



**SUPERIOR** Product Line



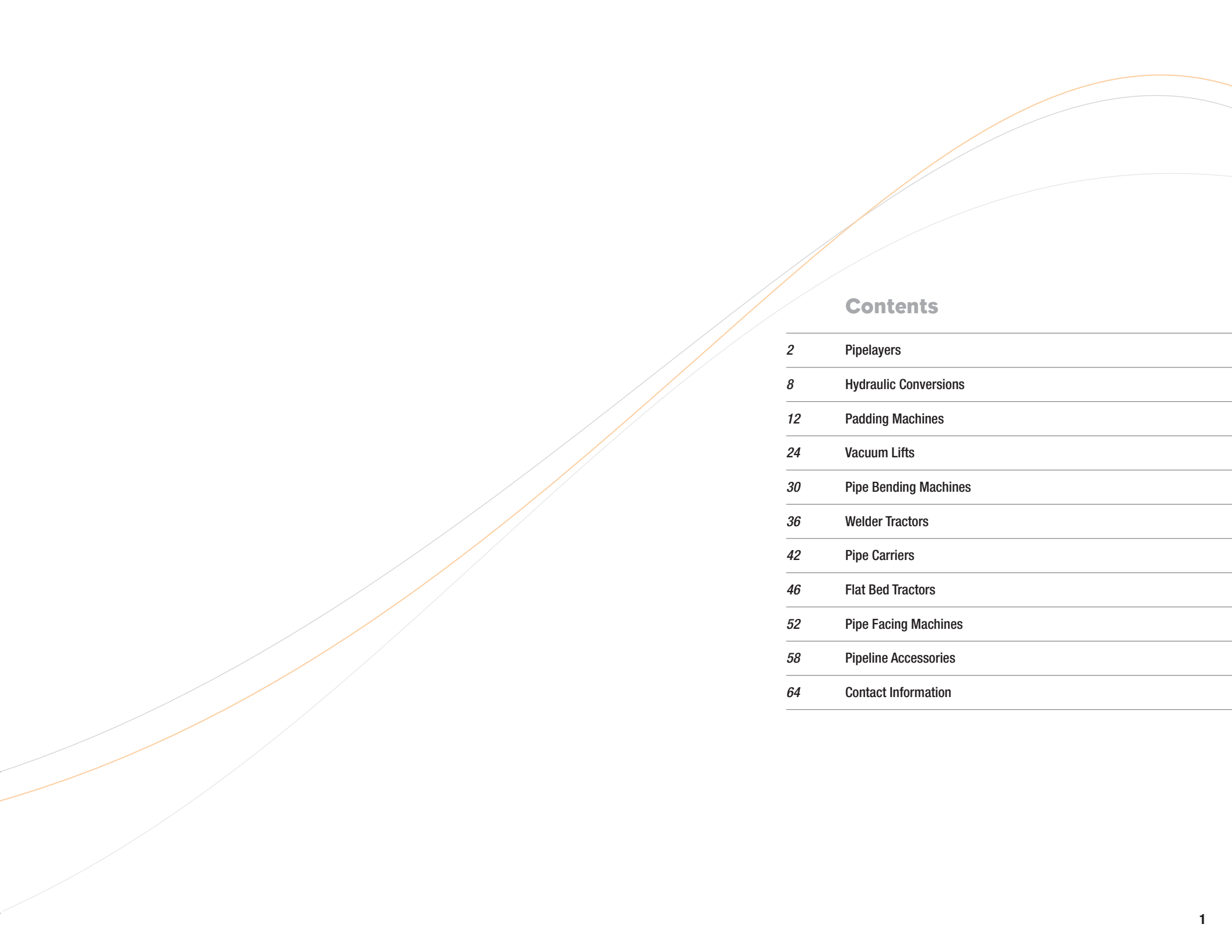
## **SUPERIOR** Product Line

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SUPERIOR Manufacturing has been designing and fabricating specialized pipeline equipment for over 30 years. We currently manufacture the broadest range of pipeline specialty equipment in the pipeline industry from our two major production facilities in Houston, Texas and Parma, Italy.

At the Houston facility, we assemble welder tractors, pipe carriers, and convert conventional tractors and mechanical pipelayers into fully hydraulic pipelayers.

At our Parma, Italy facility we manufacture padding machines, pipelayers, pipe bending machines, flat bed tractors, pipe facing machines, as well as mandrels, line-up clamps, bending sets, and other pipeline accessories. These specialty products are both rented and sold to pipeline contractors around the world through our Worldwide Machinery Pipeline Division.



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# Pipelayers

SUPERIOR Manufacturing offers some of the most comprehensive solutions for the pipelayer market. Our SP/CPX-Series are Cat-based pipelayers and dozers which have been upgraded into fully hydraulic machines. The SP/CPX-Series range in sizes from the 561/D5 to 594. In addition, we also manufacture our proprietary pipelayers: the SPX-Series.

The SPX-Series are fully hydraulic pipelayers built from the ground up. They range in lifting capacity from 46 to 96 tons and feature many technical advantages that place them at the top of the industry in terms of safety, reliability and ease-of-use.

The backbone of our pipelayers is our patented Hydraulic Kit. This allows the operator to control the load with one fully-directional joystick for both the boom line and the load line. The operator can activate both winches at the same time by positioning the joystick in different diagonal positions for different desired effects. With light pressure applied, the operator can inch the load, or with maximum pressure applied and full throttle, can go full bore. No gearing system is necessary, as our package will operate as efficiently as the two gear systems used by our competitors. On-board computer displays load and overhang information and has anti-tipping and free-fall as standard features.

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*SPX-460*

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*SPX-660*

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*SPX-960*

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*SP-D5M/N LGP*

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*SP-D6M/N LGP*

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*CPX-561*

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*CPX-571*

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*SP/CPX-572*

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*SP/CPX-583*

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*SP/CPX-594*

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*Hydraulic Kit (CPX)*

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*Conversion Package (SP)*

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# Features



## Anti-Tipping System

Monitors different lifting operations to avoid dangerous tilting and ensures the stability of the machine.

## Freefall System

When the button is engaged, the load free-falls all the way to the ground.



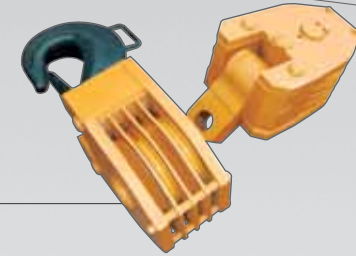
## Boom Kick-Out System

This system will prevent the boom from excessive upward movement, thus ensuring you will never bend another boom.



## Transmission Pilot Levers

There are 2 extra pilot levers for the transmission which can assist the operator in making precise maneuvers, such as turning on a steep hill or making pin-point movements to couple the pipes.



## Anti-Two Block

Sets a minimum distance between the top block and the hook block, preventing the 2 blocks from touching.



## LCD Control Panel

The LCD control panel displays relevant information in a beautiful, easy to read, graphical interface. It can also be adjusted for day or night viewing.

