

MC040-1

■ Road-rail 4-t freight car

Features Road-rail 4-t freight car with long body

- Long body capable of loading lengthy cargo
- Applicable to standard gauge (1,435 mm) and narrow gauge (1,067 mm) * Changeable to other gauges.



■ Examples of work





Principal specifications

Item	MC040-1
Specifications	
Base vehicle	Isuzu Model U-NRR32H
Body specifications	Flat body
Weight of vehicle (kg)	5,520
Max. loading capacity (kg)	2,300
Total weight of vehicle (kg)	7,985
Riding capacity (persons)	2
Fuel tank (L)	100
Dimensions	
Overall length (mm)	7,420
Overall width (mm)	2,170
Overall height (in normal state) (mm)	2,640
Overall height (on track) (mm)	2,760
Wheel base (mm)	3,460
Tread (front) (mm)	1,805
Tread (rear) (mm)	1,705
Min. road clearance (mm)	205
Internal length of loading platform (mm)	5,445 (4,645)
Internal width of loading platform (mm)	2,060
Internal height of loading platform (mm)	420
Loading height (mm)	1,170
Min. turning radius (mm)	7,600
Track running performance	
Max. speed (km/h)	1st gear: 15 km/hr 2nd gear: 30 km/hr
Max. gradient at which vehicle can start	35/1,000
Counterbalance braking distance (m)	In fine weather: 18 m In wet weather: 25 m
Braking distance (m)	In fine weather: 10 m In wet weather: 14 m

Major units

Item	MC040-1
Engine	
Model	Isuzu Model 6HL1
Type	4-cycle water-cooled inline direct injection type
Total displacement (cc)	7,166
Max. output (PS/rpm)	190/2,900
Max. torque (kg·m/rpm)	51/1,500
Hydraulic unit	
Type and quantity of hydraulic pumps	Duplex gear pump
Hydraulic pump discharge (L/min)	70.0×2
Max. set pressure (kgf/cm ²)	210
Hydraulic oil tank capacity (L)	100
Operation method	Solenoid valve
Track running equipment	
Wheel	Diameter: 400mm Width: 120mm, wheel back to back gauge: 990mm (narrow gauge), 1,360mm (standard gauge), 4 insulated wheels
Axle	2 axles (diameter 100 mm) Distance between axles: 3,460mm
Motive power source	Hydraulic motor with counterbalance valve (output 84 kW, torque 1,530 N.m)
Drive	Rear axle chain drive system
Brake	Front axle: Electrically operated hydraulic shoe brake Rear axle: hydraulic disc brake + counterbalance valve, with parking braking system and escape lash prevention device
Safety devices in track	
Emergency engine	Air-cooled 4-cycle single cylinder diesel engine (406 cc, 10 ps)
Other safety devices	Driving force release clutch, hydraulic motor free valve, Brake release valve, Electromagnetic/manual control valve, front and rear lamps, flasher, connecting hole and coupling rod

Major dimensions

