



SPD-450 Padding Machine

Screening area	90 sq ft / 8.4 m ²
Operating weight	118,500 lbs / 53,864 kg
Engine type	Caterpillar C-13 ACERT
Horsepower	328 kW / 440 HP





SPD-450 PADDING MACHINE

ABOUT THE SPD-450

The SPD-450 is SUPERIOR's largest sized padding machine, with a massive 118,500 lbs (53,864 kg) operating weight, this machine has a screening area 1.5 times larger than the SPD-350 and 3 times larger than the SPD-250.

FEATURES

- Reversible/folding conveyor belt
- Sliding cabin for better view
- Insulated cabin
- Spill pan vibrator
- Adjustable dowel
- CE compliant

GENERAL SPECIFICATIONS

ENGINE

Type	CATERPILLAR
Model	C-13 ACERT
Net flywheel power (DIN 6270)	440 HP - 328 kW
Governed speed	2,100 g/pm
Displacement	12.5 lt - 762.8 cu in

HYDRAULIC SYSTEM

Main pumps:	Bosch-Rexroth
	- 2 independent hydrostatic variable pumps travel
Maximum capacity	2x250 lt/min - 2x66 U.S. gal/min
Maximum operating pressure	420 bar - 6,090 p.s.i.
- 1 hydrostatic variable pump escalator	
Maximum capacity	240 lt/min - 63 U.S. gal/min
Maximum operating pressure	300 bar - 5,075 p.s.i.
- 1 hydrostatic variable pump load sensing service	
Maximum capacity	125 lt/min - 33 U.S. gal/min
Maximum operating pressure	250 bar - 3,625 p.s.i.

TRANSMISSION

Type	Hydrostatic
Motors	(HYDROMATIC) two motors with axial pistons disappearing into the track frames
Brakes	Integrated negative control
Final drives	Epicycloidal oil soaked
Maximum speed	
- 1 speed	2.5 km/h - 1.6 miles/hr
- 2 speed	4.8 km/h - 3 miles/hr

TRACK FRAME

Swinging track frame with sealed and lubricated chain	
Satl track chain pitch	215.9 mm - 8.5 in
Lower track rollers	10 per side
Upper track rollers	2 per side
Length of track on the ground	4,000 mm - 157 in
Standard shoes width	700 mm - 28 in
Gauge	3,050 mm - 120 in
Track shoes	49 per side
Lower track roller area	56,000 cm ²
Pressure on the ground	0,89 kg/cm ²

CONTROLS

Type	Pilot operated
Safety	Emergency shut-off

FLUID CAPACITIES

Fuel tank	720 liters - 190 U.S. gal
Hydraulic system circuit	800 liters - 212 U.S. gal

ESCALATOR

Type	Hydrostatic, operator controlled, variable speed
Vertical adjustment	Minus 13.5 inches to plus 5 ft
Chain Adjusters	Hydraulic
Reversible double chain escalator with steel shoes	
Shoes width	1,980 mm - 78 in
Shoes sprocket height	180 mm - 7 in

FRONT CRACKING WHEEL

Number of wheel	2
Transmission	Hydraulic
Hydraulic motor	1 orbital type
Lifter	1 hydraulic cylinder
Number of tools	6
Optional	Front roller ice crushing

SCREEN

Interchangeable screen mesh	1/2" to 4"
Width	2,400 mm - 94.5 in
Length	3,500 mm - 138 in
Area	90 sq ft - 8.4 m ²
Number of decks	1
Maximum capacity	209 m ³ /hr
Maximum feed size	570 mm - 22 in
Transmission	Hydrostatic
Hydraulic motor	1 gear type

CONVEYOR BELT

Bilateral hydraulic extension slide	
Type	Rubber
Width	1,000 mm - 39.4 in
Length	6,000 mm - 236 in
Variable speed	0 - 440 mt/min
Rotation capability	Reversible
Transmission	Hydraulic variable speed
Hydraulic motors	2 orbital type

ELECTRIC SYSTEM

Operating voltage	24 V
Maintenance free supplied batteries	2
Capacity (total)	160 Ah
Starter capacity	7.5 Kw
Alternator	60 A

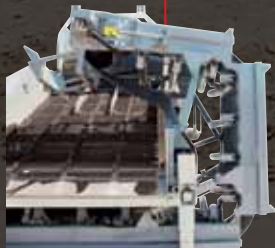
PRODUCTION

Production rate will vary with certain conditions:	
Soil Condition, Pipe Size, Terrain, R.O.W.	
Indicative production, 24" pipe, normal soil	300 mt/h - 990 ft/hr

SPD-450 FEATURES



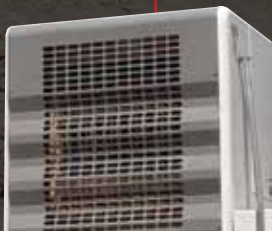
ADJUSTABLE CONVEYOR DOWEL
Controlled hydraulically to adjust angle and distance at which the material is placed back into the ditch.



