## Articulated Dumper Truck

·ADT3D

# **ADT 30**

Automatic transmission 6x6 Drive

- ENGINE Cummins M11
- POWER280 bhp 209kW
- GVW 45.95 t (50.7 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

#### ENGINE

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  $661 \text{ in}^3$ 

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 40° both direction see specific table adjustable



### AUTOMATIC TRANSMISSION

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

Gears/Speed		forw	ard	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%



 front Service

**Parking** 

Gear type pump (see hydraulics) **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 relief valve pressure 125 bar 1813 PSI Jakob type exhaust brake



Front 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



## 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

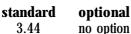
driven, with limited slip differentials and lockable interaxle differential

<b>[</b> _	+

**Alternator** Starter motor

#### ELECTRICAL SYSTEM

**Voltage** 24 V **Battery** 2 x 12 V 88 Ah 28 V 70 A 7.6 kW 10.2 Bhp



6.35 21.85



Capacity Gear type pump

#### Hydraulic System

Hydraulic pump, engine dependent, for steering, braking, tipping 245 l/min 64.7 US gal/min

max. working pressure 2466 PSI 170 bar

**Emergency electrical pump for steering** 



Rims **Tyres** 

#### WHEELS & Tyres

5-piece rims on all 6 wheels

Proce rame on the comments		
standard	Optional	
19.5-25	$2\bar{4}.00-30$	
23 5 R 25**	30/65 R 25**	



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

cylinders

Tipping	2 double-acting multistage		
Tipping angle	70°	Ü	
Tipping time	Up 10"	Down 8	
Volume	m³	yd³	
<ul> <li>struck SAE</li> </ul>	13,0	<b>17.0</b>	
• heaped SAE 2:1	16,5	21.5	
Thickness	mm	in.	
<ul> <li>floor and scow</li> </ul>	12	0.50	
• sides	8	0.31	
<ul><li>front</li></ul>	10	0.39	



#### **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, front work lamps 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

**Engine bonnet Driver seat Engine bonnet** 

**Rear-view mirrors** 

forward tilting and sloped 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



#### SERVICE REFILL CAPACITIES

For fluids specification, please look at Operating & Servicing Manual

		liters	<b>US Gals</b>
Crankcase		34	9.0
Cooling sy	stem	43	11.4
Fuel tank		325	86.0
Transmissi	on	19	5.0
Axles •	front	11	2.9
•	center	14	6.3
	rear	11	2.9
Hubs		2,5x6	0.66x6
Hydraulics		200	52.8

Air conditioning 12 V converter Close circuit TV Cold starting device Radio cassette player **Body extension** Body heating kit **Body liners Dump** indicator

Rear gate hydraulically controlled

Retarder Michelin tyres Tyres 30/65 R 25



#### **OPERATING WEIGHTS**

	OTEMATING VILIGITIES							
(Kg)	Including fuel and	Em	pty	Rated	load	Load	ded	
· / [	driver (70 kg/154 lb)	kg	Lb	kg	lb	kg	lb	
ssale anterior	e	9.120	20.106	$6.8\bar{3}0$	15.058	15.950	35.164	
ssale posterio	re (boogie)	9.830	21.671	20.170	44.467	30.000	66.139	
	Total (G.V.W.)	18.950	41.777	27.000	59.525	45.950	101.303	



# Articulated Dumper Truck ADT 30

**70°** 

T

E

J

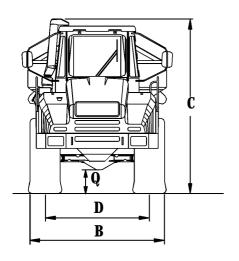
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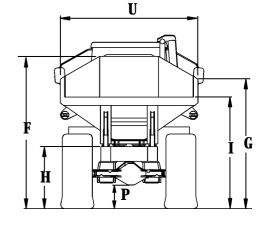
S

A

M



SAE Turning radius (J695B)



	mm	ft in.
X	4.832	15'10"
Z	8.500	27'11"

	mm	ft in.
A	9.493	31'2"
В	2.800	9'3"
C	3.460	11'4"
D	2.200	7'3"
E	975	3'3"
F	3.104	10'3"
G	2.648	8'9"

	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	2.900	9'7"
N	1.700	5'7"

	mm	ft in.
0	1.274	4'3"
P	484	1'7"
Q	484	1'7"
R	510	1'8"
S	338	1'2"
T	6.000	19'9"
U	2.800	9'3"