



CNC Press Brake HPB

Stronger, faster and deeper bends

The HPB is perfect for complicated, sensitive, single or multiple bendings at high speed. This machine is among the highest rated machines for helping to increase productivity and lower costs with a user-friendly CNC controller and low-cost hydraulic maintenance. It allows you to have more production capacity and eliminates wasted time on production.

Combination of speed and power

- High quality and repetitive bending is obtained by using synchronized cylinders and valves
- Automatic utilization of all axes on startup
- These machines are designed using SOLID WORKS 3D programming and made with



- enhanced ST44-1 quality steel using the latest technology
- Rigid upper beam runs on 8-point bearings with bending precision of 0.01 mm (0.0004")
- Well-known top and bottom tool brands are long lasting and hardened to provide precise bending
- Quiet high-pressure pump

Sliding front support arms

Height is adjustable.

Quick release clamping system

Promecam type top clamps are easily loaded and unloaded.

Rigid structure

- ↓ High Approach Speed
- High Bending Speed
- ↑ High Return Speed

Specifications		1040	2160	26135
		3' x 44 ton	6' x 65 ton	8' x 150 ton
Bending length	mm	1000 (39.4")	2100 (83")	2600 (102")
Tonnage	ton	40 (44 tons)	60 (65 ton)	135 (150 ton)
Distance between columns	mm	800 (31.5")	1700 (67")	2200 (87")
Ram rapid speed	mm/s	110 (4.3"/sec)	200 (7.8"/s)	160 (6.3"/s)
Ram working speed	mm/s	11 (0.4"/sec)	14 (0.5"/s)	10 (0.4"/s)
Ram return speed	mm/s	105 (4.1"/sec)	165 (6.5"/s)	120 (4.7"/s)
Backgauge travel	mm	500 (19.7")	800 (31")	800 (31")
Backgauge speed	mm/s	230 (9"/s)	230 (9"/s)	230 (9"/s)
Backgauge finger blocks	#	2	2	2
Sheet support arms	#	2	2	2
Oil capacity	l	60 (15.9 gal)	150 (39 gal)	200 (52 gal)
Main drive motor	kW	4 (5.5 Hp)	7.5 (10 Hp)	11 (15 Hp)
Stroke	mm	100 (3.9")	275 (10.8")	275 (10.8")
Daylight	mm	307 (12.1")	530 (20.8")	550 (21.6")
Throat depth	mm	250 (9.8")	410 (16")	410 (16")
Table height	mm	800 (31.5")	900 (35")	900 (35")
Table width	mm	89 (3.5")	90 (3.5")	90 (3.5")
Dimensions (L/W/H)	mm	2300x1950x1860 (91x77x73")	3250x1960x2750 (128x77x108")	3750x2050x2800 (147x81x110")
Weight	kg	1850 (4,080 lbs)	5650 (12,450 lbs)	8250 (18,190 lbs)
Item No.		91222022	9122101	9122102

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3 axis (Y1, Y2, X) standard
 4 axis (Y1, Y2, X, R)
 6 axis (Y1, Y2, X, R, Z1, Z2)
 8 axis (Y1, Y2, X, R, Z1, Z2, X1, X2)
 Servo motorized backgauge.

Specially designed and produced backgauges help with multi-functional and complex bending.

CNC controlled servo drive high precision ball screws.

Standard configuration

- ✓ Front support arms adjustable for height & spacing
- ✓ Top and bottom tools are surface hardened
- ✓ Promecam quick clamping system
- ✓ CYBELEC DNC 600S controller with PC1200 2D software
- ✓ CNC controlled 800mm (31") back gauge
- ✓ 410 mm (16") throat depth
- ✓ 2-piece back gauge fingers
- ✓ Scales in metric and inches
- ✓ Foot pedal is suitable for single and multiple bendings
- ✓ 2 photocells are placed facing each other for rear and side guards
- ✓ Covers for cylinders and top beam

Your best bending solution

You can bend longer and deeper parts with maximum repeatability with KAAST HPB machines.

