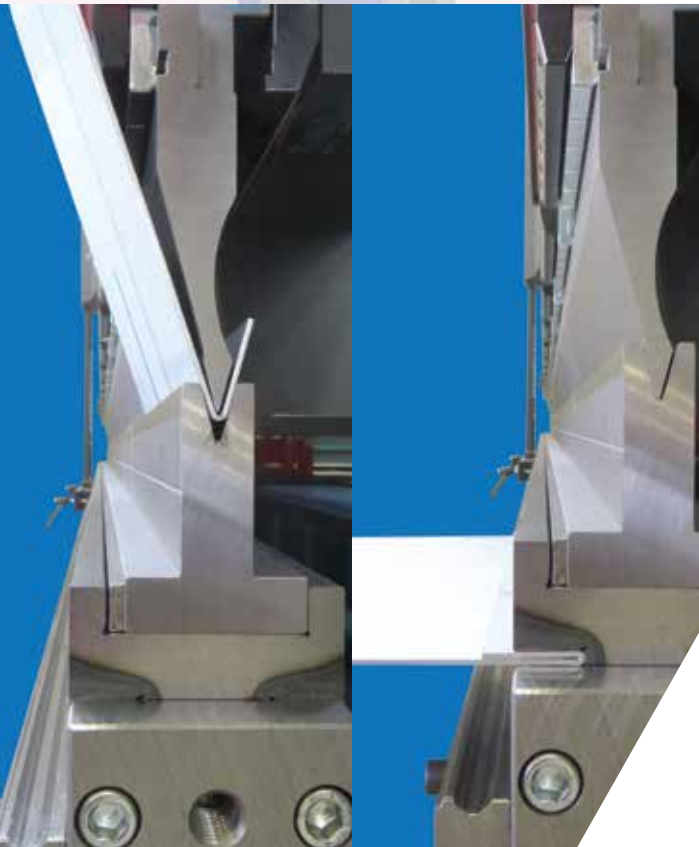
**CYBEND**  
STANDARD AND ENHANCED  
SERIES ACCESSORIES



A real time angle control device that delivers 0.3 arc/seconds bending tolerance on the first bend.



