



Profile bending machine PBH 160 • 180 • 300

Machine for circular bending
of metal profiles



Standard configuration

- Modular hardened bending rolls
- Sturdy welded steel construction
- Mobile control panel
- 2 bending speeds
- Tool kit
- Digital display (2 axes)
- Hydraulic guide rollers adjustable in 3 axes
- Operation manual

- Digital display for the side roller positions
- Horizontal or vertical orientation of the machine
- 2 hydraulically adjustable bottom rollers
- 3 rollers are driven by hydraulic motors and planetary gear
- Hardened shafts from special steel

Optional configuration

- Special dies
- Oil/air cooling
- Variable speed
- NC EasyView control

Specifications		PBH		
		160	180	300
		6.3" shaft Ø	7" shaft Ø	11.8" shaft Ø
Shaft diameter	mm	Ø160 (6.3")	Ø180 (7")	Ø300 (11.8")
Roll diameter	mm	Ø470 (18.5")	Ø560 (22")	Ø800 (31.5")
Main drive motor	kW	22 (30 Hp)	30 (40 Hp)	73 (100 Hp)
Bending speed	m/min	2-4 (78-160"/min)	3-6 (118-235"/min)	2-4 (78-160")
Dimensions (L/W/H)	mm	2500x2150x2100 (99x85x83")	3000x2200x2200 (120x87x87")	4000x4300x3300 (158x170x130")
Weight	kg	10700 (23,500 lbs)	12000 (26,400 lbs)	40000 (88,000 lbs)
Item No.		9312007	9312008	9312011

Model			PBH						Scope
No	Profile type	Unit	160		180		300		
			Dimensions	Min. bending diameter	Dimensions	Min. bending diameter	Dimensions	Min. bending diameter	
1		mm	90 (3.5") 30 (1.2")	Ø1500 (60") Ø700 (28")	110 (4.3")	Ø2000 (78")	180 (7")	Ø2500 (98")	+
2		mm	140x40 (5.5x1.5") 50x10 (2x0.4")	Ø2500 (99") Ø700 (28")	180x30 (7x1.2")	Ø2500 (98")	250x10 (10x4")	Ø3000 (120")	+
3		mm	280x50 (11x2") 120x15 (4.75x0.6")	Ø2000 (78") Ø700 (28")	280x60 (11x2.4")	Ø2000 (78")	500x100 (20x4")	Ø2500 (98")	+
4		mm	UPN 300 (12")	Ø2000 (78")	UPN 350 (13.75")	Ø2500 (98")	UPN 550 (21.5")	Ø3500 (138")	+
5		mm	UPN 300 (12")	Ø2500 (99")	UPN 350 (13.75")	Ø3000 (120")	UPN 550 (21.5")	Ø4000 (158")	+
6		mm	150x15 (6x0.6")	Ø2000 (78")	160x20 (6.3x0.75")	Ø2500 (98")	250x25 (10x1")	Ø3000 (120")	+
7		mm	150x15 (6x0.6")	Ø2000 (78")	160x20 (6.3x0.75")	Ø2500 (98")	250x25 (10x1")	Ø3000 (120")	+
8		mm	130x15 (5.1x0.6")	Ø2500 (99")	150x20 (6x0.75")	Ø3000 (120")	220x22 (8.6x0.8")	Ø4000 (158")	+
9		mm	120x120x8 (4.75x4.75x0.3") 40x3 (1.5x0.12")	Ø3000 (120") Ø700 (28")	150x150x8 (6x6x0.3")	Ø4500 (177")	260x260x14 (10x10x0.5")	Ø8000 (315")	⊕
10		mm	150x50x5 (6x2x0.2") 60x30x3 (2.4x1.2x0.12")	Ø3000 (120") Ø700 (28")	200x100x8 (8x4x0.3")	Ø5000 (196")	400x200x10 (15.75x7.8x0.4")	Ø10000 (400")	⊕
11		mm	Ø90 (3.5") Ø30 (1.2")	Ø1800 (72") Ø700 (28")	Ø110 (4.3")	Ø2000 (78")	Ø200 (7.8")	Ø5000 (197")	⊕
12		mm	Ø150x4 (6x0.15") Ø30x2 (1.2x0.08")	Ø3000 (120") Ø700 (28")	Ø200x4 (8x0.15")	Ø8000 (315")	Ø350x6 (13.75x0.25")	Ø10000 (400")	⊕
13		mm	Ø6x7 (0.23x0.28") Ø1x3.8 (0.03x0.15")	Ø3000 (120") Ø700 (28")	Ø8x7.6 (0.31x0.3")	Ø4000 (157")	Ø12x12.7 (0.47x0.5")	Ø8000 (315")	⊕
14		mm	150x18 (6x0.7") 50x5 (2.0x2")	Ø2200 (87") Ø70 (28")	180x20 (7x0.75")	Ø2500 (98")	250x25 (10x1")	Ø4000 (158")	⊕
15		mm	150x15 (6x0.6") 50x5 (2x0.2")	Ø3000 (120") Ø700 (28")	180x15 (7x0.75")	Ø3000 (120")	250x20 (10x1")	Ø4500 (178")	⊕
16		mm	IPN 300 (12")	Ø2500 (99")	IPN 360 (14")	Ø3000 (120")	IPN 550 (21.5")	Ø4000 (158")	⊕
17		mm	HEB 180 (7") HEA 180 (7")	Ø3000 (120") Ø2000 (78")	HEB 200 (8")	Ø2500 (98")	HEB 500 (20")	Ø5000 (197")	⊕
18		mm	UPN 160 (6.3") UPN 80 (3.1")	Ø5000 (196") Ø2000 (78")	UPN 220 (8.5")	Ø8000 (315")	UPN 300 (12")	Ø15000 (590")	⊕
19		mm	IPN 180 (7") IPN 100 (4")	Ø4000 (157") Ø2000 (78")	IPN 220 (8.5")	Ø5000 (196")	IPN 360 (14") HEB 280 (11")	10000 (400") 10000 (400")	⊕

