



SPB 32-42 PIPE BENDER

Max. Operating Pressure	4,640 psi / 320 bar
Operating weight	95,900 lbs / 43,500 kg
Horsepower	168 kW / 225 HP



Despite its simplicity this machine guarantees high performance in terms of speed and push.

The frame is made of high quality steel, and the parts mostly subject to stresses have been ribbed and boxed to ensure maximum resistance, though keeping the machine weight as light as possible.

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 compartment 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.



ENGINE (Opposite Side)

A choice of Caterpillar, Perkins, Deutz and Cummins diesel engines, all of which have many reliable and modern features, such as the water pump, integrated filtration system, and self-stretching fan towing seals.

The engine is enclosed in a sound reducing box and is located on the side opposite the operator.

It also complies with recent anti-pollution requirements in all of the industrialized nations. The engine compartment is cleverly designed to swing open to allow easier access to the engine for maintenance.



HYDRAULIC SYSTEM

New operator friendly hydraulic system with a load-sending variable pump and a five-spool proportional valve, allowing much safer, faster and more precise control of movements. The new valve allows the regulation of the pressure and the capacity of each function according to its purpose.

The three largest machines have an automatic power controlling system allowing a quick approach and a progressive slowing down when close to the maximum push. The hydraulic system features high quality components for higher productivity and a reduction in power consumption.



OPERATOR'S PLATFORM

The position of the piloting platform and the engine compartment on opposite sides make this machine unique in terms of operating comfort and guarantee maximum visibility and low noise levels to the operator.



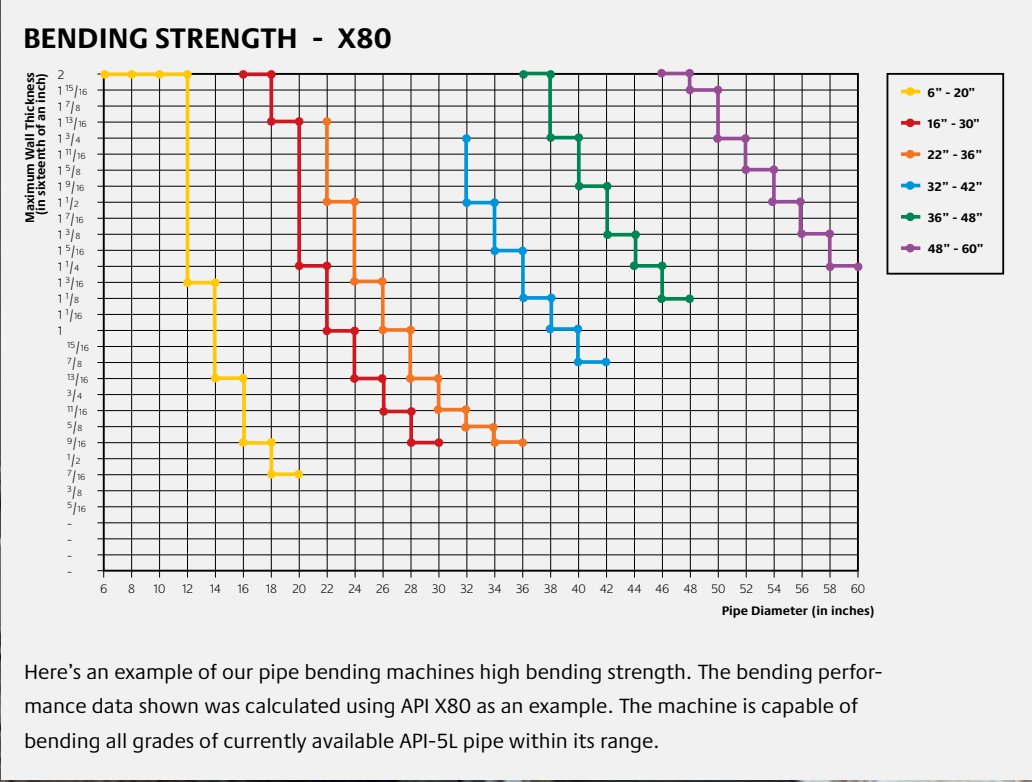
HYDRAULIC WINCHES

The hydraulic winches have a pulling capacity ranging from 3,000 to 10,000 Kg. The free drum control is located in the control panel on the operator's platform.



FRAME

The main frame is built with high quality steel plate and box-section design. This makes the machine stronger and more resistant to stresses, thus permitting bending of pipes with very high tensile strength.



