

Technical Data - B45E

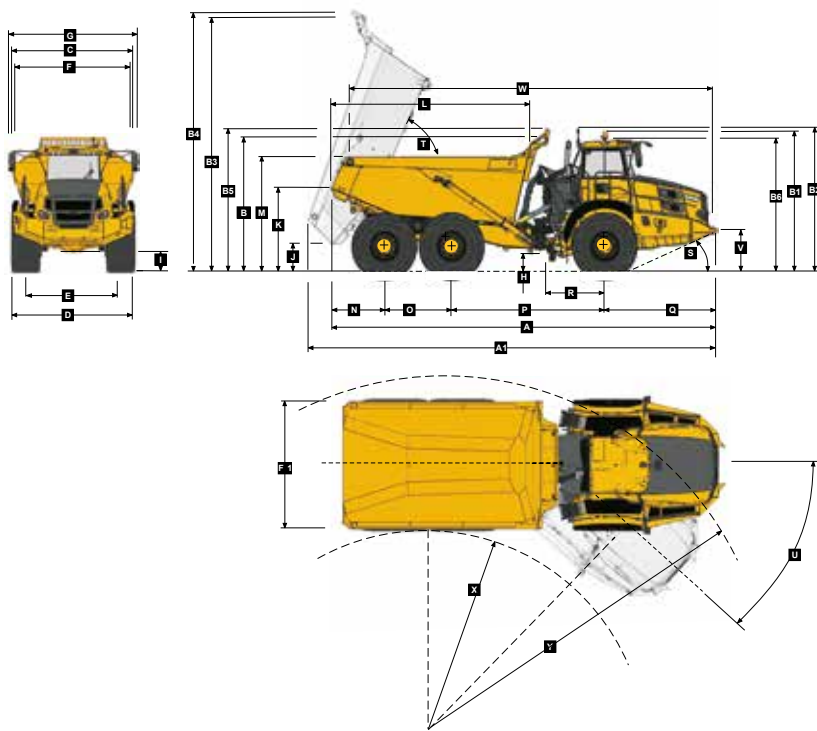
ENGINE		Torque Control		Total Retardation Power		DUMPING SYSTEM	
Manufacturer		Hydrodynamic with lock-up in all gears.		Continuous: 442 kW (593 hp)		Two double-acting, single stage, dump cylinders.	
Mercedes Benz (MTU)				Maximum: 854 kW (1 145 hp)			
Model		TRANSFER CASE		WHEELS		Raise Time	
OM471LA (MTU 6R 1300)		Manufacturer		Type		11 seconds	
		Kessler		Radial Earthmover			
Configuration		Model		Tyre		Lowering Time	
Inline 6, turbocharged and intercooled.		W2400		29.5 R 25 (875/65 R 29 optional)		6 seconds	
Gross Power		Layout				Tipping Angle	
390 kW (523 hp) @ 1 700 rpm		Remote mounted				70 deg standard, or any lower angle programmable	
Net Power		Gear Layout		FRONT SUSPENSION			
369 kW (495 hp) @ 1 700 rpm		Three in-line helical gears		Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.			
Gross Torque		Output Differential		Option: Electronically controlled adaptive suspension with ride height adjustment.			
2 460 Nm (1 814 lbf) @ 1 300 rpm		Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.					
Displacement				REAR SUSPENSION		PNEUMATIC SYSTEM	
12,8 litres (781 cu.in)				Pivoting walking beams with laminated rubber suspension blocks.		Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.	
Auxiliary Brake		AXLES		Option: Comfort Ride suspension walking beams, with two-stage sandwich block.			
Engine Valve Brake		Manufacturer				System Pressure	
		Bell				810 kPa (117 psi)	
Fuel Tank Capacity		Model		HYDRAULIC SYSTEM		ELECTRICAL SYSTEM	
352 litres (93 US gal)		30T		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	
AdBlue® Tank Capacity		Differential				24 V	
40 litres (11 US gal)		High input controlled traction differential with spiral bevel gears					
		Final Drive				Battery Type	
Certification		Outboard heavy duty planetary on all axles.				Two AGM (Absorption Glass Mat) type.	
OM471LA (MTU 6R 1300) meets EU Stage IV / EPA Tier 4 Final emissions regulations.							
						Battery Capacity	
						2 X 75 Ah	
						Alternator Rating	
						28V 80A	

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE*		LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN		BODY	m³ (yd³)		kg (lb)
Front	16 984 (37 443)	(No sinkage/Total Contact Area Method)		Struck Capacity	19,5 (25,5)	Bin liner	1 404 (3 095)
Middle	7 778 (17 148)	29.5 R 25	kPa (Psi)	SAE 2:1 Capacity	25 (33)	Tailgate	1 013 (2 233)
Rear	7 564 (16 676)	Front	321 (47)	SAE 1:1 Capacity	29,5 (38)	875/65 R29	
Total	32 326 (71 267)	Mid & Rear	370 (54)	SAE 2:1 Capacity with Tailgate	26 (34)	(per vehicle) Add	1 182 (2 606)
LADEN						EXTRA WHEELSET	
Front	22 109 (48 742)	875/65 R29	kPa (Psi)			29.5 R 25	800 (1 764)
Middle	25 715 (56 692)	Front	294 (43)	Rated Payload	41 000 kg	875/65 R29	1 024 (2 258)
Rear	25 502 (56 222)	Mid & Rear	331 (48)		(90 390 lb)		
Total	73 326 (161 656)						

* 29.5R25 Groundpressures calculated with Michelin XADN+ Tyre. 875/65R29 Groundpressures calculated with Michelin XAD65-1 Tyre.

