

# WAGNER

## TECHNICAL SPECIFICATION - STANDARD

### EST-3.5

### Electric Scooptram® 50 hz and 60hz

<b>Capacity</b>	<b>kg</b>	<b>(lbs)</b>
Breakout Force .....	8180 .....	(18,051)
Breakout Force, Hydraulic .....	9960 .....	(21,950)
Tramming Capacity .....	6000 .....	(13,200)

<b>Bucket - S.A.E. Rating</b>	<b>m3</b>	<b>(yd3)</b>
Nominal Heaped .....	3.1 .....	(4.0)
Struck .....	2.5 .....	(3.3)
Boom Raising Time .....	6.0 Seconds	
Boom Lowering Time .....	4.0 Seconds	
Bucket Dump Time .....	4.0 Seconds	

#### Vehicle Speeds - Loaded

Forward or Reverse with 3% Rolling Resistance

Speed in km/h .....	0.0 .....	to .....	9.7
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 .....	74.6 kw (100 hp)

#### Trailing Cable Specification

See Specification #556 60284 01

#### Cable Reel

Random wrap with automatic tension control

#### Transmission & Converter

Full Power Shift, 3 Speeds Forward/Reverse, Integral Torque Converter, Single Stage	
Clark Model 13 MHR .....	28000 Series

#### Gear Box

Single Speed w/Pump Drives	
FUNK .....	Model 28104

#### Axles

Spiral Bevel Differential, Full Floating Planetary Wheel End Drive	
Rock Torque® .....	406 Series

#### Standard Brakes

Service .....	SAHR®
Spring Applied Hydraulic Release: Fully Enclosed, Multiple Wet Discs at Each Wheel End	
Parking and Emergency .....	Same (SAHR)

#### Tires

Tubeless, Nylon, Smooth Tread Design, For Underground Mine Service, On Demountable Rims	
Tire Size, Front & Rear .....	17.5 x 25, 20-Ply, L-5S

#### Steering

Articulated, Hydraulic Power Steering, Monostick Control	
Turning Angle .....	85° (42.5° each way)
System Pressure .....	15.8 MPa (2,300 psi)

#### Hydraulic System

Cylinders .....	Double Acting, Chrome Plated Stems
Steering Cylinders (2) Diameter .....	89 mm (3.5 in)
Hoist Cylinders (2) Diameter .....	152 mm (6.0 in)
Dump Cylinder (1) Diameter .....	152 mm (6.0 in)
Pumps .....	Heavy Duty Gear Type
Dump/Hoist .....	92+92 lpm (48 gpm) @ 2,100 rpm
Steering .....	61 lpm (16 gpm) @ 2,100 rpm
Filtration .....	Suction Line: 25 Micron
Dump/Hoist System Pressure .....	13.8 MPa (2,000 psi)

#### Tank Capacities

	<b>liters</b>	<b>(gallons)</b>
Hydraulic .....	273 .....	(72)

#### Oscillation

Rear Axle, Trunnion Mounted, Synthane Bushings	
Degree of Oscillation .....	Total 14°

