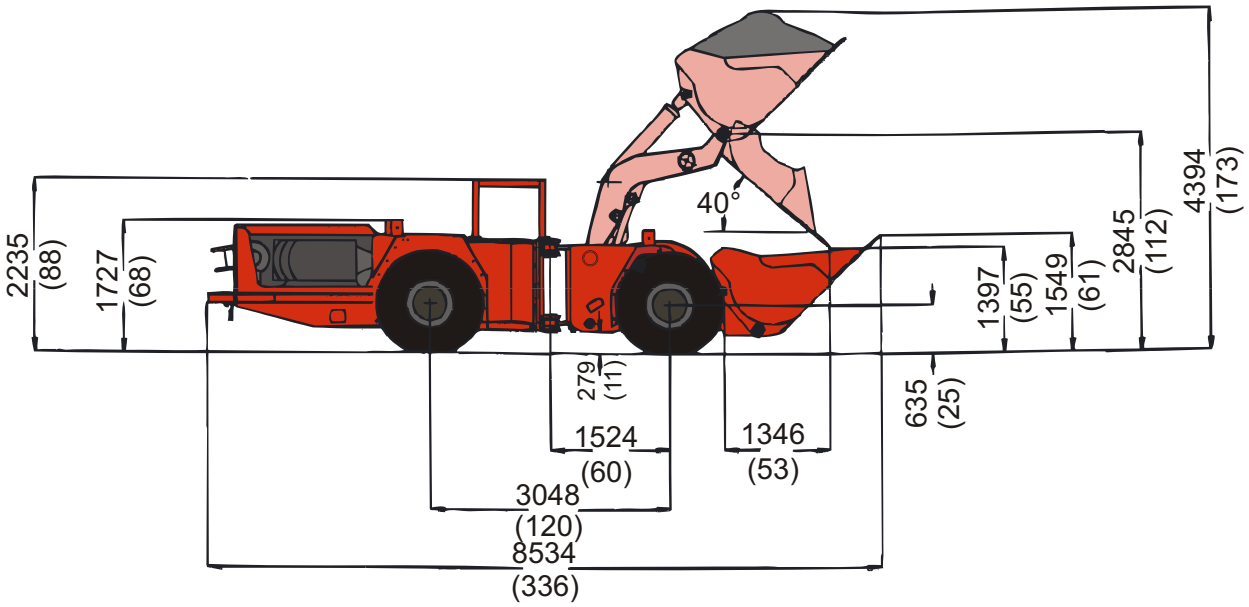
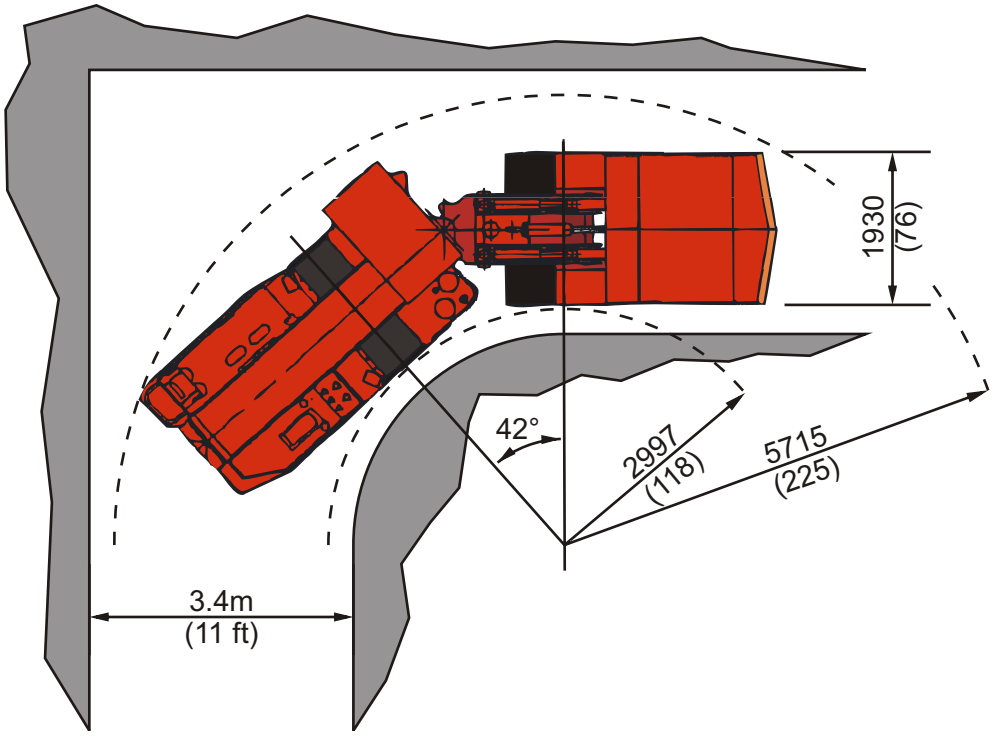
General Arrangement