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Ring and profile bending machine

PBH 100 • 120

Machine for circular bending of metal profiles

- ### Optional configuration
- Special dies
 - Infinitely adjustable bending speed
 - Oil/air cooling
 - NC EasyView control

- All movements, processes and commands of the operator during the bending process can be recorded in the teach-in mode and then recalled and played back automatically at any time
- To achieve the required bending results, all stored data can be edited
- Memory for 48 bending programs with 1000 steps each
- Digital display for the side roller positions
- Horizontal or vertical machine orientation
- Hydraulic adjustable bottom rolls
- 3 rollers are driven by hydraulic motors and planetary gears
- Hardened shafts



Standard configuration

- Standard bending rolls
- Sturdy welded steel construction
- Mobile control panel
- 2 bending speeds
- Tool kit
- Digital display (2 axes)
- Hydraulic guide rollers adjustable in 3 axes (PBH 120)
- Mechanical adjustment (PBH 100)
- Operation manual

Specifications	PBH	
	100	120
	3.9" shaft Ø	4.75" shaft Ø
Shaft diameter	mm Ø100 (3.9")	mm Ø120 (4.75")
Roll diameter	mm Ø315 (12.5")	mm Ø390 (15.4")
Main drive motor	kW 7.5 (10 Hp)	15 (20 Hp)
Bending speed	m/min 7 (275"/min)	2-7.5 (78-295"/min)
Dimensions (L/W/H)	mm 1465x2000x1700 (58x79x67")	2000x1650x1900 (79x65x75")
Weight	kg 3650 (8,000 lbs)	4770 (10,400 lbs)
Item No.	9312005	9312006