#### Operator's Arrangement

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

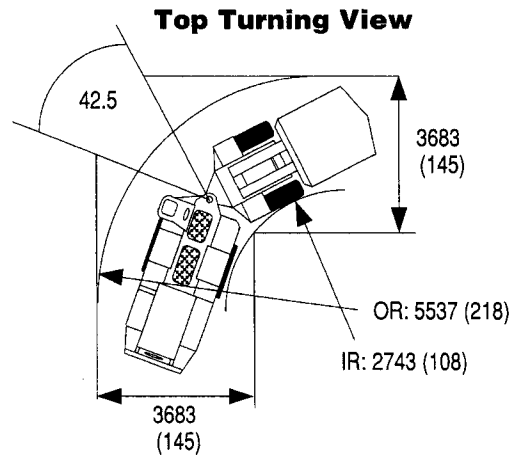
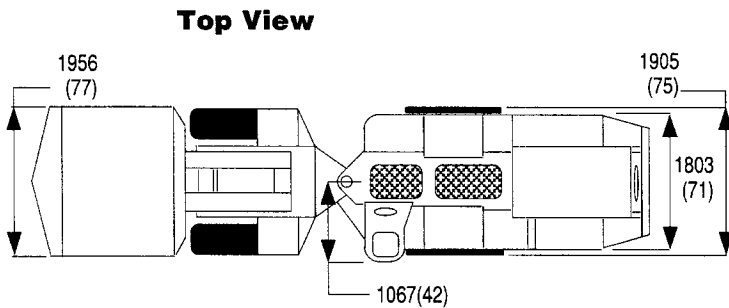
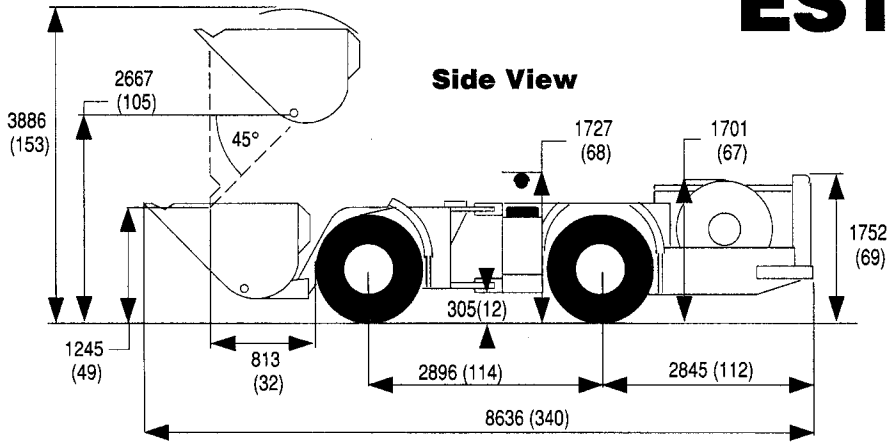
#### Operating Weight

	<b>kg</b>	<b>(lbs)</b>
Empty, Approximate .....	17010 .....	(37,500)

Manufactured with an MSHA Title 30, Part 32, (Schedule 24) Certified Engine.

Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice.

# EST-3.5



NOTES: Dimensions shown in millimeters (inches).  
All height dimensions are based on an unloaded vehicle  
tire radius of 660 (26)

## Standard Features

- |                                      |                                 |                                  |
|--------------------------------------|---------------------------------|----------------------------------|
| 3201 – Modulated Shift Transmission  | 5700 – Neutral Start Protection | 8008 – SAHR Override Control     |
| 3411 – Raised Axle Vents             | 5801 – SAHR® Brake System       | 8073 – Service Meter             |
| 4002 – Steering Hinge Lock           | 6001 – Seat Belts               | 0000 – Motor Overload Protection |
| 4401 – Fully Stabilizing Bucket      | 7004 – Sealed Electrical System | 0000 – Ground Fault/Ground Check |
| 5350 – Converter Oil Cooler          | 7300 – Halogen Working Lights   | 0000 – Auto Brake Application    |
| 5550 – Hydraulic Pressure Test Ports | 7400 – Electric Warning Horn    |                                  |

## Vehicle Configuration

- |                                       |                                   |                                       |
|---------------------------------------|-----------------------------------|---------------------------------------|
| 0130 – Bucket: 3.0 m3 (4.0 yd3)       | 0701 – SAHR Brakes                | 1102 – Grammer Seat                   |
| 0400 – No Canopy                      | 0801 – 17.5 x 25 Toyo L-5S TL     | 3407 – Rock Torque® Axles             |
| 0502 – No Spin Front Differential     | 0901 – Monostick Steering Control | 7003 – 24 Volt Electrical Accessories |
| 0601 – Conventional Rear Differential | 1001 – Single Lever Dump Control  |                                       |

