

SPX-660 PIPELAYER

Maximum lifting capacity	63,300 kg / 143,960 lbs
Operating weight	45,995 kg / 101,400 lbs
Net flywheel power	261 kW / 350 HP



OVERVIEW

features –such as the Roll Over Protective Structure (ROPS) – to In addition to the hydraulic system, the SPX-Series improves upon existing more unique ones –such as anti-tipping system and wireless anti-two designs by adding a hydrostatic system. this state-of-the-art system is block- there is a wealth of safety features that make this machine the controlled by twin levers and allows the operator to execute small and safest pipelayer on the market, bar none.

features an eight-way control scheme which allows the operator to easily on the most difficult terrains.

UPERIOR

ur main focus on the SPX-660 is safety. From industry-standard control both the boom and load with a single movement of the joystick. precise movements not possible with a final drive.

At the heart of the SPX hydraulic system is a single joystick controller. It The engine, a tier 4 Caterpillar C9 ACERT, provides plenty of power even









Fig. 1: Hydrostatic system controllers

Fig. 2: Single joystick controller (bottom)



Fig. 3: Control panel: from here the operator monitors speed, travel, pitch, load and other critical information



Fig. 4: The boom-kick out system limits vertical travel in order to prevent the boom from bending.

PERFORMANCE

Tier 4 engine

The SPX-660 is available with a tier 4 Caterpillar C9 ACERT engine.

Hydrostatic system

State-of-the-art hydrostatic system (fig. 1) ensures safety and reliability and is especially efficient when working on steep grades, allowing the operator to make precise, pin-point maneuvers to couple the pipes.

CONVENIENCE

Hydraulic system

A single joystick (fig. 2) is used to control the system hydraulically. With a single move the operator can lower or raise the boom and load.

Control panel

The control panel (fig. 3) displays all the relevant – and critical– information in an easy-to-read GUI. All the machine's safety features are controlled The boom kick-out system (*fig. 4*) works by preventing the boom from from this panel.

Counterweight rack

New design which makes the counterweight system easy to assemble and disassemble. The leaves are interchangeable with standard Caterpillar leaves.

SAFETY

FEATURE	SUPERIOR	MIDWESTERN®	CATERPILLAR®
Single lever control	~	×	×
Free-fall system	✓	✓	 Image: A start of the start of
Vertical boom kick-out	~	✓	✓
Wireless anti-two block	~	×	×
Anti-tipping system	~	×	×
CE compliance	✓	×	✓

2 Available only in electronic over hydraulic configuration.

Anti-tipping¹

It prevents the machine from tipping over by calculating the maximum load that can be lifted at the current boom angle.

Free-fall system

When the button is engaged, the load free-falls and immediately stops when the button is released.² This is a safety redundancy feature which also prevents the tipping of the machine.

Wireless anti-two block

It sets the minimum distance between the top and bottom blocks, thus preventing collision between the two. Also, wireless means there's no cable dangling alongside the boom.

Boom kick-out system

excessive upward movement. By taking human error out of the equation, this ensures that the operator doesn't bend the boom.

ROPS/FOPS

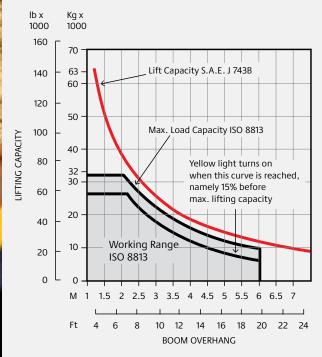
The Roll Over Protective Structure is d signed in such a way to allow the operator a clear view of the top of the boom and the load. An enclosed climatized (A/C and heater) cabin is also available.

1 Improper use of this feature may cause damage to the winch. Read all documentation before use.



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LIFTING CAPACITY







ENGINE

Туре
Model
Net flywheel power (DI
Governed speed
Displacement

HYDRAULIC SYSTEM

Main pumps	1
Maximum capacity	
Maximum operating pro	e
Service pumps	
Maximum capacity	

TRANSMISSION

Туре
Brakes
Final drives
Maximum speed: - 1 speed - 2 speed

CONTROLS

Туре
Safety
TPS System: twin steeri
drive the track indepen
movements.

WINCH SPECIFICATIONS

MAIN PUMP Bosch-Rex Туре

CONTROL

Туре

BOOM

	Caterpillar
	C9 ACERT
6270-SAEJ 1349)	350 HP - 261 kW
	2,200 rpm
	10.3 lt - 629 cu in

Bosch-Rexrot	h) 3 independent variable pumps
	2x180 lt/min - 1x119 U.S. gal/min
ssure	20 bar - 6,090 p.s.i.
	1 tandem gear type
	50 lt/min - 13 U.S. gal/min

Hydrostatic closed circuit
(2) Integrated negative control
Epicycloidal oil soaked

2.6 km/h - 1 miles/h 6.2 km/h - 3.8 miles/h

Twin pilot operated
Emergency shut-off

ering system to provide with other two levers, to ndently in order to guarantee small and precise

