



EJC 145 ELECTRIC

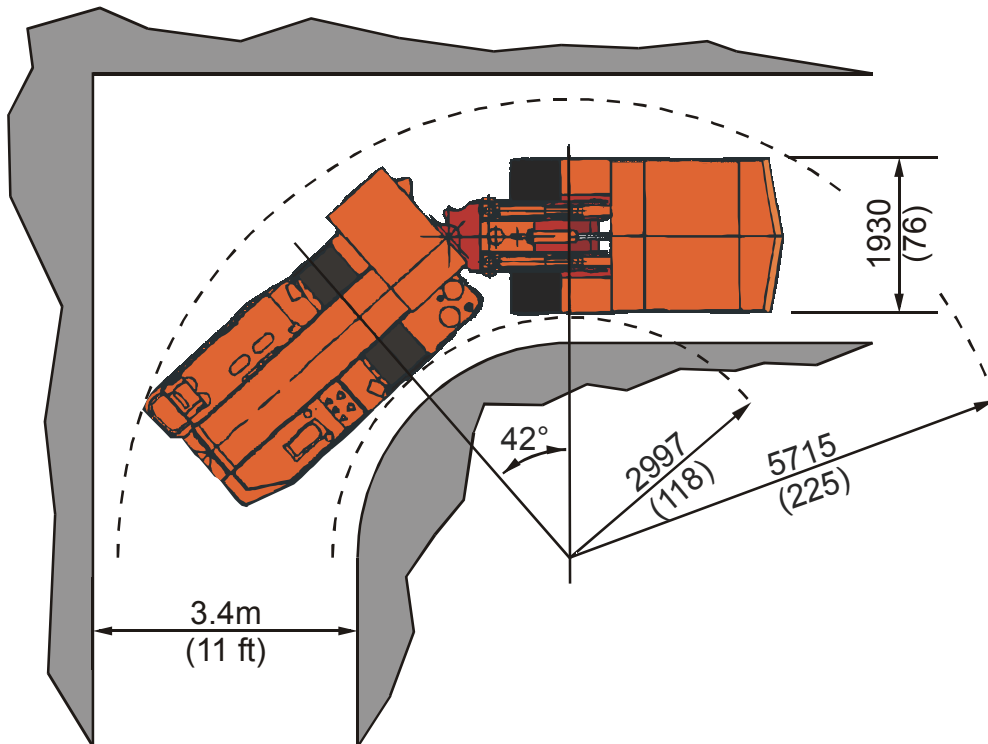
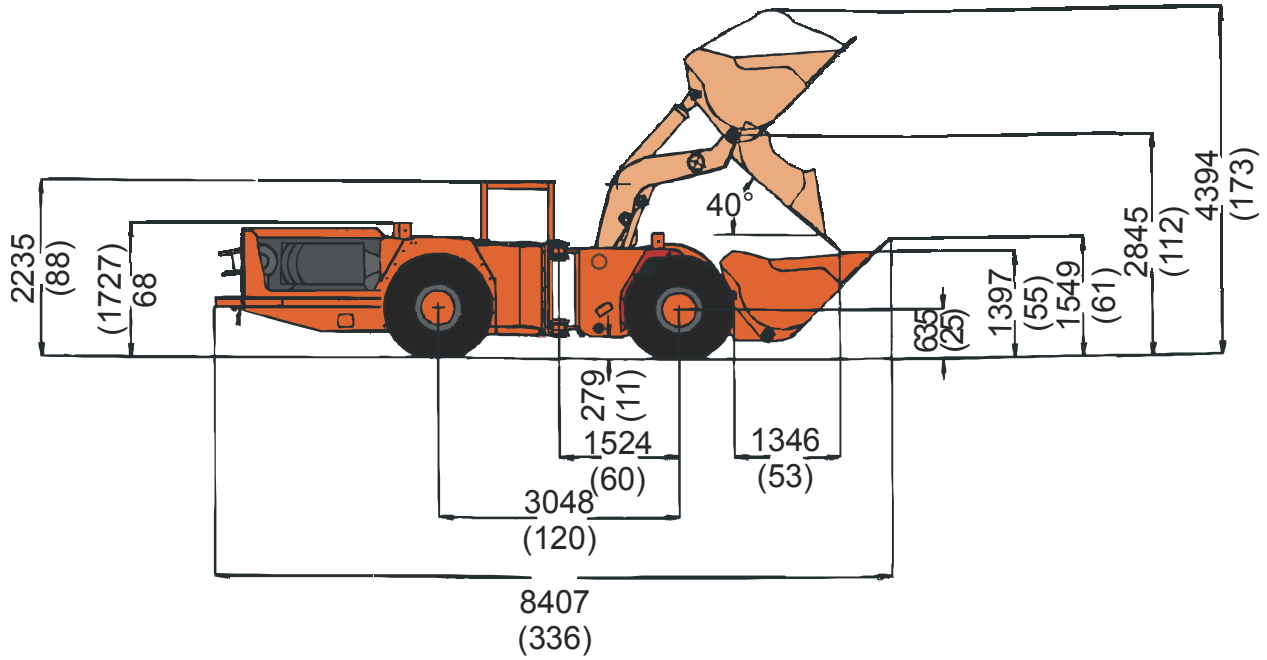
TECHNICAL SPECIFICATION