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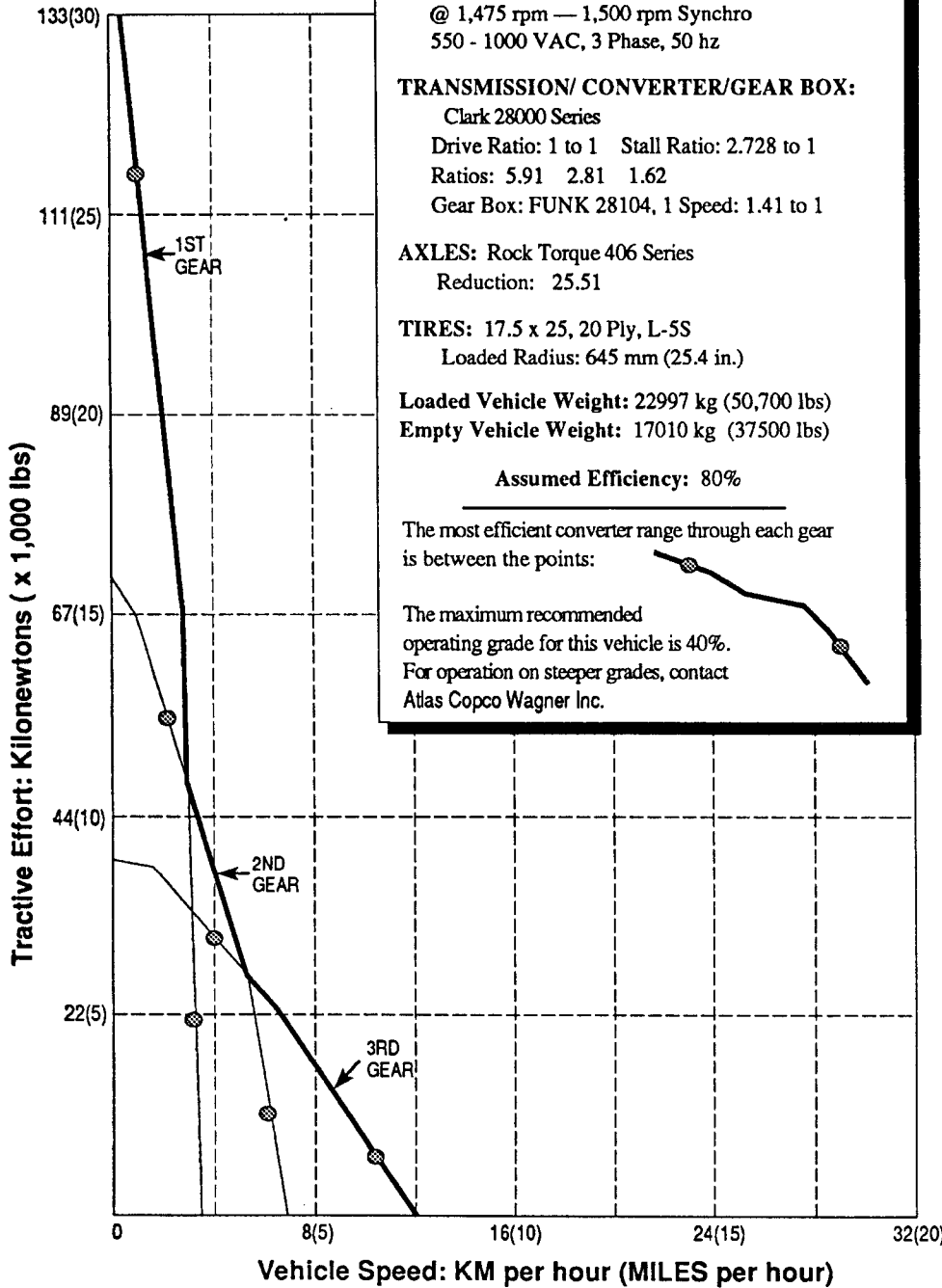
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# WAGNER