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.



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



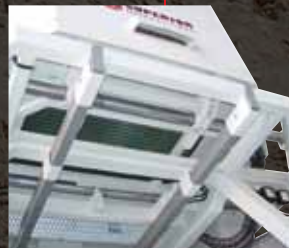
INSULATED ENGINE
Engine compartment reduces noise to comply with EU noise limit requirements.



ADJUSTABLE ESCALATOR
It can be adjusted hydraulically to compensate for different terrain gradients.



CABIN GLASS PANELING
Open glass paneling throughout cabin provides operator with 360° unobstructed view.



OSCILLATING CABIN
Hydraulically slides out to either side of the machine to facilitate working on either side of the ditch.



INSULATED CABIN
Insulated cabin with heater and A/C allows for total comfort, even in the harshest environments.

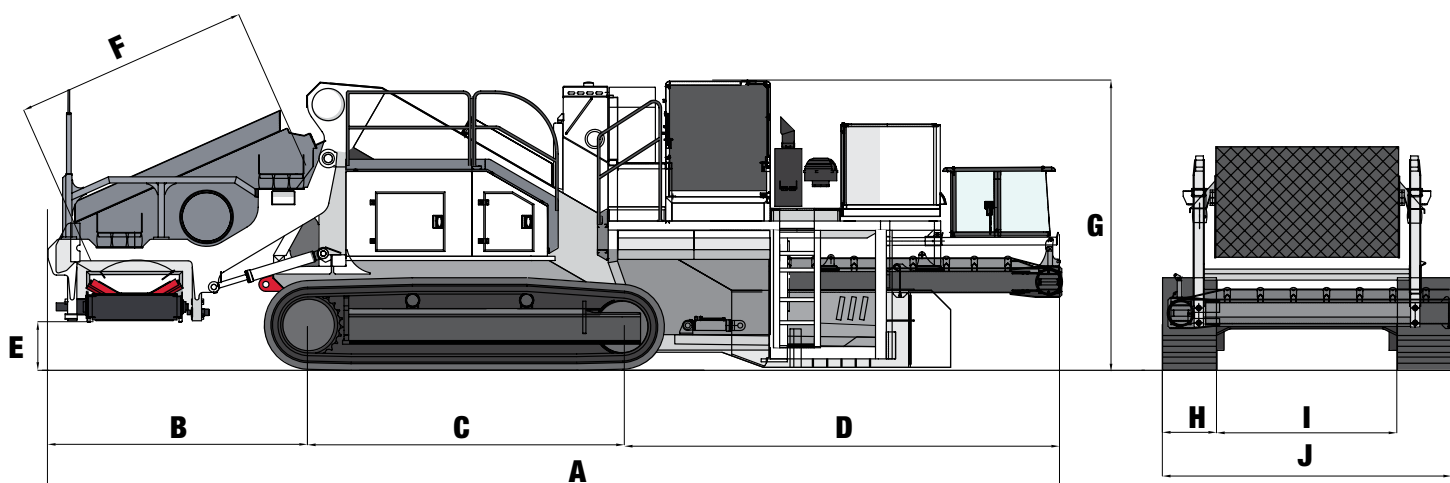


CONTROL PANEL
Controls are duplicated on both sides of the cabin for ease of operation on either side of the ditch.



DIMENSIONS

Operating weight 118,500 lb / 53,864 kg



	Feet	Meters
A Overall length (with canopy disassembled for shipping)	40.1 ft	12.22 m
B Length of screen section	9.9 ft	3.01 m
C Length of tracks on ground	12.3 ft	3.75 m
D Length of front section	17.9 ft	5.46 m
E Ground clearance to conveyor	2 ft	60 cm
F Screen length	9.4 ft	2.88 m
G Height (with canopy, railings and muffler disassembled for shipping)	11.5 ft	3.5 m
H Width of tracks	2 ft	61 cm
I Distance between tracks	5.8 ft	1.78 m
J Overall width	9.8 ft	3 m

Shipping disassembly

- Escalator railings are disassembled
- Muffler and air filter are disassembled and placed between engine and cab
- Conveyor belt long section is placed inside the front section
- Cabin is mounted on front supports

AVAILABLE MODELS



Padding Bucket | Screen Area: 1.53 m² / 16.47 sq ft



SPD-150 | Screen Area: 3 m² / 32 sq ft



SPD-250 | Screen Area: 2.78 m² / 30 sq ft



SPD-350 | Screen Area: 5.57 m² / 60 sq ft



SPD-450 | Screen Area: 8.4 m² / 90 sq ft

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