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Standard Unit Specifications

General Information

Main Dimensions

Total length	8534 mm	336 in
Width without bucket	2159 mm	85 in
Maximum width	2159 mm	85 in
Height with SAE canopy	2235 mm	88 in

Operating Weights

Total operating weight	17237 kg	38000 lb.
front axle	6895 kg	15200 lb.
rear axle	10342 kg	22800 lb.

Loaded Weights

Total loaded weight	23814 kg	52500 lb.
front axle	16620 kg	36641 lb.
rear axle	7194 kg	15859 lb.

Capacities

Tramming capacity	6577 kg	14500 lb.	
Break out force, lift	76 kN	7711 kg	17000 lb.
Break out force, tilt	79 kN	8074 kg	17800 lb.
Tipping load	18915 kg	41700 lb.	
Standard bucket	3.0 m³	4.0 yd³	

Bucket Motion Times

Raising time	6.5 sec.
Lowering time	4.3 sec.
Tipping time	4.3 sec.

Driving Speeds Forward and Reverse (Loaded)

1st gear	3.0	1.9
2nd gear	6.4	4.0

Frame

Rear and front frame	Welded steel box construction
Material	G40.21 - 50 WT Cat.#3
Central hinge	Welded steel box construction with hardened steel spherical bearings
Material	G40.21 - 50 WT Cat.#3
Tanks are welded to frame.	

Power Train

Motor

Type	AC induction` type TEAO, 3 phase
Output	94 kW (125Hp)
Voltage	600 V
Frequency	60 Hz
Speed	1750 rpm
Insulation class	F

Converter

Dana SOH C 273, single stage	Stall torque ratio: 1.82:1, Offset Ratio: 1.29:1

Transmission

Dana SOH R32421	2-speed forward & reverse with modulation

Axles

Front axle	Dana SOH 16D2149, no-spin differential, fixed
Rear axle	Dana SOH 16D2149 standard differential, oscillating ± 10°.

Tires

Tire size	17.5 x 25, 20 PLY		
Type	L5S		
Air pressure, front	552 kPa	5.52 bar	80 psi
Air pressure, rear	552 kPa	5.52 bar	80 psi

Systems

Steering Hydraulics

Full hydraulic power steering, centre articulated with two double acting steer cylinders, open centre system with a gear pump. Equipped with pilot operated control lever.

Turning Radius

inner	2997 mm	118 in
outer	5715 mm	225 in
Turning angle	42.0 °	

Main Components

Hydraulic pump	Gear pump
Control valve	Pilot operated
Steering cylinders	EJC 3.5" bore x 2.0" rod

Pressure Settings

Main relief	17.2 MPa	172 bar	2500 psi
Port relief valves	18.6 MPa	186 bar	2700 psi

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Bucket Hydraulics

Full hydraulic open-centre system with one gear pump. Equipped with pilot operated joystick control lever, two lift cylinders and one dump cylinder.

