



SP-D5M/N LGP Pipelayer

Max lift capacity (SAE J743B) 18,200 kg / 40,123 lb

Operating weight 19,425 kg / 42,824 lb

Net flywheel power 82 kW / 110 HP



SP-D5M/N LGP PIPELAYER

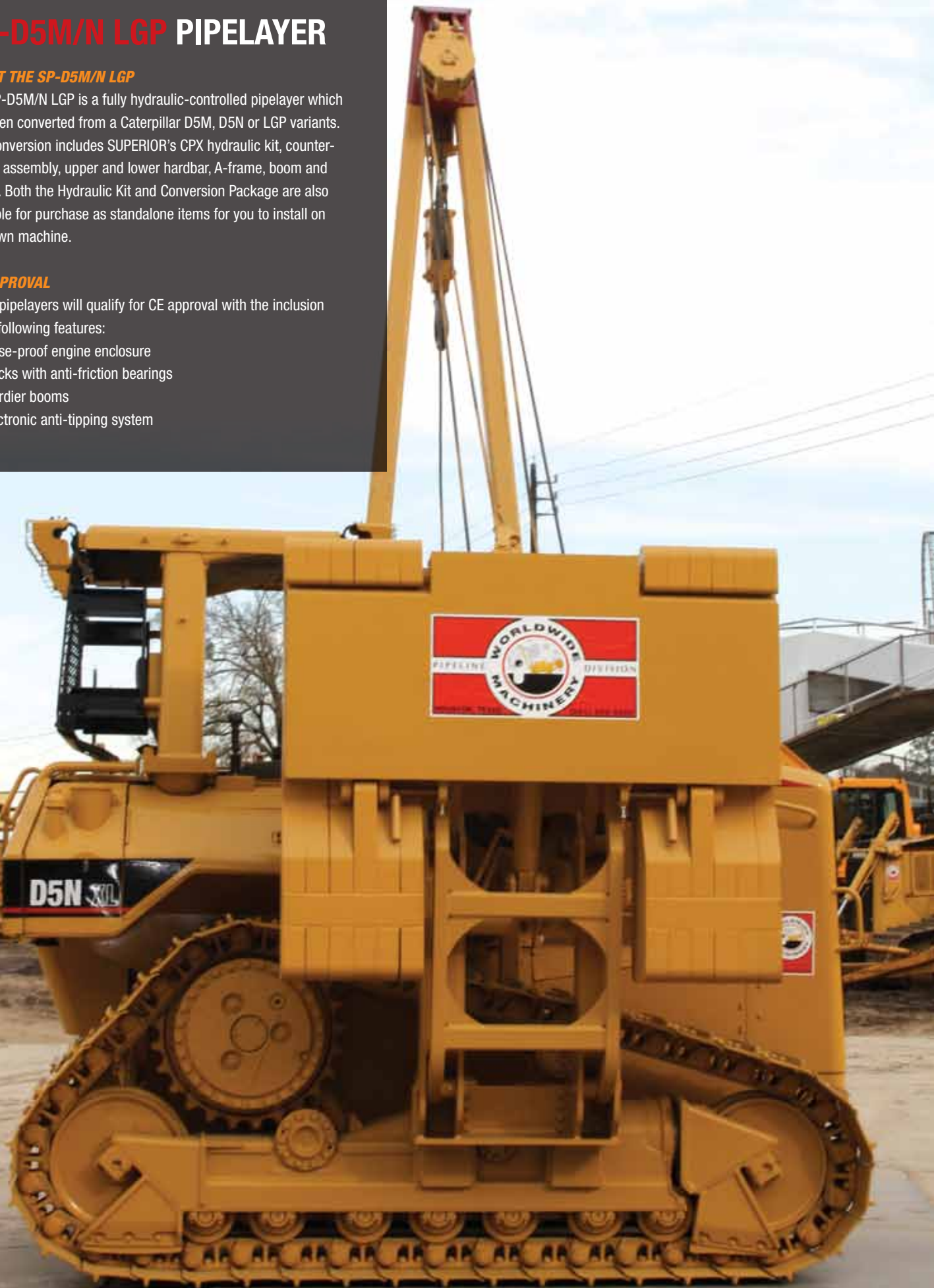
ABOUT THE SP-D5M/N LGP

The SP-D5M/N LGP is a fully hydraulic-controlled pipelayer which has been converted from a Caterpillar D5M, D5N or LGP variants. This conversion includes SUPERIOR's CPX hydraulic kit, counterweight assembly, upper and lower hardbar, A-frame, boom and blocks. Both the Hydraulic Kit and Conversion Package are also available for purchase as standalone items for you to install on your own machine.

CE APPROVAL

These pipelayers will qualify for CE approval with the inclusion of the following features:

- Noise-proof engine enclosure
- Blocks with anti-friction bearings
- Sturdier booms
- Electronic anti-tipping system



GENERAL SPECIFICATIONS

HYDRAULIC SYSTEM

Pump	Original installed on Cat D5M/N/LGP
Maximum capacity	217 lt/m - 57 U.S. gal/min
Maximum working pressure	207 bar / 3,002 p.s.i.