No	Model	Profile type	Unit	PBH			Scope of supply	
				100	120	120		
			Dimensions	Min. bending diameter	Dimensions	Min. bending diameter		
1			mm	60 (2.4") 15 (0.6")	Ø750 (30") Ø400 (16")	65 (2.5") 20 (0.75")	Ø750 (30") Ø500 (20")	+
2			mm	100x20 (4x0.75") 30x10 (1.2x0.4")	Ø1000 (40") Ø400 (16")	125x20 (5x0.75") 30x10 (1.2x0.4")	Ø1200 (48") Ø500 (20")	+
3			mm	160x35 (6.3x1.3") 80x5 (3.1x0.2")	Ø800 (32") Ø400 (16")	180x40 (7x1.5") 100x10 (4x0.4")	Ø1000 (40") Ø500 (20")	+
4			mm	UPN 160 (6.3") UPN 30 (1.2")	Ø800 (32") Ø400 (16")	UPN 180 (7") UPN 40 (1.5")	Ø800 (32") Ø500 (20")	+
5			mm	UPN 160 (6.3") UPN 30 (1.2")	Ø800 (32") Ø400 (16")	UPN 180 (7") UPN 40 (1.5")	Ø800 (32") Ø500 (20")	+
6			mm	100x11 (4x0.4") 30x4 (1.2x0.15")	Ø1000 (40") Ø400 (16")	100x11 (4x0.4") 30x4 (1.2x0.15")	Ø800 (32") Ø500 (20")	+
7			mm	100x11 (4x0.4") 30x4 (1.2x0.15")	Ø1000 (40") Ø400 (16")	100x11 (4x0.4") 30x4 (1.2x0.15")	Ø800 (32") Ø500 (20")	+
8			mm	90x10 (3.5x0.4") 30x4 (1.2x0.15")	Ø1000 (40") Ø400 (16")	100x11 (4x0.4") 30x4 (1.2x0.15")	Ø1000 (40") Ø500 (20")	+
9			mm	80x5 (3.1x0.2") 25x2 (1x0.08")	Ø1500 (60") Ø450 (18")	90x5 (3.5x0.2") 30x3 (1.2x0.12")	Ø1800 (71") Ø500 (20")	⊕
10			mm	100x40x4 (4x1.5x0.15") 25x15x2 (1x0.6x0.08")	Ø1300 (52") Ø450 (18")	120x40x4 (4.75x1.5x0.15") 30x20x3 (1.2x0.75x0.12")	Ø1800 (71") Ø500 (20")	⊕
11			mm	Ø75 (3") Ø15 (0.6")	Ø800 (32") Ø450 (18")	Ø80 (3.1") Ø20 (0.75")	Ø850 (34") Ø500 (20")	⊕
12			mm	Ø125x2.5 (5x0.1") Ø15x1 (0.6x0.04")	Ø1400 (56") Ø450 (18")	Ø140x3 (5.5x0.12") Ø20x1 (0.75x0.04")	Ø1500 (60") Ø500 (20")	⊕
13			mm	Ø4x6.35 (0.15x0.25") Ø0.5x2.5 (0.01x0.1")	Ø1000 (40") Ø450 (18")	Ø5x6.35 (0.19x0.25") Ø0.75x2.5 (0.03x0.1")	Ø1500 (60") Ø500 (20")	⊕
14			mm	100x100x12 (4x4x0.5") 40x40x4 (1.5x1.5x0.15")	Ø1000 (40") Ø700 (28")	120x120x12 (4.7x4.7x0.5") 40x40x4 (1.5x1.5x0.15")	Ø1200 (48") Ø600 (24")	⊕
15			mm	100x100x12 (4x4x0.5") 40x40x4 (1.5x1.5x0.15")	Ø1000 (40") Ø550 (22")	100x100x10 (4x4x0.4") 40x40x4 (1.5x1.5x0.15")	Ø1500 (60") Ø600 (24")	⊕
16			mm	IPN 180 (7") IPN 80 (3.1")	Ø1000 (40") Ø400 (16")	IPN 200 (8") IPN 80 (3.1")	Ø1200 (48") Ø500 (20")	⊕
17			mm	HEB 100 (4") HEA 100 (4")	Ø1200 (48") Ø2000 (78")	HEB 120 (4.75") HEA 140 (5.5")	Ø1200 (48") Ø1200 (48")	⊕

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Material: St. 37. + = Standard bending rolls. ⊕ = Special-design bending rolls.

