### ENGINE

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make and model</td>
<td>Cummins QSM 11</td>
</tr>
<tr>
<td>Emissions Standard</td>
<td>EPA Tier 3/EU Stage IIIA</td>
</tr>
<tr>
<td>Displacement</td>
<td>111 (671 in³)</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>125 x 147 mm (4.92 in x 5.79 in)</td>
</tr>
<tr>
<td>Gross Horsepower, SAE J1995</td>
<td>261 kW (350 hp)</td>
</tr>
<tr>
<td>Net Horsepower, SAE J1349/ISO 9249</td>
<td>231 kW (310 hp)</td>
</tr>
<tr>
<td>Rated rpm</td>
<td>2000</td>
</tr>
<tr>
<td>Max. Torque</td>
<td>1830 Nm (1350 lb ft)</td>
</tr>
<tr>
<td>Air Cleaner</td>
<td>2-stage, dry type with, exhaust aspirated primary and safety element and service indicator</td>
</tr>
<tr>
<td>Cold-Starting Aid</td>
<td>intake- mounted air -inlet grid heater</td>
</tr>
</tbody>
</table>

### ELECTRICAL

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>24 V</td>
</tr>
<tr>
<td>Number of batteries</td>
<td>4</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>960 CCA</td>
</tr>
<tr>
<td>Alternator rating</td>
<td>50 A</td>
</tr>
<tr>
<td>Lights</td>
<td>10 total; cab mounted (2F &amp; 2R), 2F grill, 2R fuel tank, 1 boom, 1 winch mounted</td>
</tr>
</tbody>
</table>

### COOLING

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>suction- type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy duty louvered front grill</td>
</tr>
<tr>
<td>Engine coolant rating</td>
<td>-50 deg C to +40 deg C (-58 deg F to +104 deg F)</td>
</tr>
</tbody>
</table>

### HYDRAULICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Open-center hydraulic system with fixed-displacement multiple piston and gear pumps</td>
</tr>
<tr>
<td>System relief pressure</td>
<td>winch hook and boom 35 MPa (5215 psi); counterweights 12 MPa (1,790 psi)</td>
</tr>
<tr>
<td>Control</td>
<td>two lever for winch two lever for counterweight</td>
</tr>
</tbody>
</table>

### OPERATOR STATION

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROPS</td>
<td>ROPS (ISO 3471 - 2008)</td>
</tr>
<tr>
<td>FOPS</td>
<td>FOPS (ISO 3449 - 2005)</td>
</tr>
</tbody>
</table>

### OPERATING WEIGHTS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>operation weight, standard equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg [175 lb.] operator</td>
<td>51280kg (113052 lb)</td>
</tr>
</tbody>
</table>

### OPTIONAL COMPONENTS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SB-60M Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Shoes</td>
<td>860 mm (34 in)</td>
</tr>
<tr>
<td></td>
<td>574 kg (1265 lb)</td>
</tr>
</tbody>
</table>
**POWERTRAIN**

**TD-60M Extra**

**Transmission**
Single stage 330 mm (13 in) torque converter with a 2.5:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed selection and auto-downshift.

**Steering**
Exclusive 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. Coupled to 3-speed transmission, the 2-speed steering provides 6 speeds forward and 6 reverse. The left hand joystick controls transmission and steering drive for up and down shifting, steering, Hi/Lo selection and LH/RH gradual geared turn.

**Final drives**
Double-reduction planetary type final drives mounted independently of track frames for isolation from shock loads.

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**UNDERCARRIAGE**

**SB-60M Extra**

**Suspension**
Rigid type

**Tracks**
Large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance

**Track Gauge**
2340 mm (7 ft 8 in)

**Track Shoe Width**
762 mm (30 in)

**Chain**
Sealed and lubricated

**Shoes, Each Side**
41

**Track Rollers, Each Side**
8

**Track Length on Ground**
3520 mm

**Ground Contact Area**
53645 cm² (8315 in²)

**Ground Pressure**
96.8 kPa (13.6 psi)

**Track Pitch**
250 mm (9.86in)

**Sprocket segments, each side**
8

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**TRAVEL SPEEDS - LIFTING CAPACITY**

