

Technical Data - B35E

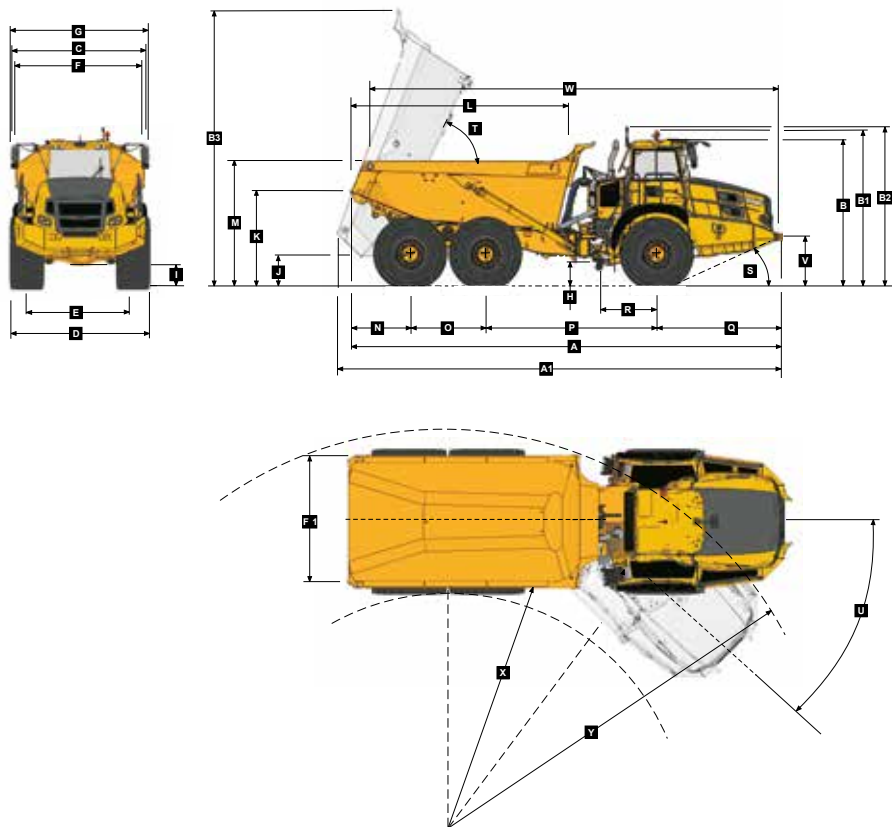
ENGINE		Torque Control		Total Retardation Power		DUMPING SYSTEM	
Manufacturer		Hydrodynamic with lock-up in all gears.		Continuous: 442 kW (593 hp)		Two double-acting, single stage, dump cylinders.	
Mercedes Benz (MTU)				Maximum: 834 kW (1 118 hp)			
Model		TRANSFER CASE		WHEELS		Raise Time	
OM470LA (MTU 6R 1100)		Manufacturer		Type		11 seconds	
Configuration		Kessler		Radial Earthmover		Lowering Time	
Inline 6, turbocharged and intercooled.		Series		Tyre		6 seconds	
Gross Power		W2400		26.5 R 25		Tipping Angle	
320 kW (429 hp) @ 1 700 rpm		Layout		FRONT SUSPENSION		70 deg standard, or any lower angle programmable	
Net Power		Remote mounted		Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.			
301 kW (404 hp) @ 1 700 rpm		Gear Layout		Option: Electronically controlled adaptive suspension with ride height adjustment.			
Gross Torque		Three in-line helical gears		REAR SUSPENSION		PNEUMATIC SYSTEM	
2 100 Nm (1 549 lbf) @ 1 300 rpm		Output Differential		Pivoting walking beams with laminated rubber suspension blocks.		Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.	
Displacement		Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.		Option: Comfort Ride suspension walking beams, with two-stage sandwich block.		System Pressure	
10,7 litres (653 cu.in)						810 kPa (117 psi)	
Auxiliary Brake		AXLES		HYDRAULIC SYSTEM		ELECTRICAL SYSTEM	
Exhaust Valve Brake		Manufacturer		Full load sensing system serving the prioritized steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.		Voltage	
Fuel Tank Capacity		Bell				24 V	
352 litres (93 US gal)		Model				Battery Type	
AdBlue® Tank Capacity		30T				Two AGM (Absorption Glass Mat) type.	
40 litres (11 US gal)		Differential				Battery Capacity	
Certification		High input controlled traction differential with spiral bevel gears				2 X 75 Ah	
OM470LA (MTU 6R 1100) meets EU Stage IV / EPA Tier 4 Final emissions regulations.		Final Drive				Alternator Rating	
		Outboard heavy duty planetary on all axles.				28V 80A	
TRANSMISSION		BRAKING SYSTEM		Pump Type		MAX. VEHICLE SPEED	
Manufacturer		Service Brake		Variable displacement load sensing piston		1st 7 km/h 4 mph	
Allison		Dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. Wet brake oil is circulated through a filtration and cooling system.		Flow		2nd 15 km/h 9 mph	
Model				330 L/min (87 gal/min)		3rd 22 km/h 14 mph	
4500 ORS				Pressure		4th 34 km/h 21 mph	
Configuration				315 bar (4 569 psi)		5th 45 km/h 28 mph	
Fully automatic planetary transmission.				Filter		6th 51 km/h 32 mph	
Layout				5 microns		R 6 km/h 4 mph	
Engine mounted							
Gear Layout						CAB	
Constant meshing planetary gears, clutch operated						ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.	
Gears							
6 Forward, 1 Reverse							
Clutch Type							
Hydraulically operated multi-disc							
Control Type							
Electronic							