BOOM		
Туре	Std. 20 ft / 6.1 m	n welded box square section
Optional	24 ft / 7.4 m	n welded box square section
Diameter wire rope		19 mm - 3/4 in
Minimum breaking stre	ength rope	323 KN - 72,530 lb
Part load line		6
Part boom line		5

ADJUSTABLE COUNTERWEIGHTS

ick.)
- 1,300 lb each
0 kg - 21,825 lb

TRACK FRAME

Hard track frame with sealed and lubricated chain	
Number of bottom rollers	8+8
Number of carrying rollers	2+2
Gauge	2.4 m - 7.9 ft
Length of track on the ground	3.6 m - 11.8 ft
Standard shoes width	750 mm - 30 in
Ground contact area	54,000 cm ²
Optional shoes width	813 mm - 32 in
Ground contact area	57,600 cm ²
Pitch chain	215 mm - 8.47 in

FLUID CAPACITIES

Fuel tank	310 liters / 82 U.S. gal
Hydraulic system circuit	280 liters / 74 U.S. gal
Cooling system	45 liters / 12 U.S. gal
Engine oil	27 liters / 7 U.S. gal
Final drive each	7 liters / 1.9 U.S. gal

ELECTRIC SYSTEM

Operating voltage	24 V
Maintenance free supplied batteries	2
Capacity (total)	220 Ah
Starter capacity	7.5 Kw
Alternator	55 A

HYDRAULIC WINCHES

-	
Туре	Hydraulic controlled drums (reversible.) Driven by
	variable flow hydraulic pump and control
	valve block in open circuit.
Final driv	e 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 - 3/4	in) 136 m / 446 ft	105 m / 344 ft
Wire rope installed	100 m / 328 ft	70 m / 230 ft
Hook speed	0-16 m / min - 0-52 ft	t/min

OPTIONAL

Closed cabin
Air conditioning
Rear winch
Extra long boom

exroth axial	niston	variable	dici	alacam	ont	numn
	pistori	variable	una	JIaccin	CIIC	pump

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

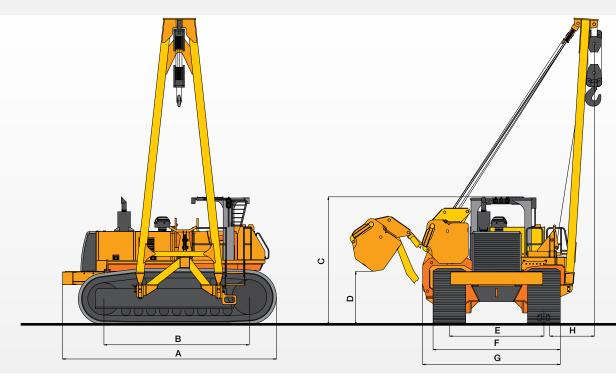
Bosch load-sensing mobile control block
proportional directional valves
286 liters/min - 75.5 U.S. gal/min
320 bar - 4,642 p.s.i.

HYDRAULIC TANK

FILTER			
Max capacity	115 liters - 30.4 U.S. gal		
Туре	Pressurized type		

s.i.	Туре	Donaldson FI0500
	Maximum capacity	500 liters/min - 132 U.S. gal/min

DIMENSIONS



A Overall length	17.7 ft	5.4 m
B Length of tracks on ground	12.1 ft	3.68 m
C Height to top of ROPS	10.8 ft	3.3 m
D Height to bottom of counterweight (extende	ed) 3.2 ft	98 cm
E Track gauge	7.9 ft	2.4 m
F Width of tracks		
Standard shoes	10.3 ft	3.15 m
Optional shoes	10.7 ft	3.25 m
G Shipping width (left frame removed)		
Standard shoes	11 ft	3.36 m
Optional shoes	11.2 ft	3.4 m
H Boom overhang		
Minimum	3.9 ft	1.22 m
Maximum	25 ft	7.5 m
Operating weight	101,400 lbs	45,995 kg

AVAILABLE MODELS



SPX-260 Lifting capacity: 26-ton



SPX-460 Lifting capacity: 46-ton



SPX-660 Lifting capacity: 66-ton



SPX-960 Lifting capacity: 96-ton



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ENCLOSED CABIN

The SPX-Series comes standard with a ROPS/FOPS structure to protect the operator. For harsher weather conditions an optional enclosed cabin is also available along with a winterization package, A/C and heater.

WINCH

SUPERIOR's rear winch is compatible with both the SP/CPX and SPX-Series and can be purchased separately.

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FEATURES

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

SPECIFICATIONS

Max line pull	220 KN
Max line speed	0-39 m/min / 0-128 ft/n
(Bare drum)	transfer and the second
Cable size	19 mm - 3/4 in
Weight	1,200 kg - 2,500 lb
Drum diameter	217 mm - 9 in





Pipelayers



Crawler Carriers



Pipeline Accessories



Pipe Benders



Padding Machines

Hydraulic Kits



Pipe Facing Machines



Vacuum Lifts



Top-Loading Padders



Rock Dump Crawlers





BRAZIL



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