

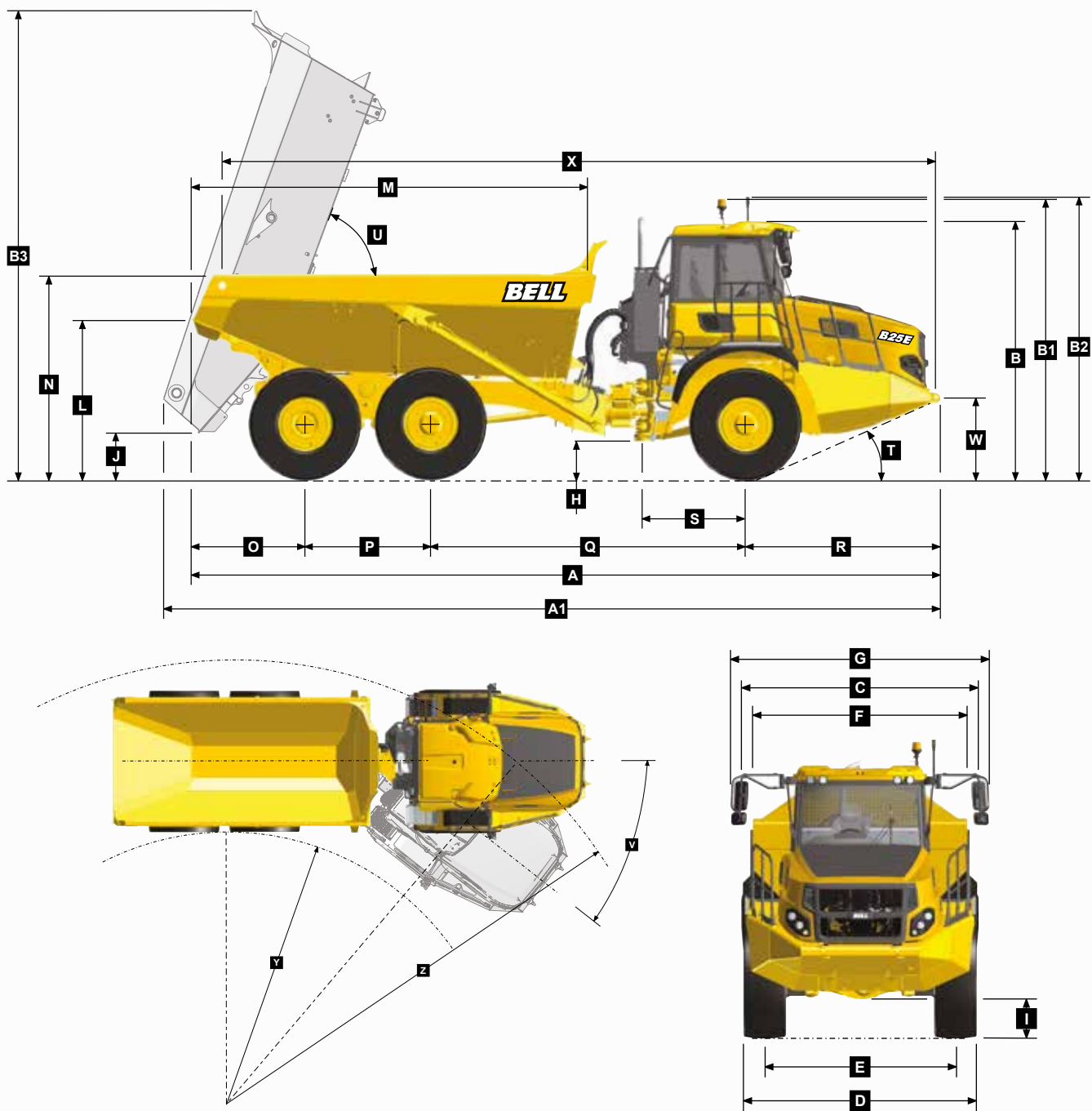
B25E 6x4 Supertruck Articulated Dump Truck