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE*		LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN		BODY	m³ (yd³)		kg (lb)
Front	16 279 (35 889)	(No sinkage/Total Contact Area Method)		Struck Capacity	16 (21)	Bin liner	1 216 (2 681)
Middle	7 341 (16 184)	26.5 R 25	kPa (Psi)	SAE 2:1 Capacity	20,5 (27)	Tailgate	906 (1 997)
Rear	6 759 (14 901)	Front	361 (52)	SAE 1:1 Capacity	24,5 (32)		
Total	30 379 (66 974)	Mid & Rear	379 (55)	SAE 2:1 Capacity with Tailgate	21 (28)	EXTRA WHEELSET	
LADEN						26.5 R 25	672 (1 482)
Front	20 232 (44 602)						
Middle	22 114 (48 755)			Rated Payload	33 500 kg		
Rear	21 533 (47 472)				(73 855 lb)		
Total	63 879 (140 829)						

* All Groundpressures calculated with Michelin XADN+ Tyre

Dimensions

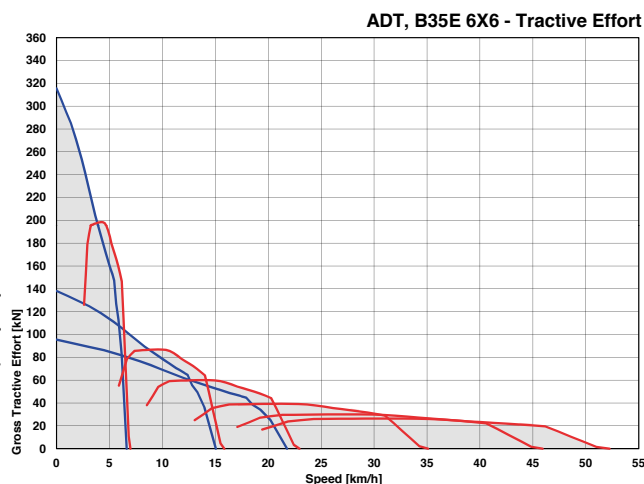
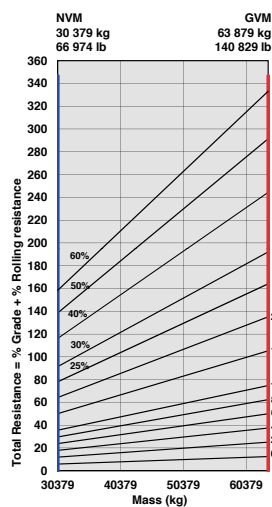


