DRESSTA®

SB-60
PIPELAYER

- **Net Horsepower**
  238 kW (320 hp)
- **Max Lifting Capacity**
  72 000 kg (158,731 lb)
- **Operating Weight**
  51100 kg (112,655 lb)

SB-60
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 N14-C
Type . . . . . 4-cycle diesel, turbocharged aftercooled, direct start, direct injection
** Gross Horsepower @ 2100 rpm . . . . . 261 kW (350 hp)
*** Net Flywheel power @ 2100 rpm . . . . . 238 kW (320 hp)
Maximum torque @ 1400 rpm . . . . . 1600 Nm (1,180 lb ft)
Number of cylinders 6
Displacement . . . . . 14 L (855 in^3)
Bore and stroke . . . . . 140 x 152 mm (5.5'' x 6.0'')
Lubrication, full flow filtering w/bypass . . . . . full pressure
Number of main bearings 7
Electrical system . . . . . 24 V
Air cleaner . . . . . .dry type w/exhaust aspirated primary and safety elements and service indicator

* Emission certified
** Per SAE J1995
*** 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)
1 st	Low	3.0	(1.90)	3.7	(2.32)
	High	3.9	(2.50)	4.8	(3.02)
2 nd	Low	5.1	(3.26)	6.2	(3.87)
	High	6.6	(4.16)	7.9	(5.04)
3 rd	Low	8.1	(5.14)	9.7	(6.22)
	High	10.4	(6.69)	12.4	(8.10)

STEERING AND BRAKING

Unique 2-speed geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutch-brake performance for tight or pivot turns. This type of steering system offers superior traction in all types of operations and terrain. Coupled to the 3-speed transmission, the 2-speed steering provides 6 speeds forward and 6 reverse. Two left hand steering levers hydraulically actuate oil cooled, adjustment free, multiple disc clutch and brake packs. The normally forward steering lever position provides the high range gear. As the operator moves a lever rearward, the low range detent position is attained, engaging the planetary clutch pack and its respective gear train providing a geared FULL POWERED TURN with no sacrifice to blade or steering control. Further rearward movement of the lever disengages the steering clutch pack providing a feathered, infinitely variable turn, and at full rearward position the brake is applied producing a full pivot turn. Single foot pedal applies both brakes for parking and downhill control. Brakes are spring applied and hydraulically released.

FINAL DRIVES

Double-reduction with planetary final drive stage provides desired gear reduction at the sprocket. Eight-piece bolt-on sprocket distributes wear evenly over track bushings letting every tooth ride free one-half of the time to reduce wear. Sprocket segments 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 . . . . . 762 mm (30")
Track shoes, each side 41
Ground contact area with std. shoes . . . . . 5.4 m^2 (8,316 in^2)
Ground pressure . . . . . 92.7 kPa (13.4 psi)
Grouser height . . . . . 76 mm (3")
Track adjustment . . . . . full hydraulic
Ground clearance . . . . . 500 mm (19.6")
Fixed drawbar – height from ground to centerline of 95 mm (3.75") clevis . . . . . 537 mm (21.1")

REFILL CAPACITIES

	Liter	(US gal)
Fuel tank	716	(189)
Cooling system	92	(24)
Crankcase	42	(11)
Transmission system	220	(58)
Final drive	89	(23.5)
Hydraulic reservoir	130	(34)

WEIGHT (Operating)

Includes standard equipment and full fuel . . . . . 51100 kg (112,655 lb)

OVERALL DIMENSIONS

Overall length	5.42 m	(17'9")
Width, counterweights retracted	3.53 m	(11'7")
Width, counterweights extended	5.37 m	(17'7")
Height w/o boom	3.66 m	(12')
Height w/o boom and cab	3.15 m	(10'4")
Shipping width, boom removed	3.36 m	(11')

Main Features

- Good visibility to work area
- Rugged box-section steel booms are matched for severe pipelaying stresses
- High strength, forged steel hook with its free rotations guarantees safety of all operations
- Hydraulically retracted and extended counterweights swing horizontally for maximum machine stability
- Independent hydraulic winches to drive boom and hook drawworks
- Brakes are applied automatically when winch control levers are returned to neutral position
- Automatic boom kickout device to prevent boom bending
- Easy maintenance and service
- Minimum overall width for easy maneuvering, transportation and shipping

