

FC20B

Battery Powered High Capacity Shuttle Car



High Capacity Freedom[®] Car (20 Tonnes)

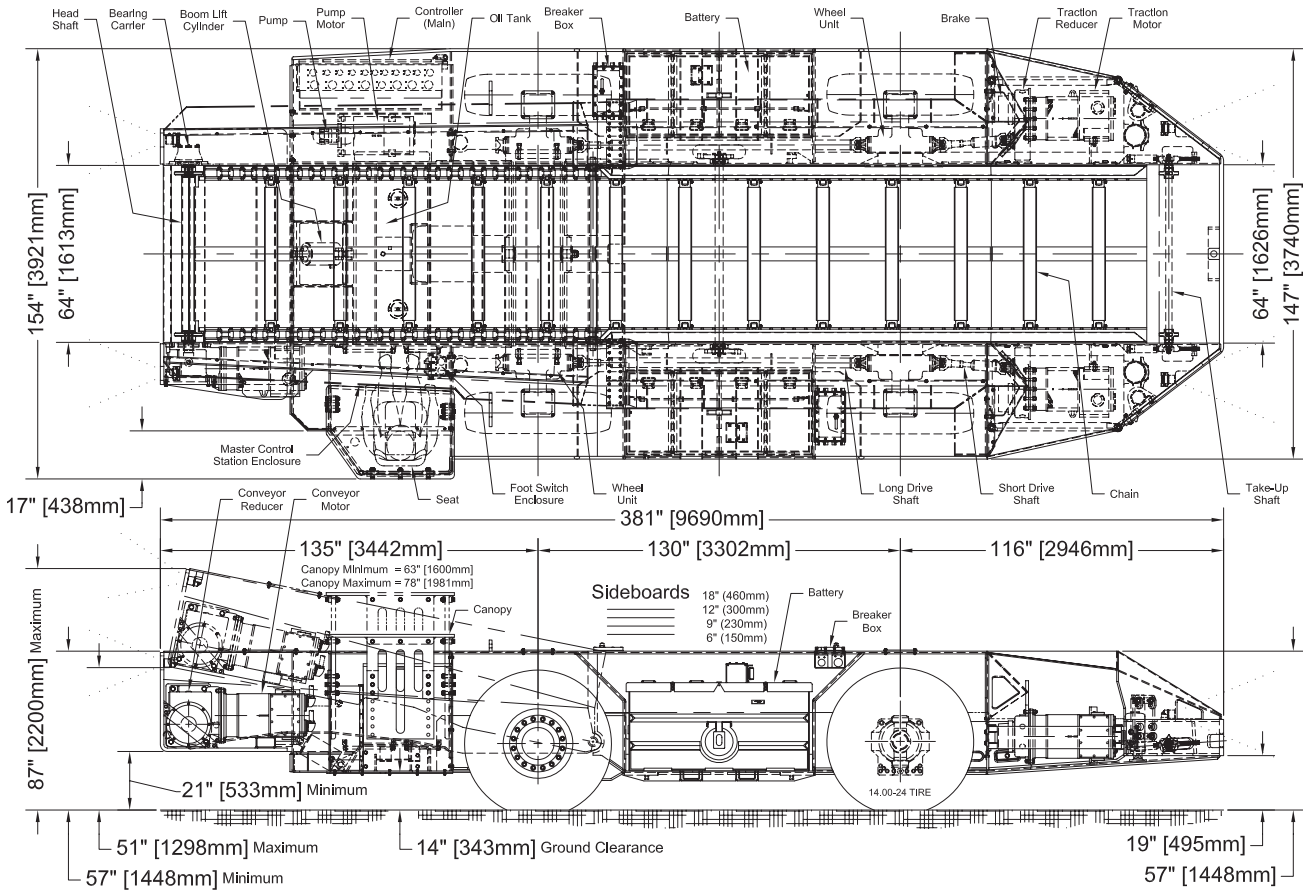
Since its introduction at MINExpo 2000, the Freedom[®] Car has evolved to include an industry leading payload capability, four wheel independent suspension, DC and VFD motor controls, along with improved mechanical and battery components.



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 FC20B



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
FC20B	20 Tonnes 22 Tons	30300 kg ₁ 66800 lbs ₁	3918mm 154"	3734mm 147"	9684mm 381"	1448mm 57"	343mm 13.5"	14.00X24	1448mm 57"	11.10 kg/cm ² ₂ 158 psi ₂	2000mm 79"

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



367 George Street
Beckley, WV 25801
+1-800-733-1521
www.phillipsmachine.com

Phillips Tennessee +1-423-869-4737
 Phillips Colorado +1-888-874-9900
 Phillips Australia +27-13-246-8500
 Phillips South Africa +27-13-246-8500
 Phillips China 018609512555
 13614778899

The Combs Group, Inc.
A Subsidiary of Phillips
14 Swanson Lane
Middlesboro, KY 40965
+1-606-248-4711