**SB-60M Extra**

**Working Range**

**SERVICEABILITY**

**SB-60M Extra**

**Refill capacities**

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>690 l (184 US gal)</td>
</tr>
<tr>
<td>Cooling System</td>
<td>46 l (12.3 US gal)</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>40 l (10.7 US gal)</td>
</tr>
<tr>
<td>Transmission System</td>
<td>240 l (64 US gal)</td>
</tr>
<tr>
<td>Final drive, each side</td>
<td>95 l (25.3 US gal)</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>195 l (52 US gal)</td>
</tr>
</tbody>
</table>
## MACHINE DIMENSIONS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Overall Height - ROPS</td>
<td>3910 mm (12 ft 10 in)</td>
</tr>
<tr>
<td>B</td>
<td>Overall Height - FOPS cab</td>
<td>3800 mm (12 ft 6 in)</td>
</tr>
<tr>
<td>C</td>
<td>Overhang, min</td>
<td>1220 mm (4 ft)</td>
</tr>
<tr>
<td>D</td>
<td>Operating length</td>
<td>5460 mm (17 ft 11 in)</td>
</tr>
<tr>
<td>E</td>
<td>Width of tractor (counterweight extended)</td>
<td>5490 mm (18 ft)</td>
</tr>
<tr>
<td>F</td>
<td>Hook height max w/ std boom</td>
<td>6500 mm (21 ft 4 in)</td>
</tr>
<tr>
<td>G</td>
<td>Length track on ground</td>
<td>3520 mm (11 ft 7 in)</td>
</tr>
<tr>
<td>H</td>
<td>Width of tractor counterweight/boom removed</td>
<td>3600 mm (11 ft 10 in)</td>
</tr>
<tr>
<td>I</td>
<td>Track gauge</td>
<td>2340 mm (7 ft 8 in)</td>
</tr>
</tbody>
</table>

## PIPELAYING EQUIPMENT

- **Boom length std/optional**: 7,315 mm / 9,000 mm (24 ft / 29 ft 6 in)
- **Counterweights**: Adjustable hydraulically controlled
  - 4pcs / 9360kg
- **Live power**: Continuous power to pipelayer winches independent of torque converter
- **Winch transmission**: Operated independently or simultaneously sliding gear planetary, 2 speed for raising, 2 speed for lowering
- **Drums diameter (hook & boom)**: 359 mm (14.1 in) / 359 mm (14.1 in)
- **Wire rope length (inside flanges)**
  - **hook/boom**: 92 m (301 ft 10 in) / 78 m (255 ft 11 in)
- **Wire rope diameter**: 19 mm (3/4 in)
- **Hook speed**:
  - Raise 1st: 10.5 m/min (34.4 ft/min)
  - Raise 2nd: 19.8 m/min (65 ft/min)
  - Lower 1st: 10.2 m/min (33.5 ft/min)
  - Lower 2nd: 19.4 m/min (63.6 ft/min)
- **Max lifting capacity per SAE 743B**: 72 t (158731 lb)
**ENGINE**

Engine: Cummins QSM11, Tier 3/EU Stage IIIA, emission certified, turbocharged, direct start, direct injection, 231 kW (310 fwhp)

Air cleaner, dry type, with exhaust aspirated primary, safety elements and service indicator

Antifreeze: -37°C (-34°F)

Cooling module: includes radiator, transmission oil cooler, hydraulic oil cooler, charge air cooler; isolation mounted

Coolant filter conditioner

Exhaust pipe extension

Fan, hydraulically driven

Filters, oil, spin-on type

Filters, drive train system, hydraulic system, fuel system

Muffler, under engine hood, insulated

Strainers, fuel and hydraulic tanks

Water separator, fuel system

**DRIVETRAIN**

Torque converter, single stage

Transmission, power shift, 3 speeds forward, 3 reverse combined with 2 speed steering provides 6 speeds forward, 6 reverse

Steering, planetary type, 2 speed, left hand single lever control (joystick)

Diagnostic center for power train pressures

Brakes, wet, multiple disc, closed type, spring applied, hydraulically released

Decelerator - right foot pedal, and brake - center foot pedal

**OPERATOR’S ENVIRONMENT**

Cab with sound suppression, air recirculation system, lights: 2 front & 1 side (LH), 4 wipers w/washers, dome light, inside mirror, roof window and emergency hatch (approved according to FOPS - SAE J231)

