

## TECHNICAL SPECIFICATION – STANDARD

# EST-2D

Electric Scooptram®  
50 hz and 60hz

<b>Capacity</b>	<b>kg</b>	<b>(lbs)</b>
Breakout Force .....	6000 .....	(13,228)
Breakout Force, Hydraulic .....	9316 .....	(20,530)
Tramming Capacity .....	3629 .....	(8,000)

<b>Bucket – S.A.E. Rating</b>	<b>m3</b>	<b>(yd3)</b>
Nominal Heaped .....	1.9 .....	(2.5)
Struck .....	1.6 .....	(2.1)
Boom Raising Time .....	3.7 Seconds	
Boom Lowering Time .....	2.4 Seconds	
Bucket Dump Time .....	4.0 Seconds	

### Vehicle Speeds – Loaded

Forward or Reverse with 3% Rolling Resistance

Speed in km/h .....	0.0 .....	to .....	9.8
Speed in mph .....	0.0 .....	to .....	6.1

### Gradeability

Maximum .....

See Performance Curve

### Engine

Electric .....	Three (3) Phase
Available .....	50 hz and 60 hz
Power Rating .....	56 kw (75 hp)

### Trailing Cable Specification

See Specification #556 60284 01

### Cable Reel

Random wrap with automatic tension control

### Transmission

Full Power Shift, 3 Speeds Forward/Reverse, Integral Torque Converter	
Clark .....	28000 Series

### Axles

Spiral Bevel Differential, Full Floating Planetary Wheel End Drive	
Clark .....	Model 15D

### Standard Brakes

Service .....	LCB
4-Wheel, Fully Enclosed, Hydraulically Applied, Wet Discs	
Parking and Emergency: Spring Applied, Hydraulically Released, Multiple Wet Disc, Built Into Transmission	

### Tires

Tubeless, Nylon, Smooth Tread Design, For Underground Mine Service, On Demountable Rims	
Tire Size, Front & Rear .....	12.00 x 24, 16-Ply, S25, L-5S

### Steering

Articulated, Hydraulic Power Steering, Monostick Control	
Turning Angle .....	81° (40.5° each way)
System Pressure .....	13.1 MPa (1,900 psi)

### Hydraulic System

Dump and Hoist Control .....	Dual Lever
Cylinders .....	Double Acting, Chrome Plated Stems
Steering Cylinder (1) Diameter .....	127 mm (5.0 in)
Hoist Cylinder (1) Diameter .....	178 mm (7.0 in)
Dump Cylinder (1) Diameter .....	178 mm (7.0 in)
Pumps .....	Heavy Duty Gear Type
Dump/Hoist .....	163 lpm (43 gpm) @ 1,800 rpm
Steering .....	68 lpm (18 gpm) @ 1,800 rpm
Filtration .....	Suction Line: 25 Micron
Dump/Hoist System Pressure .....	11.4 MPa (1,650 psi)

<b>Tank Capacities</b>	<b>liters</b>	<b>(gallons)</b>
Hydraulic .....	144 .....	(38)

### Oscillation

Rear Axle, Tapered Roller Bearings	
Degree of Oscillation .....	Total 16°

### Operator's Arrangement

Side Entry and Side Seating For Bi-Directional Operation  
and Maximum Visibility