CNC managed followers to support sheets during bending



CNC managed hemming table with pneumatic opening

**NEW HT MODEL**  
HIGH SPEED



**...DON'T FORGET, CYLASERS ARE THE PERFECT  
COMPLEMENT FOR CYBEND PRESS BRAKES!**

**SIDE LOAD VERSION**  
SIDE LOADING MACHINES



# THE CYBEND FAMILY



Machine  
CY-S 0838



Machine  
CY-SC 3120



Machine  
CY-SC 4200



Machine  
CY-SC 3300



Machine  
CY-SC 4400



Machine  
CY-SC 71100



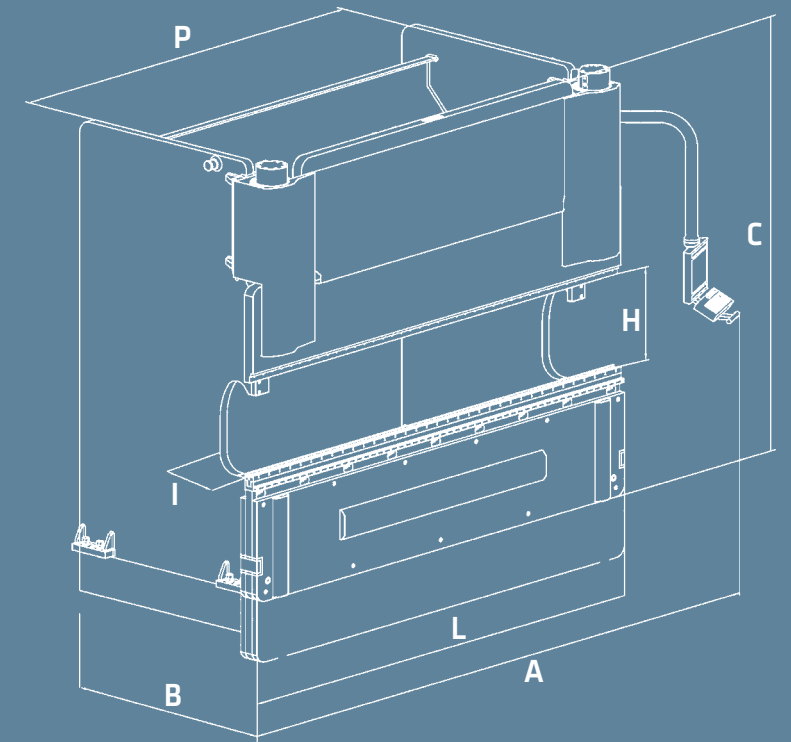
Model	Rated Force	Max Power	Bending Length	Distance Between Frames	Gap	Distance between Ram & Bench	Cylinder Stroke	X-axis Stroke	R-axis Stroke	Approach Speed	Working Speed	Return Speed
	L	P	I	H								
	kN	kN	inch.	inch.	inch.	inch.	inch.	inch.	inch.	in/min	in/min	in/min
<b>CY-S 838</b>	380	420	32.8	33.5	6.9	16.9	8.6	23.6	5.9	472.2	28.3	590.4
<b>CY-S 1550</b>	500	600	63	47.2	11.8	16.1	7.8	23.6	5.9	472.2	28.3	448.8
<b>CY-S 250</b>	500	600	86.6	63	19.7	16.1	7.8	23.6	5.9	472.2	28.3	448.8
<b>CY-S 275</b>	750	900	86.6	63	19.7	16.9	8.6	23.6	5.9	472.2	28.3	401.5
<b>CY-SC 390</b>	900	1200	126	102.4	19.7	16.9	8.6	21.6	5.9	472.2	28.3	401.5
<b>CY-SC 490</b>	900	1200	165.3	141.7	19.7	16.9	8.6	21.6	5.9	472.2	28.3	401.5
<b>CY-SC 3120</b>	1200	1600	126	102.4	19.7	16.9	8.6	29.5	5.9	472.2	28.3	425.2
<b>CY-SC 4120</b>	1200	1600	165.3	141.7	19.7	16.9	8.6	29.5	5.9	472.2	28.3	425.2
<b>CY-SC 3160</b>	1600	2000	126	102.4	19.7	16.9	8.6	29.5	5.9	472.2	28.3	472.4
<b>CY-SC 3200</b>	2000	2500	126	102.4	19.7	20.1	11.8	29.5	5.9	472.2	28.3	472.4
<b>CY-SC 4200</b>	2000	2500	165.3	141.7	19.7	20.1	11.8	29.5	5.9	472.2	28.3	472.4
<b>CY-SC 5200</b>	2000	2500	204.7	165.3	500	20.1	11.8	29.5	7.8	472.2	28.3	472.4
<b>CY-SC 6200</b>	2000	2500	244.1	204.7	19.7	20.1	11.8	29.5	7.8	472.2	28.3	472.4
<b>CY-SC 3300</b>	3000	3500	126	102.4	19.7	22.1	11.8	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 4300</b>	3000	3500	165.3	141.7	19.7	22.1	11.8	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 5300</b>	3000	3300	204.7	165.3	19.7	22.1	11.8	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 6300</b>	3000	3300	244.1	204.7	19.7	22.1	11.8	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 4400</b>	4000	4500	165.3	141.7	19.7	25.9	15.7	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 5400</b>	4000	4500	204.7	165.3	19.7	25.9	15.7	29.5	7.8	354.6	28.3	354.3
<b>CY-SC 6400</b>	4000	4500	244.1	204.7	19.7	25.9	15.7	29.5	7.8	354.6	28.3	354.3

Model	Rated Force	Max Power	Bending Length	Distance between Frames	Gap	Distance between Ram & Bench	Cylinder Stroke	X-axis Stroke	X5 axis stroke	R-axis Stroke	Z1-Z2 axes Stroke	Approach Speed
	L	P	I	H								
	kN	kN	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	in/min
<b>CY-HL 3120</b>	1200	1600	126	102.4	19.7	27.9	13.7	31.5	+/- 5.9	5.9	78.7	472.5
<b>CY-HL 4120</b>	1200	1600	165.3	141.7	19.7	27.9	13.7	31.5	+/- 5.9	5.9	118.1	472.5
<b>CY-HL 3160</b>	1600	2000	126	102.4	19.7	27.9	13.7	31.5	+/- 5.9	5.9	78.7	472.5
<b>CY-HL 3200</b>	2000	2500	126	102.4	19.7	29.9	15.7	31.5	+/- 5.9	5.9	78.7	472.5
<b>CY-HL 4200</b>	2000	2500	165.3	141.7	19.7	29.9	15.7	31.5	+/- 5.9	5.9	118.1	472.5
<b>CY-HL 3300</b>	3000	3500	126	102.4	19.7	29.9	15.7	31.5	+/- 5.9	7.8	78.7	330.7
<b>CY-HL 4300</b>	3000	3500	165.3	141.7	19.7	29.9	15.7	31.5	+/- 5.9	7.8	114.2	330.7
<b>CY-HL 4400</b>	4000	4500	165.3	141.7	19.7	29.9	15.7	31.5	+/- 5.9	7.8	114.2	283.5

