

BENDING MACHINES SPB 32-42 MILLENNIUM SERIES

CE Approved

For bending pipe from 32" through 42"

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



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

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.

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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

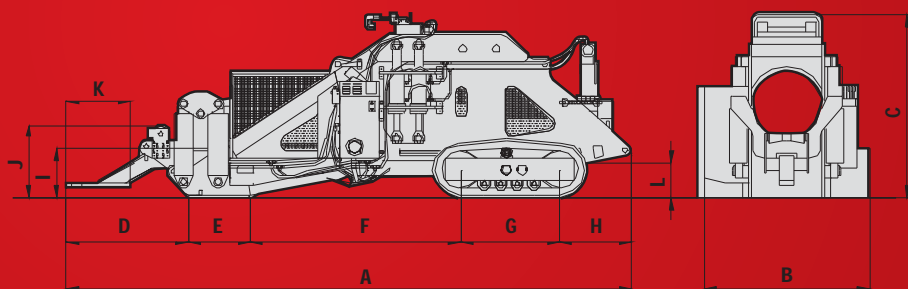
BENDING DATA (U.S.)

Pipe inch	Pipe O.D.							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 inch/mm	Pipe O.D.							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"



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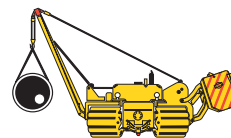
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