



# BL15-LHD

# LOAD HAUL DUMPER


## SALIENT FEATURES


- **Productivity:** Proven Flame proof, 3 phase Induction motor operating at 525 V is the prime mover meeting all safety regulations for underground mining application. Heavy-duty, Power shift transmission with modulation giving three forward and three reverse speeds with hydraulic inching. Heavy duty planetary axles with no spin differential and hub reduction with rigidly mounted front axle & trunnion mounted oscillating type rear axle.
- **Reliability:** Attention free – Fail safe oil immersed single disc brakes, operating on all wheels self-adjusting hydraulically operated on both axles. Spring applied, hydraulically released parking brake on front axle. All structures are made of high tensile steel for longer life. The cutting edges, pins, bushings are highly reliable and durable.
- **Maneuverability:** Effortless proportional power steering, 45° articulation, All 4 wheel drives, optimum combination of travel speed, turning radius and wheel base.
- **Serviceability & maintainability:** Incorporating maintenance free quality components with continuous monitoring system provided very close to the operator helps to maintain the equipment for higher productivity. Simplified service and maintenance features provide easy access to service locations at ground level allowing maintenance to be done quickly and efficiently.
- **Comfort:** Ergonomically arranged controls & instruments and cushioned seat. Excellent visibility ensures easy operation of implements.


|   |                            |
|---|----------------------------|
| Bucket capacity : 1.5 cu.m (SAE Rated) (Coal) | Operating weight :7,500 Kg |
| Rated Power :37 kW                            | Pay Load :2300 kg          |





# SPECIFICATIONS


|  <b>ELECTRICAL MOTOR</b> |                                  |
|---|----------------------------------|
| Make  | Crompton Greaves                 |
| Model   | E200L                            |
| Rated Power   | 37 kW (50 HP) @ 1475 rpm         |
| Rated Voltage   | 525 V ± 10%, 3 Phase, 50 Hz ± 5% |
| Rated speed   | 1475 rpm                         |
| Design & testing conform to IS: 325 - 1981, Flame proof, confirming to IS: 2148 - 1981 & DGMS approved.   |                                  |


|  <b>JUNCTION BOX</b>   |  |
|---|--|
| Flame proof conform to IS 2148 - 1981 & DGMS approved.<br>Emergency shut OFF switch.<br>Earth leakage circuit breaker.<br>Power ON Indicator.<br>Hour meter.<br>Door interlock to protect flashing hazards. |  |

|  <b>CABLES</b>   |  |
|---|--|
| Trailing power cable is of elastomeric insulated mining type FT-7.<br>Lighting & Control cable is of type PLC4.<br>The above cables confirm to IS:14494 - 1998.<br>Flame proof, confirming to IS 2148 - 1981 & DGMS approved. |  |


|  <b>CABLE REELER DRUM</b> |  |
|--|--|
| Automatic winding and unwinding of 100m, 16 sq.mm 5-core FT7 cable   |  |


|  <b>SIGNALING SYSTEM</b> |         |
|---|---------|
| Head Lamps  | 24 V AC |
| Audio-Visual Alarm  | 12 V DC |


|  <b>FIRE EXTINGUISHER</b> |                     |
|--|---------------------|
| Media  | Dry Chemical Powder |
| Class of fire  | B & C               |
| Capacity   | 2 Kg x 2            |
| Effective jet length   | 2 ~ 2.5 m           |
| Duration of discharge  | 8 ~ 10 sec          |
| Working pressure   | 12.5 bar            |
| Gas cartridge contents   | 50 gms              |
| Charged weight   | 4.6 Kg              |

|  <b>OTHER FEATURES</b>   |  |
|---|--|
| Audio - visual alarm.<br>Hydraulic oil low level cut OFF switch.<br>Hydraulic oil high temperature cut OFF switch.<br>Push button station is provided with lock & key arrangement.<br>Foot pedal (Dead man) switch.<br>(The above items are Flame proof, confirming to IS 2148 - 1981 & DGMS approved.) |  |


|  <b>SAFETY FEATURES</b>   |  |
|--|--|
| Single phase preventer to protect burn out of motor.<br>Forward & Reverse selection of prime mover.<br>Over - current protection can be set on the field.<br>Instantaneous short circuit protection manual resetting type.<br>Shock protection: 80 - 200 / 300 mA earth leakage trip.<br>Under voltage protection to save burn out of motor.<br>Pilot core protection.<br>Earth core protection.<br>Isolator door is interlocked with the switches, hence can not be opened or closed unless switch is OFF.<br>The contactor will open first in case of accidental pulling out of the trailing cable plug at either end when the motor is ON, preventing sparking.<br>Ammeter is provided to monitor load fluctuations.<br>Voltmeter is provided to monitor 3-phase voltage.<br>Local start / stop in addition to operator start / stop. |  |