Main Components

Lift cylinders	EJC 6.5" bore x 3.0" rod
Dump Cylinder	EJC 6.5" bore x 3.0" rod
Hydraulic pump	Gear pump
Control valve	Pilot operated

Pressure Settings

Main relief	16.5 MPa	165 bar	2300 psi
Bucket dump	5.5 MPa	55 bar	800 psi
Bucket roll back	17.2 MPa	172 bar	2500 psi
Lift arms raise/lower	17.2 MPa	172 bar	2500 psi
Pilot control	3.1 MPa	31 bar	450 psi
Hyd. oil tank capacity	303 l	80 US gal.	

Standard Brakes

Service brakes are spring applied / hydraulically released, liquid cooled multi-disc brakes on all wheels, with two separate circuits for the front and rear axles. Service brakes also function as an emergency brake, when the emergency brake system is engaged.

Main Components

Pressure accumulator	Piston type with charging valve
Brake pedal valve	Modulated

Electrical Equipment

Alternator	24 V 60 A min.
Batteries	2 x 12 V, 950 CCA
Driving and working lights	4pcs front, 4pcs rear

Other Standard Equipment

- SAE, ROPS/FOPS canopy 88 in (2235 mm) o/a height
- Electric gauges
- Audible back-up alarm
- Central hydraulic pressure test points
- Central manual lubrication system
- SAE JIC hose fittings

Standard Manuals

All manuals are delivered on CD-ROM in web based format with Adobe PDF output for printing extra copies and one paper copy. Extra copies are also available as an option.

Manual Type	CD-ROM	Paper
Spare parts manuals	2 Copies	1 Copy
Operator's manual	2 Copies	1 Copy
Service manual	2 Copies	1 Copy

Optional Equipment

Specifications

Available Alternative Equipment

Motor	Alternative voltage and frequencies are available upon request. Voltage and frequency may effect cable type and length.
Auto lube system	Lincoln modular

Alternative Bucket Options

Rock Bucket with 500 BHN lip	Volume		Width	
	2.7 m³	3.5 yd³	1930 mm	76 in
	3.1 m³	4.0 yd³	2083 mm	82 in
Ejector Buckets	Volume		Width	
	2.7 m³	3.5 yd³	1930 mm	76 in