PIPELAYI

Extendable and retractable counterweights

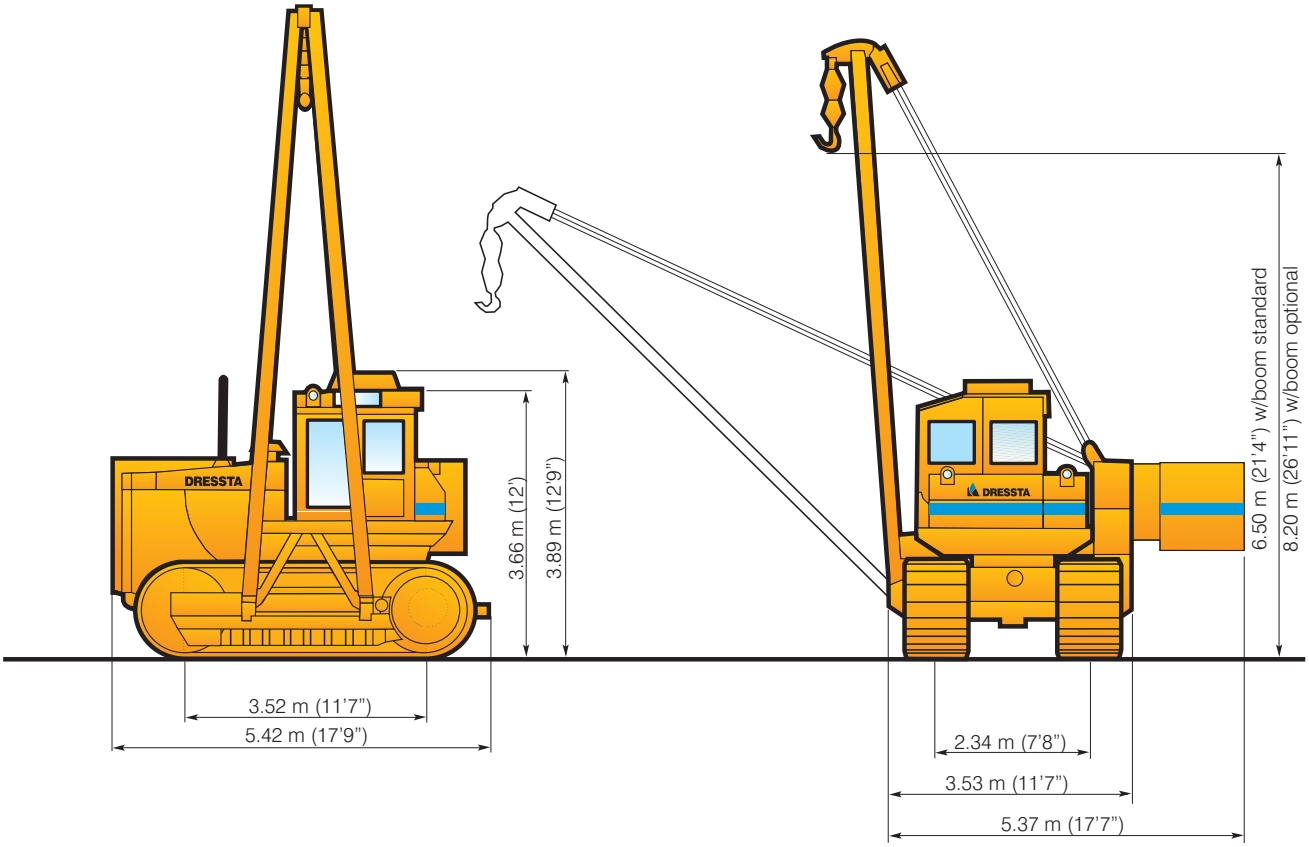
Boom, hook and counterweights controls

NG EQUIPMENT

Automatic boom kickout

Boom control - RH.S ropeguide

Load limit indicator - optional attachment



PIPELAYING EQUIPMENT

COUNTERWEIGHTS

Adjustable, hydraulically controlled:
Counterweight frames . . . . . 2 280 kg (5,026 lb)
4 blocks at 2 340 kg (5,159 lb) each . . . . . 9 360 kg (20,635 lb)
Total weight extendable . . . . . 11 640 kg (25,661 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	340 mm (13.4")	340 mm (13.4")
Flange diameter	610 mm (24.0")	580 mm (22.8")
Length (inside flanges)	353 mm (13.9")	235 mm (9.3")
Max capacity with 19 mm (3/4") cable	92 m (301'10")	78 m (255'11")