|  <b>TRANSMISSION</b> |   |
|---|---|
| Transmission  | Heavy duty, power shift transmission with modulation & Hydraulic inching. |
| Gears   | 3F & 3R   |
| Max. Speed  | 12 km/h   |


|  <b>AXLES</b> |  |
|--|--|
| Drive system   | 4 wheel drive  |
| Front axle   | Full floating with no spin differential, rigidly fixed to the frame.       |
| Rear Axle  | Full floating with no spin differential, trunion mounted oscillating type. |


|  <b>BRAKES</b> |  |
|---|--|
| Service brake   | Hydraulically actuated wet single disc brake for both front & Rear wheels.       |
| Parking brake   | Spring applied hydraulic released wet multiple disc parking brake on front axle. |


# SPECIFICATIONS



|  <b>TYRES</b> |                          |
|--|--------------------------|
| Front & Rear   | 11x 20, 16 PR, Tube type |


|  <b>HYDRAULIC SYSTEM</b> |   |
|---|---|
| <b>Hydraulic Pump</b>   |   |
| Type  | Tandem, C.I. Gear pump  |
| Capacity  | 80+45 lpm@1475 rpm  |
| Relief valve settings   | 140 (kg/cm <sup>2</sup> )   |
| <b>Control Valves</b>   |   |
| Work attachment   | Manually operated individual spool valve  |
| Steering  | Manually operated individual spool, proportional valve with accumulator back up |
| <b>Hydraulic Cylinders</b>  |   |
| Heavy duty Double acting piston type  |   |
| <b>Hydraulic Motors</b>   |   |
| Fan drive   | Gear motor  |
| Cable reeler  | LSHT motor  |
| Bucket Chain Drive Motor (Optional)   | Gerotor Bi-directional motor  |


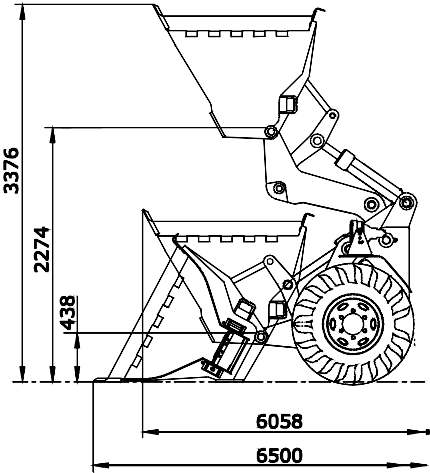
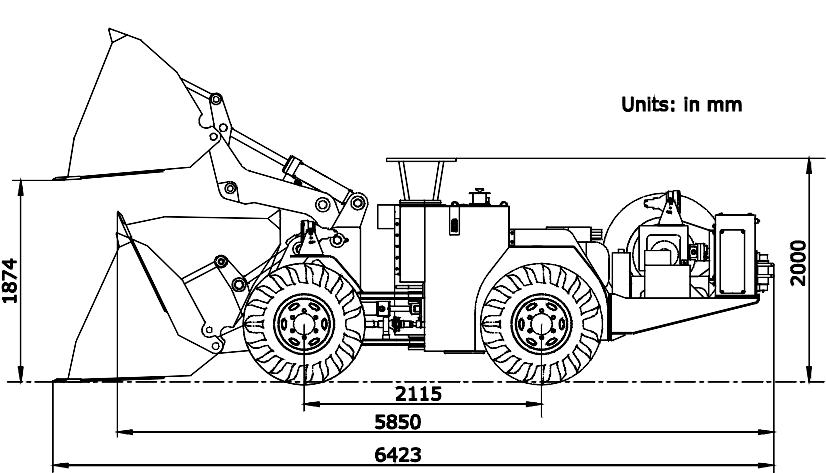
|  <b>FILTER SYSTEM</b> |   |
|--|---|
| Hydraulic system   | Pressure line filters, Return line filter, suction strainer |
| Transmission   | Oil filter  |