RELIABLE PRODUCTION IN A WIDE RANGE OF APPLICATIONS
CAPACITY: 14500 LBS (6600 KG)





Main Dimensions



Note: All vertical dimensions are for an empty unit. Dimensions are in inches, dimensions in brackets are in millimeters. Optional ROPS/FOPS canopy shown.





Specification Sheet

SANDVIK TAMROCK
EJC Loaders Division
EJC 145 Electric

CUSTOMER: _____
 P.O. NBR. _____
 SHIP DATE _____

STANDARD UNIT

600V TEAO motor, 60Hz, 125 hp (93 kw)
 Cable reel, self winding type, c/w automatic
 tension control, level wind & low cable shutdown
 590 ft (180 m) of #2 type GGC cable**
 Clark modulated shift transmission
 Clark torque converter
 Clark axles with Posi-Stop brakes
 17.5 x 25-20 PLY L5S tires
 4.0yd³ (3.1m³) bucket with 500 BHN lip
 Pilot operated single lever joystick bucket control
 Pilot operated stick steer control
 Electric transmission controls
 Electric gauges
 24-volt DC electrical system
 Central manual lube
 SAE type hose fittings
 Combination control box & connectors
 Four (4) English parts manuals
 4 operator and 4 service manuals
BASE UNIT PRICE

A1 = no impact on delivery time; A2 = delivery time on request

OPTIONAL EQUIPMENT

- A1 * 50 Hz, 125 hp (93 kw) electric motor (voltage?) **
- A1 * Automatic lubrication system (Lincoln Modular)
- A2 * Ejector bucket 3.5yd³ (2.7m³) 76" (1930mm) wide
- A1 SAE ROPS/FOPS canopy, 88" overall height
- A1 MSHA FOPS canopy, 81" overall height
- A1 Fire suppression system, Ansul 8 nozzle
- A1 Auto. fire suppression system, Ansul 8 nozzle (Checkfire II)
- A1 Hand held fire extinguisher 20 lb
- A1 Radio remote control (with receiver cover/cable and interface), Tamrock proportional
- A1 Radio remote control interface
- A1 Radio remote control fire suppression (requires fire suppression system and RRC)
- A1 Back-up alarm, audible
- A1 Emergency steer system, accumulator
- A1 Spare rim & tire, standard
- A1 Spare rim
- A1 Additional spare parts manuals
- A1 Additional workshop manuals

(*) Replaces the standard equipment

** Voltage rating will affect cable length and "AWG" size





Standard Unit

Main dimensions

Total length	8 407 mm (331")
Width without bucket	2 159 mm (85")
Maximum width	2 159 mm (85")
Height with safety canopy	2 057 mm (81")

Weights

Operating weight	17 237 kg (38 000 lb.)
Total loaded weight	23 814 kg (52 500 lb.)

Axle weights without load

front axle	6 895 kg (15 200 lb.)
rear axle	10 342 kg (22 800 lb.)

Axle weights with load

front axle	16 620 kg (36 641 lb.)
rear axle	7 194 kg (15 859 lb.)

Capacities

Tramming capacity	6 577 kg (14 500 lb.)
Breakout force, lift	76 kN (7 711 kg) (17 000 lbf)
Breakout force, tilt	79 kN (8 074 kg) (17 800 lb.)
Tipping load	18 915 kg (41 700 lb.)
Buckets	2.3 - 3.0 m ³ (3.0 - 4.0 yd ³)

Bucket motion times

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

Driving speeds forward and reverse

1st gear	3.0 km/h (1.9 m.p.h.)
2nd gear	6.4 km/h (4.0 m.p.h.)
3rd gear	10.9 km/h (6.8 m.p.h.)
4th gear	18.0 km/h (11.2 m.p.h.)

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.

Standard motor

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

Standard converter

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

Transmission

Clark R32421	4-speed forward and reverse with modulation
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Standard axles

Front axle	Clark 16D2149, no-spin differential, fixed
Rear axle	Clark 16D2149 standard differential, oscillating $\pm 10^\circ$

Standard tires

Tire size	17.5 x 25, 20 PLY L5S
Type	Bridgestone
Air pressure, front	551 kPa (5.51 bar) (80 psi)
Air pressure, rear	551 kPa (5.51 bar) (80 psi)

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 (with std bucket):

Right	inner	2997 mm (118 ")
	outer	5511 mm (217 ")

Turning angle 42.0°

Main components in steering system:

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) (2 500 psi)
Port relief valves	18.6 MPa (186 bar) (2700 psi)

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) (800psi)
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)
Hydraulic oil tank capacity	Appro. 303 l (80 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 button is engaged.

