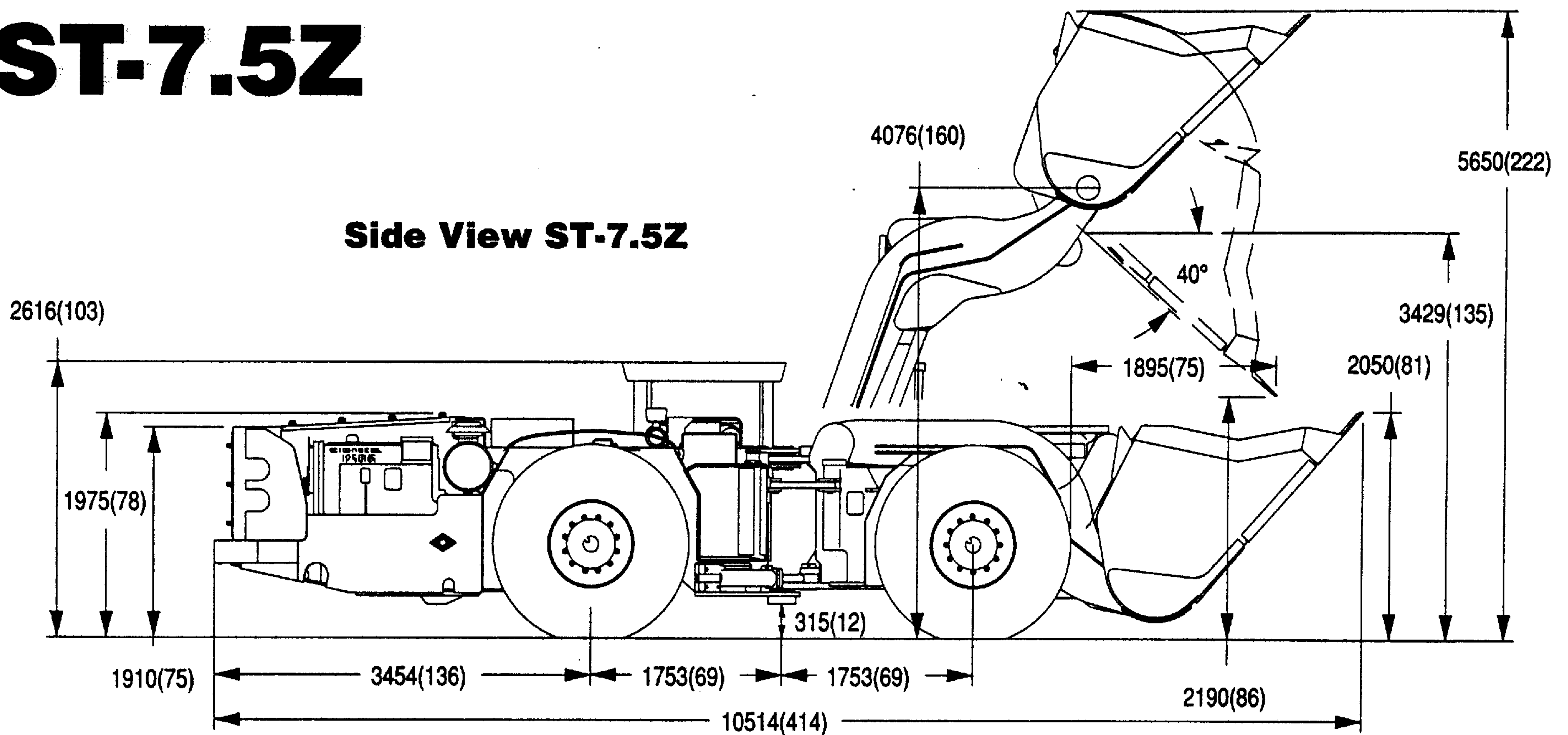