Backgauge fingers

Specially designed foldable backgauge fingers

SICK C 2000 rear light guard

CE standard safety protection help you work in safer conditions.



Backgauge system

The HPB offers you motorized X-axis backgauge and manual R-axis as standard.



4 axis (X, R, Z1, Z2) servo motorized back gauge (option)

Backgauge positioning with 0.01 mm (0.0004") accuracy.

Specifications		31135	31175	31220	31320
		10' x 150 ton	10' x 190 ton	10' x 240 ton	10' x 350 ton
Bending length	mm	3100 (122")			
Tonnage	ton	135 (150 ton)	175 (190 ton)	220 (240 ton)	320 (350 ton)
Distance between columns	mm	2600 (102")			
Ram rapid speed	mm/s	200 (7.8"/s)	180 (7"/s)		140 (5.5"/s)
Ram working speed	mm/s	10 (0.4"/s)		11 (0.4"/s)	10.5 (0.4"/s)
Ram return speed	mm/s	120 (4.7"/s)	135 (5.3"/s)	160 (6.3"/s)	150 (5.9"/s)
Backgauge travel	mm	800 (31")			
Backgauge speed	mm/s	230 (9"/s)			
Backgauge finger blocks	#	2			
Sheet support arms	#	2			
Oil capacity	l	200 (52 gal)		300 (79 gal)	400 (105 gal)
Main drive motor	kW	11 (15 Hp)	15 (20 Hp)	18.5 (25 Hp)	30 (40 Hp)
Stroke	mm	275 (10.8")			375 (14.75")
Daylight	mm	550 (21.6")			650 (25.5")
Throat depth	mm	410 (16")			
Table height	mm	900 (35")			
Table width	mm	90 (3.5")		200 (7.8")	240 (9.4")
Dimensions (L/W/H)	mm	4250x2050x2800 (167x81x110")	4250x2150x2800 (167x85x110")	4550x2250x2850 (179x89x112")	4550x2450x3200 (179x97x126")
Weight	kg	8650 (19,070 lbs)	9450 (20,830 lbs)	11500 (25,350 lbs)	16800 (37,030 lbs)
Item No.		9122103	9122104	9122105	9122106

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Cutting

Turning

Milling

Drilling/Boring

Grinding

Sawing

Fabricating
 Brakes • Shears • Ironworkers • Rolls • Presses • Other



Your best bending solution

- ✓ Precise results for long and deep bends
- ✓ Flexibility with crowning system
- ✓ Long lasting rigid body is also suitable for heavy duty applications
- ✓ Easy maintenance



General features

- Chrome coated cylinders are machined with 0.001 mm (0.00004") precision and pistons are specially hardened.
- Clamps are user friendly and machined with high precision.
- Front support arms slide along machine length and are easy to adjust.
- Compact and well-known brand HOERBIGER hydraulics are produced according to CE standards.
- Two photocells are on the sides for rear guard.
- Fast tool tightening.
- Optic linear scales are sensitive up to ± 0.01 mm (0.0004").