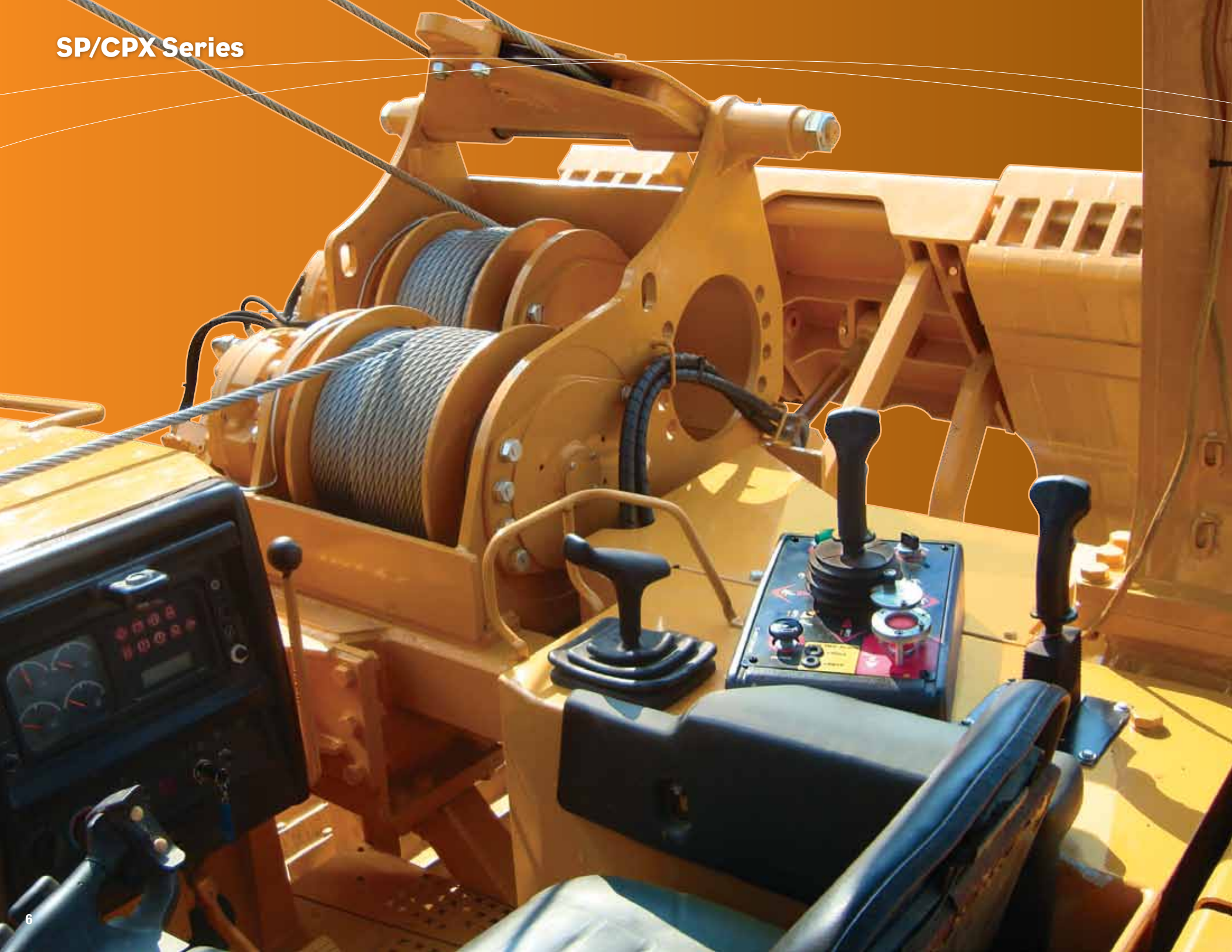


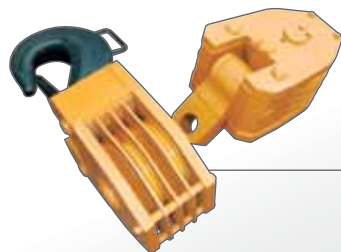
## Controls

With only 1 joystick, the operator can operate both winches and increase/decrease the engine's throttle. The machine's travel is controlled with a separate joystick.



## SP/CPX Series





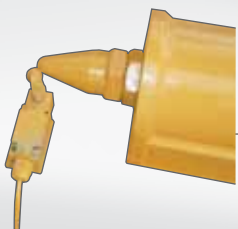
## Anti-Two Block

Sets a minimum distance between the top block and the hook block, preventing the 2 blocks from touching.



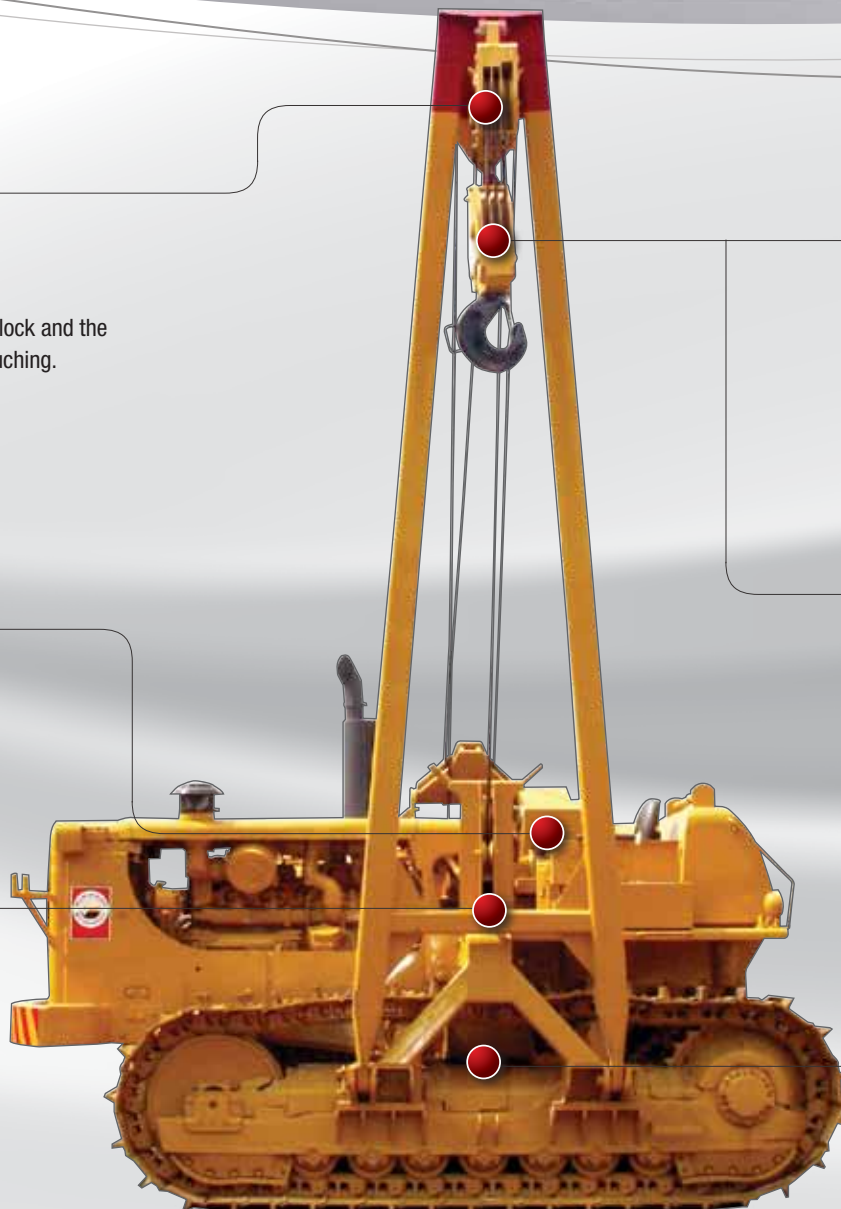
## Controls

A single joystick allows the operator to control both the load line and the boom simultaneously or separately.



## Boom Kick-Out System

This system will prevent the boom from excessive upward movement, thus ensuring you will never bend another boom.



## Freefall System

When the button is engaged, the load free-falls all the way to the ground.



## Anti-Tipping System

It monitors different lifting operations to avoid dangerous tilting and ensures the stability of the machine.



## Dual Hardbar

Provides maximum support to the pipelayer by converting to a totally rigid frame.





# Hydraulic Conversions

## **Hydraulic Kit (CPX)**

### *For the conversion of mechanical pipelayers to fully hydraulic pipelayers*

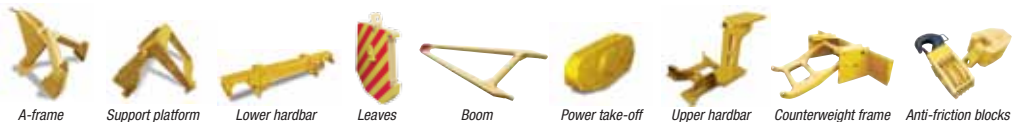
The CPX package is designed to easily convert your 561D, 571G/F/E/D, 572G/F/E, 583K/H or 594H/G Caterpillar mechanical sideboom into a fully hydraulic-controlled sideboom. Our unique single lever control reduces the number of controls from 6 to 1, and allows the operator to control both boom and load with just one joystick.

## **Conversion Package (SP)**

### *For the conversion of Cat dozers to fully hydraulic pipelayers*

SUPERIOR fabricates and installs all the components needed to convert your D5N/M LGP, D6N/M LGP, D7H/G, D8K/H and D9H/G Caterpillar tractor or Komatsu D155 tractor to a hydraulic pipelayer. This includes a counterweight rack, leaves, an A-frame, upper and lower hardbar, and a boom. The final process is adding the SUPERIOR hydraulic drawworks system.