<div>ENGINE</div> <div>Manufacturer Mercedes Benz</div> <div>Model OM926LA</div> <div>Configuration Inline 6, turbocharged and intercooled.</div> <div>Maximum Net Power 205 kW (275 hp) @ 2 200 rpm in accordance with UN ECE R120</div> <div>Gross Torque 1 100 Nm (811 lbft) @ 1 200 -1 600 rpm</div> <div>Displacement 6,37 litres (389 cu.in)</div> <div>Auxiliary Brake Exhaust Valve Brake Engine Valve Brake</div> <div>Fuel Tank Capacity 379 litres (100 US gal)</div> <div>Certification OM906LA meets EU Stage II / EPA Tier 2 emissions regulations</div>	<div>TRANSFER CASE</div> <div>Manufacturer Kessler</div> <div>Series W1400</div> <div>Layout Remote mounted</div> <div>Gear Layout Three in-line helical gears</div> <div>Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.</div> <div>AXLES</div> <div>Manufacturer Bell</div> <div>Model 15T</div> <div>Differential High input limited slip differential with spiral bevel gears</div> <div>Final Drive Outboard heavy duty planetary on all axles</div>	<div>WHEELS</div> <div>Type Radial Earthmover</div> <div>Tyre 20.5 R 25</div> <div>FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</div> <div>REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks</div> <div>HYDRAULIC SYSTEM 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.</div> <div>Pump Type Variable displacement load sensing piston</div> <div>Flow 202 L/min (53 gal/min)</div> <div>Pressure 310 Bar (4 500 psi)</div> <div>Filter 5 microns</div> <div>STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump</div> <div>Lock to lock turns 4,1</div> <div>Steering Angle 45°</div> <div>DUMPING SYSTEM Two double-acting, single stage, dump cylinders</div> <div>Raise Time 12 s</div> <div>Lowering Time 10 s</div>	<div>Tipping Angle 70° standard, or any lower angle programmable</div> <div>PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.</div> <div>System Pressure 8,1 Bar (117 psi)</div> <div>ELECTRICAL SYSTEM</div> <div>Voltage 24 V</div> <div>Battery Type Two AGM (Absorption Glass Mat) type</div> <div>Battery Capacity 2 X 75 Ah</div> <div>Alternator Rating 28 V 80 A</div> <div>VEHICLE SPEEDS</div> <table><tr><td>1st</td><td>9 km/h</td><td>6 mph</td></tr><tr><td>2nd</td><td>18 km/h</td><td>11 mph</td></tr><tr><td>3rd</td><td>27 km/h</td><td>17 mph</td></tr><tr><td>4th</td><td>41 km/h</td><td>25 mph</td></tr><tr><td>5th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>R</td><td>8 km/h</td><td>5 mph</td></tr></table> <div>CAB ROPS/FOPS certified 74 dBA internal sound pressure measured according to ISO 6396.</div>	1st	9 km/h	6 mph	2nd	18 km/h	11 mph	3rd	27 km/h	17 mph	4th	41 km/h	25 mph	5th	50 km/h	31 mph	6th	50 km/h	31 mph	R	8 km/h	5 mph
1st	9 km/h	6 mph																						
2nd	18 km/h	11 mph																						
3rd	27 km/h	17 mph																						
4th	41 km/h	25 mph																						
5th	50 km/h	31 mph																						
6th	50 km/h	31 mph																						
R	8 km/h	5 mph																						
<div>TRANSMISSION</div> <div>Manufacturer Allison</div> <div>Model 3500PR ORS</div> <div>Configuration Fully automatic planetary transmission with integral retarder.</div> <div>Layout Engine mounted</div> <div>Gear layout Constant meshing planetary gears, clutch operated</div> <div>Gears 6 Forward, 1 Reverse</div> <div>Clutch Type Hydraulically operated multi-disc</div> <div>Control Type Electronic</div> <div>Torque Control Hydrodynamic with lock-up in all gears</div>	<div>BRAKING SYSTEM</div> <div>Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers.</div> <div>Maximum brake force: 175,5 kN (39 004 lbf)</div> <div>Park & Emergency Spring applied, air released driveline mounted disc.</div> <div>Maximum brake force: 170 kN (38 217 lbf)</div> <div>Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.</div> <div>Total Retardation Power 250 kW (335 hp) Continuous. 539 kW (723 hp) Maximum.</div>																							

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN		BODY	m³ (yd³)	EXTRA WHEELSET	kg (lb)
Front	9 640 (21 256)	(No sinkage or Total Contact Area)		Struck Capacity	11,5 (15)	20.5 R 25	
Middle	4 190 (9 237)	20.5 R 25	kPa (Psi)	SAE 2:1 Capacity	15 (19,5)	(per vehicle) Add	156 (344)
Rear	3 930 (8 664)	Front	306 (44,4)	SAE 1:1 Capacity	18 (23,5)		
Total	17 760 (39 154)	Middle	359 (52)				
		Rear	359 (52)	Rated Payload	24 000 kg (52 911 lbs)		
LADEN	kg (lb)						
Front	12 370 (27 271)						
Middle	14 760 (32 540)						
Rear	14 630 (32 254)						
Total	41 760 (92 065)						

