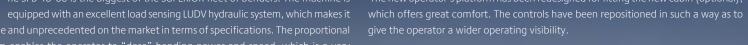


# **SPB 48-60 PIPE BENDER**

Max. Operating Pressure	4,640 psi / 320 bar
Operating weight	211,644 lbs / 96,000 kg
Horsepower	168 kW / 225 HP



he SPB 48-60 is the biggest of the SUPERIOR fleet of benders. The machine is The new operator's platform has been redesigned for fitting the new cabin (optional),









#### **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.



**FEATURES** 

### HYDRAULIC WINCHES (Opposite Side)

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.





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-

Shown with optional cabin

# 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

Caterpillar C-6.6 ACERT
225 HP / 168 kW
1,900 rpm
6.6 liters
16:1
105 mm - 127 mm
6

### **HYDRAULIC PUMP**

Туре	Axial piston, load-sensing pump,
with tilt	ted 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

33,070 lbs / 15,000 kg
Orbital DANFOSS
Aluminum allow + ductile cast iron
With worm screw, irreversible
Manual
2,175 p.s.i. / 150 bar
42 U.S. gal/min - 160 lt/min
16 ft/min - 4,85 m/min
3/4 inch / Ø 19 mm
6 strands with textile core
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		
bs / 15,000 kg	Maximum flow	84.5 U.S. gal/min - 320 lt/mi	
bital DANFOSS	Pressure	4,641 p.s.i. / 320 ba	
	•		

<b>pool 2:</b> Out-board and ir	-board cy	linders, clamp
---------------------------------	-----------	----------------

Maximum flow	84.5 U.S. gal/min - 320 lt/min
ressure	4,641 p.s.i. / 320 bar

### Spool 3: Wedge cylinder

Maximum flow	84.5 U.S. gal/min - 320 lt/m
Pressure	2,175-3,190 p.s.i. / 150-220 <u>1</u> b

#### Spool 4: Winch

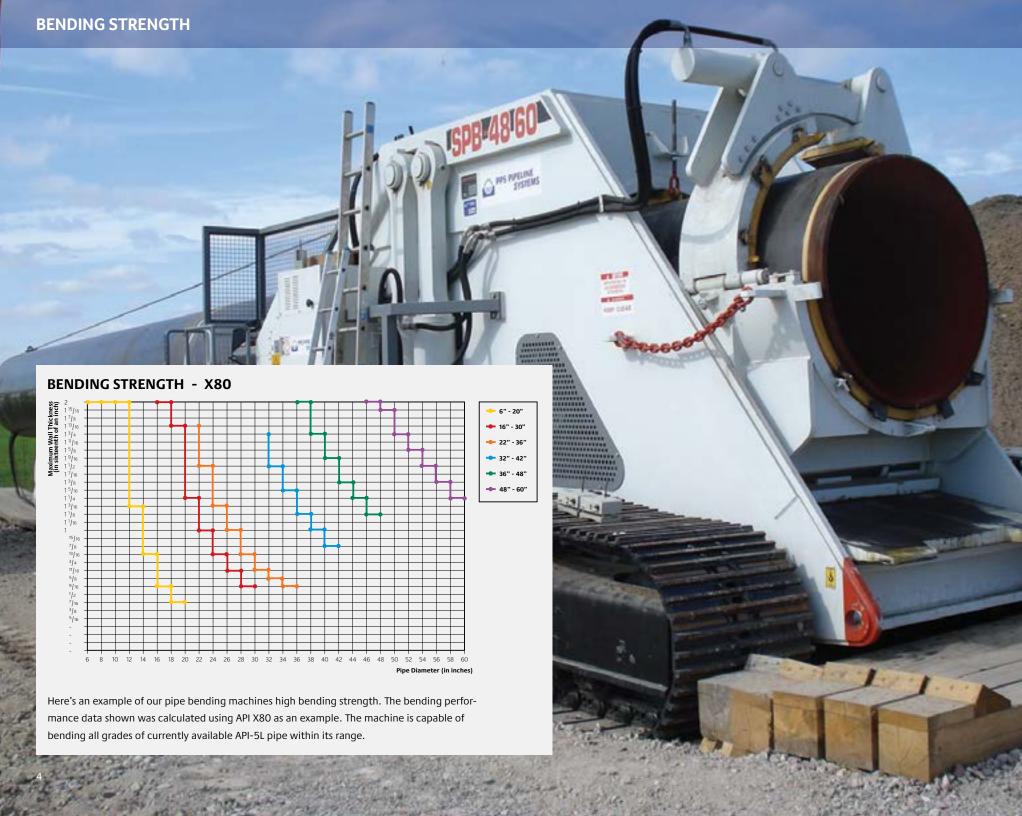
ximum flow	42.2 U.S. gal/min - 160 lt/mi
ssure	1,990 p.s.i. / 140 ba

