

BENDING MACHINES SPB 48-60 MILLENNIUM SERIES

CE Approved

For bending pipe from 48" through 60"



SPB 48-60 Millennium Series
shown with optional cab

AVAILABLE ENGINES

ENGINE	CATERPILLAR*	PERKINS	DEUTZ
Net flywheel power (DIN 6271)	215 HP	205 HP	200 HP
Model	C6.6 ACERT	BF 6M 1013CP	6 CT 8.3C
Governed speed	1,900 rpm	1,900 rpm	1,900 rpm
Number of cylinders	6	6	6
Displacement	7.2 Liters	7.14 Liters	8.3 Liters
Bore x stroke	110 X 127 mm	106 x 130 mm	114 x 135 mm
Sound proofing type	yes	yes	yes

* Default engine

SHIPPING WEIGHT AND DIMENSIONS

Shipping Length	433" (11,000 mm)
Shipping Width	153.5" (3,900 mm)
Shipping Height	137.8" (3,500 mm)
Shipping Net Weight (Complete)	189,000 lb / 85,000 Kg
Operating Weight	189,000 lb / 85,000 Kg
Track Weight (Loose Pair)	18,900 lb / 8,500 kg
Hydraulic System Max. Operating Pressure	4,640 p.s.i. / 320 bar
Extra hydraulic control valves	2

SPECIFICATIONS



HYDRAULIC SYSTEM

Type	Variable flow, load sensing pump
Maximum oil flow	137 U.S. gal/min / 520 lt/min
Pressure	4,640 p.s.i. / 320 bar



CONTROLS

Type	5 valves, proportional directional
Control	Pilot operated



ELECTRIC SYSTEM

Voltage	12 V
Batteries in series, maintenance free	1
Total rating	100 Amp/hr
Alternator	30 Amperes
Starter	4 kW



WINCH

Type	Hydraulic drive
Motor	Orbital type
Line-pull	27,560 lb / 12,500 daN
Cable diameter	3/4" / 19 mm
Working pressure	2,030 p.s.i. / 140 bar
Speed at first layer	16 ft/min / 4.85 mt/min



UNDERCARRIAGE

Track chain type	Caterpillar D7F
Track/Carrier rollers	5
Gauge	98.5 in / 2,500 mm
Length of track on ground	72.9 in / 1,850 mm
Triple grouser shoe width	26"-36"/700-900 mm



CAPACITIES

Fuel tank	320 liters / 84.5 U.S. gal
Hydraulic system	460 liters / 120 U.S. gal

A New Machine For The New Millennium: SPB 48-60 Millennium Series

The SPB 48-60 "Millennium Series" is the biggest of the SUPERIOR fleet of benders. The machine is equipped with an excellent load sensing LUDV hydraulic system, which makes it unique and unprecedented on the market in terms of specifications. The proportional system enables the operator to "dose" bending power and speed, which is a very important feature when high-yield pipes are bent.

Thanks to its frame and the load-bearing structures that are sized to bear the highest pushes, the new SPB 48-60 also bends the most recent and robust pipes like the x-80 and x-100 pipes. The standard machine is equipped with quick disconnects for the hydraulic connection of the mandrel.

The new generation electronic injection Caterpillar engine supplies

more power, thus favoring and further enhancing the potential of the Bosch Rexroth system.

The new operator's platform has been redesigned for fitting the new cabin (optional), which offers great comfort. The controls have been repositioned in such a way as to give the operator a wider operating visibility.

One more roller guiding the pipe into the machine has been added to the front part of the machine so that management of large diameter and heavy pipes is easier. All the guiding rollers of the SUPERIOR fleet of benders are ball-bearing mounted in order to enable the roller to slide smoothly.

The long undercarriage pitch prevents the pressure exercised by the machine on the ground from increasing and keeps it at regular levels.