### **Conversion Package (SP) components:**



A-frame

Support platform

Lower hardbar

Leaves

Boom

Power take-off

Upper hardbar

Counterweight frame

Anti-friction blocks

# Models



## **SP-D5M/N LGP\***

Operating weight  
19,425 kg / 42,824 lbs

Max lifting capacity  
18,200 kg / 40,123 lbs

Net flywheel power  
98 kW / 132 HP

## **CPX-561**

Operating weight  
14,152 kg / 31,200 lbs

Max lifting capacity  
18,500 kg / 40,785 lbs

Net flywheel power  
78 kW / 105 HP

## **SP-D6M/N LGP**

Operating weight  
24,680 kg / 54,409 lbs

Max lifting capacity  
25,000 kg / 55,115 lbs

Net flywheel power  
114 kW / 153 HP

## **CPX-571**

Operating weight  
22,500 kg / 49,500 lbs

Max lifting capacity  
27,000 kg / 60,628 lbs

Net flywheel power  
149 kW / 200 HP

## **SP/CPX-572**

Operating weight  
28,545 kg / 62,800 lbs

Max lifting capacity  
40,000 kg / 88,183 lbs

Net flywheel power  
149 kW / 200 HP

*\* Shown with optional combo package. Also available on the SP-D6M/N LGP.*

## SP/CPX-Series



#### ***SP/CPX-583***

Operating weight  
41,818 kg / 92,000 lbs

Max lifting capacity  
64,000 kg / 141,095 lbs

Net flywheel power  
223 kW / 300 HP

#### ***SP/CPX-594***

Operating weight  
55,100 kg / 121,500 lbs

Max lifting capacity  
92,000 kg / 202,822 lbs

Net flywheel power  
305 kW / 410 HP

#### ***SPX-460***

Operating weight  
32,000 kg / 70,550 lbs

Max lifting capacity  
45,995 kg / 101,400 lbs

Net flywheel power  
184 kW / 250 HP

#### ***SPX-660***

Operating weight  
41,500 kg / 91,490 lbs

Max lifting capacity  
66,000 kg / 145,505 lbs

Net flywheel power  
261 kW / 350 HP

#### ***SPX-960***

Operating weight  
61,000 kg / 134,500 lbs

Max lifting capacity  
96,000 kg / 211,200 lbs

Net flywheel power  
324 kW / 440 HP

**SPX-Series**



# Padding Machines

SUPERIOR's padding machine line features a full range of sizes: the SBP-15/25 padding buckets, which can be used for finishing jobs, the remote-controlled SPD-150, ideal for small padding operations, the top-loading SPD-160, also remote-controlled, designed for jobs where front loading is difficult, the SPD-250, which has all the features of the 350 but in a smaller frame, the SPD-350, our most popular model and finally, the gargantuan SPD-450 with a screen size of 90 sq. ft. which is 1.5 times that of the SPD-350 and 3 times larger than the SPD-250.

Productivity and ease-of-use were top priorities when each of these models was designed. They have many notable features such as a cabin that the operator can move from side to side for better visibility (available exclusively on the 3 largest models), spill pan vibrators, and adjustable escalators, to name a few. Insulated engine compartments reduce noise levels in order to comply with EU regulations.

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*SBP-15 Bucket*

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*SBP-25 Bucket*

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*SPD-150*

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*SPD-160*

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*SPD-250*

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*SPD-350*

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*SPD-450*

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# Features



## **Adjustable Conveyor Dowel**

Controlled hydraulically to adjust angle and distance at which the material is placed back into the trench.



## **Spill Pan Vibrator**

Prevents material from sticking to pan, especially when soil conditions are wet.



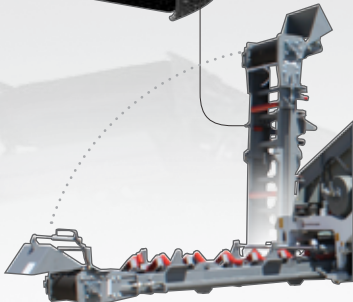
## **Control Panel**

The controls are duplicated on both sides of the cabin for ease of operation on either side of the trench.



## **Cabin Glass Paneling**

Open glass paneling throughout the cabin provides operator with 360° unobstructed view.



## **Reversible Conveyor**

Conveyor can be used on either side of the machine. It also can be folded into 3 parts for easy shipping w/o disassembly.



## **Insulated Engine**

The engine compartment reduces noise to comply with EU noise limit requirements.



## **Adjustable Front/Rear Sections**

The front and rear can be adjusted hydraulically to compensate for different terrain gradients.



## **Oscillating Cabin**

Hydraulically slides out to either side of the machine to facilitate working on either side of the trench.







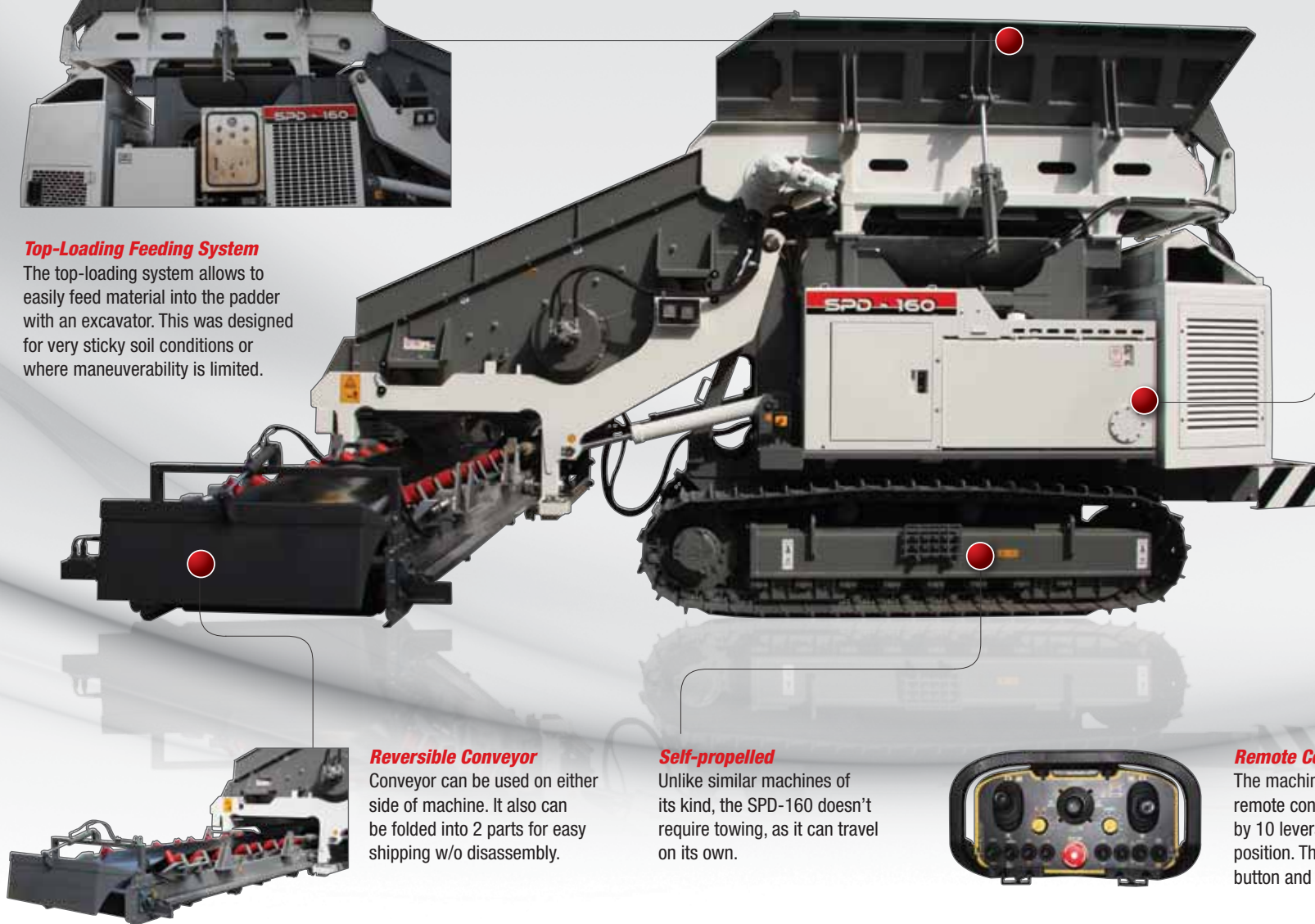
## Top-Loading Feeding System

The top-loading system allows to easily feed material into the padder with an excavator. This was designed for very sticky soil conditions or where maneuverability is limited.



## Insulated Engine

Engine compartment reduces noise to comply with EU noise limit requirements.



## Reversible Conveyor

Conveyor can be used on either side of machine. It also can be folded into 2 parts for easy shipping w/o disassembly.

## Self-propelled

Unlike similar machines of its kind, the SPD-160 doesn't require towing, as it can travel on its own.



## Remote Control

The machine is operated with an ergonomic remote control. Each movement is controlled by 10 levers. Tracks levers can maintain their position. The controller features an emergency button and engine RPM regulations.

# Features



## **Insulated Engine**

Engine compartment reduces noise to comply with EU noise limit requirements.



## **Adjustable Front/Rear Sections**

Just like in the larger models, the escalator and screens section can be adjusted hydraulically to compensate for different terrain gradients.



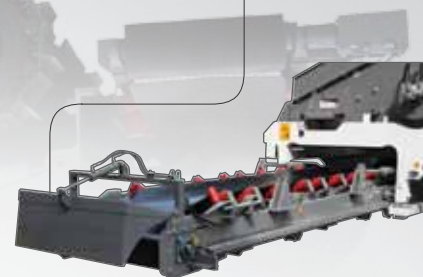
## **Remote Control**

The machine is operated with an ergonomic remote control. Each movement is controlled by 10 levers. Tracks levers can maintain their position. The controller features an emergency button and engine RPM regulations.



## **Reversible Conveyor**

Conveyor can be used on either side of machine. It also can be folded into 3 parts for easy shipping w/o disassembly.