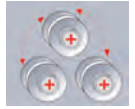


Ring and profile bending machine

PBH 50 • 65 • 80

Machine for circular bending of metal profiles

- 3 roll drive standard
- 2 hydraulically adjustable bottom rollers



Standard configuration

- Modular hardened bending rolls
- Sturdy welded steel construction
- Mobile control panel
- Tool kit
- Digital display (2 axes)
- Mechanical guide rollers adjustable in 3 axes
- Operation manual



Optional configuration

- Special dies
- Oil/air cooling
- Infinitely adjustable bending speed
- Hydraulic guide rollers

Specifications	PBH		
	50	65	80
	2" shaft Ø	2.4" shaft Ø	3.1" shaft Ø
Upper roll shaft diameter	mm Ø50 (2")	Ø60 (2.4")	Ø80 (3.1")
Lower roll shaft diameter	mm Ø50 (2")	Ø50 (2")	Ø70 (2.75")
Upper roll diameter	mm Ø152 (6")	Ø180 (7")	Ø245 (9.6")
Side rolls diameter	mm Ø162 (6.3")	Ø180 (7")	Ø245 (9.6")
Main drive motor	kW 1.1 (1.5 Hp)	3 (4 Hp)	4 (5 Hp)
Bending speed	m/min 4.5 (180"/min)	5 (200"/min)	6 (235"/min)
Dimensions (L/W/H)	mm 810x950x1500 (32x38x59")	820x645x1045 (33x26x42")	950x1400x1300 (38x56x52")
Weight	kg 510 (1,100 lbs)	1000 (2,200 lbs)	1700 (3,700 lbs)
Item No.	9312001	9312003	9312004
Item No. (NC control)		9322003	9322004

