

B30L

Low Profile 4X4 | Side Mount Cab

SMC

Articulated
Underground Dump Truck

Stage IIIA



- Gross Power: 320 kW (429 hp)
- Gross Torque: 2 100 Nm (1,549 lbfft)
- Rated Payload: 30 000 kg (66,139 lbs)

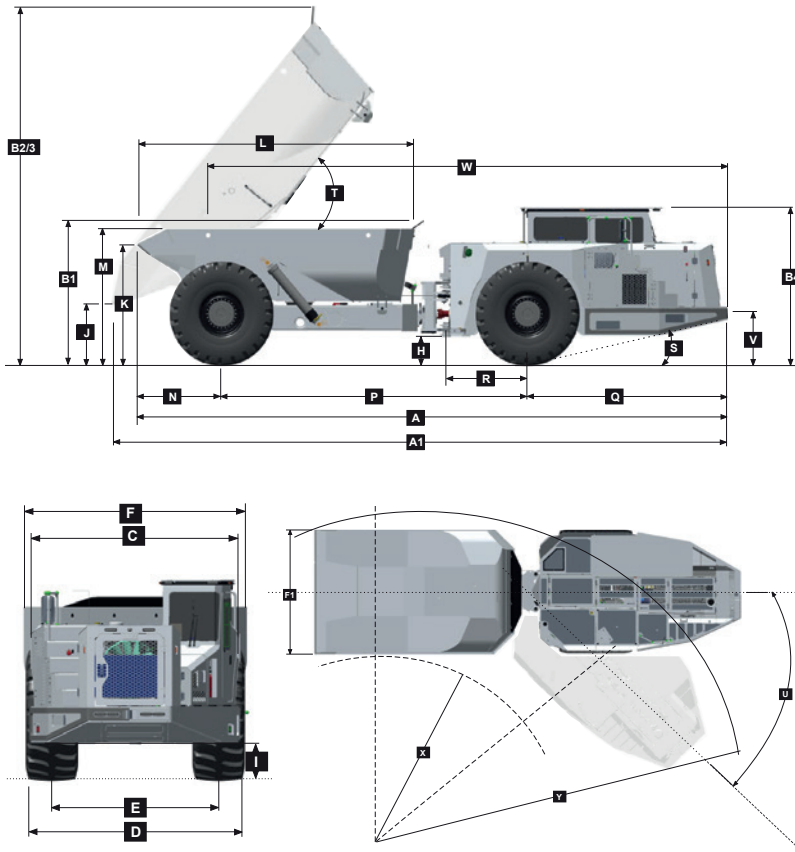
BELL

<p>ENGINE</p> <p>Manufacturer Mercedes Benz (MTU)</p> <p>Model OM471LA (MTU 6R 1300)</p> <p>Configuration Inline 6, turbocharged and intercooled</p> <p>Aspiration Turbocharged</p> <p>Cooling System Single pass radiator</p> <p>Gross power 320 kW (429 hp) @ 1 700 rpm SAE J1349</p> <p>Net Power 301 kW (404 hp) @ 1 700 rpm</p> <p>Gross Torque 2 100 Nm (1,549 lbft) @ 1 300 rpm SAE J1349</p> <p>Auxiliary Brake Jacobs Brake®</p> <p>Displacement 12,8 litres (781 cu.in)</p> <p>Fuel tank capacity 435 litres (115 US gal)</p> <p>TRANSMISSION</p> <p>Allison 4500 ORS</p> <p>Layout Planetary transmission, fully automatic</p> <p>Gear layout Constant mesh, clutch operated</p> <p>Clutch type Hydraulically operated, multiple disc</p> <p>Torque converter layout Integral with transmission, with lock-up in all gears</p>	<p>TRANSFER BOX</p> <p>Bell - remote mounted</p> <p>Manufacturer Kessler</p> <p>Model W2400</p> <p>Layout Three in-line helical gears</p> <p>Inter axle diff lock Yes (optional locked in permanent)</p> <p>AXLES</p> <p>Kessler - 40 ton</p> <p>Differential type Spiral bevel gear</p> <p>Final drive type Outboard heavy duty planetary reduction hubs</p> <p>Housing type Steel fabricated</p> <p>BRAKING SYSTEM</p> <p>SAHR Brakes</p> <p>Brake Type Kessler SAHR brakes on all wheels ends</p> <p>Brake Application Spring applied, pressure released forced cooling with 180 l tank.