

SPB 16-30 PIPE BENDER

| Max. Operating Pressure | 4,060 psi / 280 bar |
|-------------------------|------------------------|
| Operating weight | 39,683 lbs / 18,000 kg |
| Horsepower | 74 kW / 99.5 HP |











ENGINE

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

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.

2,175-4,351 p.s.i. / 150-300¹ bar

ENGINE

| Model | Caterpillar C-4.4 ACERT |
|-------------------------------|-------------------------|
| Net flywheel power (DIN 6271) | 99.5 HP |
| Governed speed | 2,000 rpm |
| Displacement | 4.01 liters |
| Number of cylinders | 4 |
| Sound proofing type | Yes |

HYDRAULIC PUMP

| Type | Variable axial piston pump, |
|---------------------------|--------------------------------|
| | with pressure and flow control |
| Maximum flow rate | 40 U.S. gal/min - 150 lt/min |
| Maximum constant pressure | 4,061 p.s.i. / 280 bar |
| Maximum peak pressure | 5,046 p.s.i. / 350 bar |
| | |

CONTROL VALVE

| Brand | Rexrot |
|--------|--|
| Туре | Load-sensing with proportional control (LUD) |
| Spools | N |

HYDRAULIC WINCH

| Type | riyardane winen |
|---|------------------------------------|
| Maximum pull at first layer | 9,700 lbs / 4,400 kg |
| Hydraulic motor | Orbital DANFOSS |
| Frame | Aluminum allow + ductile cast iron |
| Reduction gear | With worm screw, irreversible |
| Neutral | Manual |
| Maximum operating pressure | 2,030 p.s.i. / 140 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 | 1/2 inch / Ø 10 mm |
| Wire rope type | 6 strands with textile core |
| R=2,160 N/mm2 min. breaking load guaranteed 30,000 kg | |

HYDRAULIC OIL TANK

| Туре | Metal work with filter |
|----------------|------------------------|
| Capacity | 50 U.S. gal / 190 lt |
| Cartridge type | Donaldson |

FUEL TANK

| Туре | Metal work with filter |
|----------|------------------------|
| Capacity | 52 U.S. gal / 200 lt |

SPOOLS

Pressure

| Hydraulic winch | Spool 1: Out-board and in-board cylinders, clamp | |
|---------------------|--|--------------------------------|
| 700 lbs / 4,400 kg | Maximum flow | 39.6 U.S. gal/min - 150 lt/min |
| Orbital DANFOSS | Pressure | 4,351 p.s.i. / 300 bar |
| + ductile cast iron | | |
| screw, irreversible | Spool 2: Wedge cylinder | |
| Manual | Maximum flow | 40 U.S. gal/min - 150 lt/min |

| Spool 3: Winch | |
|----------------|--|

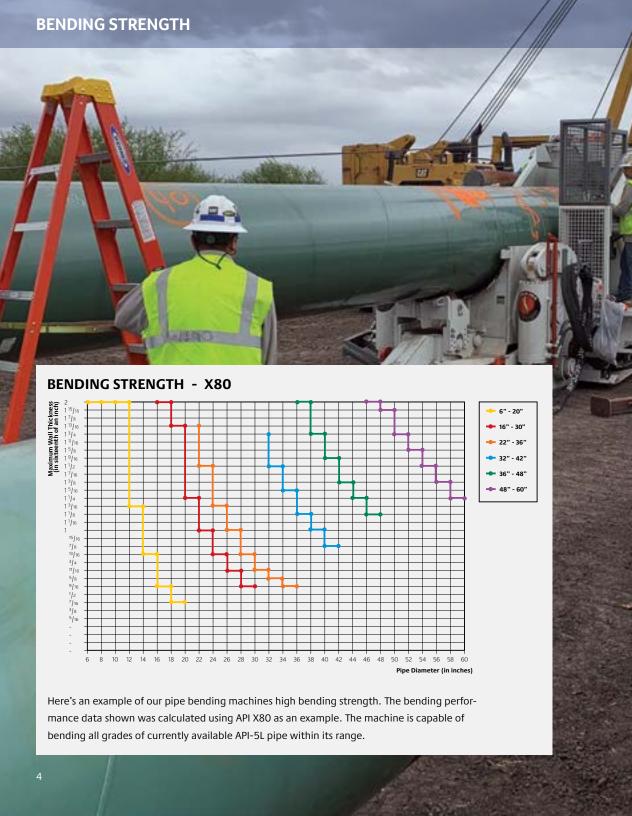
| ximum flow | 26 U.S. gal/min - 100 lt/mi |
|------------|-----------------------------|
| ssure | 2,320 p.s.i. / 160 ba |

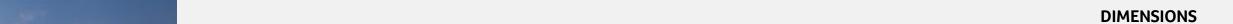
Spool 4: Auxiliary control 1

| Maximum flow | 26 U.S. gal/min - 100 lt/min |
|--------------|-------------------------------------|
| Pressure | 2,320 p.s.i. / 160 ² bar |

Spool 5: Auxiliary control 2

| laximum flow | 26 U.S. gal/min - 100 lt/r |
|--------------|---------------------------------|
| ressure | 1,740 p.s.i. / 140 ² |





