

beml

BL10C

- BL10C is used for loading conveyors and mine cars in underground mines with cross headings, galleries and tunnels with a gradient of $\pm 14^\circ$.
- Modular design for ease of maintenance; contour styling of equipment.
- Rugged 1 Cum. capacity Bucket with hydraulically driven bi-directional chain conveyor system and side doors for controlled discharge on either side.
- Effective hydraulic system with high capacity cooler ensures maximum power utilisation with optimum performance and reliability for continuous operation.
- Hydrostatically driven track drive with automatic braking system ensure easy maneuverability and improved control.
- Flame proof, 3 phase Induction motor operating at 525 V is the primemover meeting all safety regulations for underground mining application.
- Flame proof electrical control system, hydraulic hoses and fire resistant hydraulic oil conform to safety regulations for underground mining application.
- Maintenance free, long life under carriage components with life time lubricated track & guide rollers and hydraulically adjustable idler assembly.
- Aesthetically designed operator seat with adjustable FOP canopy for enhanced operator comfort and safety.
- Lever operated controls with positive locking system for operating comfort and safety.

Operating weight : 8,600 kg	Bucket capacity : 1 Cu.m (SAE Rated)	Rated Power : 55 kW
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



SIDE DISCHARGE LOADER


SPECIFICATIONS


 ELECTRICAL SYSTEM	
FLP Induction Motor	
Make	Kirloskar Electric
Rated power	55 kW
Rated voltage	525 V \pm 10% 3 Phase, 50 Hz \pm 5%
Rated speed	1485 rpm
Design & testing conform to IS:325 - 1981, Flame proof, conforming to IS:2148 - 1981 & DGMS approved.	

 LIGHTING TRANSFORMER	
Flame proof conform to IS 2148 - 1981 & DGMS approved. Earth leakage circuit breaker. Hour meter. Door interlock to protect flashing hazards.	

 CABLES	
Trailing power cable is of elastomeric insulated mining type FT-7. Lighting & Control cable is of type PLC4. The above cables conform to IS:14494 - 1998. Flame proof, conforming to IS 2148 - 1981 & DGMS approved.	


 SIGNALING SYSTEM	
Head Lamps	24 V AC
Audio-Visual Alarm	12 V DC


 FIRE EXTINGUISHER	
Media	Dry Chemical Powder
Class of fire	B & C
Capacity	2 x 2 kg
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

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


 SAFETY FEATURES	
Single phase preventer to protect burn out of motor. Forward & Reverse selection of prime mover. Over - current protection can be set on the field. Instantaneous short circuit protection manual resetting type. Shock protection: 80 - 200 / 300 mA earth leakage trip. Under voltage protection to save burn out of motor. Pilot core protection. Earth core protection. Isolator door is interlocked with the switches, hence can not be opened or closed unless switch is OFF. 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. Ammeter is provided to monitor load fluctuations. Voltmeter is provided to monitor 3-phase voltage. Local start / stop in addition to operator start / stop.	

SPECIFICATIONS

 HYDRAULIC SYSTEM		
Hydraulic Pump		
Type	Gear, Triple pump	
Capacity	100+100+45 lpm	
Hydraulic Motors		
Travel drive	Axial piston motors with built-in counter balance valves and planetary reduction gear box	
Fan drive	Gear motor	
Bucket chain drive	Bi-directional Gerotor motor	
Control Valves.		
Type	Manually operated individual spool valve	
Relief valve settings (kg/cm ²)	Work attachment	140
	Travel circuit	140
Hydraulic Cylinders		
Heavy duty Double acting piston type		

 SERVICE REFILL CAPACITY	
Track Drive	2.5 x 2 ltr.
Hydraulic system	300 ltr.