Available Add-On Options

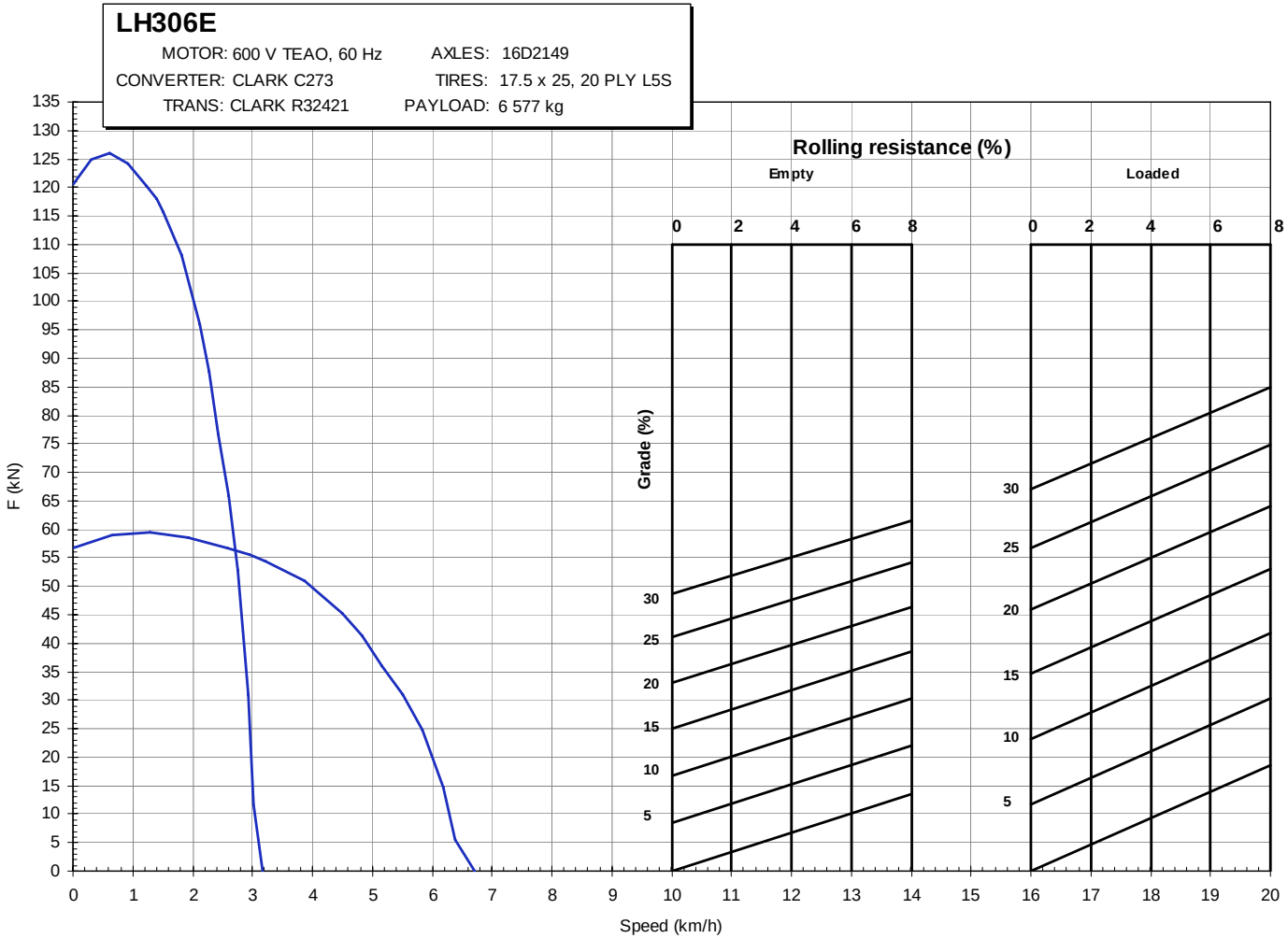
Quick disconnect system (QDS) - master hitch		
QDS bucket	2.7 m³	3.5 yd³
QDS pallet forks		
QDS dozer blade		
QDS work platform		
QDS cable/belt reel		
SAE, ROPS/FOPS canopy 88 in (2235 mm) o/a height		
MSHA, FOPS canopy 81 in (2057 mm) o/a height		
Fire suppression systems	Manual - Ansul 6 nozzles, 1 Tanks	
	Automatic (Checkfire II) - Ansul 6 nozzles, 1 tanks	
Hand held fire extinguisher - 10 lb.		
Hand held fire extinguisher - 20 lb.		
Tamrock proportional RRC system (includes interface)		
RRC interface only (specify receiver)		
RRC fire suppression actuation button for Tamrock RRC		
Hydraulic tow hook brake release		
Extra CD-ROM manuals		
Extra paper manuals		

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Tractive Effort Curve (Metric Units)