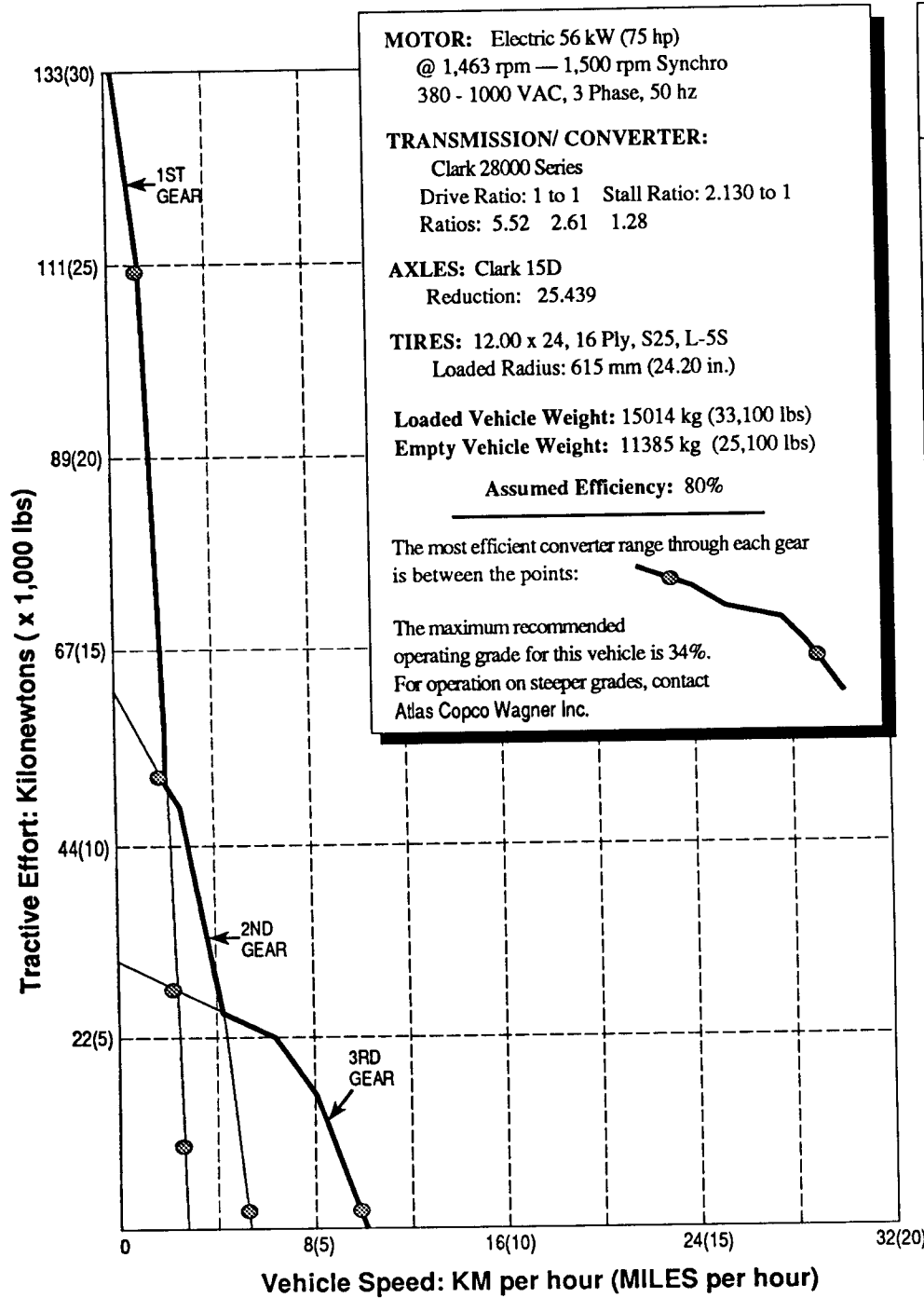
<b>Operating Weight</b>	<b>kg</b>	<b>(lbs)</b>
Empty, Approximate .....	11382 .....	(25,100)



**PERFORMANCE CURVE - 50 HZ**

**EST-2D**

**Electric Scooptram®**



**Performance On Grades**

Loaded Vehicle	T.E. x 1000 lbs	Empty Vehicle
	111(25)	
	89(20)	
	67(15)	
35%	44(10)	35%
30%		30%
25%		25%
20%		20%
15%	22(5)	15%
10%		10%
5%		5%