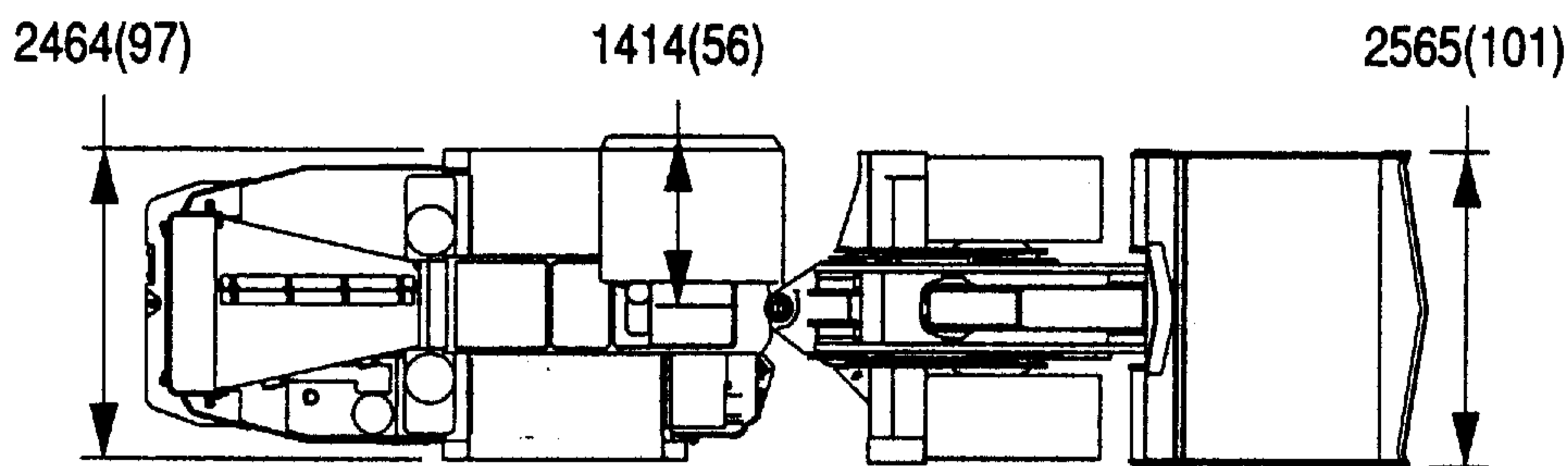