 UNDER CARRIAGE	
Track frame	Sturdy, Stress absorbing and modular structure
Track shoe width	330 mm
No. of shoes on each side	31
No. of carrier roller on each side	1
No. of track rollers on each side	3
Grouser height	22 mm
Ground pressure	0.9 Kg/cm ²
Gradient	±14°

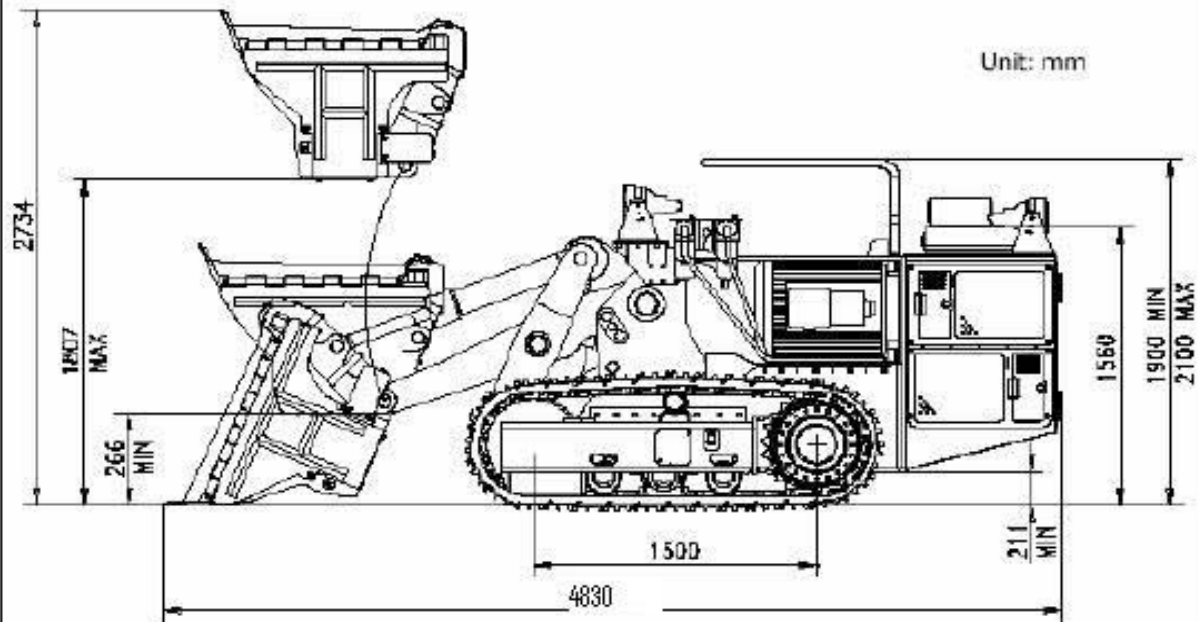
 FINAL DRIVE	
Drive type	Hydrostatic with axial piston motor and planetary reduction gear box for each track.
Travel and Steering	Forward / reverse travel and steering actuated with hand levers. Dual speed option. Independent drive to each track enables machine to make a pivot turn in either direction.
Travel Speed	Low : 0.53 m/sec (Min) High : 0.83 m/sec (Max)
Counter balance valve	Counterbalance valve fitted on each hydraulic motor acts as hydraulic brake. This also prevents possible overspeeding in down gradient.
Brakes	Wet disc type, spring applied hydraulically released brakes. The brakes are automatically released when levers are operated for travel.

 BUCKET	
Type	Bi-directional scraper conveyor side discharge
Capacity	1 Cum
Width (Side door closed)	1800 mm
Width (Side door opened)	2370 mm

 OVERALL DIMENSIONS	
Overall length	4830 mm
Overall width	1800 mm
Overall height	1900 ~ 2100 mm
Ground clearance	211 mm
Track gauge	1155 mm
Length of track on ground	1500 mm
Minimum discharge height	266 mm
Maximum discharge height	1807 mm
Minimum turning radius (Bucket at min. discharge position, outside corner of bucket)	2400 mm



WORKING RANGE AND DIMENSIONS



OPTIONAL ITEMS

Trailing cable.

Gate end box.

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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