SPD-150

## Padding Bucket





## Transmission

The rollers are engaged by means of 2 double chain transmissions on either side of the bucket.



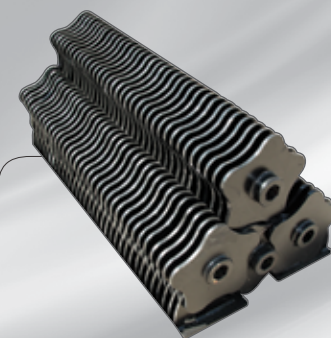
## Frame

The padding bucket is made with a high structural steel frame to withstand harsh conditions.



## Motors

The bucket's double chain transmissions are powered by two Sauer Danfoss hydraulic motors on either side, to maximize power output.



## Rollers

The 4 screen rollers feature HARDOX steel type. These rollers are available in three sizes: 1 inch, 1-1/2 inch and 2 inch.

# Models



## SBP-15

Operating weight 2,550 kg / 5,622 lbs

Screening volume 1.15 m<sup>3</sup> / 1.5 yd<sup>3</sup>

*Volume shown at maximum load*

## SBP-25

Operating weight 3,500 kg / 7,716 lbs

Screening volume 1.9 m<sup>3</sup> / 2.5 yd<sup>3</sup>

*Volume shown at maximum load*

## SPD-150\*

Operating weight 12,000 kg / 26,455 lbs

Screening area 2.3 m<sup>2</sup> / 25 ft<sup>2</sup>

Net flywheel power 103 kW / 140 HP

## SPD-160

Operating weight 24,000 kg / 52,911 lbs

Screening area 5.2 m<sup>2</sup> / 57 ft<sup>2</sup>

Net flywheel power 168 kW / 225 HP

*\*ROPS, seating and rail guard available.*

*All weights shown are without ROPS or any additional options.*

Padding Buckets

Remote-Controlled



#### **SPD-250**

Operating weight 28,000 kg / 61,729 lbs

Screening area 2.78 m<sup>2</sup> / 30 ft<sup>2</sup>

Net flywheel power 184 kW / 250 HP

#### **SPD-350**

Operating weight 39,000 kg / 85,980 lbs

Screening area 5.57 m<sup>2</sup> / 60 ft<sup>2</sup>

Net flywheel power 261 kW / 350 HP

#### **SPD-450**

Operating weight 54,000 kg / 119,050 lbs

Screening area 8.4 m<sup>2</sup> / 90 ft<sup>2</sup>

Net flywheel power 328 kW / 440 HP

## Full-Sized Padders



# Vacuum Lifts

SUPERIOR Vacuum Lifts are designed to make your job site much safer and efficient. This time-saving product can do in seconds what would normally take several minutes for traditional slinging methods to accomplish. Even better, the vacuum lift allows one operator to do the job of several by eliminating the need for a slinging crew, thus saving you money in redundant labor and making the job site safer. The fully self-contained unit can be hooked up in a matter of seconds and can be controlled by the machine operator by direct-connect cable or by a remote control.

Our vacuum lifts can be used with excavators, cranes and pipelayers and cause no damage to the pipe coating or pipe level. They can also be used for concrete pipes. The suction pads fit a range of pipe sizes, instead of just one, and they are available from 4 to 62 inches. Double-jointed suction pads are also available upon request.

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***SVL-90***

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***SVL-130***

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***SVL-220***

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***Suction Pads***

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# Features

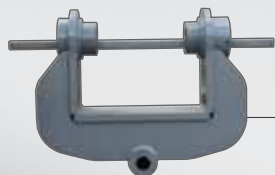


## Remote Control

Serves to control the operation without the use of a connected electric cable. This control will apply and release the vacuum and as added safety it requires the operator to push two buttons at the same time to release the pipe. As an option, it can also control the rotation of the rotator mechanism.

## Control Board

This wired controller can be placed inside the cabin and used instead of the remote.



## Yoke Attachment

Allows to easily change sizes of excavators by only replacing a bushing.



## Rubber Seals (suction pads)

Designed for less time to suction ratios, and are especially effective in extreme cold and hot temperatures.



Front

## Flashing Lights

Indicate whether there is an adequate bond between the pipe and the suction pad.



## Alarm Sound Indicator

Makes loud alarm sound simultaneously with Red Flashing Alarm Light.



## Manometer

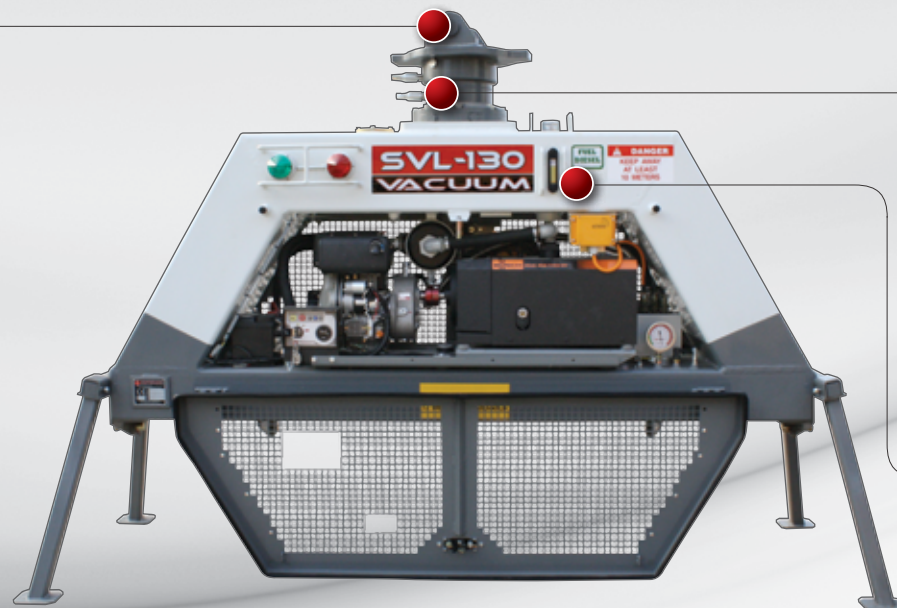
The manometer is used for vacuum pressure measurement between pipe and suction pad. There's another manometer located in the suction pad.

## Rotating Head

Rotates the body of the vacuum lift for greater control in the placement of the pipe.

## Integrated Fuel Tank

It can operate continuously for a full day. Fuel indicator can be easily viewed.



Back



# Models



| <i><b>SVL-90</b></i>                  | <i><b>SVL-130</b></i>                 | <i><b>SVL-220</b></i>                 |
|---------------------------------------|---------------------------------------|---------------------------------------|
| Operating weight 1,100 kg / 2,425 lbs | Operating weight 1,650 kg / 3,638 lbs | Operating weight 2,100 kg / 4,630 lbs |
| Lifting capacity 9 ton                | Lifting capacity 13 ton               | Lifting capacity 22 ton               |
| Excavator size 20/30 ton              | Excavator size 25/35 ton              | Excavator size 45/55 ton              |

## Vacuum Lifts



| <b>Model</b> | <b>Weight</b>        | <b>Pipe Range</b> | <b>Capacity</b>        |
|--------------|----------------------|-------------------|------------------------|
| PD 4         | 75 kg / 165 lbs      | 4"                | 1,250 kg / 2,750 lbs   |
| PD 6 – 8     | 210 kg / 463 lbs     | 6"-8"             | 1,600 kg / 3,525 lbs   |
| PD 10 – 14   | 386 kg / 851 lbs     | 10"-14"           | 3,000 kg / 6,615 lbs   |
| PD 16 – 22   | 435 kg / 959 lbs     | 16"-22"           | 4,000 kg / 8,815 lbs   |
| PD 24 – 32   | 530 kg / 1,169 lbs   | 24"-32"           | 6,000 kg / 13,225 lbs  |
| PD 34 – 42   | 660 kg / 1,455 lbs   | 34"-42"           | 7,700 kg / 16,975 lbs  |
| PD 42 – 48   | 790 kg / 1,742 lbs   | 42"-48"           | 11,550 kg / 25,465 lbs |
| PD 50 – 54   | 1,210 kg / 2,668 lbs | 50"-54"           | 15,000 kg / 33,070 lbs |
| PD 56 – 62   | 1,450 kg / 3,197 lbs | 56"-62"           | 18,000 kg / 39,685 lbs |

*We also manufacture pads for double jointed 24 m / 80 ft pipe, as well as custom-designed suction pads.*

# Suction Pads



# Pipe Bending Machines

The newest version of SUPERIOR's 6 sizes of pipe bending machines is the Millennium Series. These machines are all equipped with LUDV, a unique load-sensing control system that is unprecedented in terms of performance. This proportional system enables the operator to fine tune the combination of bending power and speed, which is a very crucial advantage when bending high-strength pipe.

Thanks to the frame and the load-bearing structures that are sized to withstand the highest pushes, the Millennium Series also bends the most robust pipe such as X-80 and X-100 pipe. Also standard on all machines are 2 extra hydraulic valves to power and control the mandrel along with quick disconnects for the hydraulic lines of the mandrel.

