# Articulated Dumper Truck

·ADT30

# **ADT 25**

**Automatic transmission 6x6** 

- ENGINE Cummins CTA 8.3
- POWER260 bhp 194kW
- GVW 40 t (44 sh tn)
- Payload22.95 t (25.3 sh tn)
- Volume (SAE 2:1)
   13,0 m³



ENGLISH



#### **Cylinders**

- bore
- stroke
- displacement

**Compression ratio** 

**Power rating** Torque max Air filter Cold

starting device

Cummins 6 CTA 8.3: diesel direct injected turbocharged 4-cycle engine 6 in-line, with replaceable linings

114 mm 4.49 in 135 mm 5.30 in 8.30 1  $506 \text{ in}^3$ 

194 kW at 2200 rpm 260 bhp 1123 Nm at 1300 rpm 828 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

DF250 full power-shift gearbox with 8 forward and 3 reverse speeds

Gears/Speed		forw	ard	reverse	
Ratios F - R		km/h	mph	km/h	mph
6.01 - 5.63	1	4,8	$\bar{3.0}$	5,2	$\bar{3.2}$
4.28 - 3.00	2	6,8	4.2	11,9	7.4
3.07 - 1.23	3	9,5	5.9	23,6	14.7
2.19	4	13,3	8.3		
1.51	5	19,3	12.0		
1.08	6	26,9	16.7		
0.77	7	37,8	23.5		
0.55	8	52,7	32.7		

Single 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

rear

**Parking** 

Max. operatine pressure **Engine brake** 



Dual circuit, full hydraulic system, operated by pressure accumulators single caliper dry disc brakes single caliper dry disc brakes wet type, multi-plate, maintenance free brake, transmission built-in

125 bar 1813 PSI Jakob type exhaust brake.



Rear

## Suspension

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

u lockabic ili	u lockabic iliteraxie ulliert				
standard	optional				
3.44	no option				
6.35	•				
21.85					



Alternator Starter motor

#### **ELECTRICAL SYSTEM**

**Voltage** 100 Ah **Battery** 2 x 12 V 28 V 70 A 7,6 kW 10.2 Bhp



5-piece rims on all 6 wheels

WHEELS & Tyres

standard	<b>Optional</b>		
19.5-25	$1\bar{7}.00-25$		
23.5 R 25**	20.5 R 25**		



**Pump** Capacity Max. operating

pressure

#### Hydraulic System

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

211 l/min 55.7 US gal/min

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



### Rims **Tyres**



# Tipping Tipping angle Tipping time Volume

Tipping time
Volume
• struck SAE
• heaped SAE 2:1
Thickness
• floor and scow
• sides
• front

#### BODY

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

2 double-acting multistage cylinders

oubic-acuing munusuage v			
70°			
Up 15"	Down 16		
m <sup>3</sup>	yd³		
11,0	14.4		
13,0	17.0		
mm	in.		
12	0.50		
8	0.31		
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, work lamps front and rear, fog light, auto gear-shifting engagement



Air intake

**Driver** seat

**Engine bonnet** 

**Engine bonnet** 

**Rear-view mirrors** 

## CAB

Steel constructed to current ROPS & FOPS Standards, centrally located mounted on rubber pads pressurized and filtered air

tinted glass

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.



**SERVICE REFILL CAPACITIES**For fluids specification, please look at Operating & Servicing Manual

		-	•
		liters	<b>US Gals</b>
Crankc	ase	34	9.0
Cooling	system	37	9.8
Fuel ta	nk	325	85.9
Transm	ission	23	6.0
Axles	<ul><li>front</li></ul>	11	2.9
	<ul><li>center</li></ul>	14	3.7
	• rear	11	2.9
Hubs		2,5x6	0.66x6
Hydrau	lics	200	52.8



#### **OPTIONALS**

See notice in Standard

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
Rotating beacon on cab top
Michelin tyres
Tyres 20.5 R 25

	OPERATING WEIGHTS						
(Kg)	Including fuel and	Em	pty	Rated	load	Load	led
<u> </u>	driver (70 kg/154 lb)	kg	Lb	kg	lb	kg	lb
Front axle	Ţ ,	8.450	18.629	7.450	16.424	15.900	35.053
Rear axle (boog	ie)	8.600	18.960	15.500	34.172	24.100	53.132
	Total (GVW)	17.050	37.589	22.950	50.596	40.000	88.185



# Articulated Dumper Truck ADT 25

**70°** 

T

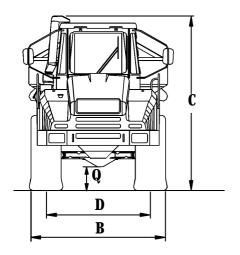
E

J

K L R

M

S



SAE Turning radius (J695B)

F		T G
H	P	

U

	mm	ft in.
X	5.025	16'6"
Z	8.500	27'11"

	mm	ft in.
A	9.503	30'7"
В	2.673	8'10"
C	3.410	11'3"
D	1.973	6'5"
E	890	2'10"
F	3.130	10'3"
G	2.698	8'11"

	mm	ft in.
Н	1.264	4'2"
I	2.258	7'5"
J	27°	27°
K	2.286	7'5"
L	1.333	4'5"
M	2.900	9'7"
N	1.700	5'7"

	mm	ft in.
0	1.284	4'4"
P	510	1'8"
Q	510	1'8"
R	540	1'9"
S	316	1'1"
T	6.190	20'2"
U	2.500	8'2"