

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

Max lift capacity
Operating weight
Net flywheel power

90,000 kg / 200,000 lb 55,100 kg / 121,500 lb (SP & CPX) 305 kW / 410 HP





## **GENERAL SPECIFICATIONS**

Hydraulic System Tank		120 liters / 32 U.S. gallons
.,,		g
HYDRAULIC SYSTEM		
Pump		Variable displacement, load sensing
Maximum flow		286 liters / minute
Control blocks		LUDV type, three balanced spools
Maximum working pressure		320 bar / 4640 p.s.i.
Load lowering valves		1-1/4 inch flangeable, pilot assisted
HYDRAULIC WINCHES		
Туре		Hydraulically 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 released
	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	330 mm / 13 in	360 mm / 14.1 in
Capacity (19 mm / 3/4 in)	125 m / 411 ft	75 m / 247 ft
Wire rope installed	120 m / 395 ft	70 m / 230 ft
Hook speed	0-16 m/min / 0-52 ft / min	
ВООМ		
Туре		7.31 m / 24 ft welded box square section
Diameter wire rope		19 mm / 3/4 in
Minimum breaking strength rope		323 kN / 72,530 lb
Part load line		8
Part boom line		5
ADJUSTABLE COUNTERWEIGHTS		
Removable counterweight leaves (CPX-594 & Cat 594H)		17 leaves 600 kg / 1,330 lb each
Total weight extendable		12,560 kg / 27,680 lb
Removable counterweight leaves (SP-594)		20 leaves 640 kg / 1,408 lb each
T		

#### **COMPARISONS**

Total weight extendable

	SUPEROR SP	SUPEROR SP-594		SUPERIOR CPX-594		® 594H
Tractor						
Flywheel Power	305 kW	410 hp	305 kW	410 hp	305 kW	410 hp
Track Gauge	2.28 m	89 in	2.54 m	100 in	2.54 m	100 in
Width of Std. Shoe	762 mm	30 in	860 mm	34 in	860 mm	34 in
Sideboom						
Std. Boom Length	7.31 m	24 ft	7.31 m	24 ft	7.31 m	24 ft
SUPERIOR Optional Boom	8.5 m	28 ft	8.5 m	28 ft	N/A	N/A
Hyd. Tank Capacity	120 liters	32 gal	120 liters	32 gal	N/A	N/A
Wire Rope Diameter	19 mm	3/4 in	19 mm	3/4 in	19 mm	3/4 in
Load Line Parts	8	8	8	8	8	8
Boom Line Parts	5	5	5	5	5	5
Working Weight	55,100 kg	121,500 lb	55,100 kg	121,500 lb	55,100 kg	121,500 lb

15,160 kg / 33,352 lb

## **WINCH SPECIFICATIONS**

## **LIFTING CAPACITY**

24 ft / 7.32 m boom

Maximum load capacity 45 ton





#### **MAIN PUMP**

Туре	Bosch-Rexroth axial piston variable
	displacement pump

#### **VALVES**

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

#### **CONTROL**

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

#### **SERVICE PUMP**

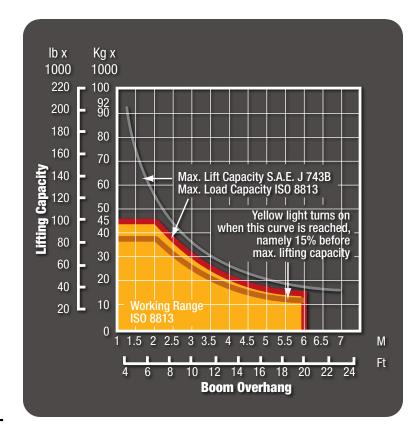
Туре	Gear pump
Max capacity	10 liters.min - 2.6 U.S. gal/min
Working pressure	30 bar - 435 p.s.i.

