

BENDING MACHINES SPB 36-48 MILLENNIUM SERIES

CE Approved

For bending pipe from 36" through 48"



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	393.7" (10,000 mm)
Shipping Width	131.9" (3,350 mm)
Shipping Height	131.9" (3,350 mm)
Shipping Net Weight (Complete)	150,000 lb / 68,000 Kg
Operating Weight	150,000 lb / 68,000 Kg
Track Weight (Loose Pair)	15,555 lb / 7,000 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	118 U.S. gal/min / 440 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 36-48 Millennium Series

The pipe bending machine SPB 36-48 is one of the best-selling and more frequently tested machines of the SUPERIOR fleet. The design of the new SPB 36-48 "Millennium Series" has been further upgraded so that this machine can keep up and be in line with the machines belonging to the SUPERIOR fleet.

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 36-48 also bends the most recent and robust pipes like the x-80 and x-100 pipes. The new

generation electronic injection Caterpillar engine supplies more power, thus favoring and further enhancing the potential of the Bosch Rexroth system.

The operator's platform has been redesigned for fitting the new cabin (optional), which offers great comfort, especially when the machine is at work on projects where weather conditions are difficult. The controls have been repositioned in such a way as to give the operator a wider operating visibility.

The long undercarriage pitch prevents the pressure exercised by the machine on the ground from increasing and keeps it at regular levels. The standard machine is equipped with quick disconnects for the hydraulic connection of the mandrel.

BENDING MACHINES SPB 36-48 MILLENNIUM SERIES

SPECIFICATIONS

Cylinder	Two Out-Board	Two In-Board	One Pin-Up
Bore	11.8" / 300 mm	8.6" / 220 mm	7.8" / 200 mm
Stroke	18.1" / 460 mm	7" / 180 mm	41.3" / 1050 mm
Max. Push	1,993,650 lb / 904,320 kg	850,623 lb / 385,843 kg	221,516 lb / 100,480 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

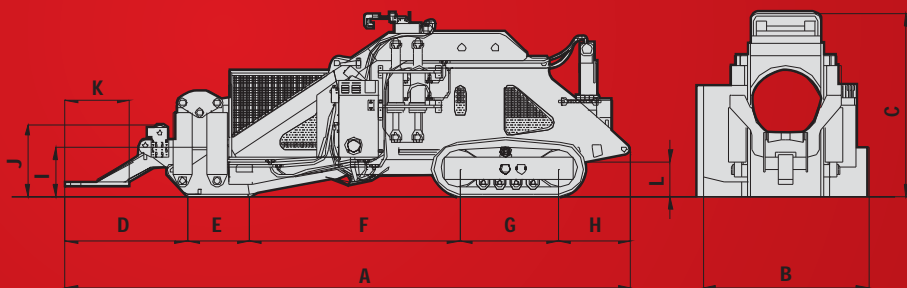
BENDING DATA (U.S.)

Pipe O.D. 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
36	2	2	2	2	2	2	1-3/4	0.50	115	12.75
38	2	2	2	2	2	2	1-9/16	0.50	115	12.75
40	2	2	2	2	2	1-3/4	1-3/8	0.50	115	12.75
42	2	2	2	2	1-13/16	1-9/16	1-3/16	0.50	115	12.75
44	2	2	1-15/16	1-3/4	1-5/8	1-3/8	1-1/16	0.50	115	12.75
46	2	1-7/8	1-11/16	1-9/16	1-7/16	1-1/4	1	0.50	115	12.75
48	1-13/16	1-11/16	1-9/16	1-7/16	1-5/16	1-1/8	7/8	0.50	115	12.75

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
36 / 914.4	50.80	50.80	50.80	50.80	50.80	50.80	44.45	38.3	35.05	12.75
38 / 965.2	50.80	50.80	50.80	50.80	50.80	50.80	39.69	36.3	35.05	12.75
40 / 1016	50.80	50.80	50.80	50.80	50.80	44.45	34.93	34.5	35.05	12.75
42 / 1066.8	50.80	50.80	50.80	50.80	46.04	39.69	30.17	32.9	35.05	12.75
44 / 1117.6	50.80	50.80	49.22	44.45	41.28	34.93	26.99	31.4	35.05	12.75
46 / 1168.4	50.80	47.63	42.87	39.69	36.52	31.75	25.40	30.0	35.05	12.75
48 / 1219.2	46.04	42.87	39.69	36.52	33.34	28.58	22.23	28.8	35.05	12.75

DIMENSIONS



A	10 m / 32.8'
B	3.35 m / 11'
C	3.35 m / 11'
D	2.21 m / 7.25'
E	1.7 m / 5.6'
F	3.23 m / 10.6'
G	1.79 m / 5.9'
H	1.07 m / 3.5'
I	82 cm / 2.7'
J	1.23 m / 4'
K	1.1 cm / 3.6'
L	30 cm / 11.8"



CONTACT INFORMATION

Main office – General inquiries SUPERIOR Manufacturing

16031 East Freeway
Channelview, TX 77530
U.S.A.
Phone 281.457.4400
Fax 281.452.5455
U.S. Toll Free 800.383.2666
Intl. Toll Free 800.9675.3948
pipeline@wwmach.com
www.worldwidemachinery.com

Italy office SUPERIOR Manufacturing

Via Roma, 18
San Pancrazio, Parma
Italy

Evan Greenberg
Vice-President of Intl. Operations

Worldwide offices Europe and Australia

Juergen Hafemann
Phone +49.0.231.963.3073 Germany
Phone +61.0.400.144.432 Australia
pipelinece@wwmach.com

India

Abhishek Bhotika
Phone +91.11.414.59230
pipelineind@wwmach.com

Africa

Evan Greenberg
Phone +1.281.452.5800
pipeline@wwmach.com

Russia, China and the Middle East

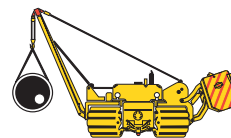
Sergio Braoude
Phone +39.349.198.1281 Italy
Phone +7.495.507.4827 Russia
fsupipeline@wwmach.com

Latin America

Salvador Villasana
Phone +52.81.8.394.0160
pipelinesa@wwmach.com

North America

Rick Layh
Phone +1.281.457.4400
pipelinena@wwmach.com



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