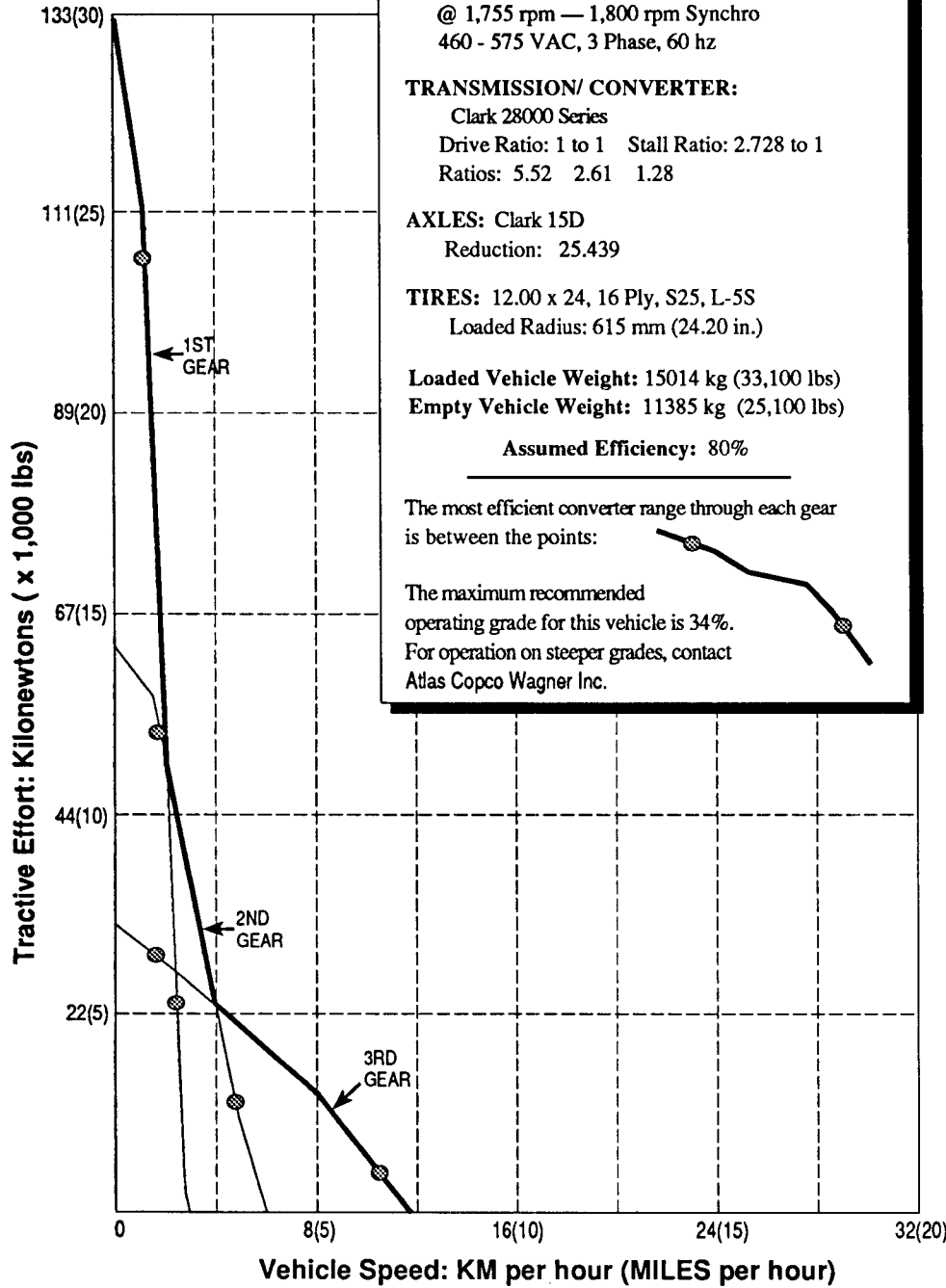
Add appropriate rolling resistance factor to % grade above. Use the sum to read the graph.

**NOTE:** The gradeability and speed curves are based on assumed variables; Use information as a guide and not as a guaranteed statement of performance.

## PERFORMANCE CURVE - 60 HZ

# EST-2D

# Electric Scooptram®



### Performance On Grades

Loaded Vehicle	T.E. x 1000 lbs	Empty Vehicle
	111(25)	
	89(20)	
	67(15)	
35%		35%
30%	44(10)	30%
25%		25%
20%		20%
15%	22(5)	15%
10%		10%
5%		5%

**NOTE:** The gradeability and speed curves are based on assumed variables; Use information as a guide and not as a guaranteed statement of performance.

Add appropriate rolling resistance factor to % grade above. Use the sum to read the graph.

**Atlas Copco**

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