Seat, deluxe, air suspension type, fabric cover, adjustable with arm rest

Seat belt (SAE J386) - 3” wide, retractable

Sun visor for front cab window

Tools compartment

**BOOM**

Lifting capacity - 72,000 kg (158,731 lb) with counterweights extended (per SAE J743B)

Boom, welded type, box-section structure, ‘A’ shape frame, length - 7315 mm (24’)

Boom kickout, uppermost position

Brake, hook lowering, auxiliary

Emergency hook lowering system

Load capacity indicator, mechanical, on boom frame

**INSTRUMENTATION**

Gauges: fuel level, engine coolant temperature, engine oil pressure, torque converter oil temp., voltmeter, hourmeter, brake lock, emergency hook lowering, joystick control display

Warning lights: air cleaner filter, transmission oil filter, hydraulic oil filter, transmission/clutch oil low pressure, counterweights extended, hook top limit position, boom top limit position

Audible & visual warning system: low engine coolant level, low engine oil pressure, coolant high temperature, hydraulic oil high temperature

**ELECTRICAL**

Alarm, back-up

Alternator 50 A

Batteries, (4) 12 V, 1920 CCA, maintenance free, cold start

Horn, electric

Light, boom

Lights, w/guards, 2 front, 2 rear, tractor mounted

Receptacle, starting/charging

Starting, 24 V

Starting aid - air grid heater

**GUARDS**

Guards: crankcase - hinged with front pull hook, fan, transmission

Engine hood, solid, sloped

Engine side doors, hinged, perforated type

Final drive seal guard

Radiator guard doors, two-piece, louvered, hinged

**UNDERCARRIAGE**

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 41 links

Track chain guides, integral

Track frames, 8 roller, 2340 mm (92”) gauge, non-oscillating type, lifespan lubricated rollers and idlers

Track shoes, 762 mm (30”)

**OTHER STANDARD EQUIPMENT**

Bumper, front

Counterweights, adjustable, hydraulically controlled, 4-block and 2-counterweight frames (total weight extendable - 11640 kg)

Drawbar, fixed

Ecological drains for engine oil, radiator coolant and hydraulic oil

Manuals, parts and operator’s

Rear access platform

Winch transmission (two separate winches for hook and boom with hydrostatic drive system and planetary transmission)
**OPTIONAL EQUIPMENT SB-60 M Extra**

**WORKING ATTACHMENTS**
- Boom, welded type, box-section structure length - 7315 mm (24') with electronic load limit indicator
- Boom, welded type, box-section structure length - 9000 mm (29' 6") with or without electronic load limit indicator
- Hook pulley block limit switch, uppermost position

**TRACK SHOES**
- 860 mm (34") shoes

**OPERATOR’S ENVIRONMENT**
- Air conditioner/heater/pressurizer/defroster, underseat mounted, behind roof mounted A/C condenser
- Heater/pressurizer/defroster
- ROPS, for use with standard Cab
  - For use with cab:
    - AM/FM CD radio
    - Lights for cab, 2 rear
    - Mirrors, 2 pcs, exterior, cab mounted
    - Sun visors (2), additional, for side door windows

**GUARDS**
- Sprocket dirt deflector
- Track roller guards, full length

**ADDITIONAL OPTIONS**
- Beacon light, rotating
- Inspection lamp, 24 V, portable, with 6 m (20') cable
- Light, winch
- Rubber protection stripes, bolted, for use with standard 7315 mm or for use with 9000 mm boom
- Starting/charging receptacle plug assembly with cable (required to jump start or charge batteries)
- Vandalism protection
- Maintenance tool kit, 17 items in a metal box
- 1000 h maintenance package (filters)
- 1500 h maintenance package (filters)
- 2000 h maintenance package (filters)

**SFR**
- Export packing, SB-60, drive-on / drive-off, Machine on the trailer
- Export packing, SB-60, drive-on / drive-off, Machine on the railway wagon, cab disassembled and protected in box, right frame disassembled
- Cab disassembled and protected in box
- Right frame disassembled

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