Articulated Dumper Truck

·ADT3D

ADT 30 E

Automatic transmission 6x6 Drive

- ENGINE Cummins M11
- POWER280 bhp 209kW
- GVW 47.2 t (52 sh tn)
- Payload27 t (29.8 sh tn)
- Volume (SAE 2:1)
 16,5 m³



Courtesy of Machine.Market



Cylinders

• bore • stroke

• displacement

Compression ratio

Power rating Torque max Air filter Cold

starting device

ENGINE

Cummins M11: diesel direct injected turbocharged 4-cycle engine 6 in-line, with replaceable linings

125 mm 4.92 in 147 mm 5.79 in 10,8 1 661 in³

209 kW at 2100 rpm 280 bhp 1288 Nm at 1300 rpm 950 lbf ft dry type air cleaner

optional



Control Cylinders Pump Max. operatine

pressure **Emergency** Steering angle Turning radius Steering column

STEERING SYSTEM

Hydraulically operated steering, acting on articulated joint between frames

Orbitrol plus hydraulic amplifier 2 double acting hydraulic cylinders gear type (see hydraulic system)

185 bar 2683 PSI electrical pump, standard fitted 45° both direction see specific table adjustable



AUTOMATIC TRANSMISSION

ZF 6WG210 full power-shift gearbox with 8 forward and 6 reverse speeds

Gears/Speed	Speed forward		reverse		
Ratios F - R		km/h	mph	km/h	mph
5.56 - 5.27	1	5,0	3.1	5,3	3.3
3.62 - 2.14	2	7,7	4.8	13,0	2.1
2.26 - 0.89	3	12,3	7.6	31,1	19.3
1.47	4	18,9	11.7		
0.94	5	29,5	12.3		
0.61	6	45,3	28.2		

ingle stage torque converter with lock-up in all gears Built-in drop box with dog-clutch differential lock between front and rear drives. Max. gradeability: >40%



Service front

• rear

Parking

Pump Max. operatine pressure Engine brake

BRAKE SYSTEM

Dual circuit, full hydraulic system, operated by pressure accumulators

single caliper dry disc brakes single caliper dry disc brakes spring applied twin caliper disc acting on

rear propeller shaft

gear type

1813 PSI 125 bar Jakob type exhaust brake



Rear

SUSPENSION

Semi-independent systems front and rear, very sensitive to the ground

double air-over-hydraulic cylinders double beam linked by elastic pin to a

torque reacting structure



Front axle

Rear axles

Reductions

- differential
- hub
- total ratio

Axles - 6x6 Drive

ZF axles, rigid-type, with planetary gear-type hub reduction driven, with limited slip differential

driven, with limited slip differentials and lockable interaxle differential

standard	optional
3.44	no option
6.35	
21.85	



Alternator Starter motor **ELECTRICAL SYSTEM**

Voltage 24 V 28 Ah Battery 2 x 12 V 70 A 28 V 7,6 kW 10.2 Bhp



Rims

Tyres

WHEELS & TYRES

5-piece rims on all 6 wheels

standard	Optional
19.5-25	24.00-30
23.5 R 25**	30/65 R 25**



HYDRAULIC SYSTEM

Hydraulic pump, engine dependent, for steering, braking, tipping

Pump gear type

Capacity 245 L/min 64.7 US gal/min

Max. operating

170 bar 2466 PSI pressure Emergency electrical pump for steering



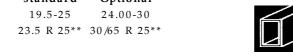
Steel

Profile

Frame & Chassis

Front and rear frames are linked by heavy duty articulation pin joint and taper roller bearing ring

high tensile steel Hardox 400 box section and plates





Hardened and tempered wear resi-stant steel plates, reinforced by high tensile pressed steel Hardox 400

Tipping Ejector

2 double-acting multistage cylinders headboard is actuated by a multi-stage double-acting large cylinder

Load ejecting time	18 "	1
Headboard		
retracting time	15"	
Volume	m ³	yd³
 struck SAE 	13,0	17.0
• heaped SAE 2:1	16,5	21.5
Thickness	m m	in.
• sides	12	0.50
• front	12	0.50
none	1 2	0.00

Rear gate hydralically controlled



Instruments & Gauges

Digital display and relative lights for: air cleaner obstruction, battery

charge, headlight highbeam, turn signal, service brake pressure, parking brake, longitudinal differential engaged, torque converter lockup, fuel level, engine coolant temperature, engine oil level, engine oil temperature, transmission pressure, transmission temperature, hour meter, speed (MPH or Km/h) engine speed (RPM), clock.

Controls and indicators for: engaged gear, wiper washer, wiper speed (2 speed)), heater vent (+ airco), cigarette lighter, all wheel drive selector, lights/horn, hazard warning, flashing bacon, fwork lamps front and rear, fog light, auto gear-shifting engagement



Air intake

CAB

Steel constructed to current ROPS & FOPS

Standards, centrally located mounted on rubber pads pressurized and filtered air

tinted glass

Climate automatic air conditioning

tinted glass

Driver seat mechanically sprung Engine bonnet forward tilting and sloped Rear-view mirrors including wide-angle



STANDARD EQUIPMENT

Equipment and accessories follow Markets requirements and Laws.

Ergo standards and optionals are stated by local price lists.



OPTIONALS

See notice in Standard



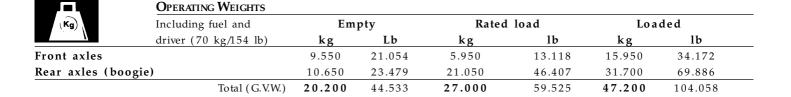
For fluids specification, please look at Operating & Servicing Manual

liters	US Gals
34	9.0
43	11.4
325	85.9
23	6.0
13	3.4
17	4.5
13	3.4
4,4x6	1.2x6
350	92.5
	34 43 325 23 13 17 13 4,4x6



Air conditioning 12 V converter Close circuit TV Radio cassette player Ejecting indicator Retarder

Michelin tyres Tyres 30/65 R 25





Articulated Dumper Truck ADT 30E

 \mathbf{T}

J

R

E

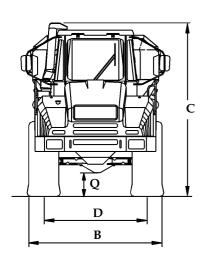
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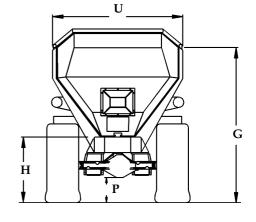
Α

M



SAE Turning radius (J695B)

X Z



	mm	ft in.
A	9.756	32'2"
В	2.716	8'11"
С	3.700	12'2"
D	2.106	6'11"
Е	964	
F	3.380	
G	3.000	9'10"

	m m	ft in.
Н	1.264	4'2"
I	2.277	7′5½″
J	27°	27°
K	2.286	7′6″
L	1.333	4′5″
M	3.275	10'9"
N	1.700	5′7″

mm 4.688

8.500

ft in.

15'5"

27'11"

	m m	ft in.
О	1.162	3′10″
P	484	1′07″
Q	484	1′17″
R	510	1′8″
S	610	2′
T	3.670	11'10"
U	2.500	8'2"