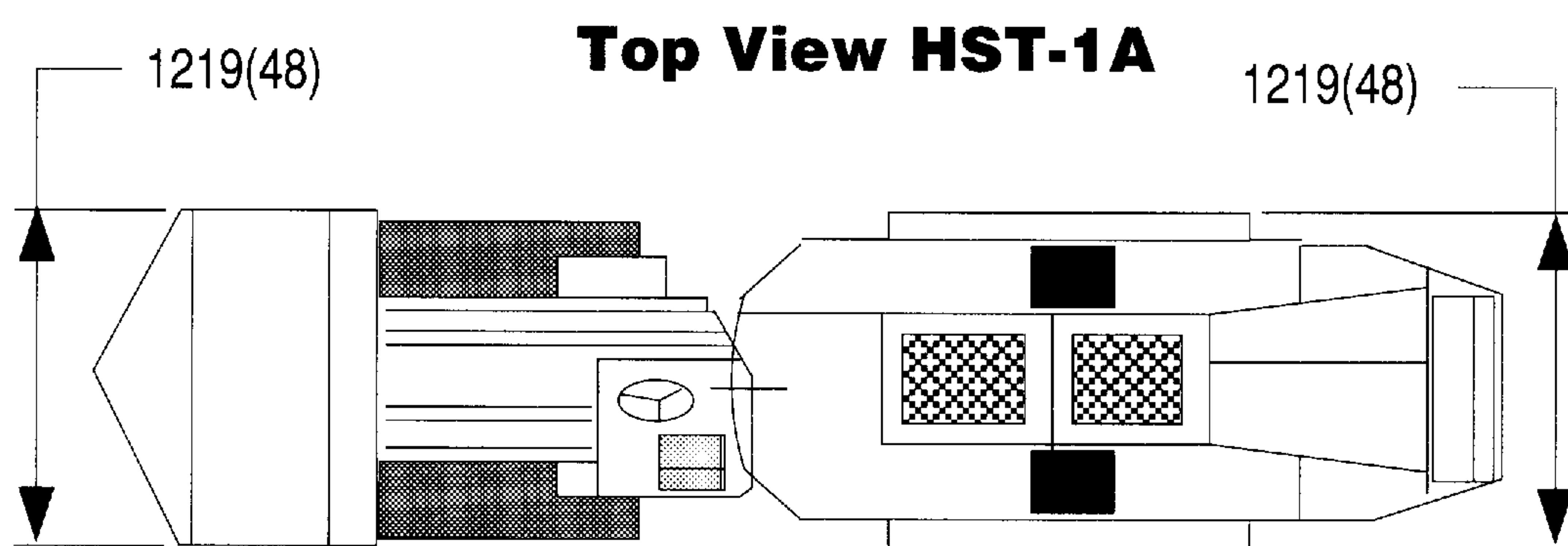
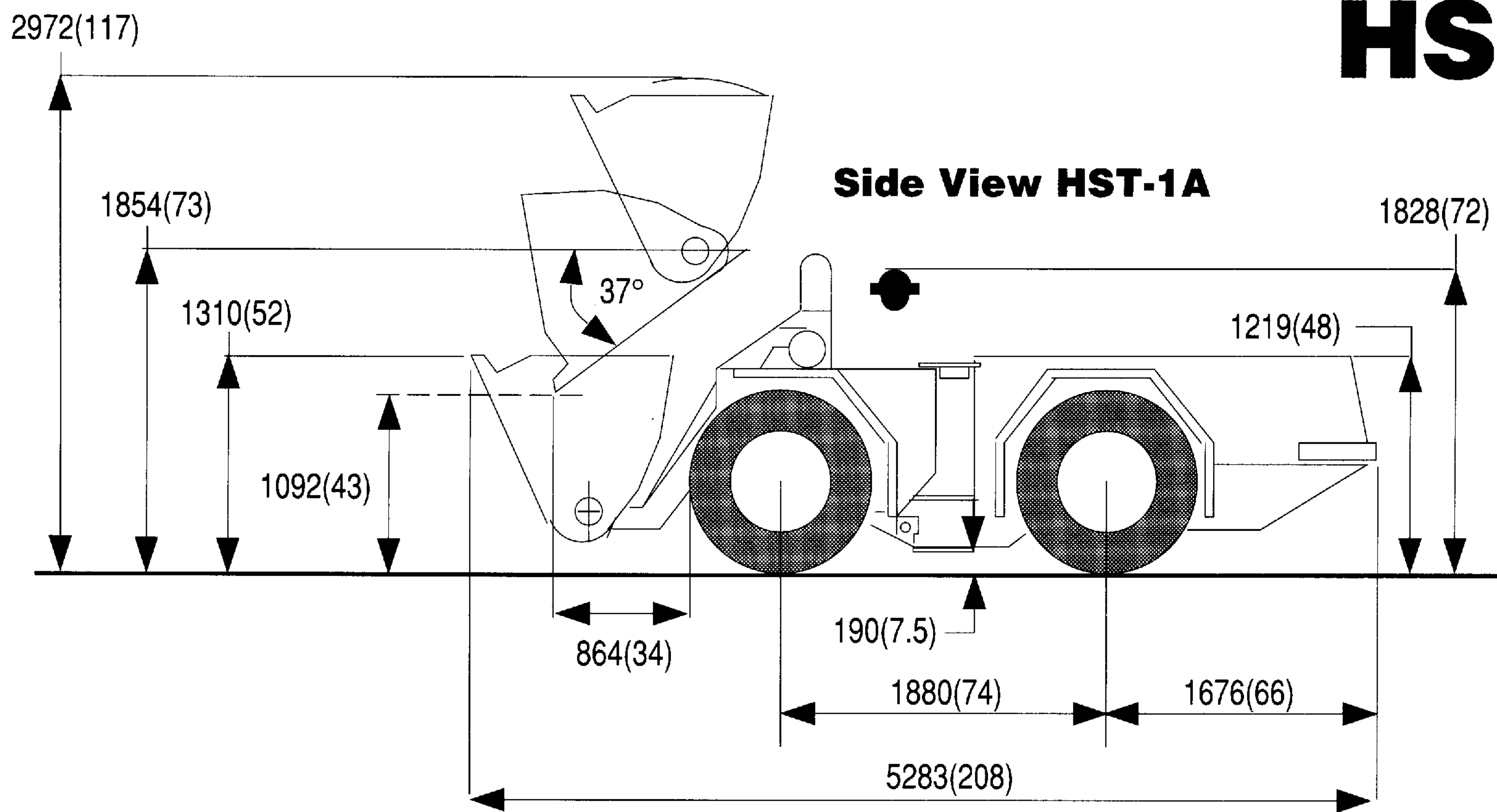