The latest generation of the electronic injection Caterpillar engines supplies more power, thus favoring and further enhancing the potential of the Bosch Rexroth system.

The new operator's platform has been redesigned for fitting the new optional cabin, which offers a completely comfortable environment. The controls have been repositioned in such a way as to give the operator greater visibility.

An extra roller has been added to the front of the larger machines to make it easier to guide the pipe into the machine. All of the guide rollers of the SUPERIOR fleet of bending machines are ball-bearing mounted in order to enable the rollers to rotate smoothly.

The long undercarriage equalizes the pressure exerted by the machine onto the ground, thus keeping the machine stable while bending.

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*SPB 6-20*

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*SPB 16-30*

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*SPB 22-36*

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*SPB 32-42*

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*SPB 36-48*

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*SPB 48-60*

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# Features



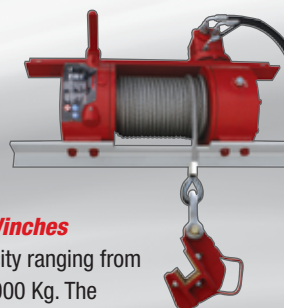
## Operator's Platform

By placing the operator's platform and the enclosed engine compartment on opposite sides, the result is maximum operator visibility and a greatly reduced noise level. An optional cabin (below) is available on select models.



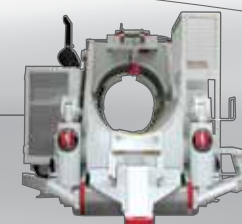
## Engine (Opposite side)

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.



## Hydraulic Winches

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, making the machine more resistant to stresses, thus permitting bending of high tensile strength pipes.



## Hydraulic System

New hydraulic system with a load-sensing variable pump and a five-spool proportional valve, allowing much safer, faster and 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, low power consumption components and the cylinders can bear high pressures up to 6,000 PSI.



## Tracks

Caterpillar-type crawler undercarriages with triple grouser bars on industrial-grade shoes. A hydraulic cylinder controls the tensioning of the tracks.



# Models



## **SPB 6-20**

Operating weight 6,000 kg / 13,228 lbs

Maximum operating pressure 4,061 p.s.i. / 280 bar

Net flywheel power 48 HP (with Cat engine)

## **SPB 16-30**

Operating weight 18,000 kg / 39,683 lbs

Maximum operating pressure 4,060 p.s.i. / 280 bar

Net flywheel power 142 HP (with Cat engine)

## **SPB 22-36**

Operating weight 27,000 kg / 59,525 lbs

Maximum operating pressure 4,350 p.s.i. / 300 bar

Net flywheel power 142 HP (with Cat engine)

# Pipe Bending Machines



#### **SPB 32-42**

Operating weight 43,500 kg / 95,900 lbs  
 Maximum operating pressure 4,640 p.s.i. / 320 bar  
 Net flywheel power 168 kW / 225 HP

#### **SPB 36-48**

Operating weight 68,000 kg / 149,914 lbs  
 Maximum operating pressure 4,640 p.s.i. / 320 bar  
 Net flywheel power 168 kW / 225 HP

#### **SPB 48-60**

Operating weight 96,000 kg / 211,644 lbs  
 Maximum operating pressure 4,640 p.s.i. / 320 bar  
 Net flywheel power 168 kW / 225 HP



# Welder Tractors

Our pipe welder line is comprised of two basic platforms: a Caterpillar-based welder tractor and a proprietary SUPERIOR Flat Bed-based tractor.

The SPW-D6 series are Cat-based welder tractors available in any D6 model variation and we offer an exceptional level of customization. From the knuckle boom, welding units, bottles, generators, etc., we can tailor-make them based on our customers' specific needs.

The SFT-180W's modular design allows for not only complete customization but also the possibility of retrofitting it for other specialized purposes, such as induction heating, sand-blasting, pipe carrying, dumping, workshop boxes, etc. This modularity makes this system unparalleled in terms of versatility.

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*SPW-D6D*

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*SPW-D6E*

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*SPW-D6M/N*

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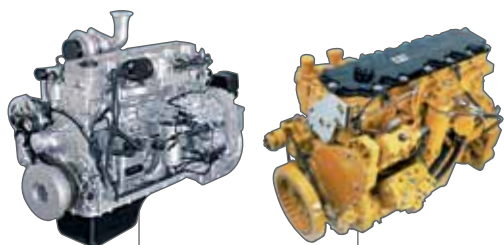
*SPW-D6R*

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*SFT-180W*

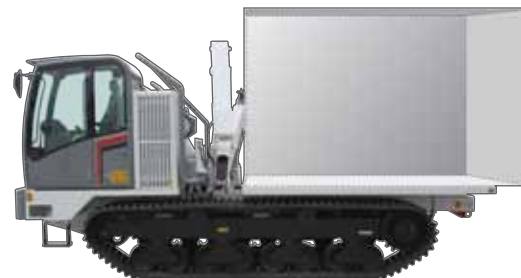
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# Features



## **Engines**

You have a choice of engine: Caterpillar or Iveco FPT. Both of these comply with environmental rules (EPA and Tier 4).



## **Modular Design**

The versatility of this design means that you can repurpose your tractor to fulfill other specialized tasks such as sand-blasting, heat induction or dumping.

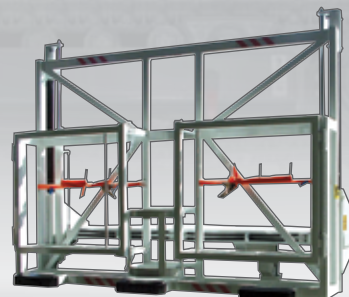


SFT-180W



## **Joystick Control**

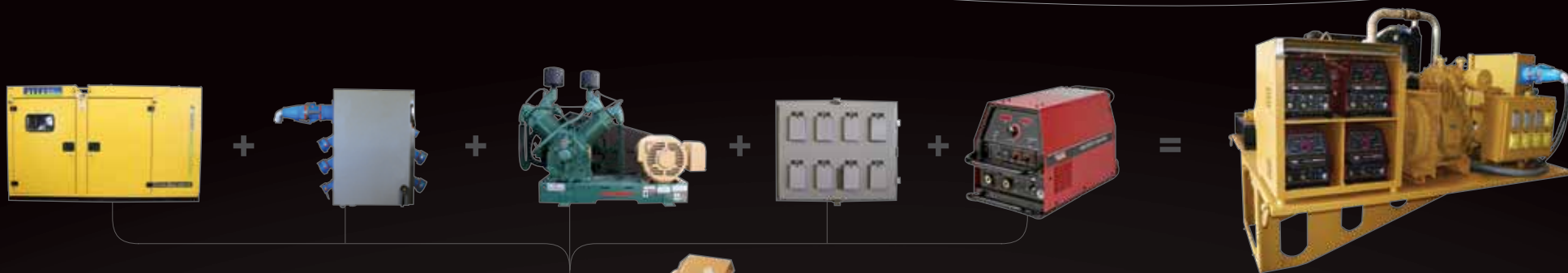
The ergonomic joystick controller can be hydraulic or electronic, and provides better control of the machine. The hydrostatic transmission's high reliability is due to its components: Sauer-Danfoss or Bosch-Rexroth.



## **Bottle Holder (optional)**

An optional bottle holder can be fitted to the back of the platform. It is hydraulically operated for greater ease-of-use. A safety switch prevents the machine from moving while engaged.





### **Packages**

The SPW-D6 Series can be outfitted with many different components, including a power generator, welding units, breaker boxes, air compressors, etc.

### **Platform**

The platform is self-contained –no need to connect to the PTO– and can be mounted to a different tractor with just a bracket adaptor.



SPW-D6R

### **Hydraulic Boom**

We have several brands of hydraulic booms from which to choose: Hiab, Maxilift or Bonfiglioli.

# Models



| <b>SPW-D6D</b>                     | <b>SPW-D6E</b>                     | <b>SPW-D6M/N</b>                   | <b>SPW-D6R</b>                     | <b>SFT-180W</b>                    |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Weight 18,000 kg / 39,600 lbs      | Weight 18,000 kg / 39,600 lbs      | Weight 15,050 kg / 33,200 lbs      | Weight 20,500 kg / 45,000 lbs      | Weight 18,500 kg / 40,785 lbs      |
| Boom capacity 5 ton*               | Boom capacity 5 ton*               | Boom capacity 5 ton*               | Boom capacity 5 ton*               | Boom capacity 2,450 kg / 5,400 lbs |
| Net flywheel power 115 kW / 155 HP | Net flywheel power 115 kW / 155 HP | Net flywheel power 104 kW / 140 HP | Net flywheel power 138 KW / 185 HP | Net flywheel power 168 kW / 225 HP |

\* Higher boom capacities are available upon request.

Cat-Based

Flat Bed





# Pipe Carriers

The SPC-Series are Cat-based pipe carriers fitted with a special kit to transport pipes of various diameters. The hydraulic operated cradle arms require no special hydraulic power source and can be easily removed and re-installed. In addition, this kit can be made to fit your Caterpillar tractor.

