

BENDING MACHINES SPB 32-42 MILLENNIUM SERIES

CE Approved

For bending pipe from 32" through 42"



AVAILABLE ENGINES

ENGINE	CATERPILLAR*	PERKINS	DEUTZ
Net flywheel power (DIN 6271)	215 HP	152 HP	141 HP
Model	C6.6 ACERT	BF 6M 1013	6 BT 5.9C
Governed speed	1,900 rpm	1,900 rpm	1,900 rpm
Number of cylinders	6	6	6
Displacement	7.2 Liters	7.14 Liters	5.9 Liters
Bore x stroke	110 X 127 mm	108 x 130 mm	102 x 120 mm
Sound proofing type	yes	yes	yes

* Default engine

SHIPPING WEIGHT AND DIMENSIONS

Shipping Length	346.5" (8,800 mm)
Shipping Width	118.1" (3,000 mm)
Shipping Height	118.1" (3,000 mm)
Shipping Net Weight (Complete)	95,900 lb / 43,500 Kg
Operating Weight	43,500 kg / 95,900 lb
Track Weight (Loose Pair)	11,555 lb / 5,200 kg
Hydraulic System Max. Operating Pressure	4,350 p.s.i. / 300 bar
Extra hydraulic control valves	2

SPECIFICATIONS



HYDRAULIC SYSTEM

Type	Variable flow, load sensing pump
Maximum oil flow	90.4 U.S. gal/min / 342 lt/min
Pressure	4,350 p.s.i. / 300 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 D7
Track/Carrier rollers	5
Gauge	90 in / 2,300 mm
Length of track on ground	67 in / 1,700 mm
Triple grouser shoe width	24"-34"/650-850 mm



CAPACITIES

Fuel tank	250 liters / 66 U.S. gal
Hydraulic system	360 liters / 95 U.S. gal

A New Machine For The New Millennium: SPB 32-42 Millennium Series

The new pipe bending machine SPB 32-42 belongs to the "Millennium Series" fleet, which is the new generation of SUPERIOR pipe benders. Despite its simplicity, this machine guarantees high performances in terms of speed and push.

The hydraulic system has 5 spools; the fifth spool may be used to control the hydraulic mandrel, if fitted. The separate valves enable the operator to set the mandrel pressure independently from the machine. The hydraulic cylinders are sized in such a way that they can operate with pressures exceeding 300 bar.

The system design and the proportional valves offer excellent modularity and sensitivity of machine movements, at the same time making the machine speed and push very easy to control. The new position of the piloting platform and the engine com-

partment on opposite sides make this machine unique in terms of operating comfort and guarantee maximum visibility and low noise levels to the operator.

The SPB 32-42 is installed on tilting idle tracks. Its dimensions and low profile make its travel easy on any job site. The Caterpillar chains are equipped with three bar shoes, the rollers are life-long lubrication type, and the track tensioning device is greased type. All these elements guarantee maximum machine reliability and life over time.

On request, LGP tracks are available. These are longer and have larger shoes to operate on soft soils where low specific pressure on the ground is required.

BENDING MACHINES SPB 32-42 MILLENNIUM SERIES

SPECIFICATIONS

Cylinder	Two Out-Board	Two In-Board	One Pin-Up
Bore	10" / 250 mm	8.6" / 220 mm	7.8" / 200 mm
Stroke	15" / 390 mm	6.7" / 170 mm	29.1" / 740 mm
Max. Push	1,298,608 lb / 589,049 kg	872,665 lb / 395,841 kg	207,671 lb / 94,200 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

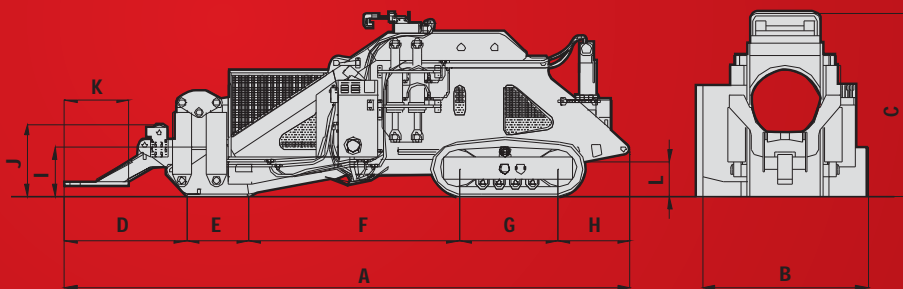
BENDING DATA (U.S.)

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
32	2	2	2	2	2	1-3/4	1-5/16	0.58	99	14.50
34	2	2	2	1-7/8	1-3/4	1-1/2	1-1/8	0.55	104	13.75
36	2	1-15/16	1-3/4	1-5/8	1-1/2	1-5/16	1	0.50	115	12.50
38	1-13/16	1-11/16	1-9/16	1-7/16	1-5/16	1-1/8	7/8	0.50	115	12.50
40	1-5/8	1-1/2	1-3/8	1-1/4	1-1/8	1	13/16	0.50	115	12.50
42	1-7/16	1-5/16	1-3/16	1-1/8	1	7/8	11/16	0.50	115	12.50

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
32 / 812.8	50.80	50.80	50.80	50.80	50.80	44.45	33.34	37.1	30.18	14.50
34 / 863.6	50.80	50.80	50.80	47.63	44.45	38.10	28.58	36.7	31.70	13.75
36 / 914.4	50.80	49.22	44.45	41.28	38.10	33.34	25.40	38.4	35.05	12.50
38 / 965.2	46.04	42.87	39.69	36.52	33.34	28.58	22.23	36.3	35.05	12.50
40 / 1016	41.28	38.10	34.93	31.75	28.58	25.40	20.64	34.5	35.05	12.50
42 / 1066.8	36.52	33.34	30.17	28.58	25.40	22.23	17.47	32.9	35.05	12.50

DIMENSIONS



A	8.8 m / 28.9'
B	3 m / 9.8'
C	3 m / 9.8'
D	2.11 m / 6.9'
E	1.35 m / 4.4'
F	2.92 m / 9.6'
G	1.5 m / 4.9'
H	92 cm / 3'
I	70 cm / 2.3'
J	1.1 m / 3.6'
K	1.05 cm / 3.4'
L	27 cm / 10.6"

CONTACT INFORMATION & DISCLAIMER

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



DISCLAIMER

The information contained in this brochure is intended to be of a general nature only. The SUPERIOR Manufacturing Company may at any time and from time to time, for technical or other necessary reasons, modify any of the details or specifications of the product described in this brochure. Illustrations do not necessarily show products in standard conditions. The dimensions, weights and capacities shown herein, as well as any conversion data used, are approximate only and are subject to variations within normal manufacturing techniques.