



SPX-460 Pipelayer

Max lift capacity	45,995 kg / 101,400 lb
Operating weight	32,000 kg / 70,550 lb
Net flywheel power	184 kW / 250 HP



SPX-460 PIPELAYER

- **TIER 3 ENGINE**

All SPX-Series pipelayers are built with Caterpillar Tier 3 engines.

- **HYDROSTATIC SYSTEM**

State-of-the-art hydrostatic system insures safety and reliability and is especially efficient when working on steep grades.

- **HYDRAULIC KIT**

The same kit used in the conversion of Caterpillar, Komatsu and Fiat pipelayers is used on this machine.

- **SAFETY**

Safety has always been a big focus for us. Some of the safety features are our new ATP-Plus anti-tipping system, electronic boom kick-out, anti-two block and free fall.

- **ROPS/FOPS**

Optional ROPS/FOPS is designed in such a way to allow the operator a clear view of the top of the boom and the load.

- **COUNTERWEIGHT RACK**

New design which makes the counterweight system easy to assemble and disassemble.



GENERAL SPECIFICATIONS

ENGINE

Type	Caterpillar
Model	C7 ACERT
Net flywheel power (DIN 6270-SAEJ 1349)	250 HP - 184 kW
Governed speed	2,200 rpm
Displacement	7.2 liters - 442 cu in

HYDRAULIC SYSTEM

Main pumps	(Bosch-Rexroth) 3 independent variable pumps
Maximum capacity	2 x 220 lt/min / 2 x 58.1 U.S. gal/min 1 x 273 l/min / 1 x 72.1 U.S. gal/min
Maximum operating pressure	2 x 420 bar / 2 x 6,090 p.s.i. 1 x 320 bar / 1 x 4,640 p.s.i.
Service pumps	1 tandem gear type
Maximum capacity	50 lt/min / 13 U.S. gal/min

TRANSMISSION

Type	Hydrostatic closed circuit
Brakes	(2) Integrated negative control
Final drives	Epicycloidal oil soaked
Maximum speed:	
- 1 speed	2.9 km/h - 1.8 miles/h
- 2 speed	7.2 km/h - 4.5 miles/h

CONTROLS

Type	Twin pilot operated
Safety	Emergency shut-off
TPS System: twin steering system to provide with other two levers, to drive the track independently in order to guarantee small and precise movements.	

BOOM

Type	Std. 18 ft / 5.5 m welded box square section
Optional	20 ft / 6.1 m welded box square section
Diameter wire rope	19 mm - 3/4 in
Minimum breaking strength rope	323 KN - 72,530 lb
Part load line	4
Part boom line	4

ADJUSTABLE COUNTERWEIGHTS

QD-CS: quick-disconnected counterweight system. For the possibility of disassembly in a short time (all the counterweight pack.)	
Removable counterweight	8 leaves 550 kg - 1,215 lb each
Total weight extendable	7,400 kg - 16,300 lb

TRACK FRAME

Hard track frame with sealed and lubricated chain	
Number of bottom rollers	8+8
Number of carrying rollers	2+2
Gauge	2.22 m - 7.2 ft
Length of track on the ground	3.2 m - 10.5 ft
Standard shoes width	700 mm - 27.5 in
Ground contact area	44,800 cm ² - 6,944 in ²
Optional shoes	
- Option 1 width	600 mm - 23.6 in
Ground contact area	38,400 cm ² - 5,952 in ²
- Option 2 width	760 mm - 29.9 in
Ground contact area	49,000 cm ² - 7,595 in ²

FLUID CAPACITIES

Fuel tank	400 liters / 105.6 U.S. gal
Hydraulic system circuit	210 liters / 55.5 U.S. gal
Cooling system	45 liters / 12 U.S. gal
Engine oil	27 liters / 7 U.S. gal

ELECTRIC SYSTEM

Operating voltage	24 V
Maintenance free supplied batteries	2
Capacity (total)	160 Ah
Starter capacity	7.5 Kw
Alternator	55 A

HYDRAULIC WINCHES

Type	Hydraulic controlled drums (reversible.) Driven by variable flow hydraulic pump and control valve block in open circuit.
Final drive	Compact hydrostatic drive unit, three-stage planetary gear
Brakes	Integrated multiple disk brake, spring applied hydraulic release

WINCH	Hook	Boom
Drum diameter	390 mm/15.3 in	390 mm/15.3 in
Flange diameter	590 mm/23.2 in	530 mm/20.8 in
Drum length	360 mm/14.1 in	360 mm/14.1 in
Capacity (19 mm - 3/4in)	136 m/446 ft	105 m/344 ft
Wire rope installed	51 m/167 ft	40 m/131 ft
Hook speed	0-24 m/min - 0-79 ft/min	

OPTIONAL

Closed cabin
Air conditioning
Rear winch

WINCH SPECIFICATIONS



MAIN PUMP

Type	Bosch-Rexroth axial piston variable displacement pump
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VALVES

Type	Bosch load-sensing mobile control block proportional directional valves
Max capacity	273 liters/min - 72.1 U.S. gal/min
Working pressure	320 bar - 4,642 p.s.i.