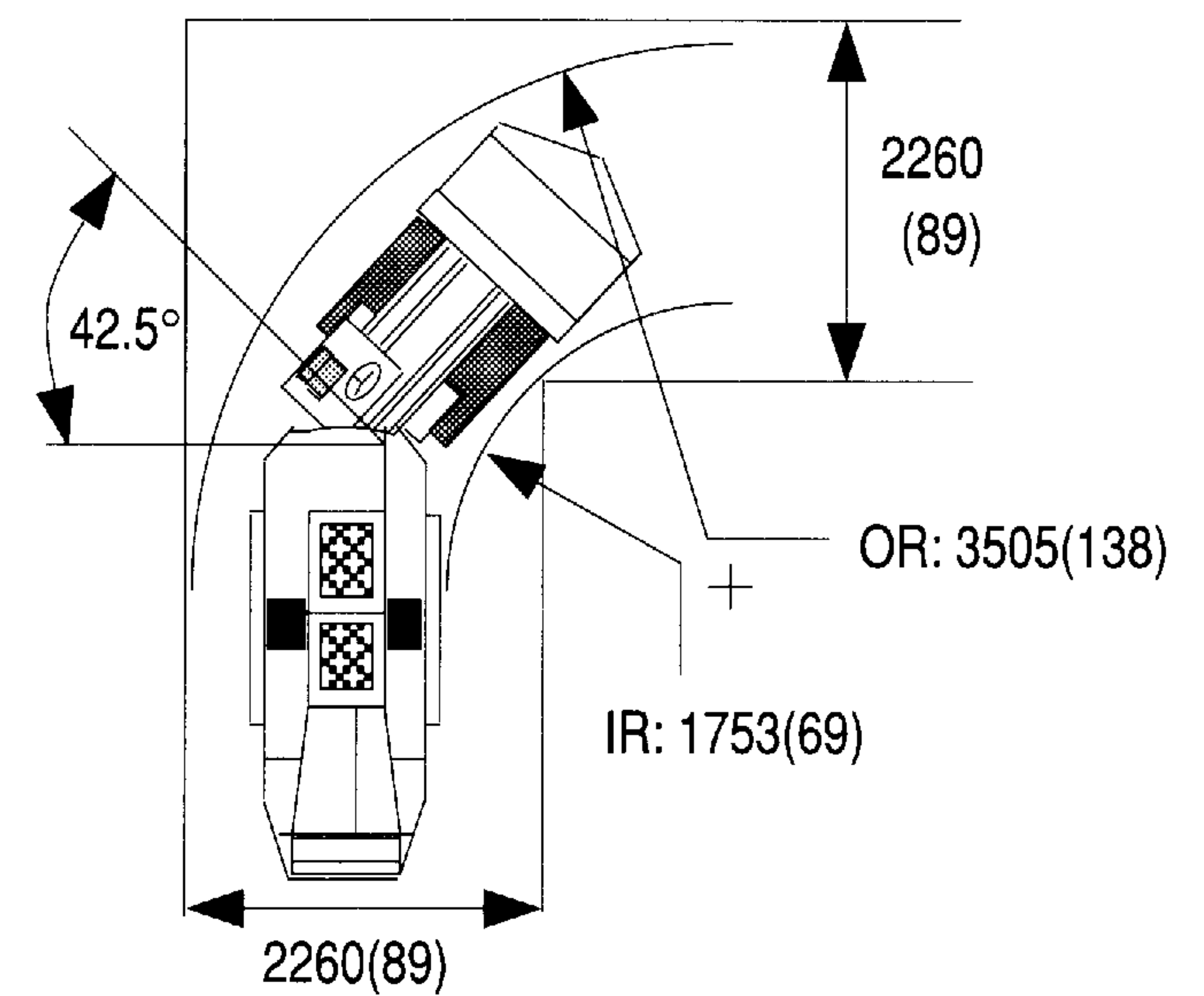


