

# HA30A HA45A

ARTICULATED DUMP TRUCK



## SPECIFICATION

**Net Weight**  
23200 to 30100kg

**Max Power**  
276 kW (375 HP) to 368 kW (500 HP)

**Body Volume**  
17.8 to 26.0 m<sup>3</sup>

**Max Payload**  
28000 to 41000 kg

## HA30A / HA45A

## SPECIFICATIONS

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<b>ENGINE</b>		
Maker / Model	Scania DC 9	Scania DC 13
Type	Water-cooled, diesel engine with turbo charger and air-to-air intercooler	
Aftertreatment System	VGT / DOC / DPF / SCR	
Power Rating ISO 3046 / ISO 14396 @ 2100 rpm	276 kW (375 HP) / 270 kW (362 HP)	368 kW (500 HP) / 360 kW (483 HP)
No. of Cylinders	5 (in line)	6 (in line)
Gross Torque	1876 Nm @ 1,400 rpm	2476 Nm @ 1,400 rpm
Displacement	9.3 litres	12.7 litres
Bore Diameter × Stroke	130 × 140 mm	130 × 160 mm
Air Filter	2-stage (main + safety), dry type	
Emissions	Complies with Stage V of emission regulation (EU) 2016/1628	
<b>ELECTRICAL SYSTEM</b>		
Voltage	24 V	
Battery	2 x 12 V	
Battery Capacity	2 x 105 Ah	
Starter Motor	6 kW	
Alternator	24 V / 100 A	
<b>DRIVETRAIN</b>		
Torque Converter	Lock up function in all gears	
Transmission	Electronically-controlled automatic transmission with retarder, Full-time 6 × 6 drive with two transverse differentials and one longitudinal Inter-axle longitudinal, Torque-proportioning differential, integrated into the ZF transmission	
Front Axle Transverse Differential	Limited-slip diff lock with 45% locking ratio mounted directly at transmission	
Rear Axle Transverse Differential	Limited-slip diff lock with 45% locking ratio	
Torque Distribution (100% Lockable)	1/3 to the front axle, 2/3 to the rear axle	

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<b>TRANSMISSION</b>		
Maker / Model	ZF 8 EP320	ZF 8 EP420
Travel Speed - Forward		
1st	6 km/h	5 km/h
2nd	8 km/h	8 km/h
3rd	11 km/h	11 km/h
4th	16 km/h	16 km/h
5th	23 km/h	23 km/h
6th	32 km/h	32 km/h
7th	45 km/h	45 km/h
8th	55 km/h	55 km/h
Travel Speed - Reverse		
1st	6 km/h	5 km/h
2nd	8 km/h	8 km/h
3rd	11 km/h	11 km/h
4th	16 km/h	16 km/h
Front Hubs	Kessler	
Rear Axle + Hubs	Kessler	
Rear Tandem	Hyundai (in house)	
<b>BRAKES</b>		
Service Brakes	Dual circuit braking system acting on all six wheels, all hydraulic-operated brakes with enclosed oil-cooled wet multiple discs on four hubs (braking force distributed to two hubs by tandem gear wheels).	
Parking Brake	Spring actuated mounted on driveline shaft	
Max. Gradient, Parking Brake	15°	
Retarder	Automatic transmission retarder standard	
Brake System	Complies with ISO3450	
<b>STEERING SYSTEM</b>		
Cylinder	Two double-acting	
Standard	The steering is approved according to ISO 5010	
Max. Steering Angle	45°	
Emergency Steering	Ground-driven emergency steering pump	
<b>CABIN</b>		
ROPS / FOPS cabin meet ISO 3471 and ISO 3449		
Hand and arm vibrations are less than 2.5 ms <sup>2</sup> (ISO 5349-2)		
Whole body vibration is less than 0.5 ms <sup>2</sup> (ISO 2631-1)		
<b>AIR CONDITIONING SYSTEM</b>		
The air conditioning system contains Fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg of refrigerant representing a CO <sub>2</sub> equivalent of 2.86 metric tonnes.		