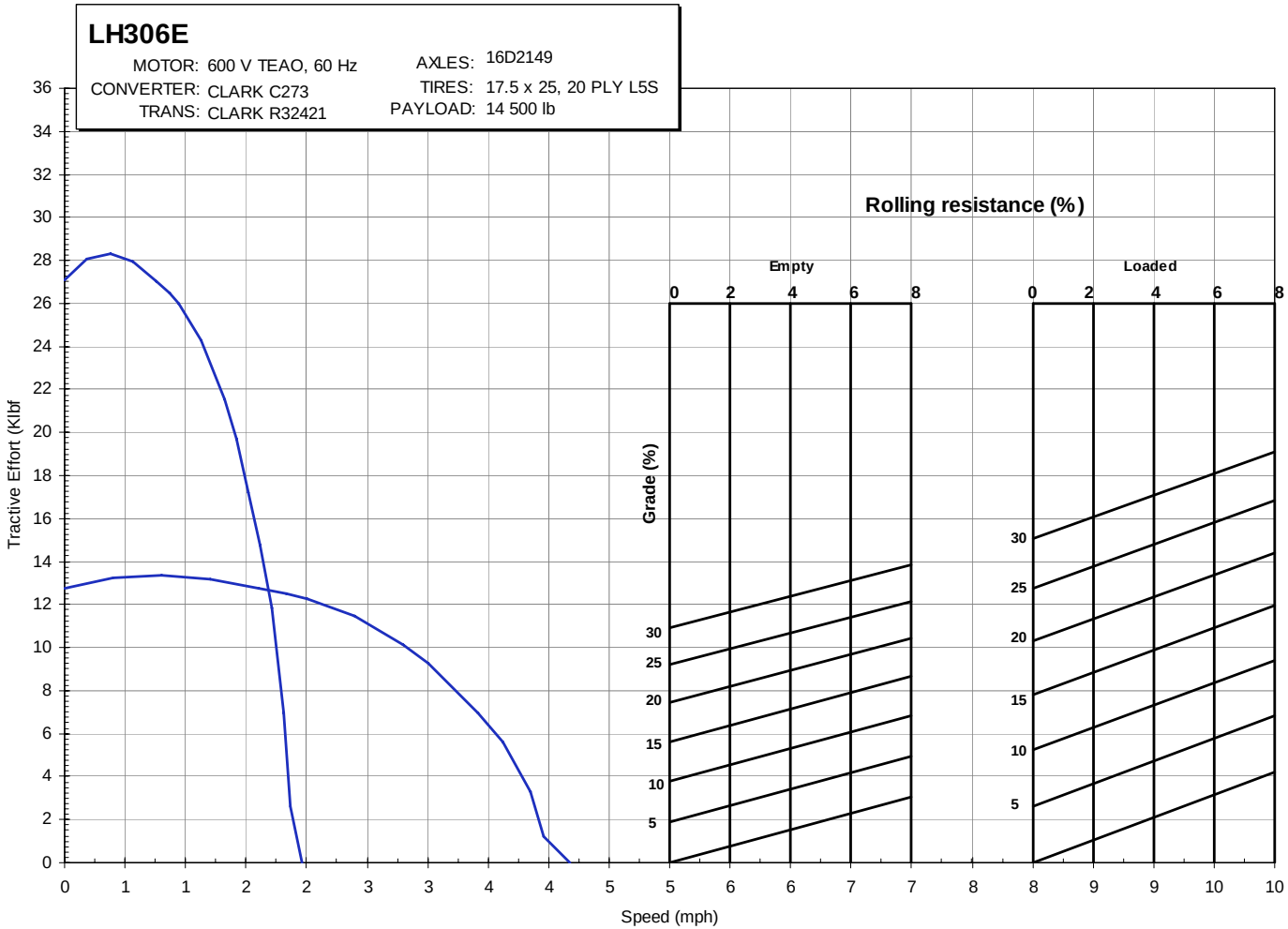
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Tractive Effort Curve (US Units)