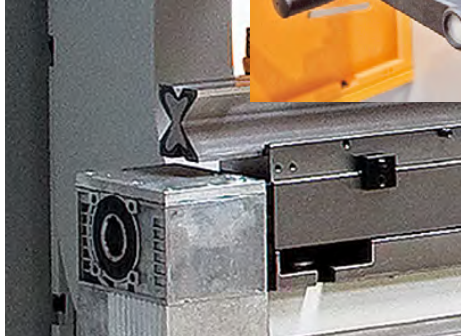
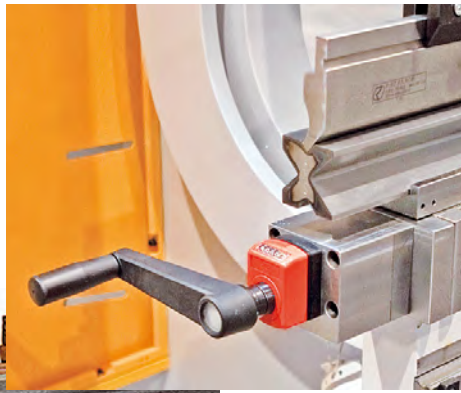
- Quick release clamping system. Promecam type top clamps can be easily loaded & unloaded.
- Synchronized working cylinders will give you the best bending result.
- 2 axis ultra strong backgauge system (X=800 mm (31") and R), with ± 0.01 mm (0.0004") repeatability, moves along rails and ball screw, bending length controlled by CNC controller, foldable backgauge fingers for reverse bending applications.
- Multi-functional and highly programmable 2D CYBELEC DNC 600 CNC controller.
- SIEMENS electrical system.
- Automatic axis referencing when machine is turned on.
- Side guard is standard, meeting CE regulations.

Optional configuration

- Special stroke and throat depth
- Special back gauge fingers
- Motorized crowning system
- Hydraulic oil heating and cooling
- Custom made table width and bottom tool V openings
- Optional top and bottom tools in different lengths
- Special tools for box and pole bending
- Laser front safety options
- WILA top clamping and bottom tool holders
- Rol 1 and Rol 5 quick promecam release
- U type special bottom tools for bending thick materials
- Additional front support arms
- AP3/AP4 front sheet support arms

Specifications		37175 12' x 190 ton	37220 12' x 240 ton	37320 12' x 350 ton	41500 13' x 550 ton
Bending length	mm	3760 (148")			4100 (161")
Tonnage	ton	175 (190 ton)	220 (240 ton)	320 (350 ton)	500 (550 ton)
Distance between columns	mm	3250 (128")			3400 (139")
Ram rapid speed	mm/s	180 (7"/s)			80 (3.1"/s)
Ram working speed	mm/s	10 (0.4"/s)	11 (0.4"/s)	10.5 (0.4"/s)	7.4 (0.3"/s)
Ram return speed	mm/s	135 (5.3"/s)	160 (6.3"/s)	150 (5.9"/s)	65 (2.6"/s)
Backgauge travel	mm	800 (31")			1000 (39")
Backgauge speed	mm/s	230 (9"/s)			230 (9"/s)
Backgauge finger blocks	#	2			2
Sheet support arms	#	2			2
Oil capacity	l	200 (52 Gal)	300 (79 Gal)	400 (105 Gal)	500 (132 gal)
Main drive motor	kW	15 (20 Hp)	18.5 (25 Hp)	30 (40 Hp)	30 (40 Hp)
Stroke	mm	275 (10.8")			375 (14.7")
Daylight	mm	550 (21.6")			675 (27")
Throat depth	mm	410 (16")			510 (20")
Table height	mm	900 (35")			1100 (43")
Table width	mm	90 (3.5")	160 (6.3")	220 (8.6")	350 (13.7")
Dimensions (L/W/H)	mm	4900x2150x2800 (193x85x110")	5100x2250x2900 (200x88x114")	5100x2450x3150 (200x96x124")	5450x2650x3850 (215x104x152")
Weight	kg	10950 (24,140 lbs)	12600 (27,780 lbs)	20000 (44,090 lbs)	32300 (71,210 lbs)
Item No.		9122107	9122108	9122109	zhpb41500