Dimensions

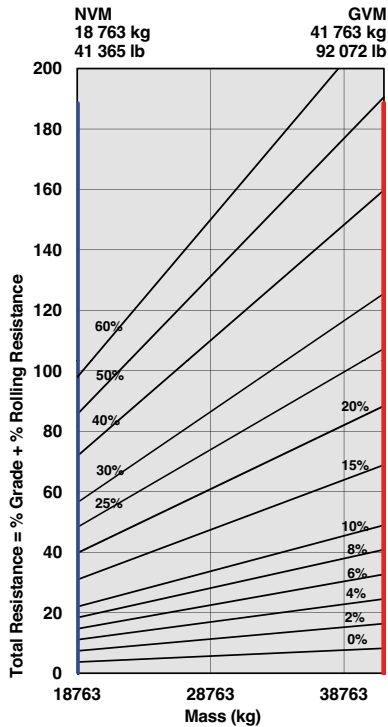
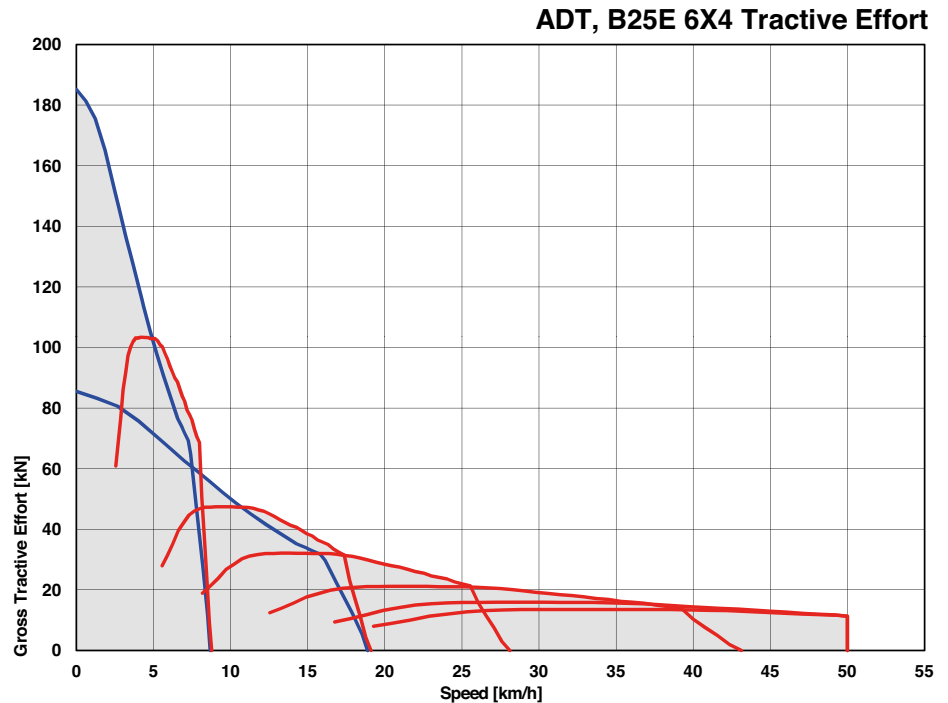


Machine Dimensions

A	Length - Transport Position	9 953 mm (32 ft. 7 in.)	M	Bin Length	5 272 mm (17 ft. 3 in.)
A1	Length - Bin Fully Tipped	10 311 mm (33 ft. 9 in.)	N	Load over Height	2 697 mm (8 ft. 8 in.)
B	Height - Transport Position	3 443 mm (11 ft. 3 in.)	O	Rear Axle Centre to Bin Rear	1 500 mm (4 ft. 11 in.)
B1	Height - Rotating Beacon	3 670 mm (12 ft.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm (5 ft. 5 in.)
B2	Height - Load Light	3 695 mm (12 ft. 1 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm (13 ft. 8 in.)
B3	Bin Height - Fully Tipped	6 198 mm (20 ft. 4 in.)	R	Front Axle Centre to Machine Front	2 602 mm (8 ft. 6 in.)
C	Width over Mudguards	2 985 mm (9 ft. 9 in.)	S	Front Axle Centre to Artic Centre	1 362 mm (4 ft. 5 in.)
D	Width over Tyres - 20.5R25	2 850 mm (9 ft. 4 in.)	T	Approach Angle	24°
E	Tyre Track Width - 20.5R25	2 322 mm (7 ft. 6 in.)	U	Maximum Bin Tip Angle	70°
F	Width over Bin	2 700 mm (8 ft. 9 in.)	V	Maximum Articulation Angle	45°
G	Width over Mirrors - Operating Position	3 260 mm (10 ft. 8 in.)	W	Front Tie Down Height	1 024 mm (3 ft. 4 in.)
H	Ground Clearance - Artic	490 mm (1 ft. 7 in.)	X	Machine Lifting Centres	9 477 mm (31 ft. 1 in.)
I	Ground Clearance - Front Axle	435 mm (1 ft. 5 in.)	Y	Inner Turning Circle Radius - 20.5R25	4 155 mm (13 ft. 7 in.)
J	Ground Clearance - Bin Fully Tipped	615 mm (2 ft.)	Z	Outer Turning Circle Radius - 20.5R25	7 955 mm (26 ft. 1 in.)
L	Bin Lip Height - Transport Position	2 116 mm (6 ft. 11 in.)			

