Articulated Dumper Truck

·ADT30

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



ENGLISH



Cylinders

- bore
- stroke
- displacement

Compression ratio

Power rating Torque max Air filter Cold

starting device

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

125 mm 4.92 in 5.79 in 147 mm 10.8 l 661 in^3

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		forw	forward		reverse	
Ratios F - R		km/h	mph	km/h	mph	
5.56 - 5.27	1	5,0	$\bar{3.1}$	5,3	$\overline{3.3}$	
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**



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

125 bar 1813 PSI 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 Battery 2 x 12 V 28 Ah 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	$2\overline{4}.00-30$
23.5 R 25**	30/65 R 25**



Capacity

Hydraulic System

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

Pump gear type

245 L/min 64.7 US gal/min

Max. operating pressure

170 bar 2466 PSI **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



Body

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	"
Headboard		
retracting time	15	"
Volume	$\mathbf{m^3}$	yd ³
 struck SAE 	13,0	Ĭ7.0
 heaped SAE 2:1 	16,5	21.5
Thickness	mm	in.
• sides	12	0.50
• front	12	0.50

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



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 forward tilting and sloped including wide-angle



STANDARD EQUIPMENT

Equipment and accessories follow Markets requirements and Laws.

Ergo standards and optionals are stated by local price lists.



OPTIONALS

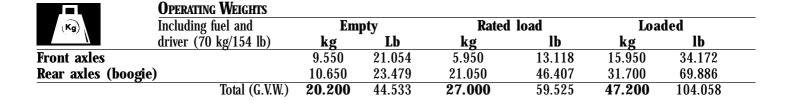
See notice in Standard



For fluids specification, please look at Operating & Servicing Manual

		U	U
		liters	US Gals
Crankc	ase	34	9.0
Cooling	system	43	11.4
Fuel ta	nk	325	85.9
Transm	ission	23	6.0
Axles	front	13	3.4
	center	17	4.5
	• rear	13	3.4
Hubs		4,4x6	1.2x6
Hydrau	lics	350	92.5







Articulated Dumper Truck ADT 30E

T

J

K

L

R

M

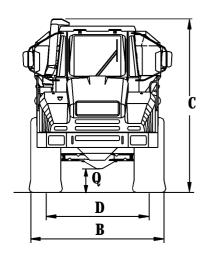
A

E

0 S

U

N



SAE Turning radius (J695B)

	mm	ft in.
X	4.688	15'5"
Z	8.500	27'11"

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

	mm	ft in.
H	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	ft in.
0	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"