CONTROL

Type	Pilot units for remote control of winch motors Progressive and sensitive operations
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SERVICE PUMP

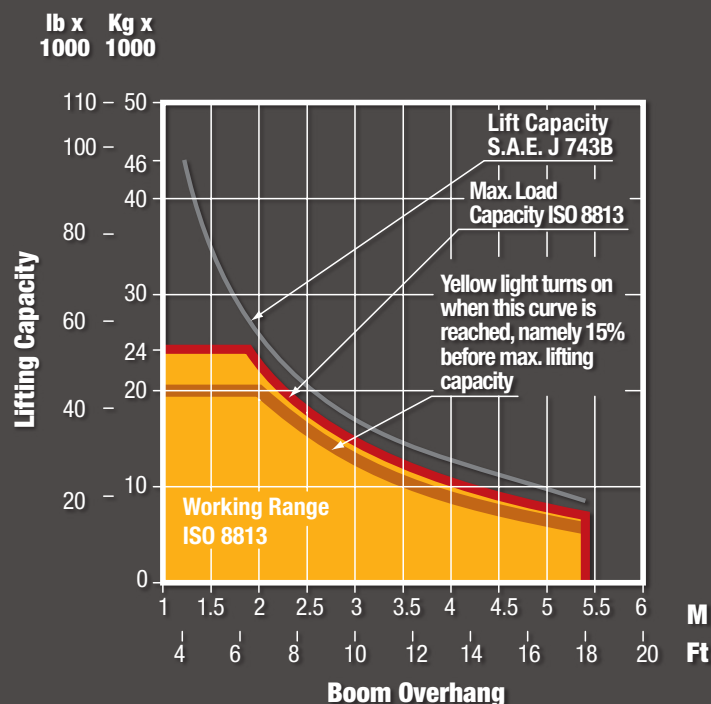
Type	Gear pump
Max capacity	50 liters/min - 13 U.S. gal/min
Working pressure	30 bar - 435 p.s.i.

FILTER

Type	Donaldson FIO500
Max capacity	500 liters/min - 132 U.S. gal/min

LIFTING CAPACITY

20 ft / 5.5 m boom

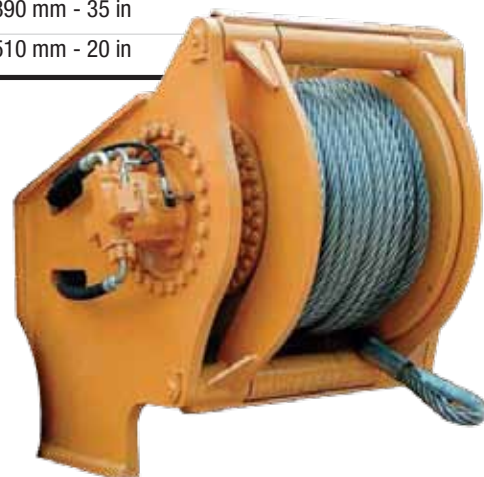


REAR WINCH AVAILABLE

Max line pull	350 KN
Max line speed	0-30 m/min 0-98.4 ft/min
Cable size	36 mm - 1.4 in
Weight	2,800 kg - 6,173 lb
DIMENSIONS	
Drum diameter	530 mm - 20.9 in
Flange diameter	890 mm - 35 in
Drum length	510 mm - 20 in

FEATURES

- CE approved design
- Planetary gear
- Automatic negative brakes
- Anti-friction bearings





HYDRAULIC SYSTEM OPTIONS

ALL HYDRAULIC

- **Freefall System**
When the button is engaged, the load free-falls and then immediately stops when the button is released.
- **Boom Kick-Out System**
This system will ensure you will never bend another boom.
- **Anti-Two Block**
Sets a minimum distance between the top block and the hook block, preventing collisions between them.

ELECTRONIC OVER HYDRAULIC

- **Freefall system, Boom kick-out system and anti-two block plus:**
- **Anti-Tipping System**
Prevents tipping by calculating the maximum load that can be lifted.





STATE-OF-THE-ART CABIN



- **CONTROLS**

With only 2 joysticks, the operator can operate both winches, increase/decrease the engine's throttle, and control the machine's travel.