</p> <p>Emergency Brake Manual</p> <p>Hydraulic Emergency Brake Automatic Application Neutral Engine switch off</p> <p>Brake Test ISO 3450 & SANS 1589</p>	<p>WHEELS</p> <p>Front 26.5R25 Radial</p> <p>Rear 26.5R25 Radial</p> <p>HYDRAULIC SYSTEM</p> <p>Load-sensing with priority for brakes and steering. Central manifold block for easy trouble shooting.</p> <p>Pump Type Axial piston variable displacement load sensing</p> <p>Application Steering, bin tipping and hydraulic brake charging</p> <p>STEERING SYSTEM</p> <p>Electrical / hydraulic articulated with two double acting hydraulic cylinders.</p> <p>Angle ±44,5 degrees</p> <p>DUMPING SYSTEM</p> <p>Power down time 10 seconds</p> <p>Raise time 15 seconds</p> <p>Tipping Angle 70 degrees</p>	<p>PNEUMATIC SYSTEM</p> <p>Electric compressor</p> <p>System pressure 810 kPa (123 psi)</p> <p>ELECTRICAL SYSTEM</p> <p>Voltage 24 V</p> <p>Battery type Two maintenance free permanently sealed</p> <p>Battery Capacity 2 X 105 Ah</p> <p>Alternator Rating 28 V 150 A</p> <p>VEHICLE SPEEDS</p> <table border="1"> <tr> <td>1st</td> <td>5 km/h</td> <td>3,1 mph</td> </tr> <tr> <td>2nd</td> <td>11 km/h</td> <td>6,8 mph</td> </tr> <tr> <td>3rd</td> <td>16 km/h</td> <td>9,9 mph</td> </tr> <tr> <td>4th</td> <td>24 km/h</td> <td>15 mph</td> </tr> <tr> <td>R</td> <td>4 km/h</td> <td>2,5 mph</td> </tr> </table> <p>Max speed 24 km/h (15 mph)</p>	1st	5 km/h	3,1 mph	2nd	11 km/h	6,8 mph	3rd	16 km/h	9,9 mph	4th	24 km/h	15 mph	R	4 km/h	2,5 mph
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Operating Weights

OPERATING WEIGHTS		LOAD CAPACITY	
UNLADEN	kg (lb)	BODY	m ³ (yd ³)
Front	20 140 (44 401)	Struck Capacity	12 (16,3)
Rear	8 643 (19 054)	Heaped Capacity (SAE 2:1)	14,4 (18,8)
Total	28 783 (63 455)		
		Rated Payload	30 000 kg (66 139 lb)
LADEN	kg (lb)		
Front	27 640 (60 936)		
Rear	31 143 (68 659)		
Total	58 783 (129 594)		

