



SB-85XP

PIPELAYER



- **Net Horsepower**
260 kW (350 hp)
- **Max Lifting Capacity**
100 000 kg (220,460 lb)
- **Operating Weight**
61 100 kg (134,700 lb)

SB-85XP PIPELAYER

- High stability and low ground pressure
- Easy operation of hydraulically controlled boom
- Two different hook speeds for raising and lowering
- Modular power train components



ENGINE

Make and Model	Cummins KT-19C
Type	4-cycle diesel, turbocharged, direct start, direct injection
Gross Horsepower @ 2100 rpm	280 kW (380 hp)
* Flywheel power @ 2100 rpm	260 kW (350 hp)
Maximum torque @ 1500 rpm	1566 Nm (1155 lb ft)
Number of cylinders	6
Displacement	18.8 l (1150 in ³)
Bore and Stroke	159 x 159 mm (6.25" x 6.25")
Lubrication, full flow filtering w/bypass	full pressure
Number of main bearings	7
Electrical system	24V
Air Cleaner	two stage, exhaust aspirated, dry type with service indicator

* Output of standard engine complete with fan, air cleaner, muffler, alternator, water pump, lubricating oil pump and fuel pump per SAE J1349

TRANSMISSION & TORQUE CONVERTER

Modular countershaft type power shift, hydraulically controlled and actuated.
Single stage 409 mm (16") torque converter with a 2.7:1 stall ratio drives to transmission through a double universal joint.

TRAVEL SPEEDS

High-low power shift in each transmission gear.

Gear	Range	Forward		Reverse	
		km/h	(mph)	km/h	(mph)
1st	low	2.8	(1.7)	3.4	(2.1)
	high	3.7	(2.3)	4.5	(2.8)
2nd	low	4.8	(2.9)	5.8	(3.6)
	high	5.8	(3.6)	7.0	(4.3)
3rd	low	7.1	(4.3)	8.6	(5.3)
	high	9.3	(5.7)	11.3	(7.0)

STEERING & BRAKING

Unique two speed geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutchbrake performance for tight or pivot turns. This type of steering system offers superior traction in all types of operations and terrain. Coupled to 3-speed transmission provides 6 speeds forward and 6 reverse. Complete steering module is removable as an assembly for superior serviceability.

Hand levers conveniently located on the left, hydraulically actuate oil cooled, adjustment free, steering planetary gears, multiple disc clutches, and brakes in one control for each track.

Pull back single lever to detent position for gradual turn or both levers for speed reduction. Pull lever slightly further to disengage steering clutches, fully back to brake.

Single foot pedal applies both brakes for parking or downhill speed control. Brakes are spring applied and hydraulically released.

FINAL DRIVES

Double-reduction with planetary final drive stage provides desired gear reduction at the sprocket. Three-piece bolt-on sprocket distributes wear evenly over track bushings letting every tooth ride free one-half of the time to reduce wear. Final drives or sprockets are replaceable without removing track frames.

TRACK FRAME

Non-oscillating type, all-welded heavy box section track frame	
Track rollers each side	8
Top idlers each side	2
Front idlers (drum type) each side	1
All rollers and idlers	lifespan lubricated

TRACKS

The split master link reduces chain removal and installation time.	
Track shoe width, standard	864 mm (34")
Track shoes each side	45
Ground contact area with std. shoes	6.74 m ² (10,447 in ²)
Ground pressure	88.8 kPa (12.9 psi)
Grouser height	76 mm (3")
Track adjustment	full hydraulic
Ground clearance	660 mm (26")
Fixed drawbar - height from ground to centerline of 95 mm (3.75") clevis	719 mm (28.3")