Dimensions

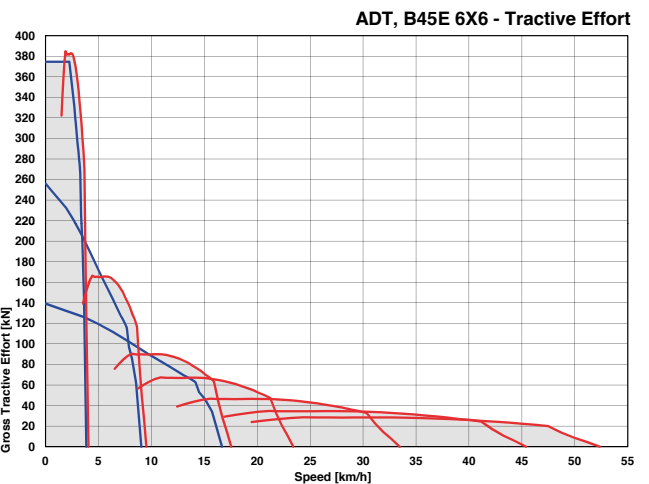
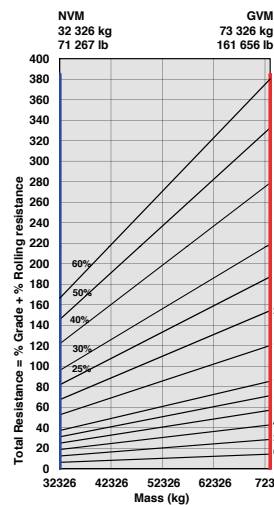


Machine Dimensions

A	Length - Transport Position with Tailgate	11184 mm (36 ft. 8 in.)
A	Length - Transport Position w/o Tailgate	11184 mm (36 ft. 8 in.)
A1	Length - Bin Fully Tipped	11778 mm (38 ft. 8 in.)
B	Height - Transport Position w/o Rock Guard	3802 mm (12 ft. 6 in.)
B	Height - Transport Position with Rock Guard	3844 mm (12 ft. 7 in.)
B1	Height - Rotating Beacon	4038 mm (13 ft. 3 in.)
B2	Height - Load Light	4127 mm (13 ft. 6 in.)
B3	Bin Height - Fully Tipped w/o Rock Guard	7340 mm (24 ft. 1 in.)
B4	Bin Height - Fully Tipped with Rock Guard	7448 mm (24 ft. 5 in.)
B5	Height - Rock Guard Operating Position	4123 mm (13 ft. 6 in.)
B6	Height - Cab	3802 mm (12 ft. 6 in.)
C	Width over Mudguards	3495 mm (11 ft. 6 in.)
D	Width over Tyres - 875/65 R29	3656 mm (12 ft.)
D	Width over Tyres - 29.5R25	3487 mm (11 ft. 5 in.)
E	Tyre Track Width - 875/65 R29	2773 mm (9 ft. 1 in.)
E	Tyre Track Width - 29.5R25	2725 mm (8 ft. 11 in.)
F	Width over Bin	3448 mm (11 ft. 4 in.)
F1	Width over Tailgate	3738 mm (12 ft. 3 in.)
G	Width over Mirrors - Operating Position	3614 mm (11 ft. 10 in.)
H	Ground Clearance - Artic	545 mm (21.46 in.)
I	Ground Clearance - Front Axle	543 mm (21.34 in.)
J	Ground Clearance - Bin Fully Tipped	880 mm (34.65 in.)
K	Bin Lip Height - Transport Position	2521 mm (8 ft. 3 in.)
L	Bin Length	5753 mm (18 ft. 10 in.)
M	Load over Height	3316 mm (10 ft. 11 in.)
N	Rear Axle Centre to Bin Rear	1540 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	3256 mm (10 ft. 8 in.)
R	Front Axle Centre to Artic Centre	1558 mm (5 ft. 1 in.)
S	Approach Angle	24 °
T	Maximum Bin Tip Angle	70 °
U	Maximum Articulation Angle	42 °
V	Front Tie Down Height	1262 mm (4 ft. 2 in.)
W	Machine Lifting Centres	10569 mm (34 ft. 8 in.)
X	Inner Turning Circle Radius - 875/65R29	4782 mm (15 ft. 8 in.)
X	Inner Turning Circle Radius - 29.5R25	4866 mm (16 ft.)
Y	Outer Turning Circle Radius - 875/65R29	9320 mm (30 ft. 7 in.)
Y	Outer Turning Circle Radius - 29.5R25	9235 mm (30 ft. 4 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.



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.