The SPC-D60 –based on a Caterpillar D6M XL or D6M LGP tractor– can carry pipe sizes ranging from 6 to 24 inches. The SPC-D70 is based on a D7R tractor and it's ideal for pipe sizes ranging from 24 to 48 inches. The biggest model of the family, the SPC-D80, is suitable for sizes ranging from 40 to 60 inches and it's based on a D8R tractor.

We also offer a pipe carrier mounted on our Flat Bed tractors. The SFT-250 has a centered cabin for improved stability and offers the same versatility found in other Flat Bed solutions. This means the pipe carrying kit can be easily removed to re-purpose the tractor for other specialized tasks, such as dumping, welding, heat induction, sand-blasting, etc.

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*SPC-D60*

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*SPC-D70*

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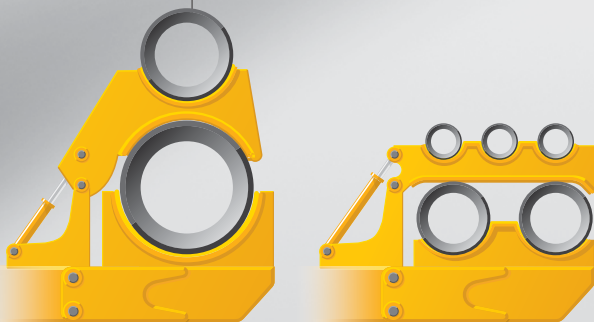
*SPC-D80*

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*SFT-250*

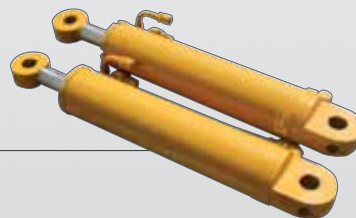
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# Features



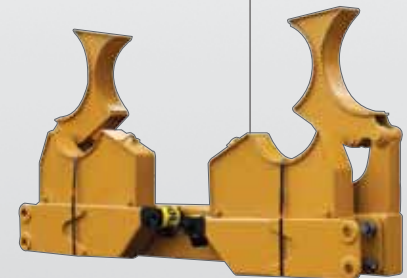
## Custom Cradles

The cradles are custom-made to fit any pipe size combination the customer requires. The cradles can be replaced to fit different pipe sizes within the machine's pipe range.



## Hydraulic System

The top cradle tilts up hydraulically for loading and unloading, creating a safer work environment. The hydraulic cylinders are controlled from the cabin.



## Ease of Transport

The pipe carrying kit can be partially disassembled for transport, then easily assembled back again.



## **SPC-D60**

Operating weight 16,000 kg / 35,300 lbs

Pipe sizes 6" to 24"

Net flywheel power 115 kW / 153 HP

## **SPC-D70**

Operating weight 24,800 kg / 54,560 lbs

Pipe sizes 24" to 48"

Net flywheel power 171 kW / 230 HP

## **SPC-D80**

Operating weight 34,770 kg / 76,494 lbs

Pipe sizes 40" to 60"

Net flywheel power 252 kW / 338 HP

## **SFT-250**

Operating weight 17,000 kg / 37,480 lbs

Pipe sizes up to 48"

Net flywheel power 186 kW / 250 HP

Cat-Based

Flat Bed



# Flat Bed Tractors

The Flat Bed tractors are SUPERIOR's premier solution for specialized tasks such as pipe welding, pipe carrying, heat induction, sand-blasting, dumping, portable work shops, or a simple Flat Bed.

There are two basic undercarriage choices: rubber (SRT) and tracked (SFT). Rubber undercarriage offers increased speed and ease of movement and it's ideal for jobsites where a tracked vehicle would not be allowed, such as paved roads. The tracked undercarriage offers better traction and higher weight loads and it is best suited for dirt or muddy roads.

There are several models and configurations available, making this one of the most versatile and customizable solutions on the market. The modular design allows the customer to uninstall the loaded kit and re-purpose the tractor with another kit or simply use it as a Flat Bed.

The SRT/SFT series features hydrostatic transmission and a choice of either Caterpillar or Iveco engines, both of which comply with environmental rules (EPA and Tier 4.)

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*SRT-155WS*

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*SRT-155FB*

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*SRT-155DP*

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*SFT-155*

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*SFT-180*

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*SFT-180W*

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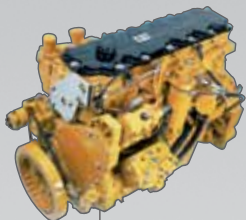
*SFT-225D*

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*SFT-250*

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# Features



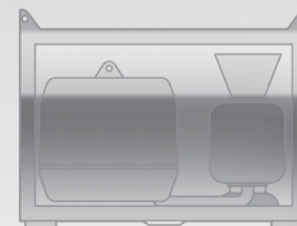
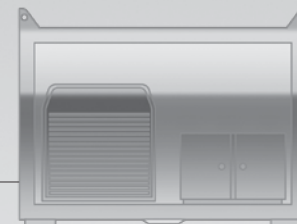
## **Engines**

You have a choice of engine: Caterpillar or Iveco FPT. Both of these comply with environmental rules (EPA and Tier 4).



## **Hydraulic Boom**

We have several brands of hydraulic booms from which to choose: Hiab, Maxilift or Bonfiglioli.



## **Modular Design**

The versatility of this design means that you can repurpose your tractor to fulfill various specialized tasks such as sand-blasting, heat induction, pipe welding or dumping.



## **Joystick Control**

The ergonomic joystick controller can be hydraulic or electronic, and provides better control of the machine. The hydrostatic transmission's high reliability is due to its components: Sauer-Danfoss or Bosch-Rexroth.



## **Undercarriage**

The SRT/SFT series are available with either rubber (SRT) or tracked (SFT) undercarriage.



# Models



## **SRT-155 WS**

Weight 9,700 kg / 21,385 lbs

Load capacity 6,000 kg / 13,228 lbs

Horsepower 129 kW / 175 HP



## **SRT-155 FB**

Weight 11,400 kg / 25,132 lbs

Max. lifting capacity 800 kg / 1,763 lbs

Horsepower 153 kW / 202 HP



## **SRT-155 DP**

Weight 10,800 kg / 23,809 lbs

Capacity 2,7 m<sup>3</sup> / 95 ft<sup>3</sup>

Horsepower 153 kW / 202 HP

# Rubber Undercarriage (SRT)



#### **SFT-155**

Weight 11,400 kg / 25,133 lbs

Max. lifting capacity 800 kg / 1,763 lbs

Horsepower 153 kW / 202 HP

#### **SFT-180**

Weight 13,500 kg / 29,762 lbs

Max. lifting capacity 2,450 kg / 5,400 lbs

Horsepower 168 kW / 225 HP

#### **SFT-180W**

Weight 18,500 kg / 40,785 lbs

Max. lifting capacity 2,450 kg / 5,400 lbs

Horsepower 168 kW / 225 HP

#### **SFT-225D**

Weight 17,000 kg / 37,478 lbs

Capacity 15 m<sup>3</sup> / 530 ft<sup>3</sup>

Horsepower 168 kW / 225 HP

#### **SFT-250**

Weight 17,000 kg / 37,478 lbs

Max. lifting capacity 4,300 kg / 9,480 lbs

Horsepower 153 kW / 205 HP

## Tracked Undercarriage (SFT)



# Pipe Facing Machines

Our pipe facing machines consists of three basic elements: the base unit, the clamp that fits into it and the generator that powers it up.

The base unit is available in four models ranging in size from 8 through 60 inches. There are two clamps available for each model: a small and a large one. Each one can handle a range of sizes for that particular base unit.

The SUPERIOR SFM pipe facing machines are quickly adjustable to any size within the machine's range and can be easily set up to any bevel configuration: stick electrode including modified J bevel, any automatic welding bevel and transition bevels. Brush adapters eliminate both internal and external manual buffing, grinding or sanding.

The hydraulics on the SFM are Bosch Mannesmann and the choices of engine for the power unit are Caterpillar or Deutz.

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*SFM 8-14*

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*SFM 16-32*

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*SFM 34-48*

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*SFM 48-60*

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# Features



## Control Panel (not shown)

A control panel allows the operator to control the machine's main functions.

An emergency button will block all hydraulic operations without affecting the diesel engine of the power unit.



## Tooling

The bearing wheel features a number of tool-holding heads. Rotation and forward motion allow these heads to bevel the pipe.



## Pistons

Small pistons push into the internal wall of the pipe during clamp opening to allow for the pipe facing machine's alignment.