Model			PBH						Scope of supply
No	Profile type	Unit	50	65	80	50	65	80	
			Dimensions	Min. bending diameter	Dimensions	Min. bending diameter	Dimensions	Min. bending diameter	
1		mm	35x35 (1.4x1.4") 15x15 (0.6x0.6")	Ø600 (24") Ø300 (12")	32x32 (1.25x1.25") 12x12 (0.5x0.5")	Ø400 (16") Ø250 (10")	45x45 (1.75x1.75") 15x15 (0.6x0.6")	Ø500 (20") Ø380 (15")	+
2		mm	60x10 (2.4x0.4") 20x10 (0.75 x0.4")	Ø600 (24") Ø300 (12")	60x10 (2.4x0.4") 20x5 (0.75x0.2")	Ø500 (20") Ø250 (10")	80x15 (3.1x0.6") 30x10 (1.2x0.4")	Ø700 (28") Ø300 (12")	+
3		mm	100x15 (4x0.6") 50x10 (2x0.4")	Ø600 (24") Ø300 (12")	80x20 (3.1x0.75") 50x5 (2x0.2")	Ø500 (20") Ø250 (10")	125x25 (5x1") 60x5 (2.4x0.2")	Ø600 (24") Ø300 (12")	+
4		mm	UPN 80 (3.1") UPN 30 (1.2")	Ø800 (32") Ø400 (16")	UPN 80 (3.1") UPN 30 (1.2")	Ø600 (24") Ø250 (10")	UPN 100 (4") UPN 30 (1.2")	Ø600 (24") Ø300 (12")	+
5		mm	UPN 80 (3.1") UPN 30 (1.2")	Ø1200 (48") Ø600 (24")	UPN 65 (2.5") UPN 30 (1.2")	Ø600 (24") Ø250 (10")	UPN 100 (4") UPN 30 (1.2")	Ø500 (20") Ø300 (12")	+
6		mm	-	-	60x7 (2.4x0.27") 20x3 (0.75x0.12")	Ø500 (20") Ø250 (10")	80x9 (3.1x0.35") 30x4 (1.2x0.15")	Ø800 (32") Ø300 (12")	+
7		mm	60x7 (2.4x0.27") 30x4 (1.2x0.15")	Ø800 (32") Ø500 (20")	60x7 (2.4x0.27") 20x3 (0.75x0.12")	Ø500 (20") Ø250 (10")	80x9 (3.1x0.35") 25x3.5 (1x0.14")	Ø800 (32") Ø280 (11")	+
8		mm	50x6 (2x0.25") 30x4 (1.2x0.15")	Ø800 (32") Ø500 (20")	50x6 (2x0.25") 20x3 (0.75x0.12")	Ø500 (20") Ø250 (10")	70x8 (2.75x0.3") 25x3.5 (1x0.14")	Ø800 (32") Ø280 (11")	+
9		mm	50x3 (2x0.12") 20x2 (0.75x0.08")	Ø1600 (63") Ø400 (16")	45x3 (1.75x0.12") 20x2 (0.75x0.08")	Ø600 (24") Ø300 (12")	70x3 (2.75x0.1") 25x2 (1x0.08")	Ø1300 (51") Ø400 (16")	⊕
10		mm	70x30x3 (2.75x1.2x0.12") 30x15x2 (1.2x0.6x0.08")	Ø1500 (60") Ø400 (16")	50x25x3 (2x1x0.12") 20x15x2 (0.75x0.6x0.08")	Ø450 (18") Ø250 (10")	80x25x3 (3.1x1x0.1") 25x15x2 (1x1x0.08")	Ø800 (32") Ø350 (14")	⊕
11		mm	Ø35 (1.4") Ø20 (0.75")	Ø600 (24") Ø400 (16")	Ø35 (1.4") Ø10 (0.4")	Ø350 (14") Ø250 (10")	Ø50 (2") Ø15 (0.6")	Ø500 (20") Ø380 (14")	⊕
12		mm	Ø70x2 (2.75x0.08") Ø25x1.5 (1x0.06")	Ø1200 (48") Ø400 (16")	Ø60x2 (2.4x0.08") Ø15x1.5 (0.6x0.06")	Ø600 (24") Ø200 (8")	Ø100x2.5 (4x0.1") Ø15x1 (0.6x0.04")	Ø1200 (48") Ø380 (14")	⊕
13		mm	Ø51x2.8 (2x0.11") Ø1.2x2.3 (0.5x0.09")	Ø1000 (40") Ø300 (12")	Ø51x3.8 (2x0.15") Ø12.7x2.5 (0.5x0.1")	Ø400 (16") Ø200 (8")	Ø76x5 (3x0.2") Ø12.7x2.5 (0.5x0.1")	Ø800 (32") Ø380 (14")	⊕
14		mm	50x50x6 (2x2x0.25") 30x30x3 (1.2x1.2x0.12")	Ø600 (24") Ø400 (16")	60x60x6 (2.4x2.4x0.24") 30x30x4 (1.2x1.2x0.12)	Ø650 (26") Ø350 (14")	80x80x8 (3x3x0.3") 30x30x3 (1.2x1.2x0.12")	Ø800 (32") Ø450 (18")	⊕
15		mm	50x50x6 (2x2x0.25") 30x30x3 (1.2x1.2x0.12")	Ø900 (36") Ø600 (24")	50x50x5 (2x2x0.2") 30x30x4 (1.2x1.2x0.12")	Ø550 (22") Ø350 (14")	70x70x7 (2.75x2.75x0.27") 30x30x3 (1.2x1.2x0.12")	Ø700 (28") Ø450 (18")	⊕
16		mm	-	-	IPN 80 (3.1")	Ø600 (24")	IPN 120 (4.75") IPN 80 (3.1")	Ø600 (24") Ø400 (16")	⊕

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