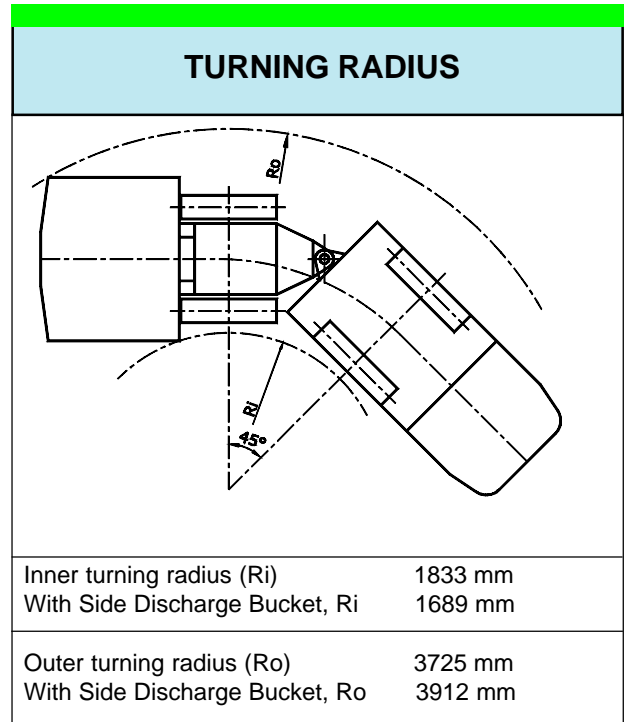
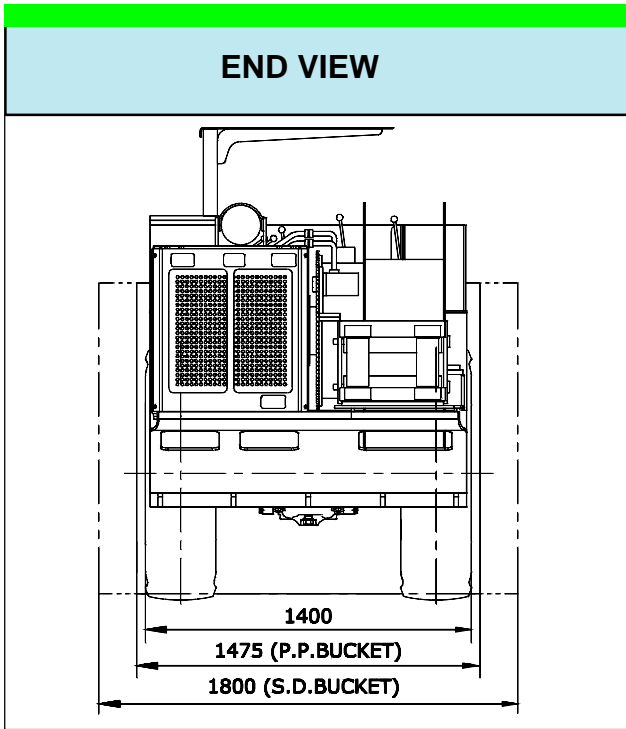
|  <b>STEERING</b> |  |
|---|--|
| Steering mechanism  | Fully hydraulic mono stick, articulated steering system with accumulator backup. |

|  <b>SERVICE REFILL CAPACITY</b> |          |
|--|----------|
| Hydraulic Tank   | 265 ltr  |
| Transmission   | 18.6 ltr |
| Front Axle   | 20 ltr   |
| Rear Axle  | 20 ltr   |

|  <b>BUCKET</b>  |                             |
|---|-----------------------------|
| Type  | Push plate / Side discharge |
| Capacity  | 1.5 Cum (Coal)              |

|  <b>OPERATING PARAMETERS</b> |          |
|--|----------|
| Operating Mass   | 7500 kg  |
| Overall length in carry position   | 5850 mm  |
| SD bucket (optional)   | 6058mm   |
| Overall length in digging position   | 6423 mm  |
| SD bucket (optional)   | 6500mm   |
| Maximum height of discharge  | 1874 mm  |
| SD bucket (optional)   | 2274mm   |
| Bucket width   | 1475 mm  |
| SD bucket (optional)   | 1800mm   |
| Bucket break out force   | 4000 kgf |
| Wheel Base   | 2115 mm  |

|  <b>DIMENSIONS</b>                              |  |
|--|--|
| Units: in mm   |  |
|  <p>3376<br/>2274<br/>438<br/>6058<br/>6500</p> |  <p>1874<br/>2115<br/>5850<br/>6423<br/>2000</p> |



## OPTIONAL ITEMS

- Bucket type** : 1.5 cu.m, Side discharge with chain conveyor system, with 1800 mm width.  
: 0.6 cu.m, Bucket for Rock application
- Tyre** : 9.0 x 20.0, 16 PR rating
- Cable reeling** : Synchronised winding kit

Materials and specifications are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment. All the specifications meet relevant ISO standards.



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