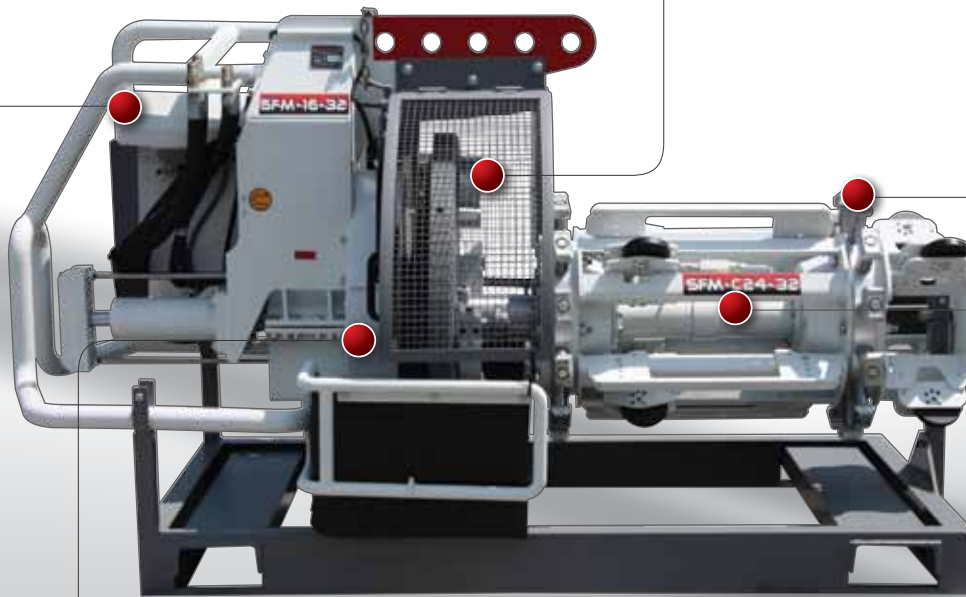


## Power Unit

The power unit is a diesel-powered, independent unit which supplies the necessary hydraulic power to the pipe facing machine.



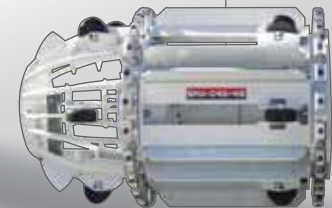
The power unit's easy-to-read control panel controls the power unit. It is separate from the SFM's control panel, which controls the pipe facing machine.



## Main Frame

The main frame features a strong metal construction to withstand high pressure. Quick connectors are located at the top of the machine to easily hook it up to the power unit.

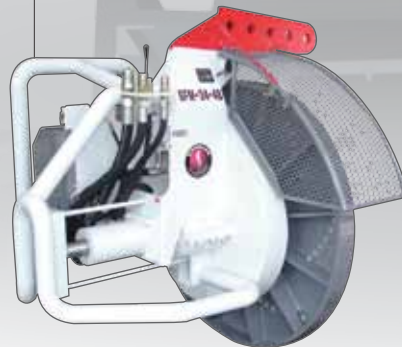
A mesh covering on the bearing wheel serves as a safety feature. The guard frame on the back protects both the control panel and push cylinder.



## Clamp Assembly

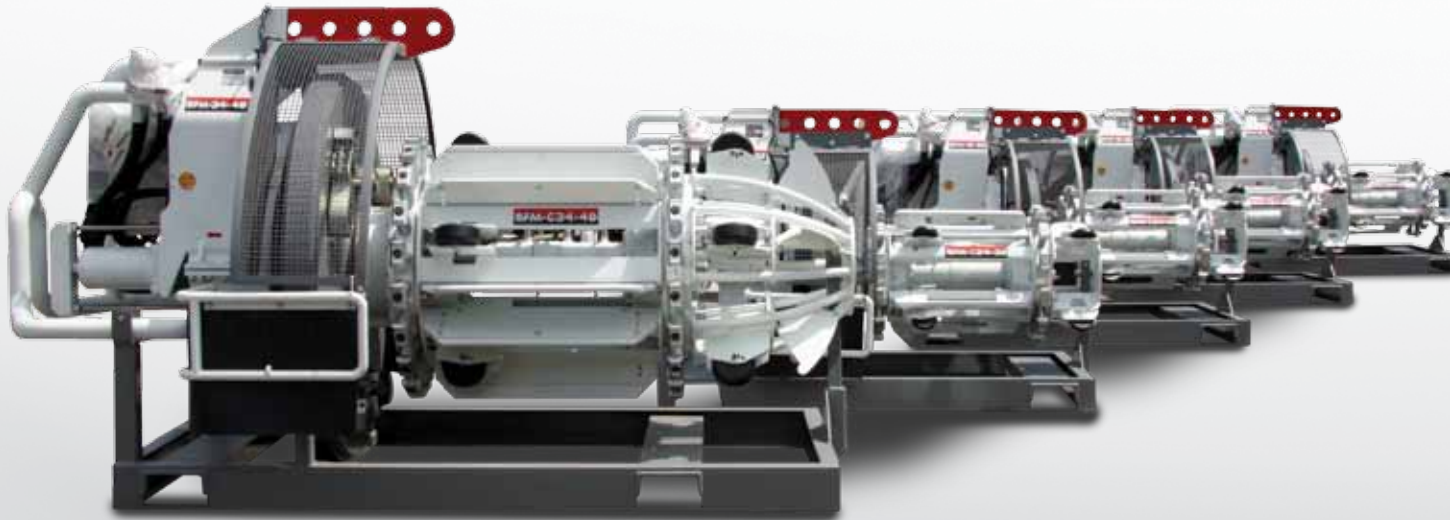
There are two clamp sizes available for each pipe facing machine model: a large clamp and a small one. Each clamp can handle a wide range of pipe sizes.

The SFM pipe facing machines come with either a large or a small clamp assembly.



## Pipe Facing Machines





| <b>SFM 8-14</b>                  | <b>SFM 16-32</b>                 | <b>SFM 34-48</b>                 | <b>SFM 48-60</b>                 |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Pipe range 8-14 in               | Pipe range 16-32 in              | Pipe range 34-48 in              | Pipe range 48-60 in              |
| Weight 454 kg / 1,000 lbs        | Weight 1,800 kg / 3,968 lbs      | Weight 2,100 kg / 4,630 lbs      | Weight 2,515 kg / 5,544 lbs      |
| <b>Small clamp (SMC-C 8-10)</b>  | <b>Small clamp (SMC-C 16-22)</b> | <b>Small clamp (SMC-C 34-40)</b> | <b>Small clamp (SMC-C 48-54)</b> |
| Pipe range 8-10 in               | Pipe range 16-22 in              | Pipe range 34-40 in              | Pipe range 48-54 in              |
| Weight 45 kg / 100 lbs           | Weight 600 kg / 1,322 lbs        | Weight 990 kg / 2,182 lbs        | Weight 2,200 kg / 4,850 lbs      |
| <b>Large clamp (SMC-C 10-14)</b> | <b>Large clamp (SMC-C 24-32)</b> | <b>Large clamp (SMC-C 42-48)</b> | <b>Large clamp (SMC-C 56-60)</b> |
| Pipe range 10-14 in              | Pipe range 24-32 in              | Pipe range 42-48 in              | Pipe range 56-60 in              |
| Weight 68 kg / 150 lbs           | Weight 1,000 kg / 2,205 lbs      | Weight 1,610 kg / 3,549 lbs      | Weight 2,300 kg / 5,070 lbs      |

## Pipe Facing Machines



#### **SFM-PU 100**

Sound-proof engine

Weight 2,250 kg / 4,960 lbs

Horsepower 74 kW / 101 HP



#### **SFM-PU 140**

Sound-proof engine

Weight 2,750 kg / 6,062 lbs

Horsepower 104 kW / 142 HP

## Power Units



# Pipeline Accessories

SUPERIOR manufactures a comprehensive line of hydraulic wedge mandrels and line-up clamps, ranging in size from 10 to 62 inches. These pipeline accessories are manufactured with high quality steel to be used on thicker wall pipe and support high stresses. Larger sizes can be custom-made upon request.

Motorized travel is standard on the line-up clamps above 20 inches. This feature is also available as an option for clamps smaller than 20 inches.

The bending sets are available both lined and bare, and they are reinforced in high stress areas for maximum strength.

In addition, we offer roli-cradles as part of our pipelaying solutions. The high quality rollers are designed to avoid damaging the pipe.