Machine Dimensions

A	Length - Transport Position with Tailgate	11268 mm (37 ft.)
A	Length - Transport position w/o Tailgate	11188 mm (36 ft. 8 in.)
A1	Length - Bin Fully Tipped	11631 mm (38 ft. 2 in.)
B	Height - Transport Position	3752 mm (12 ft. 4 in.)
B1	Height - Rotating Beacon	3988 mm (13 ft. 1 in.)
B2	Height - Load Light	4076 mm (13 ft. 4 in.)
B3	Bin Height - Fully Tipped	7213 mm (23 ft. 8 in.)
C	Width over Mudguards	3495 mm (11 ft. 6 in.)
D	Width over Tyres - 26.5R25	3438 mm (11 ft. 3 in.)
E	Tyre Track Width - 26.5R25	2768 mm (9 ft. 1 in.)
F	Width over Bin	3112 mm (10 ft. 3 in.)
F1	Width over Tailgate	3402 mm (11 ft. 2 in.)
G	Width over Mirrors - Operating Position	3614 mm (11 ft. 10 in.)
H	Ground Clearance - Artic	493 mm (19.41 in.)
I	Ground Clearance - Front Axle	493 mm (19.41 in.)
J	Ground Clearance - Bin Fully Tipped	822 mm (32.4 in.)
K	Bin Lip Height - Transport Position	2463 mm (8 ft. 1 in.)
L	Bin Length	5709 mm (18 ft. 9 in.)
M	Load over Height	3084 mm (10 ft. 1 in.)
N	Rear Axle Centre to Bin Rear	1545 mm (5 ft.)
O	Mid Axle Centre to Rear Axle Centre	1950 mm (6 ft. 5 in.)
P	Mid Axle Centre to Front Axle Centre	4438 mm (14 ft. 7 in.)
Q	Front Axle Centre to Machine Front	3255 mm (10 ft. 8 in.)
R	Front Axle Centre to Artic Centre	1558 mm (5 ft. 1 in.)
S	Approach Angle	23 °
T	Maximum Bin Tip Angle	70 °
U	Maximum Articulation Angle	42 °
V	Front Tie Down Height	1215 mm (4 ft.)
W	Machine Lifting Centres	10655 mm (34 ft. 11 in.)
X	Inner Turning Circle Radius - 26.5R25	4891 mm (16 ft.)
Y	Outer Turning Circle Radius - 26.5R25	9211 mm (30 ft. 3 in.)

Grade Ability/Rimpull

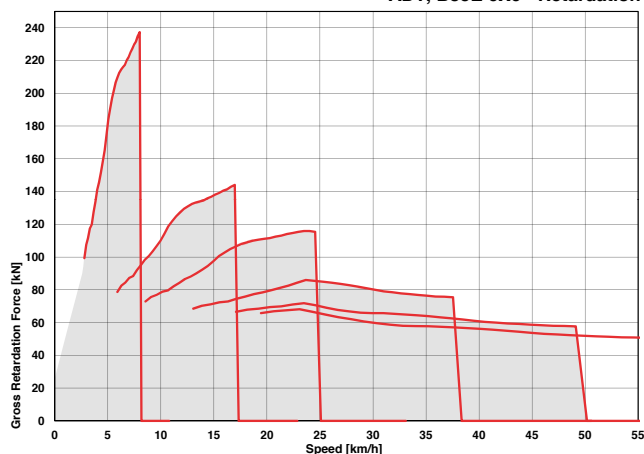
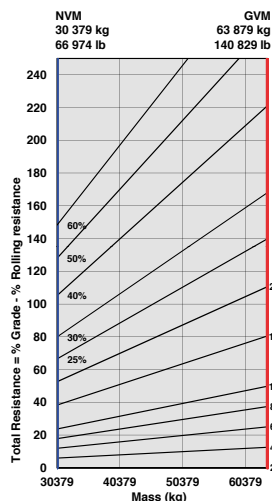
- Determine tractive force by finding intersection of vehicle mass line and grade line.
NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
- From this intersection, move straight right across charts until line intersects rimpull curve.
- Read down from this point to determine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



ADT, B35E 6X6 - Tractive Effort

Retardation

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



ADT, B35E 6X6 - Retardation