Main components in the brake system:

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

Standard manuals (customer)

3 pcs Spare parts manuals	English
3 Operators manual	English
3 Service manual	English

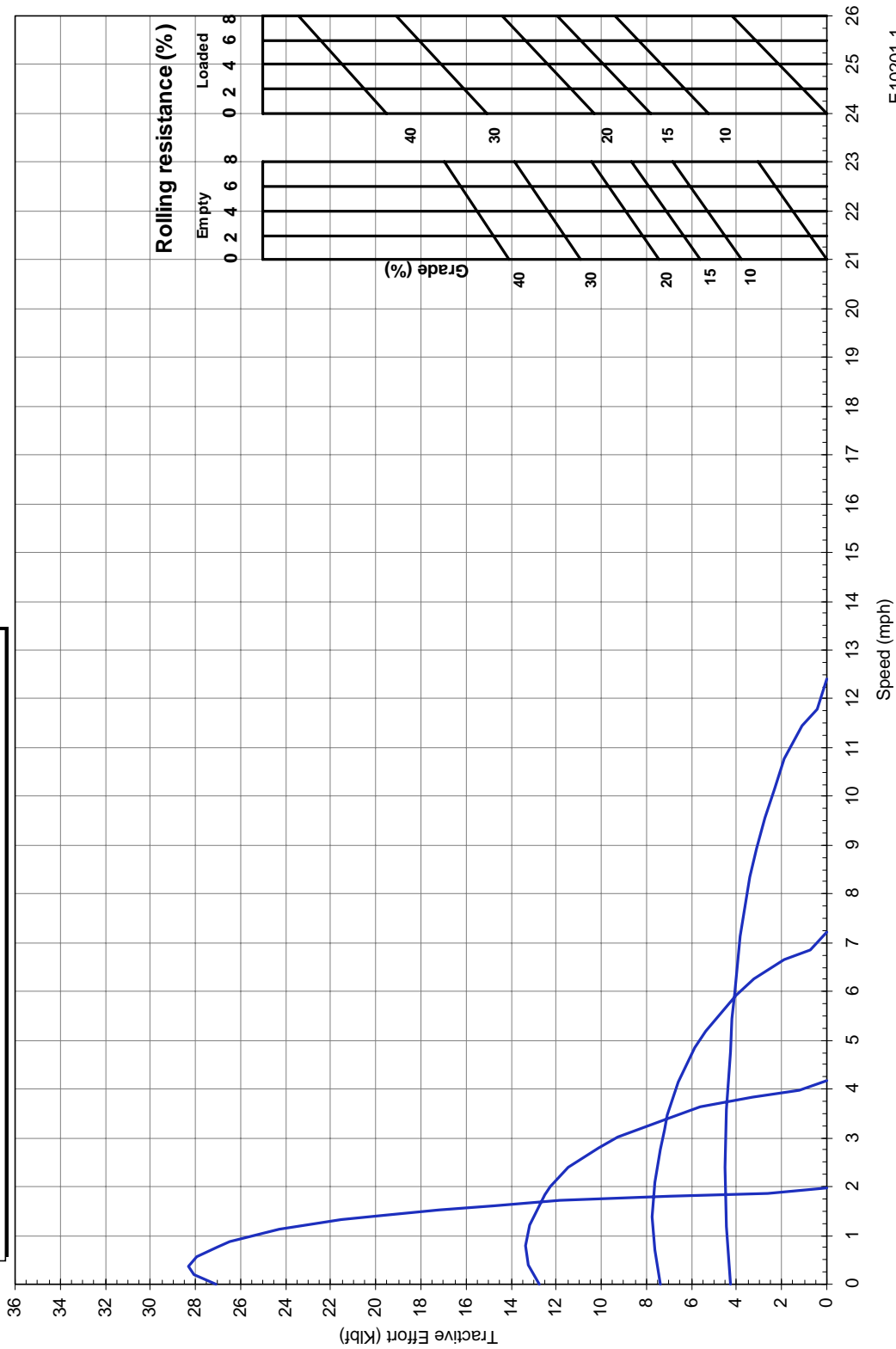
Standard manuals (market area)

1 pcs Spare parts manuals	English
1 Operators manual	English
1 Service manual	English





Speeds On Grade



E10201-1

EJC 145 Electric (Imperial Units)
 MOTOR: 600 V TEAO, 60 Hz
 AXLES: 16D2149
 CONVERTER: CLARK C273
 TIRES: 17.5 x 25, 20 PLY L5S
 TRANS: CLARK R32421
 PAYLOAD: 14 500 lb