ST-7.5Z

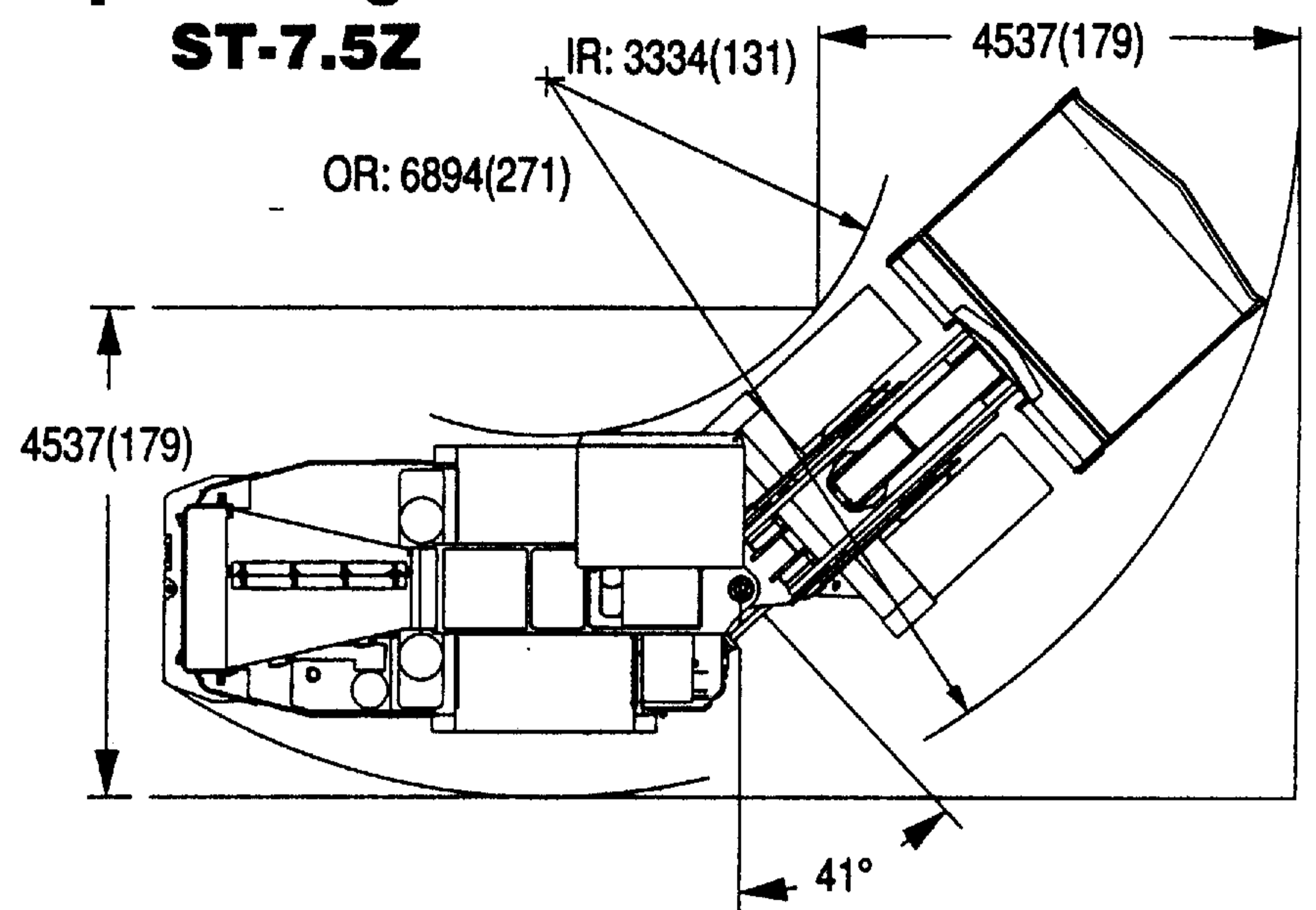
Side View ST-7.5Z



Top View ST-7.5Z



Top Turning View ST-7.5Z



Note: Dimensions shown in millimeters (inches)
Vertical dimensions based on an unloaded vehicle
tire radius of 860 (34)

Standard Features

- | | | |
|-------------------------------------|---|--|
| 2101 – Dry Type Air Cleaner(s) | 4431 – Z Bar Link | 7004 – Sealed Electrical System |
| 2410 – 24 Volt Electric Start | 5221 – Primary & Secondary Fuel Filters | 7100 – Alternator |
| 2701 – Mesabi Radiator | 5224 – Fuel / Water Separator | 7200 – Batteries |
| 3201 – Modulated Shift Transmission | 5350 – Converter Oil Cooler | 7300 – Halogen Working Lights |
| 3411 – Raised Axle Vents | 5550 – Hydraulic Pressure Test Ports | 7400 – Electric Warning Horn |
| 4002 – Steering Hinge Lock | 5700 – Neutral Start Protection | 8008 – SAHR Brake Override Control |
| 4401 – Fully Stabilizing Bucket | 5801 – SAHR® Brake System | 8073 – Engine Hour / Service Meter |
| 4415 – Tubular Bucket | 6001 – Seat Belts | 8093 – Engine Low oil/High temp. Alarm |