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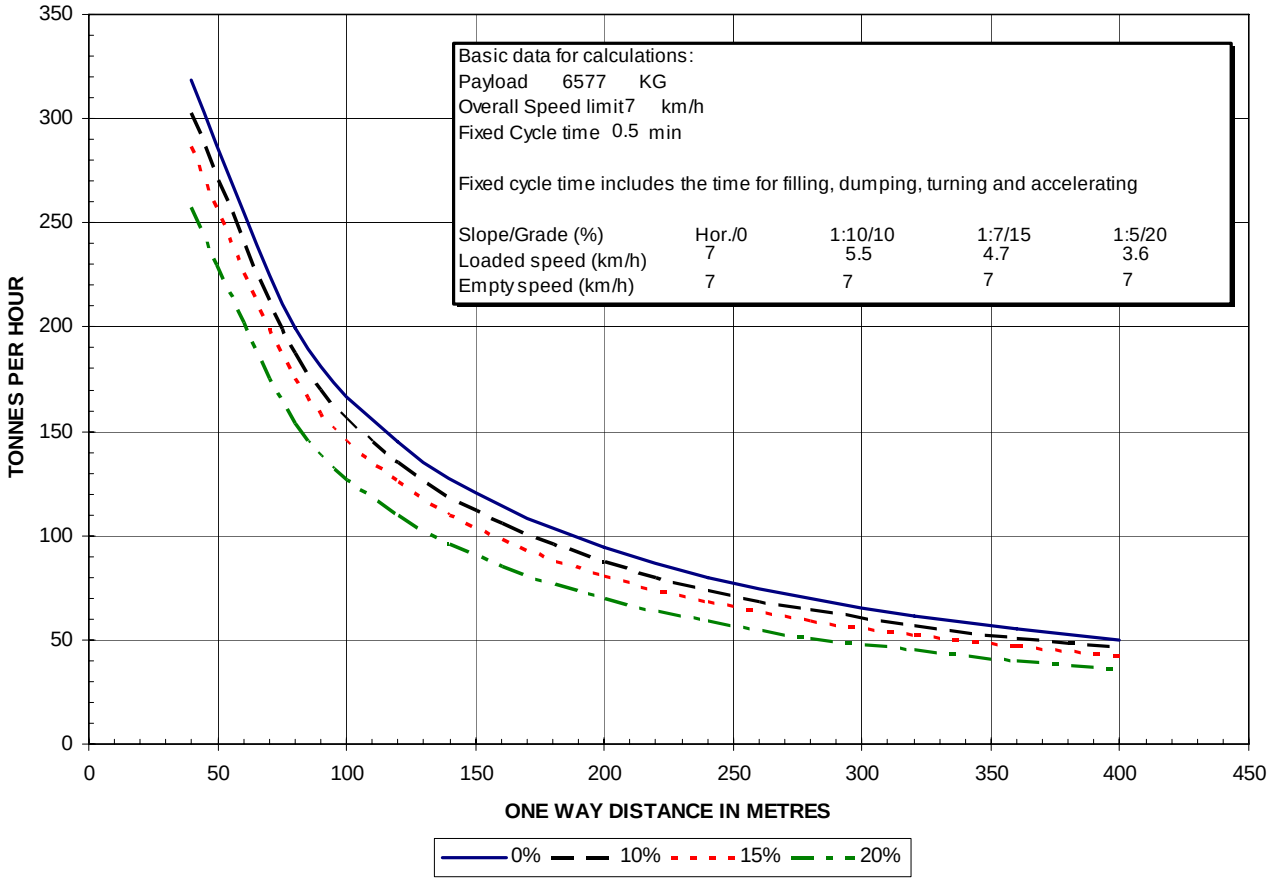
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Productivity Curve (Metric Units)