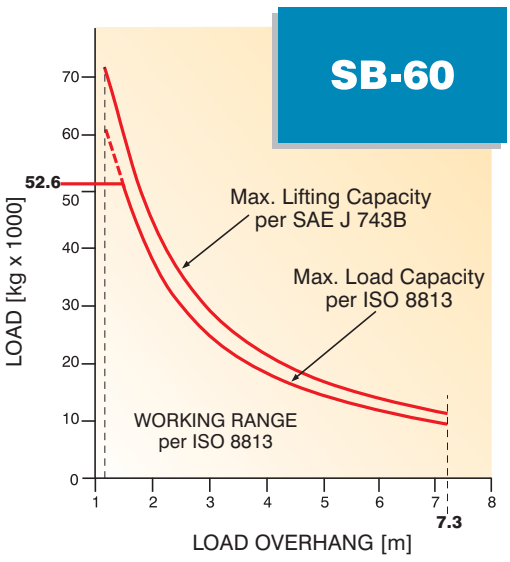
HOOK SPEEDS (bare drum)

Raise / lower:	m/min	(ft/min)
– First	7.5	(24.6)
– Second	15.0	(49.2)

BOOM

Welded box section. Length of standard boom – 7.315 m (24') and optional boom – 9.0 m (29'6").

LIFTING CAPACITY 7.315 m (24') boom



SPECIFIED EQUIPMENT
19 mm WIRE ROPE, 26300 kg MINIMUM BREAKING STRENGTH
8 PART LOAD LINE
5 PART BOOM LINE
COUNTERWEIGHTS EXTENDED - 9360 kg (20,635 lb)

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STANDARD EQUIPMENT

- Air cleaner, dry type, with exhaust aspirated primary, safety elements and service indicator
- Alarm, back-up
- 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 7315 mm (24')
- Brakes, wet, multiple disc, closed type, spring applied and hydraulically released
- Cab, isolation mounted, full vision, with safety glasses and lockable door, dome light, door window wiper, emergency exit window and seat belt (J386)
- Coolant filter conditioner
- Counterweights, adjustable, hydraulically controlled, 4-block and 2-counterweight frames
- Decelerator, foot operated
- Drawbar, fixed
- Emergency hook lowering system
- Engine enclosures, perforated
- Exhaust pipe, insulated
- Fan, blower
- Filters, oil, full flow and by-pass with replaceable elements
- Filters, transmission, hydraulic and fuel system
- Fuel strainer
- Guards: crankcase w/front pull hook, fan, radiator, transmission
- Heat exchanger, engine oil
- Horn, electric
- Hourmeter, electric
- Instrument panel light
- Instruments, in resilient mounted panel
- Light, boom
- Lights, 2 front and 2 rear on tractor
- Load capacity indicator, mechanical, on boom frame
- Muffler under engine hood
- Radiator, isolation mounted, armored core
- Receptacle, starting/charging
- Seat, deluxe, suspension type with arm rests
- Starting, 24 V
- Steering, planetary type, 2 speed
- Torque converter, single stage
- Track adjusters, hydraulic
- Track chain guides, integral
- Track chain, sealed with split master link, 41 links
- Track frames, 8 roller, 2340 mm (92") gauge, non-oscillating type, lifespan lubricated rollers and idlers
- Track shoes 762 mm (30")
- Transmission, power shift, 3 speeds forward, 3 reverse combined with 2 speed steering provides 6 speeds forward and 6 reverse
- Water separator, fuel system
- Winch transmission (two separate winches for hook and boom with hydrostatic drive system and planetary transmission)

OPTIONAL ATTACHMENTS

- Air conditioner /heater/pressurizer/defroster (roof mounted)
- Air conditioner and heater/pressurizer/defroster (roof mounted) and heater (cab side wall mounted)
- Batteries (6) 12 V, 2445 CCA, cold start
- Cab, not taken (incl. vandalism protection for instrument panel)
- Ether start
- Front pull hook, not taken
- Guards:
  - Track roller, full length
  - Sprocket dirt deflector
- Heater (cab side wall mounted)
- Lights, 2 rear, cab mounted
- Light, winch
- Lubricated track system
- Mirror interior and sunshield (for cab)
- Mirrors (2) exterior, RH & LH (for cab)
- Tools in metal box
- Track shoes: 762 mm (30") severe service, 860 mm (34"), 860 mm (34") severe service
- Working attachments:
  - boom, welded type, box section structure, length 9000 mm (29'6")
  - boom, length 7315 mm (24') for use with load limit indicator
  - boom, length 9000 mm (29'6") for use with load limit indicator
  - load limit indicator, Tensotronic
  - hook pulley block limit switch, uppermost position
  - load capacity indicator, mechanical, for 9000 mm (29'6") boom
- Vandalism protection

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

DRESSTA Co.Ltd.

Kwiatkowskiego 1, 37-450 Stalowa Wola, P O L A N D
tel. +48 (15) 813 5252, 813 4556 fax: +48 (15) 844 4714, 872 0207
www.dressta.com.pl