Overall Dimensions			Main Motor Power	Approx. weight
A	B	C		
feet	feet	feet	Kw	lbs
7.4	4.7	9.2	5	7940
9.8	4.7	8.2	7,5	9260
11.4	5.6	8.6	7,5	9920
11.4	5.7	8.7	7,5	13890
14.7	6.2	9.2	9,2	22270
18	6.2	9.2	9,2	27340
14.7	6.6	9.4	11	28000
18	6.6	9.4	11	31970
14.7	6.7	9.4	15	30865
14.7	7.1	10.5	18,5	40125
18	7.1	10.5	18,5	47620
21.3	7.1	10.5	18,5	56440
24.6	7.1	10.8	18,5	64155
14.7	7.6	11.2	22	49605
18	7.6	11.2	22	58865
21.3	7.6	11.5	22	68345
24.6	7.6	11.8	22	73855
18	7.9	11.7	30	66140
21.3	7.9	11.7	30	77160
24.6	7.9	11.8	30	90390

Working Speed	Return Speed	Overall Dimensions			Main Motor Power	Approx weight
		A	B	C		
in/min	in/min	feet	feet	feet	Kw	lbs
28.4	425.2	14.8	7.1	10.3	13	28,220
28.4	425.2	18.1	7.1	10.3	13	33,730
28.4	472.5	14.8	7.1	10.3	17	33,070
28.4	472.5	14.8	7.1	11.3	21	42,330
28.4	472.5	18.1	7.1	11.3	21	48,725
28.4	354.4	14.8	7.6	12	25	51,810
28.4	354.4	18.1	7.6	12	25	61,730
28.4	330.7	18.1	7.6	12.2	33	68,785