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<b>HYDRAULIC SYSTEM</b>			
Type	1 variable displacement piston pump for steering, tipping, cooling fan, brakes & auxiliaries		
Maximum Pump Output	305 l/min @ 2,100 rpm		
Filtration	return flow filter		
Main Safety Valve Pressure Tipping	280 bar		
Main Safety Valve Pressure Steering Circuit	210 bar		
Tilt Cylinders	Single stage, double-acting		
Tipping Time Raise	12 secs	10 secs	
Tipping Time Lower	10 secs	10 secs	
<b>BODY</b>			
Body Volume (Without Tailgate)	16.8 m <sup>3</sup>	24.4 m <sup>3</sup>	
Material	Hardened abrasion-resistant steel plates (400 HB)		
Body Tipping Angle	70°		
Level Capacity (with / without tailgate)	14.2 m <sup>3</sup> / 13.6 m <sup>3</sup>	20.4 m <sup>3</sup> / 19.6 m <sup>3</sup>	
Heaped capacity (with / without tailgate)	17.8 m <sup>3</sup> / 16.8 m <sup>3</sup>	26.0 m <sup>3</sup> / 24.4 m <sup>3</sup>	
<b>TYRES</b>			
Standard	23.5R25 **	29.5R25 **	
Optional	750/65R25	875/75R29	
<b>WEIGHTS</b>			
Empty	Front Axle	12700 kg	14200 kg
	Rear Axle	10500 kg	15900 kg
Net Weight	23200 kg	30100 kg	
Max. Admissible Axle Load	Front Axle	15900 kg	22100 kg
	Rear Axle	35300 kg	49000 kg
Max. Admissible Total Weight	51200 kg	71100 kg	
Payload	28 metric ton / 31 short ton	41 metric ton / 45 short ton	
<b>POWER TO WEIGHT RATIO</b>			
Empty	11.9 kW/t	12.2 kW/t	
Loaded	5.4 kW/t	5.2 kW/t	
<b>SERVICE REFILL CAPACITIES</b>			
Engine oil	35 l	45 l	
Fuel tank	360 l	500 l	
Def/Adblue®	70 l	70 l	
Engine coolant	45 l	50 l	
Transmission	68 l	69 l	
Hub front (2x)	11 l	9,6 l	
Front differential	9,4 l	9,4 l	
Tandem housing, rear differential and hubs	145 l	228 l	
Brake cooling tank	15 l	15 l	
Hydraulic system	75 l	85 l	
Hydraulic tank	63 l	63 l	
Windscreen washer tank	4,5 l	4,5 l	

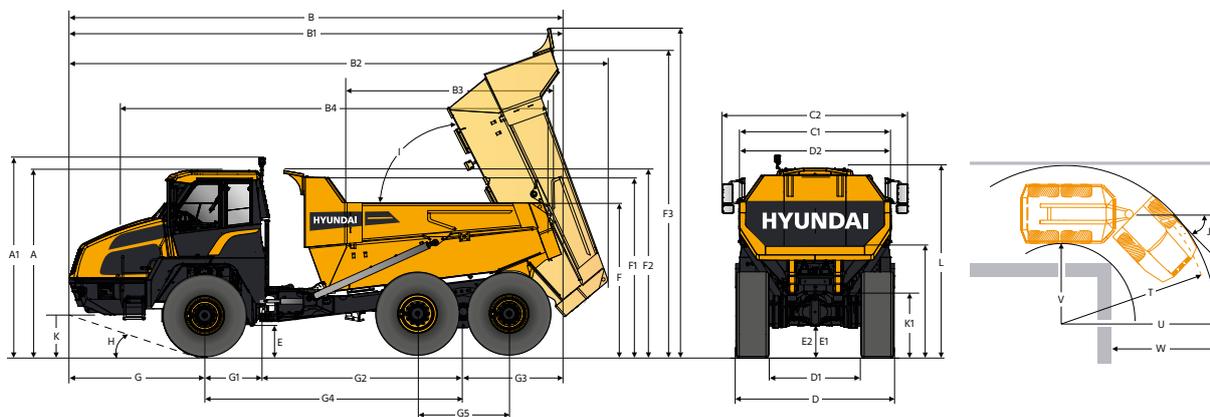
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<b>GROUND PRESSURE</b>			
Tyres	Standard tyres with 15% sinkage		
Unloaded	Front Axle	122 kPa	94 kPa
	Rear Axle	52 kPa	52 kPa
Loaded	Front Axle	162 kPa	139 kPa
	Rear Axle	170 kPa	161 kPa
<b>ARTICULATION HINGE AND CHASSIS</b>			
Articulation hinge	Articulation hinge with forward-mounted large dimensioned turning ring		
Chassis	Heavy duty design, box type welded frames; 7° sloping rear frame design		
<b>SUSPENSION</b>			
Front	Semi-independent, self-levelling hydro-gas suspension, manually adjustable		
Rear	Free-swinging tandem housing		
<b>NOISE</b>			
Guaranteed noise level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in the improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open.			
With cooling fan speed at maximum value:			
Operator Sound Pressure Level (ISO 6396:2008)		72 dB(A)	
Exterior Sound Power Level (ISO 6395:2008)		108 dB(A)	

\*Distance of 15 m, moving forward in second gear ratio

# DIMENSIONS

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All dimensions are approximate.