HYDRAULIC WINCHES

Type	Hydraulically controlled drums (reversible). Control valve block in open circuit
Final drive	Single-stage planetary gear
Brakes	Integrated multiple-disk negative brake

	HOOK	BOOM
Drum diameter	324 mm / 12.75 in	324 mm / 12.75 in
Flange diameter	430 mm / 16.9 in	430 mm / 16.9 in
Drum length	280 mm / 11 in	215 mm / 8.5 in
Capacity (16 mm / 5/8 in)	59.6 m / 195.5 ft	45.5 m / 149.5 ft
Wire rope installed	45 m / 147.6 ft	40 m / 131.2 ft
Rope diameter	16 mm / 5/8 in	16 mm / 5/8 in
Bare drum hook speed	40 m/min - 131 ft/min	40 m/min / 131 ft/min
3 part line hook speed	13.5 m/min / 44.3 ft / min	-

BOOM

Type	5.49 m / 18 ft welded box square section
Diameter wire rope	16 mm / 5/8 in
Minimum breaking strength rope	211 kn / 47,398 lb
Part load line	3
Part boom line	3
Optional folding boom available	

CONTROLS

Type	Pilot operated
Safety	Emergency shut-off

ADJUSTABLE COUNTERWEIGHTS

(2) removable counterweight packs	1,290 + 1,035 kg / 2,844 + 2,282 lb
Total weight extendable	3,082 kg / 6,795 lb

SET BLOCKS

Class of mechanism (UNI ISO 4301/02)	M3
Pulley diameter	256 mm / 10 in
Pulley rotation	Roller bearing each

CAPACITIES

Fuel tank	218 liters / 58 U.S. gallons
Hydraulic tank	32 lt / 8.5 U.S. gal
Cooling system	46 lt / 12 U.S. gal
(2) Final drivers track (each)	6 liters / 1.5 U.S. gal
(2) Final drivers winch (each)	0.75 lt / 0.2 U.S. gal

ELECTRIC SYSTEM

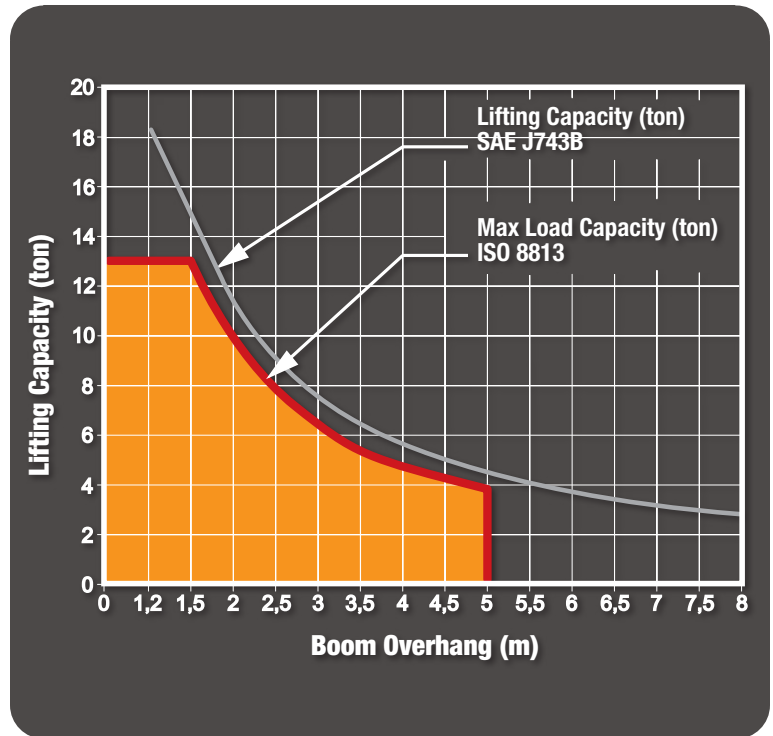
Operating voltage	24V
Maintenance free supplied batteries	2

WINCH SPECIFICATIONS

LIFTING CAPACITY

18 ft / 5.49 m boom

Max load capacity 13,000 kg / 28,660



MAIN PUMP

Type Bosch-Rexroth axial piston variable displacement pump

VALVES

Type 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

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

SERVICE PUMP

Type Gear pump

Max capacity 10 liters.min - 2.6 U.S. gal/min

Working pressure 30 bar - 435 p.s.i.