### IMPERIAL DIMENSIONS

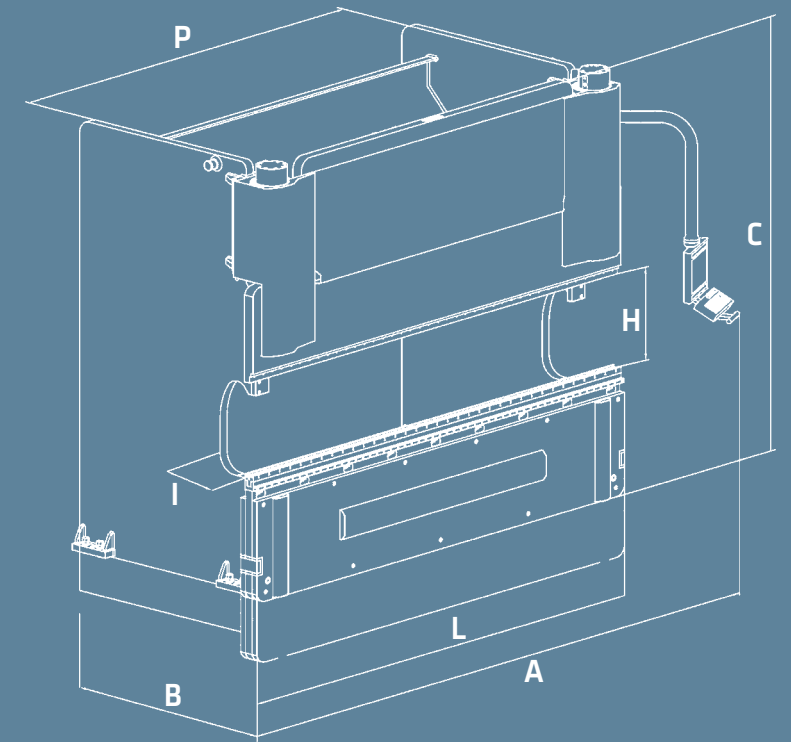


Model	Rated Force	Max Power	Bending Length	Distance Between Frames	Gap	Distance between Ram & Bench	Cylinder Stroke	X-axis Stroke	R-axis Stroke	Approach Speed	Working Speed	Return Speed
	L	P	I	H								
	kN	kN	mm	mm	mm	mm	mm	mm	mm	mm/sec	mm/sec	mm/sec
CY-S 838	380	420	835	850	175	430	220	600	150	200	1 ÷ 12	250
CY-S 1550	500	600	1600	1200	300	410	200	600	150	200	1 ÷ 12	190
CY-S 250	500	600	2200	1600	500	410	200	600	150	200	1 ÷ 12	190
CY-S 275	750	900	2200	1600	500	430	220	600	150	200	1 ÷ 12	170
CY-SC 390	900	1200	3200	2600	500	430	220	550	150	200	1 ÷ 12	170
CY-SC 490	900	1200	4200	3600	500	430	220	550	150	200	1 ÷ 12	170
CY-SC 3120	1200	1600	3200	2600	500	430	220	750	150	200	1 ÷ 12	180
CY-SC 4120	1200	1600	4200	3600	500	430	220	750	150	200	1 ÷ 12	180
CY-SC 3160	1600	2000	3200	2600	500	430	220	750	150	200	1 ÷ 12	200
CY-SC 3200	2000	2500	3200	2600	500	510	300	750	150	200	1 ÷ 12	200
CY-SC 4200	2000	2500	4200	3600	500	510	300	750	150	200	1 ÷ 12	200
CY-SC 5200	2000	2500	5200	4200	500	510	300	750	200	200	1 ÷ 12	200
CY-SC 6200	2000	2500	6200	5200	500	510	300	750	200	200	1 ÷ 12	200
CY-SC 3300	3000	3500	3200	2600	500	560	300	750	200	150	1 ÷ 12	150
CY-SC 4300	3000	3500	4200	3600	500	560	300	750	200	150	1 ÷ 12	150
CY-SC 5300	3000	3300	5200	4200	500	560	300	750	200	150	1 ÷ 12	150
CY-SC 6300	3000	3300	6200	5200	500	560	300	750	200	150	1 ÷ 12	150
CY-SC 4400	4000	4500	4200	3600	500	660	400	750	200	150	1 ÷ 12	150
CY-SC 5400	4000	4500	5200	4200	500	660	400	750	200	150	1 ÷ 12	150
CY-SC 6400	4000	4500	6200	5200	500	660	400	750	200	150	1 ÷ 12	150

Model	Rated Force	Max Power	Bending Length	Distance between Frames	Gap	Distance between Ram & Bench	Cylinder Stroke	X-axis Stroke	X5 axis stroke	R-axis Stroke	Z1-Z2 axes Stroke	Approach Speed
	L	P	I	H								
	kN	kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CY-HL 3120	1200	1600	3200	2600	500	710	350	800	± 150	150	2900	200
CY-HL 4120	1200	1600	4200	3600	500	710	350	800	± 150	150	2900	200
CY-HL 3160	1600	2000	3200	2600	500	710	350	800	± 150	150	2900	200
CY-HL 3200	2000	2500	3200	2600	500	760	400	800	± 150	150	2900	200
CY-HL 4200	2000	2500	4200	3600	500	760	400	800	± 150	150	2900	200
CY-HL 3300	3000	3500	3200	2600	500	760	400	800	± 150	200	2900	140
CY-HL 4300	3000	3500	4200	3600	500	760	400	800	± 150	200	2900	140
CY-HL 4400	4000	4500	4200	3600	500	760	400	800	± 150	200	2900	120

Overall Dimensions			Main Motor Power	Approx. weight
A	B	C		
mm	mm	mm	Kw	Kg
2265	1450	2822	5	7940
3000	1450	2500	7,5	9260
3500	1700	2600	7,5	9920
3500	1750	2650	7,5	13890
4500	1900	2800	9,2	22270
5500	1900	2800	9,2	27340
4500	2000	2850	11	28000
5500	2000	2850	11	31970
4500	2050	2850	15	30865
4500	2150	3200	18,5	40125
5500	2150	3200	18,5	47620
6500	2150	3200	18,5	56440
7500	2150	3300	18,5	64155
4500	2300	3400	22	49605
5500	2300	3400	22	58865
6500	2300	3500	22	68345
7500	2300	3600	22	73855
5500	2400	3550	30	66140
6500	2400	3550	30	77160
7500	2400	3600	30	90390

Working Speed	Return Speed	Overall Dimensions			Main Motor Power	Approx weight
		A	B	C		
mm/sec	mm/sec	mm	mm	mm	Kw	Kg
1 ÷ 12	180	4500	2150	3150	13	12800
1 ÷ 12	180	5500	2150	3150	13	15300
1 ÷ 12	200	4500	2150	3150	17	15000
1 ÷ 12	200	4500	2150	3450	21	19200
1 ÷ 12	200	5500	2150	3450	21	22100
1 ÷ 12	150	4500	2300	3650	25	23500
1 ÷ 12	150	5500	2300	3650	25	28000
1 ÷ 12	140	5500	2400	3700	33	31200





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CYLASER AMERICA LLC  
6110 15 Mile Road, Sterling Heights, Michigan 48312  
P +1 586 983 9282 - F +1 586 314 4173  
info@cy-laser.us - www.cy-laser.us