

FC16B

Battery Powered High Capacity Shuttle Car



High Capacity Freedom[®] Car (16 Tonnes)

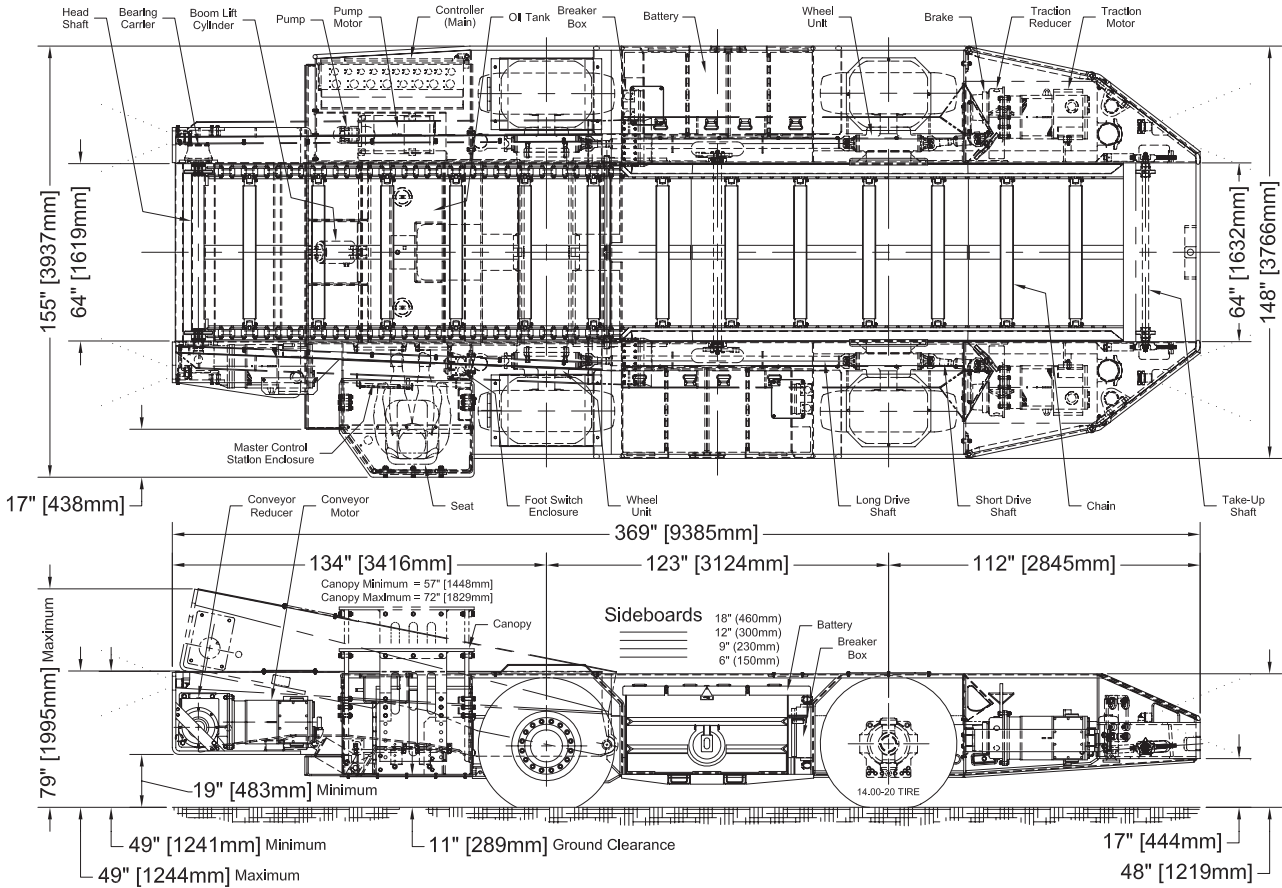
Since its introduction at MINExpo 2000, the Freedom[®] Car has evolved to include an industry leading payload capability, four wheel independent suspension, DC and VFD motor controls, along with improved mechanical and battery components.



Increased Payload, Heavy Duty Unibody Chassis & Advanced Wheel Unit Design

- Battery sized to match shuttle car size
- AC inputs available starting at 480 through 1140 Volts – 50 or 60 Hz
- DC or AC motor controls
- DC traction motors 35Hp (26kw) and 50Hp (37kw)
- DC conveyor motors 35Hp (26kw)
- VFD traction motors 75Hp (55kw) and 115Hp (85kw)
- VFD conveyor motors 35Hp (26kw) and 75Hp (55kw)
- Pump motors 14Hp DC (10kw) or 15Hp AC (11kw)
- Halogen lighting with automatic controls
- Conveyor width options: 36" (91.44cm), 40" (101.6cm), 48" (121.92cm), 56" (142.24cm), 64" (162.56cm)
- Conveyor sideboard combinations to match capacity requirements
- Elevating conveyor discharge boom
- Single and dual heavy duty worm gear drives available
- Conveyor discharge time – 30 to 40 seconds
- Grease type take-up mechanism with shims
- Interchangeable planetary type wheel units
- Full time 4-wheel drive / 4-wheel steering
- Electronic traction differential for precise steering
- Tram speed: empty – 6 mph (9.6 Km/h) full – 5.5 mph (8.5 Km/h)
- Automotive type steering draglinks with heavy duty tie rod ends
- Indexed steering components for easy wheel alignment
- Gear type hydraulic pump
- Pressure type and spin-on type filters available
- Injector type oil fill pump
- Hydraulic, fire and lube systems hose ends – JIC, MPT or Staple-Loc
- Dry chemical fire suppression

Freedom[®] Car FC16B



Model	Rated Capacity	Empty Weight	Overall Width (A)	Chassis Width (B)	Overall Length (C)	Chassis Height (D)	Ground Clearance	Tire Size	Load End Height	Ground Pressure	Minimum Seam Height
FC16B	16 Tonnes 18 Tons	29480 kg ₁ 65000 lbs ₁	3937mm 155"	3766mm 148"	9385mm 370"	1310mm 51.5"	289mm 11.5"	14.00X20	1310mm 51.5"	11.81 kg/cm ² ₂ 168 psi ₂	1900mm 75"

All specifications are subject to change without notice.
Dimensions are based on a Freedom[®] car with a 64" (1625mm) wide conveyor.

Notes:
₁ Machine weights will vary depending on options selected.
₂ Ground pressure is shown at rated capacity and will vary depending on options selected.
₃ When the dual loader chain option is selected, two (2) conveyor motors may be used.

Key Features

- Variable Speed Tram and Convey
- Liquid Cooling Available for Electronics in Extreme Mining Conditions
- Diagnostic Display Aids in Troubleshooting
- Operator Can Be Located on RH or LH
- Wet Multi-Disc Brake

Available Options

- Service Cylinders
- 4-Wheel Independent Suspension
- Dual Loader Type Conveyor Chain
- Audio/Visual Safety Device
- MineSMART Technology Package



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