HYDRAULIC TANK

Type Pressurized type

Max capacity 100 liters - 26.4 U.S. gal

FILTER

Type Donaldson F10500

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



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	✓	✗	✗
Free-fall system	✓	✓	✓
Vertical boom kick-out	✓	✓	✓
Anti-two block	✓	✗	✗
Anti-tipping system	✓	✗	✗
CE compliance	✓	✗	✓

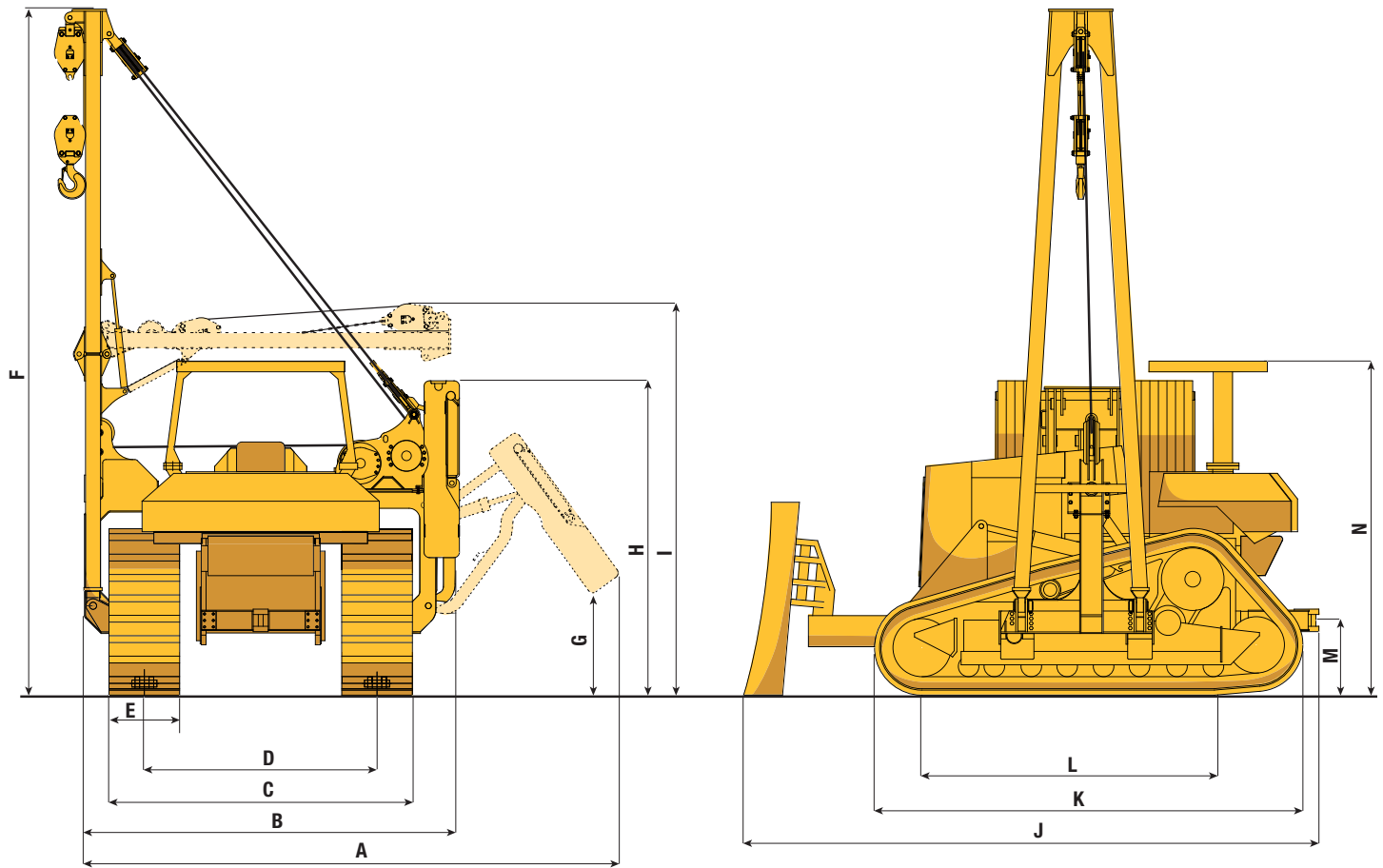


SINGLE JOYSTICK CONTROLLER

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 19,425 kg / 42,824 lb



	Feet	Meters
A Overall width (counterweights extended)	15.4 ft	4.69 m
B Overall width (counterweights retracted)	10.5 ft	3.2 m
C Width of tractor	8.4 ft	2.6 m
D Track gauge	6.6 ft	2 m
E Standard shoe width	1.83 ft	56 cm
F Overall height	20.6 ft	6.3 m
G Ground clearance to bottom of counterweight (extended)	2.7 ft	82.2 cm
H Height to top of counterweight (retracted)	9.6 ft	2.9 m
I Height to folded boom*	11.6 ft	3.54 m
J Overall length with blade*	16 ft	4.9 m
K Overall tractor length	11.2 ft	3.4 m
L Length of track on the ground	8.54 ft	2.6 m
M Hitch clearance	1.9 ft	57.6 cm
N Height to top of canopy	10.1 ft	3.09 m

AVAILABLE MODELS



SP-D5M/N LGP



SP-D6M/N LGP



CPX-561



CPX-571



SP/CPX-572



SP/CPX-583



SP/CPX-594

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