

# **SPB 36-48 PIPE BENDER**

Max. Operating Pressure	4,640 psi / 320 bar
Operating weight	149,914 lbs / 68,000 kg
Horsepower	168 kW / 225 HP









#### **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.



#### **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.



#### **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 down when close to the maximum push. 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 The hydraulic system features high quality components for higher productivity and a sure to 6,000 PSI. reduction in power consumption.

The SPB-Series also has stronger hydraulic cylinders that have been tested to work at high pressures. The cylinders have molybdenum chromium-plated steel piston rods with components made to bear high pres-

### **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

ModelCaterpillar C-6.6 ACERTNet flywheel power (DIN 6271)225 HP / 168 kWGoverned speed1,900 rpmDisplacement6.6 litersCompression ratio16:1Engine bore105 mm - 127 mmNumber of cylinders6

#### **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
Туре	Load-sensing with proportional control (LUDV)
Spools	N.6

#### HYDRAULIC WINCH

rype	2.280.0019
Maximum pull at first layer	33,070 lbs / 15,000 kg
Hydraulic motor	Orbital DANFOSS
Frame	Aluminum allow + ductile cast iron
Reduction gear	With worm screw, irreversible
Neutral	Manual
Maximum operating pressure	2,175 p.s.i. / 150 bar
Maximum feed flow rate	42 U.S. gal/min - 160 lt/min
Speed at first layer	16 ft/min - 4,85 m/min
Recommended cable diameter	3/4 inch / Ø 19 mm
Wire rope type	6 strands with textile core
R=2,160 N/mm2 min.	breaking load guaranteed 30,000 kg

#### HYDRAULIC OIL TANK

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

## **FUEL TANK**

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

#### **SPOOLS**

2.280.0019	Spool 1: Out-board and in-board cylinders, clamp	
os / 15,000 kg	Maximum flow	84.5 U.S. gal/min - 320 lt/mi
ital DANFOSS	Pressure	4,641 p.s.i. / 320 ba

Spool	2: (	Out-board	and in-board	cylinders.	clamp
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Maximum flow	84.5 U.S. gal/min - 320 lt/mir
Pressure	4,641 p.s.i. / 320 baı

### Spool 3: Wedge cylinder

Maximum flow	84.5 U.S. gal/min - 320 lt/m
Pressure	2,175-3,190 p.s.i. / 150-220¹ b

#### Spool 4: Winch

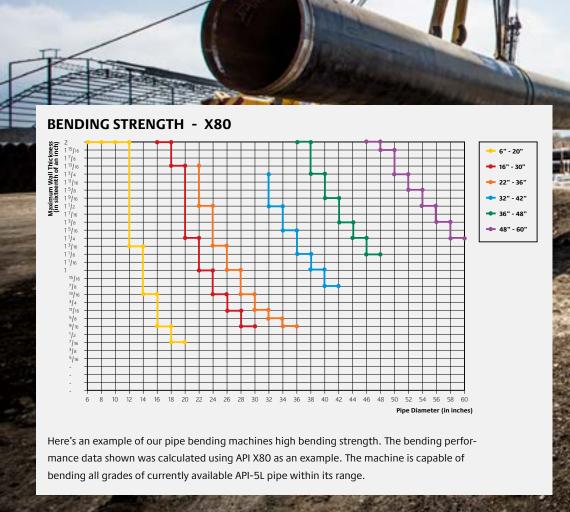
Maximum flow	42.2 U.S. gal/min - 160 lt/mir	
Pressure	1,990 p.s.i. / 140 ba	

#### **Spool 5:** Auxiliary control 1

Maximum flow Pressure	42.2 U.S. gal/min - 160 lt/mi 1,740 p.s.i. / 120² ba
riessuie	1,740 p.s.1. / 120_ ba

#### **Spool 6:** Auxiliary control 2

Maximum flow	42.2 U.S. gal/min - 160 lt/n	
Pressure	1,740 p.s.i. / 120 <u>²</u> l	



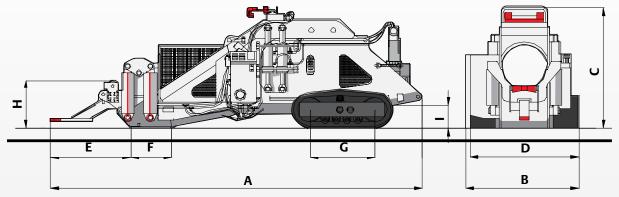


## U.S.

Pipe O.D	•	Maximu	m Wall Thic	kness By Gr	ade (Inch)			Recommended B	end	
inch	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

## **METRIC**

Pipe O.D.	Maximu	m Wall Thic	kness By Gr	ade (Inch)		Recommended B	Recommended Bend			
inch/mm	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



O	perating weight	149,914 lbs	68,000 kg
Tra	ack weight (loose pair) 7,111 lbs / 3,200 kg		
I	Ground clearance	1.3 ft	41.3 cm
Н	Height to top of roller	3.5 ft	1.07 m
G	Length of track on the ground	5.8 ft	1.79 m
F	Length of U/C touching the ground	5.2 ft	1.59 m
E	Length of front section	7 ft	2.13 m
D	Width to outside of tracks	11 ft	3.41 m
С	Height	10.5 ft	3.24 m
В	Overall width	11.4 ft	3.5 m
Α	Overall length	36 ft	10.13 m

## **AVAILABLE MODELS**



SPB 6-20 Millennium Series



SPB 16-30 Millennium Series



SPB 22-36 Millennium Series



SPB 32-42 Millennium Series



SPB 36-48 Millennium Series



SPB 48-60 Millennium Series



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