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

ximum flow	42.2 U.S. gal/min - 160 lt/mir
essure	1,740 p.s.i. / 120² ba

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

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



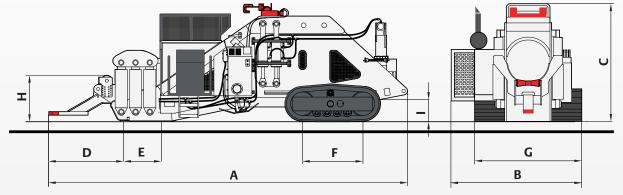


## U.S.

Pipe O.D.		Maximu	ım Wall Thi	ckness By Gı	ade (Inch)			Recommended B	Recommended Bend		
inch	X52	X56	X60	X65	X70	X80	X100	Degree per Arc Foot	Radius Feet	Max Degree Per 40 Feet	
48	2	2	2	2	2	2	1-11/16	0.50	115	10.50	
50	2	2	2	2	2	2	1-1/2	0.50	115	10.50	
52	2	2	2	2	2	1-3/4	1-3/8	0.50	115	10.50	
54	2	2	2	2	1-7/8	1-5/8	1-1/4	0.50	115	10.50	
56	2	2	2	1-7/8	1-3/4	1-1/2	1-3/16	0.50	115	10.50	
58	2	2	1-7/8	1-3/4	1-9/16	1-3/8	1-1/16	0.50	115	10.50	
60	2	1-7/8	1-3/4	1-5/8	1-7/16	1-1/4	1	0.50	115	10.50	

### **METRIC**

Pipe O.D.		Maximum Wall Thickness By Grade (Inch)						Recommended Bend
inch/mm	X52	X56	X60	X65	X70	X80	X100	Ratio Radius Max Degree Radius: O.D. Meter Per 12 Meters
48 / 1219.2	50.80	50.80	50.80	50.80	50.80	50.80	42.87	28.8 35.05 10.50
50 / 1270	50.80	50.80	50.80	50.80	50.80	50.80	38.10	27.6 35.05 10.50
52 / 1320.8	50.80	50.80	50.80	50.80	50.80	44.45	34.93	26.5 35.05 10.50
54 / 1371.6	50.80	50.80	50.80	50.80	47.63	41.28	31.75	25.5 35.05 10.50
56 / 1422.4	50.80	50.80	50.80	47.63	44.45	38.10	30.17	24.6 35.05 10.50
58 / 1473.2	50.80	50.80	47.63	44.45	36.69	34.93	26.99	23.8 35.05 10.50
60 / 1524	50.80	47.63	44.45	41.28	36.52	31.75	25.40	23.0 35.05 10.50



Or	perating weight	211,644 lbs	96,000 kg
Tra	ack weight (loose pair) 18,900 lbs / 8	,500 kg	
I	Ground clearance	1.4 ft	43.5 cm
Н	Height to top of roller	3.7 ft	1.15 m
G	Width to outside of tracks	11.4 ft	3.94 m
F	Length of track on the ground	7.9 ft	2.43 m
E	Length of U/C touching the ground	5 ft	1.55 m
D	Length of front section	6.5 ft	2 m
С	Height	12.5 ft	3.82 m
В	Overall width	13 ft	4.02 m
Α	Overall length	36.1 ft	11 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







2200 Post Oak Blvd., Ste. 1400 | Houston, TX 77056

Main 281.457.4400 | U.S. Toll Free 800.383.2666 | Intl. Toll Free 800.9675.3948

pipeline@wwmach.com | www.superiormftg.com

U.S.

Phone +1.281.457.4400 pipelinena@wwmach.com

CANADA

Phone +587.597.2467 pipelineca@wwmach.com MEXICO & LATIN AMERICA

Phone +54.11.4381.5491 pipelinesa@wwmach.com

**BRAZIL** 

Phone +54.911.4083.1274 pipelinebr@wwmach.com **EUROPE** 

Phone +49.0.231.963.3073 pipelinece@wwmach.com

INDIA

Phone +91.11.414.59230 pipelineind@wwmach.com **AFRICA** 

Phone 800.9675.3948 pipelineafr@wwmach.com

AUSTRALIA

Phone +61.0.400.144.432 pipelineau@wwmach.com MIDDLE EAST &

ASIA PACIFIC

Phone 800.9675.3948 pipelineme@wwmach.com