# HST-1A



**Top Turning View HST-1A**



NOTES: Dimensions shown in millimeters (inches).  
All height dimensions are based on an unloaded vehicle  
tire radius of 500 (19.7)

## Standard Features

- |   |                                       |  |
|---|---------------------------------------|--|
| 0704 – Brakes, Hydraulic                | 5224 – Fuel / Water Separator         | 7200 – Batteries                       |
| 2410 – Electric Start                   | 5550 – Hydraulic Pressure Test Ports  | 7300 – Halogen Working Lights          |
| 3204 – Transmission, Hydrostatic        | 6001 – Seat Belts                     | 7400 – Electric Warning Horn           |
| 4002 – Steering Hinge Lock              | 7001 – 12 Volt Electrical Accessories | 8073 – Engine Service Meter            |
| 4401 – Fully Stabilizing Bucket         | 7004 – Sealed Electrical System       | 8093 – Engine Low oil/High temp. Alarm |
| 5221 – Primary & Secondary Fuel Filters | 7100 – Alternator                     |  |

## Vehicle Configuration

- |  |                                       |                                |
|--|---------------------------------------|--------------------------------|
| 0108 – Bucket: 0.8 m <sup>3</sup> (1.0 yd <sup>3</sup> ) | 0502 – No Spin Front Differential     | 1002 – Dual Lever Dump Control |
| 0203 – Deutz F4L-912W                                    | 0601 – Conventional Rear Differential | 1101 – Conventional Seat       |
| 0321 – Rock Tough™ Purifier & Silencer                   | 0801 – 9.00R20 Michelin X-Mine D2     | 3402 – Clark Axles             |
| 0460 – Roll Bar  | 0902 – Wheel Steering Control         |                                |