LH306E PRODUCTIVITY CURVE



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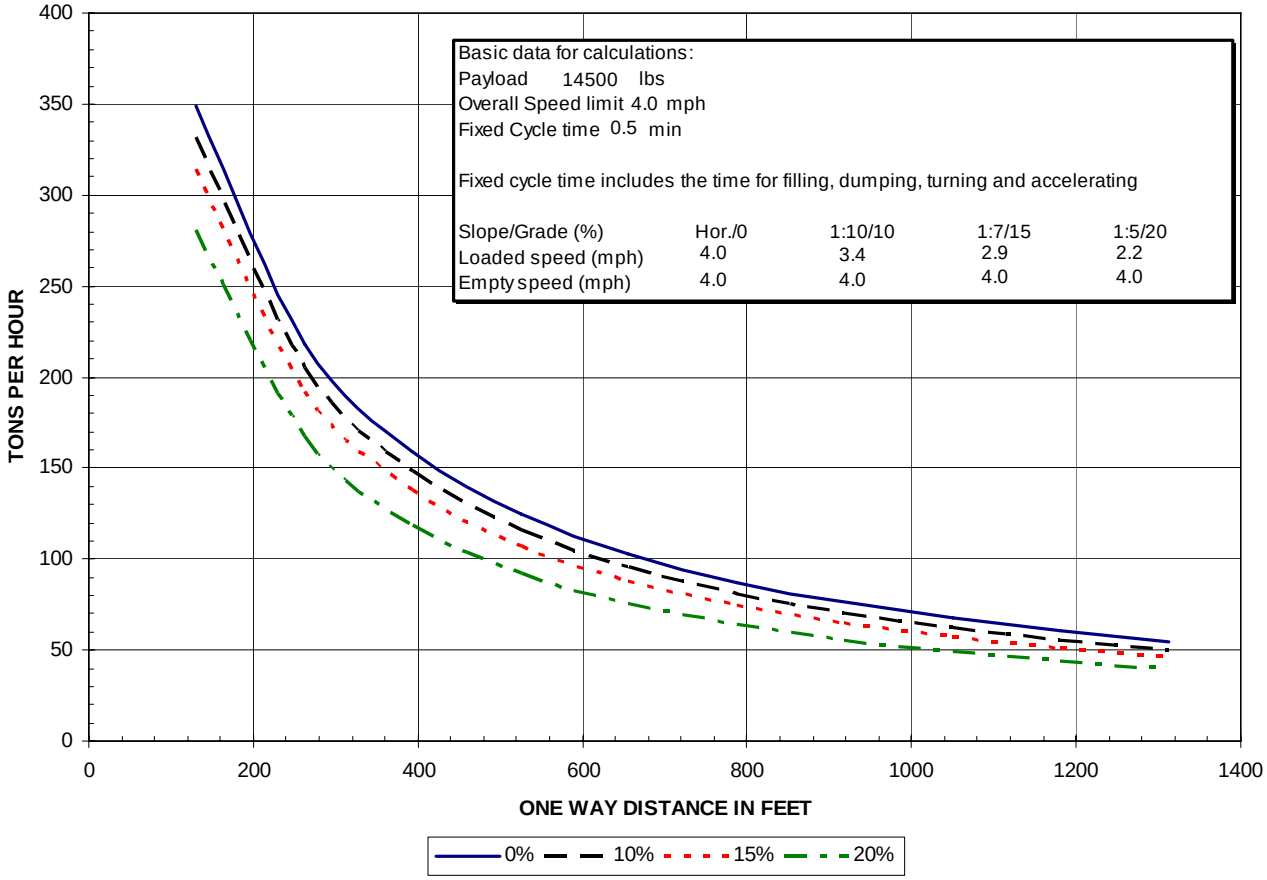
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Productivity Curve (US Units)