## PERFORMANCE CURVE - 50 HZ

### EST-3.5

### Electric Scooptram®



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

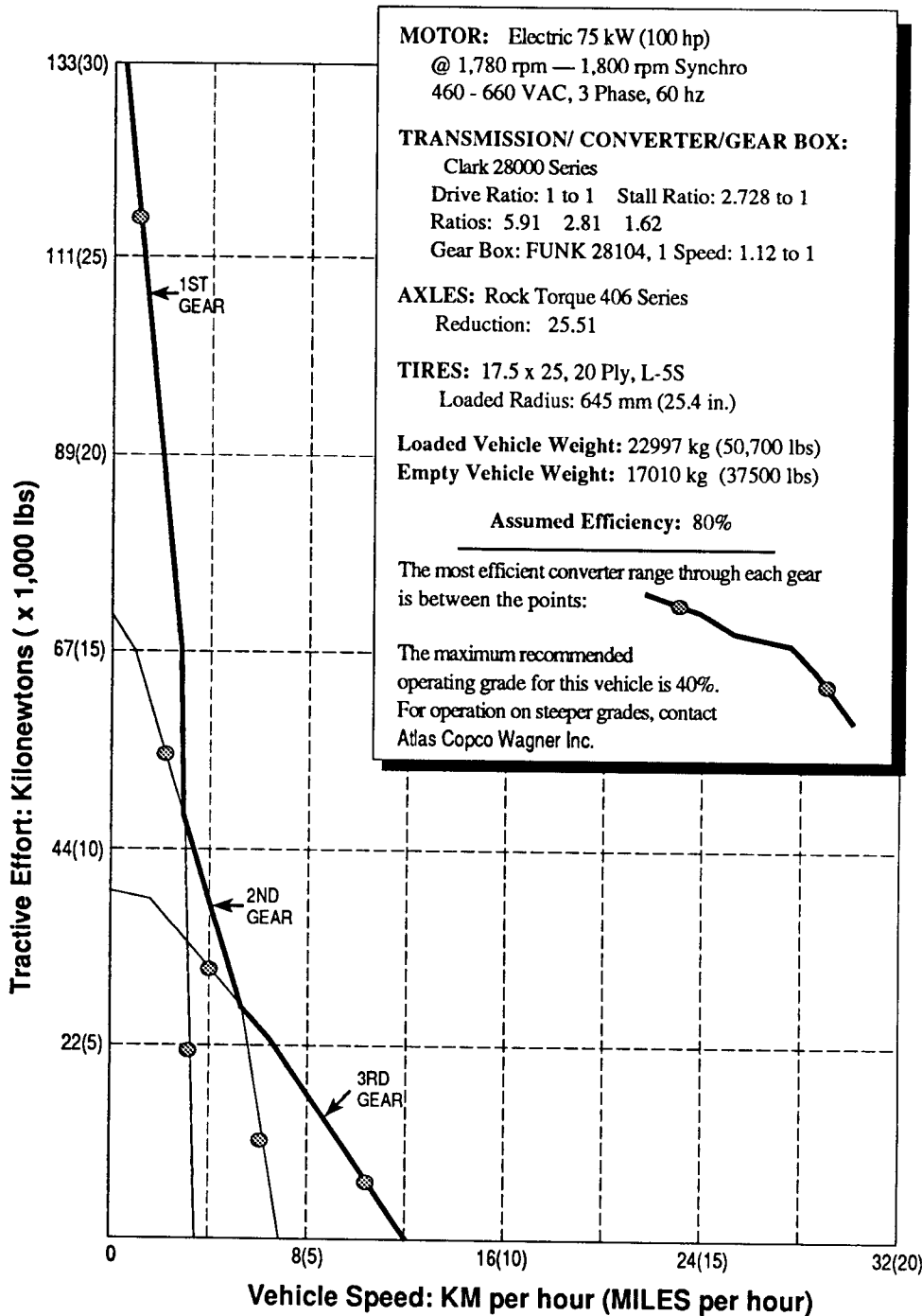
Add appropriate rolling resistance factor to % grade above. Use the sum to read the graph.

**NOTE:** The gradability 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-3.5**

**Electric Scooptram®**



**Performance On Grades**

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



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