**Distributed By:**

**Atlas Copco**

**Atlas Copco Wagner Inc.**

P.O. Box 20307 • Portland, Oregon • 97220-0307 • USA  
Telephone (503) 255-2863 • Facsimile (503) 255-7175

©1995 Atlas Copco Wagner Inc. SAHR®, Rock Torque®, Rock Tough™, and Scooptram® are trademarks of Atlas Copco Wagner Inc.  
Spec PN #556 60060 01 5/95 Printed in the USA



## TECHNICAL SPECIFICATION – STANDARD

# HST-1A

**Diesel  
Scooptram®**

<b>Capacity</b>	<b>kg</b>	<b>(lbs)</b>
Breakout Force .....	3157 .....	(6,960)
Breakout Force, Hydraulic .....	3824 .....	(8,430)
Tramming Capacity .....	1361 .....	(3,000)

<b>Bucket – S.A.E. Rating</b>	<b>m3</b>	<b>(yd3)</b>
Nominal Heaped .....	0.76 .....	(1.0)
Struck .....	0.67 .....	(0.875)
Boom Raising Time .....	4.3 Seconds	
Boom Lowering Time .....	3.6 Seconds	
Bucket Dump Time .....	2.5 Seconds	

### Vehicle Speeds – Loaded

Forward or Reverse with 3% Rolling Resistance

Speed in km/h .....	0.0 .....	to .....	12.0
Speed in mph .....	0.0 .....	to .....	7.5

### Gradeability

Maximum .....

See Performance Curve

### Engine

Deutz Diesel .....	F4L-912W
MSHA Rating @ 2,300 rpm .....	41 kW (55 hp)
Maximum Torque @ 1,550 rpm .....	183 Nm (135 ft-lbs)
Number of Cylinders .....	4, In Line
Displacement .....	3.77 L (230 in <sup>3</sup> )
Cooling .....	Air
MSHA Ventilation .....	141.5 m <sup>3</sup> /min (5,000 cfm)

### Exhaust Conditioner

Catalytic Purifier Plus Exhaust Silencer

### Electrical System

12 Volt Starting, 12 Volt Accessories

### Transmission

Hydrostatic, Fully Reversible, with Variable Pump and  
Variable Motor

### Axles

Spiral Bevel Differential, Full Floating Planetary Wheel End Drive	
Clark .....	12D Series

### Standard Brakes

Service .....

Hydrostatic Transmission

Parking and Emergency: Spring Applied, Hydraulically  
Released, Driveline Disc Brake

### Tires

Tube Type, Radial, Heavy Duty Tread Design,  
For Underground Mine Service, On Demountable Rims

Tire Size, Front & Rear .....

9.00R20 Michelin X-Mine D2

### Steering

Articulated, Hydraulic Power Steering, Wheel Control

Turning Angle .....

85° (42.5° each way)

System Pressure .....

12.4 MPa (1,800 psi)

### Hydraulic System

Dump and Hoist Control .....

Dual Lever

Cylinders .....

Double Acting, Chrome Plated Stems

Steering Cylinder (1) Diameter .....

76 mm (3.0 in)

Hoist Cylinder (1) Diameter .....

152 mm (6.0 in)

Dump Cylinder (1) Diameter .....

127 mm (5.0 in)

Pumps .....

Heavy Duty Gear Type

Dump/Hoist .....

114 lpm (30 gpm) @ 2,300 rpm

Steering .....

27 lpm (7 gpm) @ 2,300 rpm

Filtration .....

Return Line: 25 Micron

Dump/Hoist System Pressure .....

11.0 MPa (1,600 psi)

### Tank Capacities

	<b>liters</b>	<b>(gallons)</b>
Fuel .....	68 .....	(18)
Hydraulic .....	68 .....	(18)
Hydraulic Transmission .....	57 .....	(15)

### Oscillation

Rear Axle, Tapered Roller Bearings

Degree of Oscillation .....

Total 20°

### 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 .....	5058 .....	(11,150)

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.