

Rail-Veyor General Specifications

NOTE: Each Rail-Veyor System is customized to meet your needs.

Base System Description	Units	
	Imperial	Metric
Specific Factors May Necessitate Changes To These Specifications.		
Car Length:	4 ft, 8 ft	1.22 m, 2.44 m
Car Diameter:	30 in, 36 in, 48 in	0.76 m, 0.91 m, 1.22 m
Train Length:	<1,320 ft	<402 m
Vertical Outside Dump Loop Diameter:	4.0 ft car – 12.0 ft	1.22 m car – 3.7 m
	8.0 ft car – 19.5 ft	2.44 m car – 5.9 m
Rail Car Wheel Diameter:	16 in	41 cm
Drive Tire Diameter:	42 in	107 cm
Track Gauge:	37.7 in – 56.5 in	95.8 cm -143.5 cm
Rail Weight:	40 – 60 lb/yd	18 kg/m – 27 kg/m
Track Bed Requirements:	Ballast	Approximately 6” (15.24 cm) Dependent on Site Conditions
	Rail Ties	T6 Steel Ties
Ground Loading:	±3.0 psi	±0.21 bar
Train Density of Track System:	Variable based upon speed	
Minimum Horizontal Turn Radius for Car Lengths 4 ft, 8 ft (1.22m, 2.44 m)	50 – 100 ft	15 – 30 m
Maximum Haul Distance:	Unlimited	
Maximum Train Velocity:	26 ft/sec - 18 m/h	8 m/sec - 29 km/h
Drive Station Motor Size: Set of 2 per Drive Station	25 – 125 HP	17.5 – 94 kw
Grade Maximum:	±20%	
Gear Reduction: Electrically Driven (Various braking options available)	Variable - Dependent on Application	
Train & Car Positioning Monitoring Method:		
Control Network:		
Train Drive Motor Control:	VFD (Variable Frequency Drive)	
Operating Voltage: (Voltage can be adjusted to site-specific requirements)	380 – 600 VAC / 3 PH / 50 – 60 Hz	
System Ambient Temperature Operating Range:	-40 to +110 F	-40 to + 43.3 C