ENGINE

Model	Caterpillar C-6.6 ACERT
Net flywheel power (DIN 6271)	225 HP / 168 kW
Governed speed	1,900 rpm
Displacement	6.6 liters
Compression ratio	16:1
Engine bore	105 mm - 127 mm
Number of cylinders	6

HYDRAULIC PUMP

Type	Axial piston, load-sensing pump, with tilted plate and constant power control
Maximum flow rate	108 U.S. gal/min - 410 lt/min
Maximum constant pressure	127 U.S. gal/min - 483 lt/min
Maximum peak pressure	320 bar

CONTROL VALVE

Brand	Rexroth
Type	Load-sensing with proportional control (LUDV)
Spools	N.5

HYDRAULIC WINCH

Type	2.280.0017
Maximum pull at first layer	17,306 lbs / 7,850 kg
Hydraulic motor	Orbital DANFOSS
Frame	Aluminum allow + ductile cast iron
Reduction gear	With worm screw, irreversible
Neutral	Manual
Maximum operating pressure	1,885 p.s.i. / 130 bar
Maximum feed flow rate	26 U.S. gal/min - 100 lt/min
Speed at first layer	16 ft/min - 4,85 m/min
Recommended cable diameter	1/2 inch / Ø 13 mm
Wire rope type	6 strands with textile core
	R=2,160 N/mm2 min. breaking load guaranteed 15,700 kg

HYDRAULIC OIL TANK

Type	Metal work with filter
Capacity	121 U.S. gal / 460 lt
Cartridge type	Parker

FUEL TANK

Type	Metal work with filter
Capacity	76 U.S. gal / 290 lt

SPOOLS

Spool 1: Out-board and in-board cylinders, clamp	
Maximum flow	84.5 U.S. gal/min - 320 lt/min
Pressure	4,641 p.s.i. / 320 bar

Spool 2: Wedge cylinder

Maximum flow	84.5 U.S. gal/min - 320 lt/min
Pressure	2,175-3,190 p.s.i. / 150-220 ^l bar

Spool 3: Winch

Maximum flow	42.2 U.S. gal/min - 160 lt/min
Pressure	1,990 p.s.i. / 140 bar

Spool 4: Auxiliary control 1

Maximum flow	42.2 U.S. gal/min - 160 lt/min
Pressure	1,740 p.s.i. / 120 ² bar

Spool 5: Auxiliary control 2

Maximum flow	42.2 U.S. gal/min - 160 lt/min
Pressure	1,740 p.s.i. / 120 ² bar

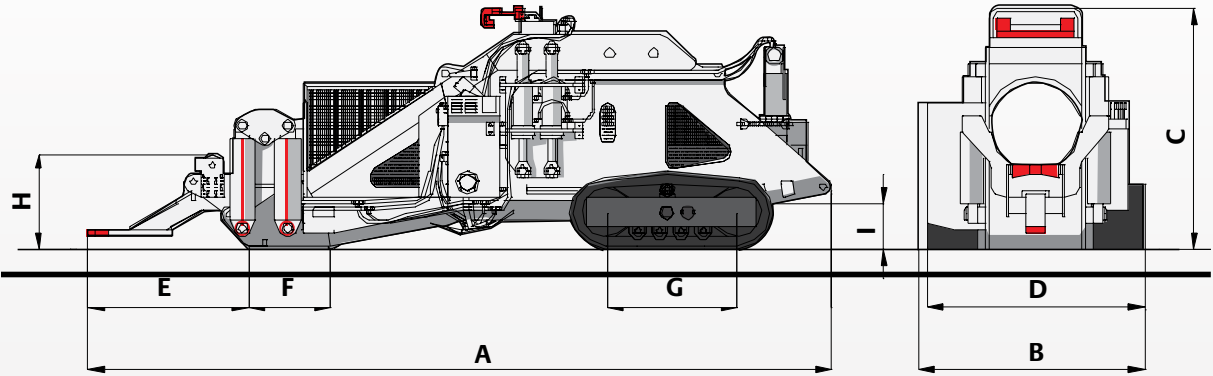


U.S.

Pipe O.D.	Maximum Wall Thickness By Grade (Inch)							Recommended Bend		
<i>inch</i>	<i>X52</i>	<i>X56</i>	<i>X60</i>	<i>X65</i>	<i>X70</i>	<i>X80</i>	<i>X100</i>	<i>Degree per Arc Foot</i>	<i>Radius Feet</i>	<i>Max Degree Per 40 Feet</i>
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

METRIC

Pipe O.D.	Maximum Wall Thickness By Grade (Inch)							Recommended Bend		
<i>inch/mm</i>	<i>X52</i>	<i>X56</i>	<i>X60</i>	<i>X65</i>	<i>X70</i>	<i>X80</i>	<i>X100</i>	<i>Ratio Radius: O.D.</i>	<i>Radius Meter</i>	<i>Max Degree Per 12 Meters</i>
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



A Overall length	29 ft	8.9 m
B Overall width	10.5 ft	3.25 m
C Height	10 ft	3 m
D Width to outside of tracks	10 ft	3 m
E Length of front section	6.5 ft	2 m
F Length of U/C touching the ground	4.4 ft	1.35 m
G Length of track on the ground	5 ft	1.5 m
H Height to top of roller	3.2 ft	1 m
I Ground clearance	1.2 ft	39 cm

Track weight (loose pair) 7,111 lbs / 3,200 kg

Operating weight	95,900 lbs	43,500 kg
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AVAILABLE MODELS





Padding Machines



Pipelayers



Crawler Carriers



Pipeline Accessories



Pipe Benders



Hydraulic Kits



Pipe Facing Machines



Vacuum Lifts



Top-Loading Padders



Rock Dump Crawlers



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