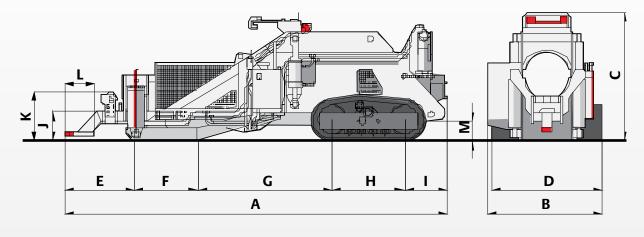


U.S.

| Pipe O.D. | Maximu | m Wall Thic | kness By G | rade (Inch) | | | Recommended Bend | | | |
|-----------|--------|-------------|------------|-------------|---------|-------|------------------|------------------------|----------------|---------------------------|
| inch | X52 | X56 | X60 | X65 | X70 | X80 | X100 | Degree per Arc Foot | Radius Feet | Max Degree Per 40 Feet |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1.51 | 38 | 40.80 |
| 18 | 2 | 2 | 2 | 2 | 2 | 2 | 1-11/16 | 1.10 | 52 | 29.70 |
| 20 | 2 | 2 | 2 | 2 | 1-15/16 | 1-7/8 | 1-9/16 | 0.90 | 64 | 24.40 |
| 22 | 2 | 1-15/16 | 1-3/4 | 1-5/8 | 1-7/16 | 1-1/4 | 15/16 | 0.80 | 72 | 21.60 |
| 24 | 1-5/8 | 1-1/2 | 1-3/8 | 1-1/4 | 1-1/8 | 1 | 3/4 | 0.75 | 76 | 20.25 |
| 26 | 1-5/16 | 1-3/16 | 1-1/8 | 1 | 15/16 | 13/16 | 5/8 | 0.70 | 82 | 18.90 |
| 28 | 1-1/8 | 1 | 15/16 | 7/8 | 3/4 | 11/16 | 1/2 | 0.65 | 88 | 17.60 |
| 30 | 15/16 | 7/8 | 13/16 | 3/4 | 11/16 | 9/16 | 7/16 | 0.60 | 96 | 16.20 |

METRIC

| Pipe O.D. | Maximu | m Wall Thic | kness By Gr | ade (Inch) | | | Recommended Bend | | | |
|------------|--------|-------------|-------------|------------|-------|-------|------------------|-----------------------|-----------------|-----------------------------|
| inch/mm | X52 | X56 | X60 | X65 | X70 | X80 | X100 | Ratio Radius: O.D. | Radius Meter | Max Degree Per 12 Meters |
| 16 / 406.4 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 28.5 | 11.58 | 40.80 |
| 18 / 457.2 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 42.87 | 34.7 | 15.85 | 29.70 |
| 20 / 508 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 50.80 | 39.69 | 38.4 | 19.51 | 24.40 |
| 22 558.8 | 50.80 | 49.22 | 44.45 | 41.28 | 36.52 | 31.75 | 23.82 | 39.3 | 21.95 | 21.60 |
| 24 609.6 | 41.28 | 38.10 | 34.93 | 31.75 | 28.58 | 25.40 | 19.05 | 38.0 | 23.16 | 20.25 |
| 26 / 660.4 | 33.34 | 30.17 | 28.58 | 25.40 | 23.82 | 20.64 | 15.88 | 37.9 | 24.99 | 18.90 |
| 28 / 711.2 | 28.58 | 25.40 | 23.82 | 22.23 | 19.05 | 17.47 | 12.70 | 37.7 | 26.82 | 17.6 |
| 30 762 | 23.82 | 22.23 | 20.64 | 19.05 | 17.47 | 14.29 | 11.12 | 38.4 | 29.26 | 16.20 |



| Or | perating weight | 39,683 lbs | 18,000 k | | | |
|--|-----------------------------------|------------|----------|--|--|--|
| Track weight (loose pair) 4,000 lbs / 1,800 kg | | | | | | |
| М | Ground clearance | 1.15 ft | 35 cr | | | |
| L | Length of hitch | 1.7 ft | 51 cr | | | |
| K | Height to top of roller | 2.8 ft | 86 cr | | | |
| J | Height to bottom of cradle | 1.6 ft | 50 cr | | | |
| | Length of rear section | 2.75 ft | 84 cr | | | |
| Н | Length of track on the ground | 4.11 ft | 1.26 r | | | |
| G | Length of middle section | 7.6 ft | 2.33 r | | | |
| F | Length of U/C touching the ground | 3.66 ft | 1.12 r | | | |
| E | Length of front section | 4.1 ft | 1.26 r | | | |
| D | Width to outside of tracks | 7.74 ft | 2.36 r | | | |
| С | Height | 7.7 ft | 2.35 r | | | |
| В | Overall width | 8 ft | 2.45 r | | | |
| Α | Overall length | 22.3 ft | 6.8 r | | | |

AVAILABLE MODELS



SPB 6-20 Millennium Series



SPB 16-30 Millennium Series



SPB 22-36 Millennium Series



eries SPB 32-42 Millennium Series



SPB 36-48 Millennium Series



SPB 48-60 Millennium Series

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Padding Machines



Pipelayers



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