REFILL CAPACITIES

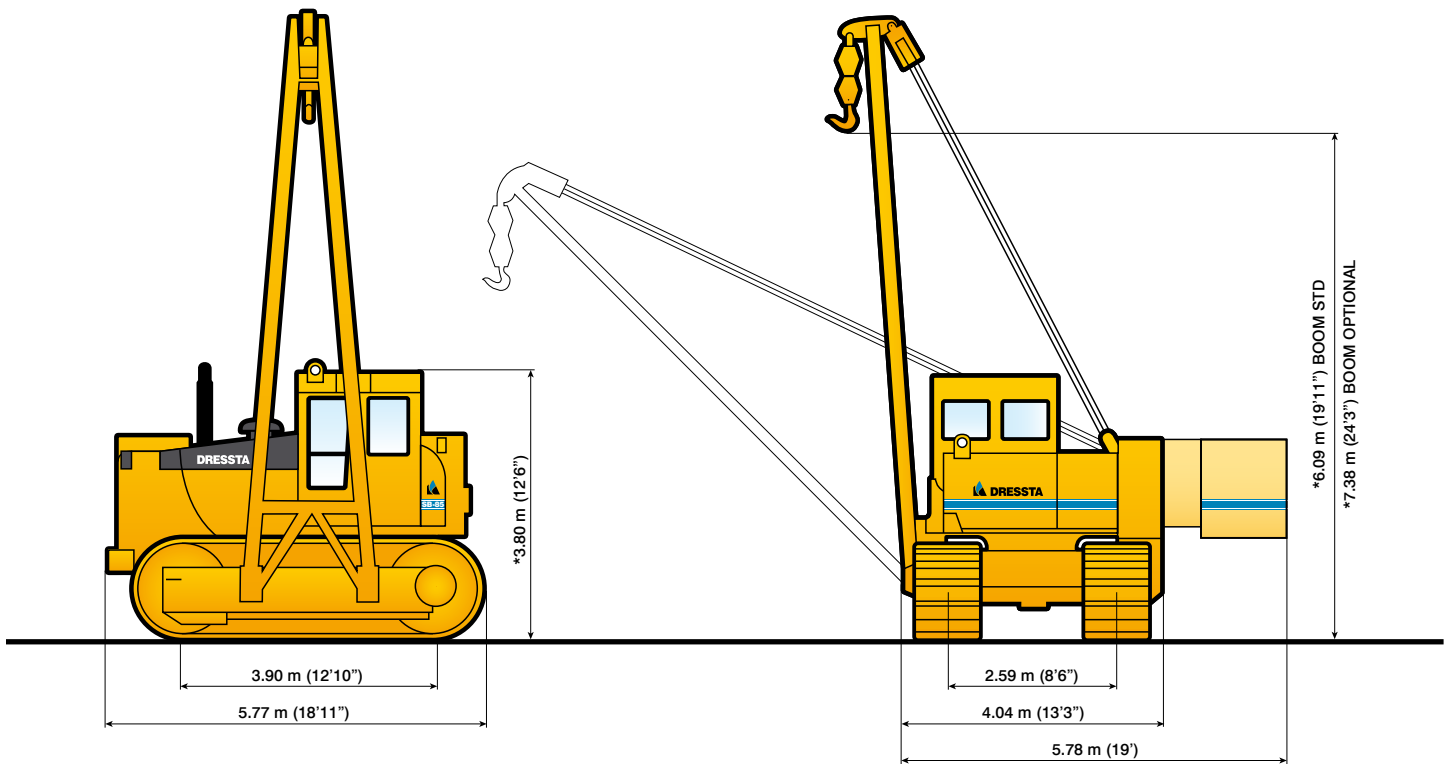
	Liter	(US gal)
Fuel tank	627	(166)
Cooling system	92	(24)
Engine lubrication, incl. filters	58	(15)
Transmission system	300	(79)
Sprocket drive, each side	77	(20)
Hydraulic system	280	(74)

OPERATING WEIGHT

Includes std. equipment and full fuel..... 61100 kg (134,700 lb)

OVERALL DIMENSIONS WITH EQUIPMENT

Width, counterweights retracted	4.04 m (13'3")
Width, counterweights extended	5.78 m (19')
Overall length	5.77 m (18'11")
Height without boom (with cab)	3.80 m (12'6")
Track on ground	3.90 m (12'10")



* DIMENSIONS INCLUDE 76 mm (3") GROUSER HEIGHT

PIPELAYING EQUIPMENT

COUNTERWEIGHTS

Adjustable, hydraulically controlled:

Counterweight frames	2710 kg	(5,974 lb)
4 blocks at 2400 kg (5,291 lb) each	9600 kg	(21,164 lb)
Total weight extendable	12310 kg	(27,138 lb)

LIVE POWER

Continuous power to pipelayer winches, independent of torque converter.

WINCH TRANSMISSION

Sliding gear, 2 speeds for raising, 2 for lowering.

DRUMS

Operated independently or simultaneously.

	HOOK	BOOM
Drum diameter	338 mm (13.3")	338 mm (13.3")
Flange diameter	690 mm (27.16")	690 mm (27.16")
Length (inside flanges)	426 mm (16.8")	196 mm (7.7")
Max capacity with		
22.2 mm (7/8") cable	106 m (347'9")	74 m (242'9")