BENDING MACHINES SPB 48-60 MILLENNIUM SERIES

SPECIFICATIONS

Cylinder	Two Out-Board	Two In-Board	One Pin-Up
Bore	13.4" / 340 mm	9.8" / 250 mm	7" / 180 mm
Stroke	18.1" / 460 mm	7" / 180 mm	44" / 1120 mm
Max. Push	3,841,100 lb / 1,742,323 kg	1,116,457 lb / 506,425 kg	443,033 lb / 200,960 kg

Auxiliary Quick Disconnect	Size	Maximum Flow	Adj. Pressure
Aux-1	3/4"	42 U.S. gal/min / 160 liters/min	2,844 p.s.i. / 200 bar
Aux-2	1/2"	42 U.S. gal/min / 160 liters/min	2,844 p.s.i. / 200 bar

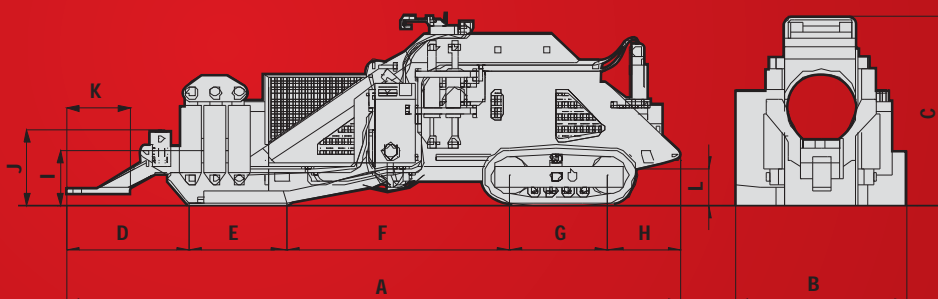
BENDING DATA (U.S.)

Pipe inch	Maximum Wall Thickness By Grade (Inch)							Recommended Bend		
	X52	X56	X60	X65	X70	X80	X100	Degree per Arc Foot	Radius Feet	Max Degree Per 40 Feet
48	2	2	2	2	2	2	1-11/16	0.50	115	10.50
50	2	2	2	2	2	2	1-1/2	0.50	115	10.50
52	2	2	2	2	2	1-3/4	1-3/8	0.50	115	10.50
54	2	2	2	2	1-7/8	1-5/8	1-1/4	0.50	115	10.50
56	2	2	2	1-7/8	1-3/4	1-1/2	1-3/16	0.50	115	10.50
58	2	2	1-7/8	1-3/4	1-9/16	1-3/8	1-1/16	0.50	115	10.50
60	2	1-7/8	1-3/4	1-5/8	1-7/16	1-1/4	1	0.50	115	10.50

BENDING DATA (METRIC)

Pipe O.D. inch/mm	Maximum Wall Thickness By Grade (Inch)							Recommended Bend		
	X52	X56	X60	X65	X70	X80	X100	Ratio Radius: O.D.	Radius Meter	Max Degree Per 12 Meters
48 / 1219.2	50.80	50.80	50.80	50.80	50.80	50.80	42.87	28.8	35.05	10.50
50 / 1270	50.80	50.80	50.80	50.80	50.80	50.80	38.10	27.6	35.05	10.50
52 / 1320.8	50.80	50.80	50.80	50.80	50.80	44.45	34.93	26.5	35.05	10.50
54 / 1371.6	50.80	50.80	50.80	50.80	47.63	41.28	31.75	25.5	35.05	10.50
56 / 1422.4	50.80	50.80	50.80	47.63	44.45	38.10	30.17	24.6	35.05	10.50
58 / 1473.2	50.80	50.80	47.63	44.45	36.69	34.93	26.99	23.8	35.05	10.50
60 / 1524	50.80	47.63	44.45	41.28	36.52	31.75	25.40	23.0	35.05	10.50

DIMENSIONS



A	11 m / 36'
B	3.9 m / 12.8'
C	3.5 m / 11.5'
D	2.55 m / 8.4'
E	1.65 m / 5.4'
F	3.9 m / 12.8'
G	1.8 m / 5.9'
H	1.1 m / 3.6'
I	90 cm / 2.95'
J	1.3 m / 4.3'
K	1.35 cm / 4.4'
L	40 cm / 1.3'



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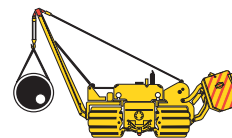
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