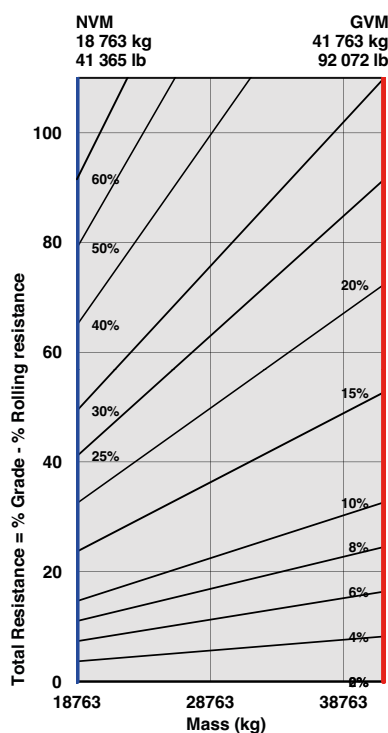
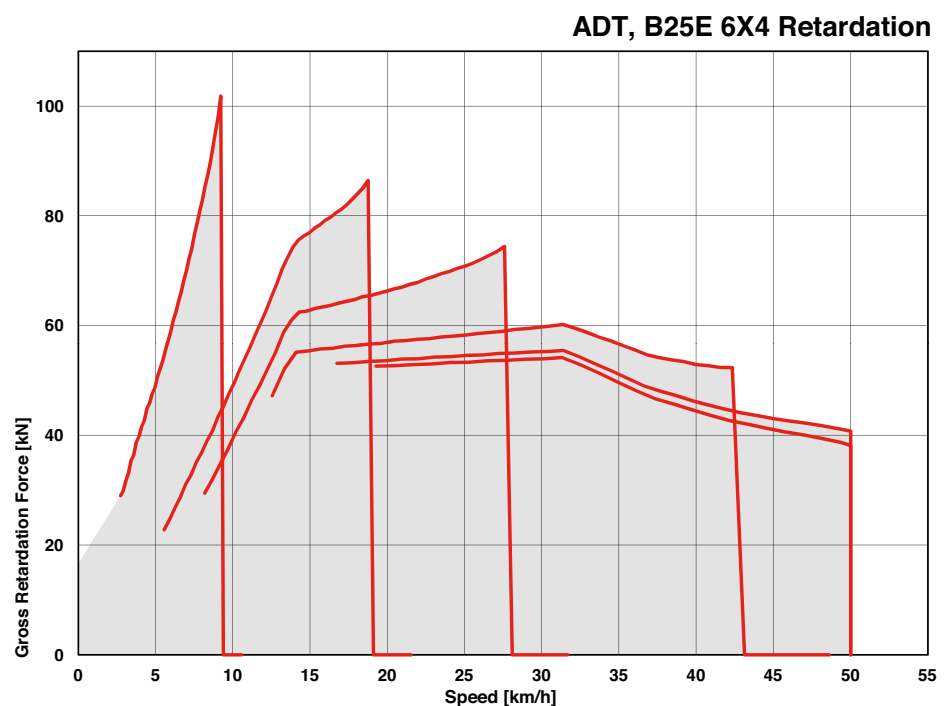
Gradeability/Rimpull

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 right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.



Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight right 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.