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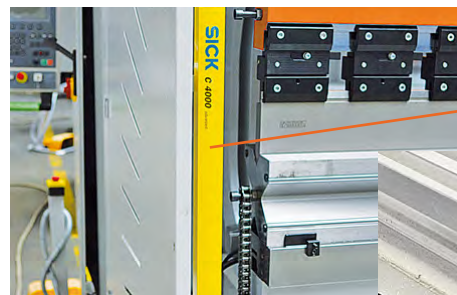
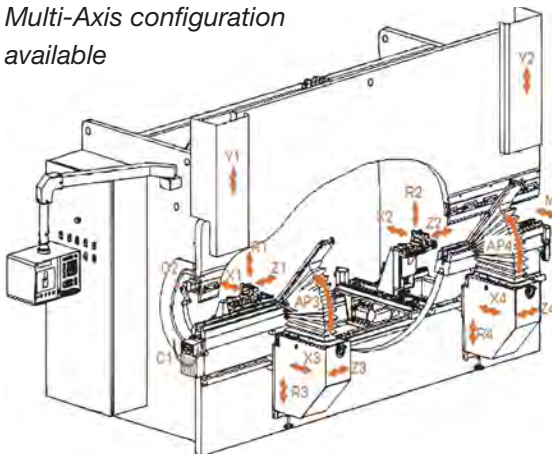


Optional Manual Crowning System (above) and CNC Motorized Crowning System (left)



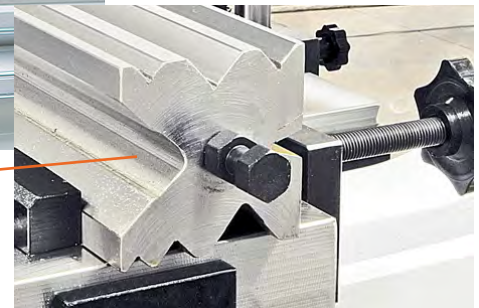
Promecam Top Tool Clamping System

Multi-Axis configuration available



SICK Light Barrier

Multi-V Bottom Tool (# of V's dependent on size)



Specifications		42135 14' x 150 ton	42220 14' x 240 ton	42400 14' x 440 ton	61320 20' x 350 ton	61400 20' x 440 ton
Bending length	mm	4270 (168")		6100 (240")		
Tonnage	ton	135 (150 ton)	220 (240 ton)	400 (440 ton)	320 (350 ton)	400 (440 ton)
Distance between columns	mm	3780 (149")		5100 (200")		
Ram rapid speed	mm/s	200 (7.8"/s)	180 (7"/s)	110 (4.3"/s)	80 (3.1"/s)	
Ram working speed	mm/s	10 (0.4"/s)	11 (0.4"/s)	8.4 (0.3"/s)	10.5 (0.4"/s)	8.4 (0.3"/s)
Ram return speed	mm/s	120 (4.7"/s)	160 (6.3"/s)	130 (5.1"/s)	75 (3"/s)	65 (2.5"/s)
Backgauge travel	mm	800 (31")		1000 (39")	800 (31")	1000 (39")
Backgauge speed	mm/s	230 (9"/s)			230 (9"/s)	
Backgauge finger blocks	#	2			4	
Sheet support arms	#	2			4	
Oil capacity	l	200 (52 gal)	300 (79 gal)	400 (105 gal)	400 (105 gal)	
Main drive motor	kW	11 (15 Hp)	18.5 (25 Hp)	30 (40 Hp)	30 (40 Hp)	
Stroke	mm	275 (10.8")		375 (14.7")	375 (14.7")	
Daylight	mm	550 (21.6")		650 (25.5")	650 (25.5")	
Throat depth	mm	410 (16")		510 (20")	410 (16")	510 (20")
Table height	mm	900 (35")		1000 (39")	1100 (43")	
Table width	mm	90 (3.5")	160 (6.3")	220 (8.6")	180 (7")	200 (7.8")
Dimensions (L/W/H)	mm	5280x2150x2800 (207x84x110")	5320x2250x3000 (209x104x136")	5600x2650x3470 (220x104x136")	7500x2450x3350 (295x96x131")	7650x2650x3750 (301x104x147")
Weight	kg	10950 (24,140 lbs)	14600 (32,190 lbs)	26550 (58,530 lbs)	30900 (68,120 lbs)	39700 (87,520 lbs)
Item No.		9122110	9122111	9122112	9122113	9122114

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