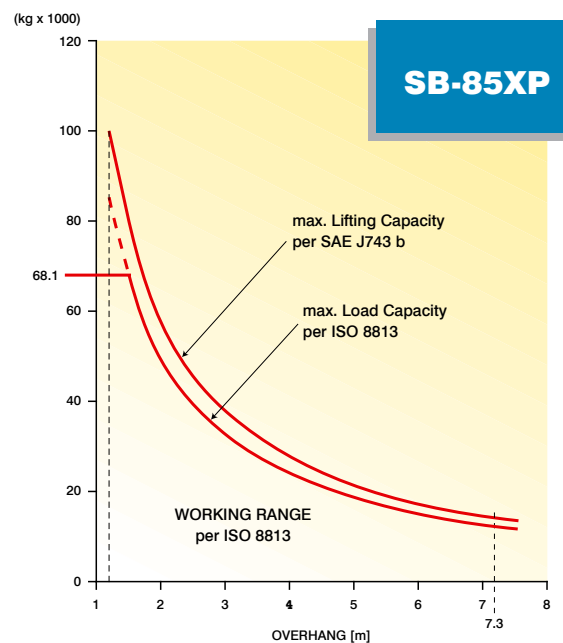
HOOK SPEEDS (bare drum)

Raise:	m/min	(ft/min)
– First	4.75	(15.6)
– Second	9.5	(31.2)
Lower:		
– First	4.5	(14.8)
– Second	9.0	(29.5)

BOOM

Welded box section. Length of standard boom - 7.3 m (24') and optional boom - 8.5 m (27'10").

LIFTING CAPACITY



SPECIFIED EQUIPMENT

- 22.2 mm (7/8") WIRE ROPE, 35652 kg (78,598 lb) MINIMUM BREAKING STRENGTH
- 9 PART LOAD LINE
- 5 PART BOOM LINE
- COUNTERWEIGHTS EXTENDED - 9600 kg (21,164 lb)



STANDARD EQUIPMENT

- Air cleaner, dry type w/exhaust aspirated primary and safety elements and service indicator
- Alternator, 50 A
- Antifreeze, -37°C (-34°F)
- Batteries, (4) 12 V, 1630 CCA, maintenance free
- Boom kickout, uppermost position
- Boom welded type, box-section structure, length 7 315 mm (24')
- Brakes, wet, multiple disc, closed type, spring applied, hydraulically released
- Bumper front
- Cab, isolation mounted, full vision with safety glasses and lockable door, dome light, door window wiper, emergency exit window and heater/pressurizer /defroster
- Coolant filter conditioner
- Counterweights, adjustable, hydraulically controlled 4-blocks and 2-counterweight frames
- Decelerator, foot operated
- Drawbar, fixed
- Emergency hook lowering system
- Exhaust pipe extension
- Fan, reversible
- Filters, oil, full flow and by-pass with replaceable elements
- Filters, transmission, hydraulic and fuel system
- Fuel strainer
- Guards: crankcase, fan, radiator, transmission
- Heat exchanger, engine oil
- Horn electric
- Hourmeter, electric
- Instrument panel light
- Instruments, in resilient mounted panel
- Light, boom
- Lights w/guards, 2 front on tractor, 1 rear
- Load capacity indicator, mechanical, on boom frame
- Muffler
- Radiator, isolation mounted
- Seat, suspension type with arm rests
- Starting, 24 V
- Steering, planetary type, 2 speed
- Tool box
- Torque converter, single stage
- Track adjusters, hydraulic
- Track chain guides, integral
- Track chain sealed with split master link, 45 links
- Track frames, 8 roller, 2.59 m (102") gauge, non-oscillating type, lifespan lubricated rollers and idlers
- Track shoes 864 mm (34"), severe service
- Transmission, power shift, 3 speeds forward, 3 reverse combined with 2 speed steering provides, 6 speeds forward, 6 reverse
- Water separator, fuel system
- Winches, two separate, for hook and boom, with hydrostatic drive system and planetary transmission

OPTIONAL ATTACHMENTS

- Air conditioner (roof mounted) and heater/pressurizer/defroster (cab side wall mounted)
- Alarm, back-up
- Batteries (6), 12 V, 2445 CCA, cold start
- Ether start
- Fuel pump, manually operated, fuel tank mounted
- Flash beacon light
- Guards:
 - Track roller
 - Track roller, segmented
 - Sprocket dirt/rock deflector
- Light, winch
- Lights, 2 rear, cab mounted
- Lubricated track system
- Mirror, interior and sunshield
- Mirrors (2), exterior, RH & LH
- Tools in metal box
- Track shoes 1016 mm (40") clipped corner, severe service
- Working attachments:
 - boom, welded type, box section structure, length 8500 mm (27'10")
 - boom, length 7315 mm (24') for use with load limit indicator
 - boom, length 8500 mm (27'10") for use with load limit indicator
 - load limit indicator, Tensotronic
 - hook pulley block limit switch, uppermost position
 - load capacity indicator, mechanical, for 8500 mm (27'10") boom
- Vandalism protection

Specifications subject to change without notice. Illustrations and pictures may include optional equipment and may not include all standard equipment.

DRESSTA

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