Vehicle Configuration

- | | | |
|--|--|---------------------------------------|
| 0157 – Bucket: 5.8 m ³ (7.5 yd ³) | 0501 – Conventional Front Differential | 1001 – Single Lever Dump Control |
| 0233 – Detroit Diesel Series 60 (11.1L) | 0602 – No Spin Rear Differential | 1102 – Grammer Seat |
| 0321 – Rock Tough™ Purifier & Silencer | 0701 – SAHR Brakes | 3407 – Rock Torque® Axles |
| 0420 – Calculated ROPS Canopy | 0801 – 26.5 x 25 TOYO L-5S TL | 7003 – 24 Volt Electrical Accessories |
| | 0901 – Monostick Steering Control | |

Distributed By:

Atlas Copco

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TECHNICAL SPECIFICATION – STANDARD

ST-7.5Z

Diesel Scooptram®

Capacity	kg	(lbs)
Breakout Force, Digging	36260	(79,939)
Tramming Capacity	12247	(27,000)

Bucket – S.A.E. Rating	m3	(yd3)
Nominal Heaped	5.7	(7.5)
Struck	5.0	(6.5)
Boom Raising Time	8.0 Seconds	
Boom Lowering Time	6.0 Seconds	
Bucket Dump Time	3.0 Seconds	

Vehicle Speeds – Loaded

Forward or Reverse with 3% Rolling Resistance

Gear	1st	2nd	3rd	4th
Speed in km/h	5.3	9.2	15.1	24.8
Speed in mph	3.3	5.7	9.4	15.4

Gradeability

Maximum See Performance Curve

Engine

Detroit Diesel Series 60
 MSHA Power Rating @ 2,100 rpm 224 kW (300 hp)
 Maximum Torque @ 1,200 rpm 1423 Nm (1,050 ft-lbs)
 Number of Cylinders 6, In Line
 Displacement 11.1 L (677 in3)
 Cooling Water
 MSHA Ventilation 907 m3/min. (32,000 cfm)
 DDEC System – Electronic Control Module (ECM) and
 Electronic Unit Injectors (EUI)

Exhaust Conditioner

Catalytic Purifier Plus Exhaust Silencer

Electrical System

24 Volt Starting, 24 Volt Accessories

Torque Converter

Single Stage, Clark 8000 Series

Transmission

Modulated Power Shift, 4 Speeds Forward/Reverse
 Clark 5000 Series

Axles

Spiral Bevel Differential, Full Floating, Planetary
 Wheel End Drive
 Rock Torque® 508 Series

Standard Brakes

Service SAHR®
 Spring Applied Hydraulically Released; Fully Enclosed,
 Force-Cooled 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 26.5 X 25, 32 Ply, L-5S

Steering -

Articulated Hydraulic Power Steering, Pilot Operated,
 Monostick Control
 Turning Angle 82° (41° each way)
 System Pressure 17.2 MPa (2,500 psi)

Hydraulic System

Dump and Hoist Control Pilot Operated, Single Lever
 Cylinders Double Acting, Chrome Plated Stems
 Steering Cylinders (2) Diameter 127 mm (5.0 in)
 Hoist Cylinders (2) Diameter 203 mm (8.0 in)
 Dump Cylinder (1) Diameter 254 mm (10.0 in)
 Pumps Heavy Duty Gear Type
 Dump/Hoist 204+204 lpm (108 gpm) @ 2,100 rpm
 Steering 204 lpm (54 gpm) @ 2,100 rpm
 Filtration Return Line: 7.5 Micron
 Dump/Hoist System Pressure 15.8 MPa (2,300 psi)

Tank Capacities

	liters	(gallons)
Fuel	560	(148)
Hydraulic	231	(60)

Oscillation

Rear Axle, Trunion Mounted, Synthane Bushings
 Degree of Oscillation Total 20°

Operator's Arrangement

Calculated ROPS Canopy, Side Seating For Bi-Directional
 Operation, and Maximum Visibility

Operating Weight

	kg	(lbs)
Empty, Approximate	36514	(80,500)

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.