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***Mandrels***

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***Line-Up Clamps***

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***Bending Sets***

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***Roli-Cradles***

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|                     |                     |                     |                       |                       |                         |                         |                         |
|---------------------|---------------------|---------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|
| <b>SWH 10</b>       | <b>SWH 12-14</b>    | <b>SWH 16-18</b>    | <b>SWH 20-22</b>      | <b>SWH 24-26</b>      | <b>SWH 28</b>           | <b>SWH 30-32</b>        | <b>SWH 34-36</b>        |
| Pipe range 10 in    | Pipe range 12-14 in | Pipe range 16-18 in | Pipe range 20-22 in   | Pipe range 24-26 in   | Pipe range 28 in        | Pipe range 30-32 in     | Pipe range 34-36 in     |
| W: 170 kg / 374 lbs | W: 200 kg / 440 lbs | W: 420 kg / 924 lbs | W: 660 kg / 1,452 lbs | W: 800 kg / 1,760 lbs | W: 1,320 kg / 2,904 lbs | W: 1,725 kg / 3,795 lbs | W: 1,785 kg / 3,927 lbs |

|                         |                         |                         |                         |                          |                          |                          |                          |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>SWH 36-38</b>        | <b>SWH 40-42</b>        | <b>SWH 42-44</b>        | <b>SWH 46-48</b>        | <b>SWH 48-50</b>         | <b>SWH 52-54</b>         | <b>SWH 56-58</b>         | <b>SWH 60-62</b>         |
| Pipe range 36-38 in     | Pipe range 40-42 in     | Pipe range 42-44 in     | Pipe range 46-48 in     | Pipe range 48-50 in      | Pipe range 52-54 in      | Pipe range 56-58 in      | Pipe range 60-62 in      |
| W: 2,450 kg / 5,390 lbs | W: 2,510 kg / 5,522 lbs | W: 3,638 kg / 8,020 lbs | W: 4,320 kg / 9,504 lbs | W: 5,003 kg / 11,030 lbs | W: 5,430 kg / 11,946 lbs | W: 5,960 kg / 13,112 lbs | W: 6,200 kg / 13,640 lbs |

## Hydraulic Wedge Mandrels

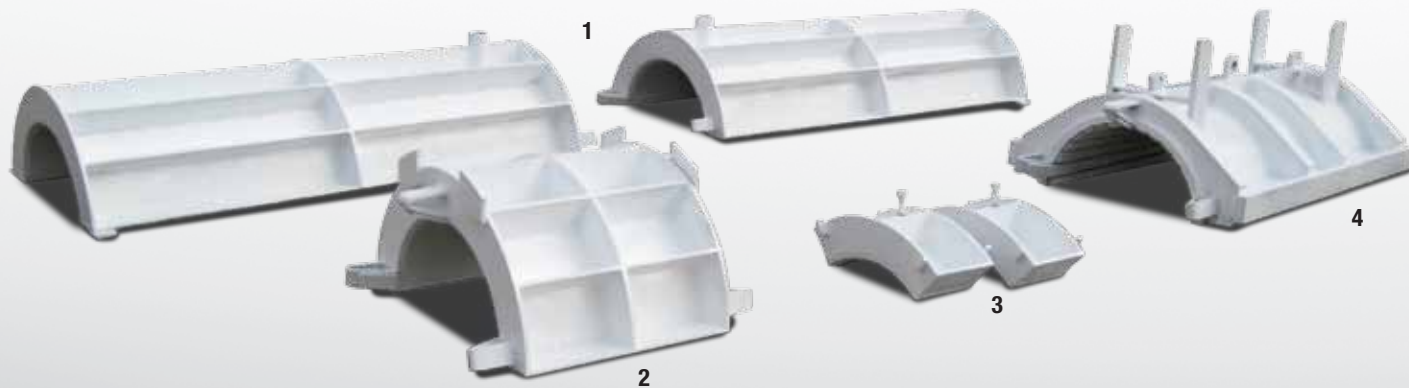


| <b>SLC 8</b>        | <b>SLC 10</b>       | <b>SLC 12-14</b>    | <b>SLC 16-18</b>    | <b>SLC 20-22</b>    | <b>SLC 24-26</b>      | <b>SLC 28</b>         |
|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|
| Pipe range 8 in     | Pipe range 10 in    | Pipe range 12-14 in | Pipe range 16-18 in | Pipe range 20-22 in | Pipe range 24-26 in   | Pipe range 28 in      |
| W: 115 kg / 253 lbs | W: 130 kg / 286 lbs | W: 145 kg / 319 lbs | W: 190 kg / 418 lbs | W: 315 kg / 693 lbs | W: 600 kg / 1,322 lbs | W: 600 kg / 1,322 lbs |

| <b>SLC 30-32</b>        | <b>SLC 34-36</b>        | <b>SLC 40-42</b>        | <b>SLC 46-48</b>        | <b>SLC 50-52</b>        | <b>SLC 54-56</b>        | <b>SLC 56-60</b>        |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Pipe range 30-32 in     | Pipe range 34-36 in     | Pipe range 40-42 in     | Pipe range 46-48 in     | Pipe range 50-52 in     | Pipe range 54-56 in     | Pipe range 56-60 in     |
| W: 1,100 kg / 2,420 lbs | W: 1,200 kg / 2,640 lbs | W: 1,400 kg / 3,080 lbs | W: 2,200 kg / 4,850 lbs | W: 2,350 kg / 5,180 lbs | W: 2,550 kg / 5,610 lbs | W: 2,700 kg / 5,952 lbs |

Line-Up Clamps



| <b>For SPB 6-20</b> | <b>For SPB 16-30</b> | <b>For SPB 22-36</b> | <b>For SPB 32-42</b> | <b>For SPB 36-48</b> | <b>For SPB 48-60</b> |
|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| LBS 6/20            | LBS 16/30            | LBS 22/36            | LBS 32/42            | LBS 36/48            | LBS 48/60            |
| LBS 8/20            | LBS 18/30            | LBS 24/36            | LBS 34/42            | LBS 38/48            | LBS 50/60            |
| LBS 10/20           | LBS 20/30            | LBS 26/36            | LBS 36/42            | LBS 40/48            | LBS 52/60            |
| LBS 12/20           | LBS 22/30            | LBS 28/36            | LBS 38/42            | LBS 42/48            | LBS 54/60            |
| LBS 14/20           | LBS 24/30            | LBS 30/36            | LBS 40/42            | LBS 44/48            | LBS 56/60            |
| LBS 16/20           | LBS 26/30            | LBS 32/36            | LBS 42/42            | LBS 46/48            | LBS 58/60            |
| LBS 18/20           | LBS 28/30            | LBS 34/36            | -                    | LBS 48/48            | LBS 60/60            |
| LBS 20/20           | LBS 30/30            | LBS 36/36            | -                    | -                    | -                    |

*The first number indicates the pipe size while the second number indicates the maximum range of the bending machine where it fits. For example: an LBS 16/20 would accommodate a 16" pipe on an SPB 6-20 bender. An LBS 16/30 would also accommodate a 16" pipe but on an SPB 16-30 bender. All models are also available as bare bending sets.*

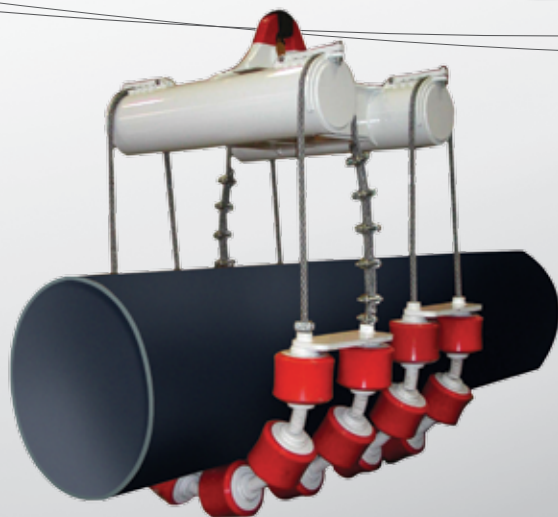
## ABOUT BENDING SETS

Each bending set will fit one pipe size only and it includes: a stiff back liner (1); a bending die (2); two pin-up clamp liners (3); and a pin-up liner (4).

Bending sets are available bare or with linings to accommodate special conditions and non-standard pipe or coating. Standard bending sets will accommodate pipe manufactured to API-5L.

The largest pipe size in a given pipe bending machine range requires a bending die only.

## Bending Sets



| <b><i>SRC 6-12</i></b>           | <b><i>SRC 12-26</i></b>           | <b><i>SRC 24-38</i></b>           | <b><i>SRC 36-50</i></b>           | <b><i>SRC 48-62</i></b>            |
|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Size 6-12 in                     | Size 12-26 in                     | Size 24-38 in                     | Size 36-50 in                     | Size 48-62 in                      |
| Total no. of rollers 20          | Total no. of rollers 24           | Total no. of rollers 28           | Total no. of rollers 32           | Total no. of rollers 36            |
| Max load 8,000 kg / 16,923 lbs * | Max load 13,000 kg / 28,662 lbs * | Max load 35,000 kg / 56,500 lbs * | Max load 45,000 kg / 69,389 lbs * | Max load 55,000 kg / 105,380 lbs * |
| Weight 515 kg / 1,135 lbs        | Weight 680 kg / 1,500 lbs         | Weight 2,250 kg / 4,960 lbs       | Weight 2,914 kg / 6,425 lbs       | Weight 3,284 kg / 7,240 lbs        |

*\* The capacities given in the table above are calculated with a safety factor of 5:1*

**Roli-Cradles**

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## Mission Statement

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To manufacture the highest quality, most productive, and most reliable equipment for the pipeline industry while fully supporting our line of equipment with proactive and robust customer service globally.



### ***Disclaimer***

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