Dimensions

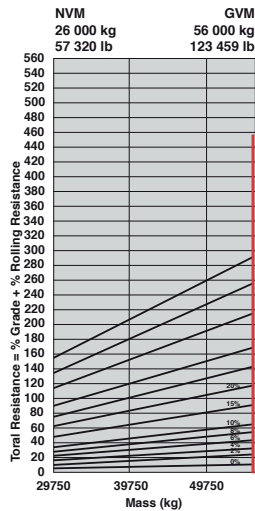


Machine Dimensions

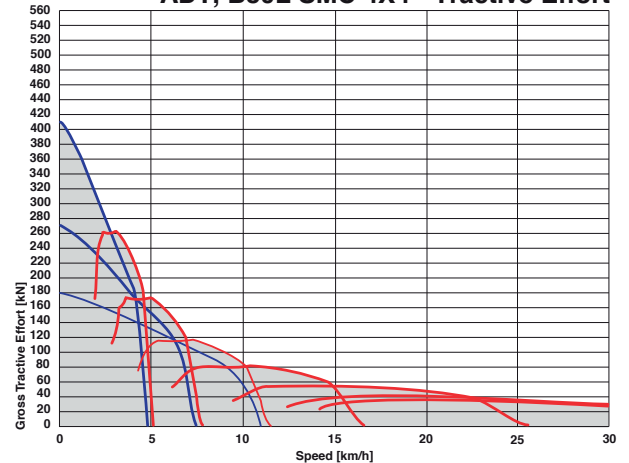
A	Length-Transport Position	10 307 mm	(33 ft 81 in)
A1	Length-Bin Fully Tipped	10 347 mm	(33 ft 94 in)
B1	Height-with Rock Guard	2 393 mm	(7 ft 35 in)
B2	Bin Height-Fully Tipped w/o Rock Guard	5 270 mm	(17 ft 28 in)
B3	Bin Height-Fully Tipped with Rock Guard	5 470 mm	(17 ft 94 in)
B4	Height - Cab	2 600 mm	(8 ft 5 in)
C	Width over front	2 850 mm	(9 ft 3 in)
D	Width over Tyres	2 955 mm	(9 ft 6 in)
E	Tyre Track Width	2 268 mm	(7 ft 44 in)
F	Width over Bin	3 030 mm	(9 ft 9 in)
H	Ground Clearance-Artic	378 mm	(1 ft 24 in)
I	Ground Clearance-Front Axle	446 mm	(1 ft 4 in)
J	Ground Clearance-Bin Fully Tipped	627 mm	(2 ft 5 in)
K	Bin Lip Height-Transport Position	1 990 mm	(6 ft 5 in)
L	Bin Length	4 840 mm	(15 ft 87 in)
M	Load over Height	2 248 mm	(7 ft 37 in)
N	Rear Axle Centre to Bin Rear	1 467 mm	(4 ft 81 in)
P	Rear Axle Centre to Front Axle Centre	5 338 mm	(17 ft 51 in)
Q	Front Axle Centre to Machine Front	3 500 mm	(11 ft 48 in)
R	Front Axle Centre to Artic Centre	1 410 mm	(4 ft 62 in)
S	Approach Angle	13°	
T	Maximum Bin Tip Angle	70°	
U	Maximum Articulation Angle	45°	
V	Front Tie Down Height	725 mm	(2 ft 37 in)
W	Machine Lifting Centres	9 066 mm	(29 ft 74 in)
X	Inner Turning Circle Radius	4 500 mm	(14 ft 76 in)
Y	Outer Turning Circle Radius	8 600 mm	(28 ft 21 in)

Gradeability / Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight left across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

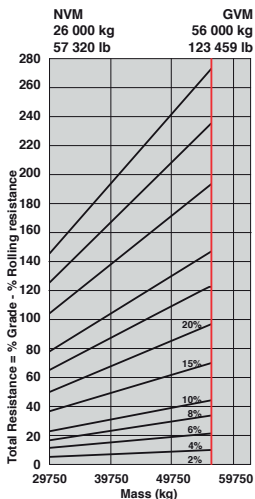


ADT, B30L SMC 4X4 - Tractive Effort

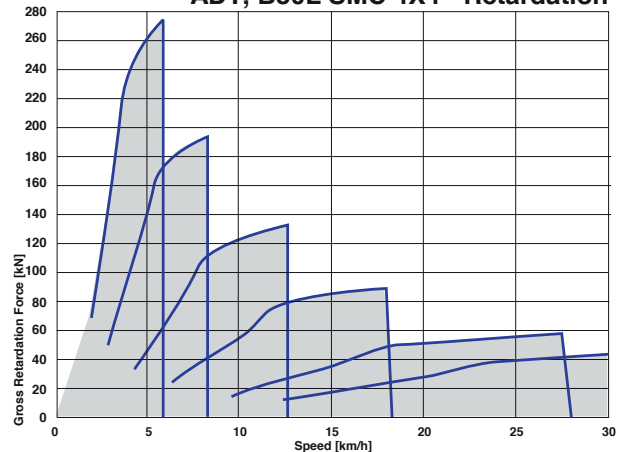


Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight left across charts until line intersects the curve. NOTE: 2% typical rolling resistance is already assumed in chart.
3. Read down from this point to determine maximum speed.



ADT, B30L SMC 4X4 - Retardation



CONTROL/DISPLAY

- 25 Button SSM with digital display

LIGHTING

- 6 Forward facing worklights
- 4 Rear facing work lights
- 2 Rear facing LED brake lights

CAB

- Enclosed with airconditioning system 28 500 btu @ 45 °C ambient
- Trainer seat available
- ROPS – ISO 3471 / FOPS – ISO 3449

OPTIONS

- ▲ Central greasing system
- ▲ Fire suppression system
- ▲ Fire extinguishers

GENERAL

- SAHR Brakes
- 2 Electrical hooters
- Voltmeter
- Flashing beacon
- Jacobs® brake
- Belly plate
- Non slip surfaces on all walk ways
- Engine protection
- Engine over-rev protection
- Suspension seat
- Speedometer
- Incline assist
- Base line risk assessment



Features of the Low Profile Articulated Dump Trucks...

- With a highly efficient power and drive-train combined with low rolling resistance the Bell B30L delivers superior fuel efficiency.
- High performance engine with increased power and torque and long service intervals.
- Fewer scheduled service requirements.

All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change technical data and design without prior notice. Photographs featured in this brochure may include optional equipment.

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**Strong Reliable Machines
Strong Reliable Support**

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