#### **HYDRAULIC TANK**

Туре	Pressurized type
Max capacity	120 liters - 32 U.S. gal

#### **FILTER**

Туре	Donaldson FI0500
Max capacity	500 liters/min - 132 U.S. gal/min



#### **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. IMPORTANT: Improper use of this feature may cause damage to the winch. Read all documentation before use.

• 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.

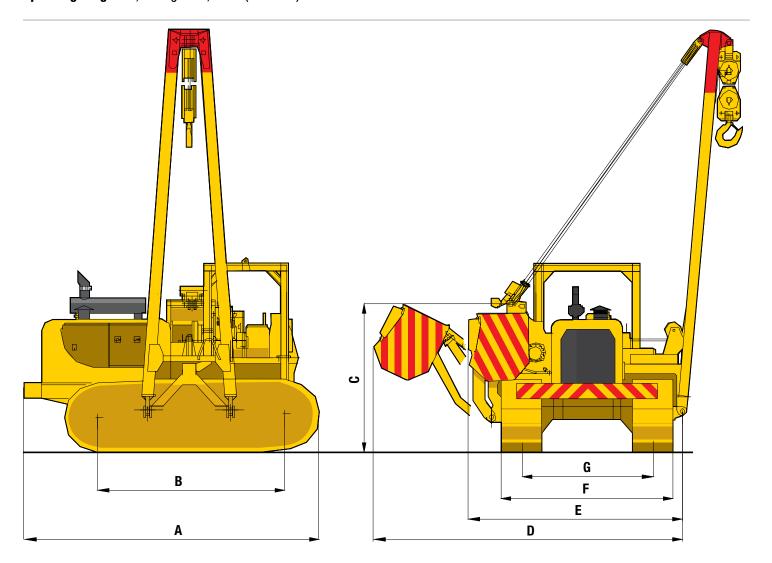
FEATURE	SUPERIOR	MIDWESTERN®	CATERPILLAR®
Single lever control	<b>V</b>	×	×
Free-fall system	<b>V</b>	<b>V</b>	<b>V</b>
Vertical boom kick-out	<b>V</b>	<b>✓</b>	<b>V</b>
Anti-two block	<b>V</b>	×	×
Anti-tipping system	V	×	×
CE compliance	V	X	V



SUPERIOR'S single lever control system 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, 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.

## **DIMENSIONS**

**Operating weight** 55,100 kg / 121,500 lb (SP & CPX)



	Feet	Meters
A Overall length	18 ft	5.5 m
B Length of tracks on ground	11 ft	3.4 m
C Height to top of counterweight (retracted)	10.2 ft	3.1 m
D Overall width (counterweights extended)	18.3 ft	5.8 m
E Overall width (counterweights retracted)	13.4 ft	4.1 m
F Width of tractor	10.1 ft	3.1 m
G Track gauge	7.5 ft	2.3 m

## **AVAILABLE MODELS**

## **CONTACT INFORMATION**

# SP-D5M/N LGP SP-D6M/N LGP













SP/CPX-594

All information is subject to change without notice.

#### **Europe**

Phone +49.0.231.963.3073 pipelinece@wwmach.com

#### Russia, China and the Middle East

Phone +39.349.198.1281 Italy Phone +7.495.507.4827 Russia fsupipeline@wwmach.com

#### India

Phone +91.11.414.59230 pipelineind@wwmach.com

#### **Africa**

Intl. Toll Free 800.9675.3948 pipeline@wwmach.com

#### **U.S. and Canada**

Phone +1.281.457.4400 pipelinena@wwmach.com

#### **Mexico and Latin America**

Phone +54.11.4381.5491 pipelinesa@wwmach.com

#### Brazil

Phone 802:9806.9948.3948 pipelinebr@wwmach.com

#### **Australia**

Phone +61.0.400.144.432 pipelinece@wwmach.com





2200 Post Oak Blvd., Ste. 1400 | Houston, TX 77056 | Phone 281.457.4400 U.S. Toll Free 800.383.2666 | Intl. Toll Free 800.9675.3948 pipeline@wwmach.com | www.superiormftg.com