- **TRANSMISSION PILOT LEVERS**

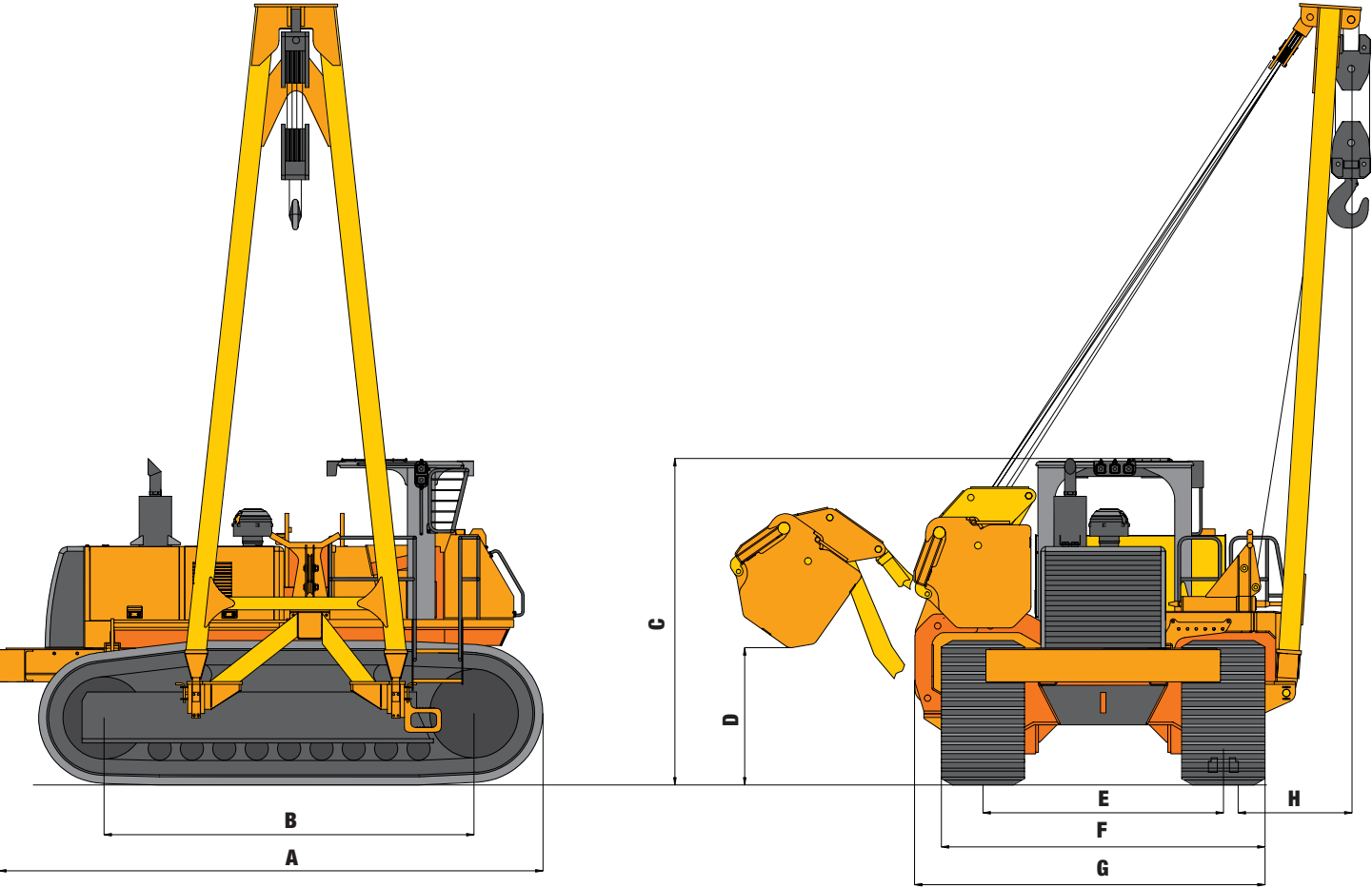
There are 2 extra pilot levers for the transmission, which can assist the operator in making precise maneuvers, such as turning in a steep hill or making pin-point movements to couple the pipes.

- **LCD DISPLAY**

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

DIMENSIONS

Operating weight 70,550 lb / 32,000 kg



	Feet	Meters
A Overall length	14.9 ft	5.06 m
B Length of tracks on ground	10.2 ft	3.2 m
C Height to top of ROPS	10.6 ft	3.3 m
D Height to bottom of counterweight (extended)	2.7 ft	1.16 m
E Track gauge	7.3 ft	2.25 m
F Width of tractor	9.7 ft	3 m
G Shipping width (left frame removed)	11.7 ft	3.6 m
H Boom overhang		
Minimum	5 ft	1.52 m
Maximum	18 ft	5.5 m

AVAILABLE MODELS



SPX-460 | 46-Ton



SPX-660 | 66-Ton



SPX-960 | 96-Ton

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