B18E	B25E (6x4)	B25E	B30E			B18E	B25E (6x4)	B25E	B30E		
				ENGINE						CAB (continued)	
●	●	●	●	Engine valve brake and exhaust brake		●	▲	▲	▲	High visibility mirrors	
●	●	●	●	Dual element air cleaner with dust ejector valve		●	●	●	●	12-volt power outlet	
●	●	●	●	Precleaner with automatic dust scavenging		▲	▲	▲	▲	Cup holder	
●	●	●	●	Water separator		●	●	●	●	Electric adjustable and heated mirrors	
●	●	●	●	Serpentine drive belt with automatic tensioner		●	●	●	●	Cooled/heated lunch box	
				COOLING						Backlit sealed switch module functions with:	
●	●	●	●	Crankshaft mounted electronically controlled viscous fan drive						Wiper control / Lights / Heated mirrors /	
●	●	●	●	Fan guard						Retarding aggressiveness / Transfer case	
				PNEUMATIC SYSTEM						differential lock / Transmission gear hold /	
●	●	●	●	Engine-mounted compressor		●	●	●	●	Dump-body tip limit / Automatic dump-	
●	●	●	●	Air drier with heater						body tip settings / Airconditioner/Heater	
●	●	●	●	Integral unloader valve						controls / Preselected Speed Control	
				ELECTRICAL SYSTEM						Deluxe 10" colour LCD:	
●	●	●	●	Battery disconnect						Speedometer / Fuel gauge /	
●	●	●	●	Drive lights						Transmission oil temperature gauge /	
●	●	●	●	Air horn						Engine coolant temperature gauge /	
●	●	●	●	Reverse alarm						LED function/warning indicators and	
▲	▲	▲	▲	White noise reverse alarm						audible alarm / Transmission gear selection /	
●	●	●	●	Rotating beacon						Tachometer / Battery voltage / Hour meter /	
●	●	●	●	Pitch Roll sensor						Odometer / Fuel consumption / Tip counter /	
▲	▲	▲	▲	LED Artic reverse light						Trip timer / Trip distance / Metric/English units /	
▲	▲	▲	▲	Halogen Artic reverse light						Service codes/diagnostics	
●	●	●	●	LED reverse light							
				STEERING SYSTEM						DUMP BODY	
▲	▲	▲	▲	Bi-directional ground driven secondary steering pump		●	●	●	●	Partial up dump-body mechanical	
●	●	●	●	Ground-driven secondary steering pump		▲	▲	●	●	Fully up dump-body mechanical lock	
				CAB		▲	▲	▲	▲	Body liner	
●	●	●	●	ROPS/FOPS certification		▲		▲	▲	Tailgate	
●	●	●	●	Tilt cab				▲	▲	Body heater	
●	●	●	●	Gas strut-supported door				▲	▲	Less dump body and cylinders	
●	●	●	●	I-Tip programmable dump-body tip settings		▲	▲	▲	▲	Greedy boards (200 mm)	
●	●	●	●	HVAC Climate control system				▲	▲	Triangular bin caps	
●	●	●	●	AM/FM radio with Aux + USB							
●	●	●	●	Rear window guard							
●	●	●	●	Wiper/washer with intermittent control							
▲	▲	▲	▲	Extra wide wiper system							
●	●	●	●	Tilt and telescoping steering wheel							
●	●	●	●	Centre-mount air-suspension seat							
●	●	●	●	Retractable 3-point seat belt							
●	●	●	●	Foldaway trainer seat with retractable seat belt							
▲	▲	▲	▲	Rotating beacon: seat belt installation							
●	●	●	●	Halogen work lights							
▲	▲	▲	▲	LED work lights							
▲	▲	▲	▲	Remote engine and machine isolation							
●	●	●	●	Remote battery jump start							
										OTHER	
						●	●	●	●	Automatic Traction Control (ATC)	
						●	●			20.5R25 Radial earthmover tyres	
								●	●	23.5R25 Radial earthmover tyres	
								▲	▲	750/65R25 Radial earthmover tyres	
						●	●	●	●	Remote grease banks	
						▲	▲	▲	▲	Automatic greasing	
						●	●	●	●	Onboard weighing	
						▲	▲	▲	▲	Load lights: stack	
								▲	▲	Comfort ride suspension (Front)	
								▲	▲	Comfort ride suspension (Rear)	
						▲	▲	▲	▲	Reverse camera	
								▲	▲	HSE hand rails	
						●	●	●	●	Cab peak	
						▲	▲	▲	▲	High pressure hydraulic filter	
						▲	▲	▲	▲	Fuel heater	
						●	●	●	●	Belly cover	
								▲	▲	Cross member cover	
						▲	▲	▲	▲	Remote transmission filters	
						▲	▲	▲	▲	Window smash button	
						●	●	●	●	Electronic bonnet opening	
						▲	▲	▲	▲	Engine oil quick drain connector	

*PDS Hardware option