LH306E PRODUCTIVITY CURVE



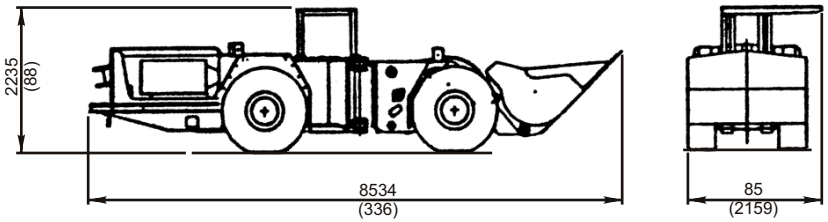
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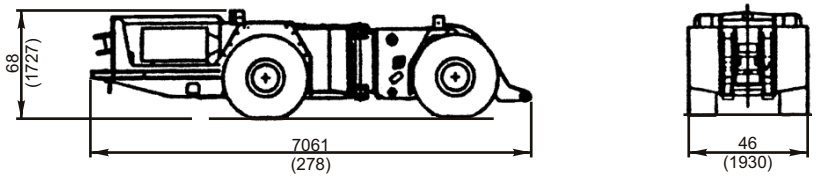
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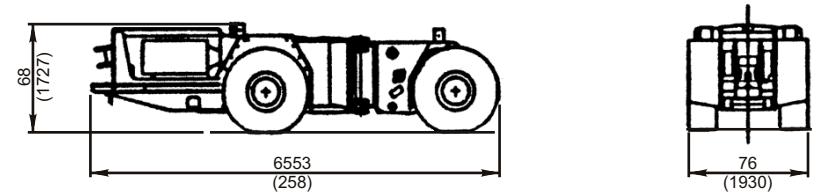
Weights and Dimensions



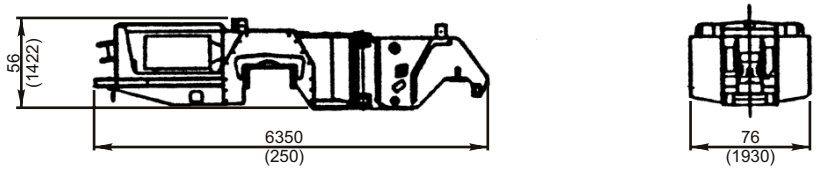
(1) Operating Condition
Weight: 17,273 kg (38,000 lbs)



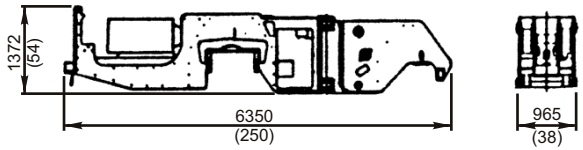
(2) Bucket and Canopy Removed
Weight: 15,386 kg (33,850 lbs)



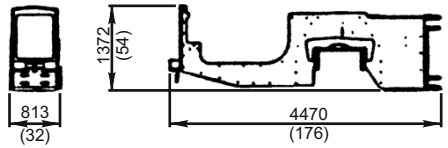
(3) Bucket, Canopy and Lift Arms Removed
Weight: 14,477 kg (31,850 lbs)



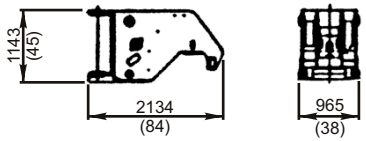
(4) Bucket, Canopy, Lift Arms, Axles and Tires Removed



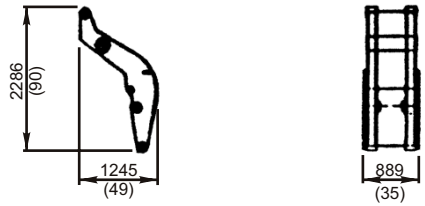
(5) Bucket, Canopy, Lift Arms, Left and Right Skirts, Front Fenders , Axles and Tires Removed



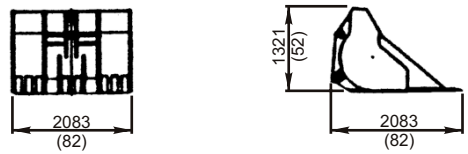
(6) Rear Frame Bare
Weight: 1,818 kg (4,000 lbs)



(7) Front Frame Bare
Weight: 1,273 kg (2,800 lbs)



(5) Lift Arms Bare
Weight: 909 kg (2,000 lbs)



(4) Bucket - 3.0 m³ (4.0 yd³)
Weight: 1,590 kg (3,500 lbs)

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