Description	HA30A	HA45A
A Transport position / cab height	3604	3850
A1 Rotating beacon	3836	4050
B Overall w/o tailgate	9515	10633
B1 Overall with tailgate	9555	10673
B2 Overall body tipped	10405	11405
B3 Overloading height	3800	4360
C Over outside front tyre 23.5R25 / 29.5R25	3000	3475
C* Over outside front tyre 750/65R25 / 875/75R25	3208	3630
C1 Over mudguard	2860	3400
C2 Over mirror operating position	3499	3990
D Over outside rear tyres 23.5R25 / 29.5R25	3000	3475
D* Over outside rear tyres 750/65R25 / 875/75R25	3208	3630
D1 Between inner tyres	1740	1900
D2 Over body	2895	3395
E Ground clearance art. hinge	568	643
E1 Ground clearance front axle	529	625
E2 Ground clearance rear axle	540	691
E3 Ground clearance body fully tipped	619	763
F Overloading	2946	3355
F1 Body w/o rock guard	3436	3865
F2 Body with rock guard	3572	4001
F3 Body fully tipped w/o rock guard	5820	6755
F4 Body fully tipped with rock guard	6240	7170
F5 Body tip	2100	2390
G Front axle centre to machine front	2605	2818
G1 Front axle centre to art. hinge	1200	1275
G2 Art. hinge to rear axle centre	3800	4150
G3 Rear axle centre to body tip	1910	2390
G4 Front axle centre to rear axle centre	5000	5425
G5 Wheelbase rear axle	1771	1960
H Approach angle front	22.5°	26.7°
I Max. body tip angle		70°
J Max. steering angle		45°
K Front tie down height	874	1063
K1 Rear tie down height	1180	1300
L Load height (SAE 2 : 1)	3600	4100
V Inner turning radius	3995	4215
U Outer turning radius	8100	8920
T Outer wheel turning radius	8065	8880
W Corridor width	5280	5940

# STANDARD/OPTIONAL EQUIPMENT

	HA30A	HA45A
<b>ENGINE</b>		
Exhaust brake (in combination with hydraulic retarder)	●	●
Centrifugal air-precleaner	○	○
Electrical engine heater 220V	○	○
Fast fill refuelling system	○	○
Electric diesel refuelling pump	○	○
<b>ELECTRICAL SYSTEM</b>		
Head, position, turn, brake and rear lights	●	●
Hazard lights	●	●
Headlights LED	○	○
Work light kit (rear and front)	○	○
Work light kit (rear and front) LED	○	○
License plate light	○	○
Horn	●	●
Windshield wiper with interval + washer	●	●
Cigarette lighter	●	●
12V and USB charging point	●	●
Radio/MP3 and Bluetooth	●	●
CB radio preparation kit	○	○
Electrically adjustable & heated mirrors	○	○
Master switch	●	●
<b>MAIN DISPLAY</b>		
Fuel & DEF level	●	●
Engine coolant & transmission oil temperature	●	●
Speedometer & tachometer	●	●
Vehicle angle	●	●
Transmission status	●	●
Payload meter	●	●
Time & outside temperature	●	●
<b>CENTRAL INDICATION AND WARNING LAMPS</b>		
Indicator lamps grouped for all vital functions	●	●
Warnings integrated	●	●
<b>ELECTRONIC SYSTEM</b>		
Tip lever with button to increase engine rpm	●	●
Gradient meter with anti-flip-over protection system	●	●
Body height limitation	●	●
Payload meter & cycle counter	●	●
Overload protection system with external light bar	-	●
Auto engine shut off function	●	●
Speed limitation	○	○
<b>DRIVELINE</b>		
Full automatic transmission	●	●
Torque converter with automatic lock up clutch	●	●
Transmission retarder brake	●	●
Two circuit, wet disc brake acting on all 6 wheels	●	●
Brake cooling system	●	●
<b>TYRE OPTIONS</b>		
Earthmoving E3	●	●
Quarry E4	○	○
Wide bead (low ground pressure) tyres	○	○
Tyre pressure monitoring system (may not be available with all tyres)	○	○
Spare wheel	○	○

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<b>CABIN INTERIOR</b>		
Air suspended & heated operator seat SEARS	●	●
Armrest at operator seat	●	●
Headrest at operator seat	●	●
Safety belt with alarm	●	●
High-comfort seat (vertical and longitudinal suspension) GRAMMER	○	○
Instructor seat with safety belt	●	●
Interior light	●	●
Adjustable steering column	●	●
Electronic climate control	●	●
2-stage cabin fresh air filtration	●	●
HEPA cabin filter	○	○
Webasto heating system (heat up the cooling system)	○	○
Retractable roller sunblind	●	●
Tinted safety glass	●	●
Sliding window (left & right side)	●	●
Mirrors	●	●
Protection for rear window	●	●
Storage room	●	●
<b>SAFETY</b>		
Emergency steering, ground-driven	●	●
Rear-view camera	●	●
Hammer & belt cutter for emergency escape	●	●
Hand rails on the fenders	●	●
Anti-slip steps & platform	●	●
Emergency shutdown switch	●	●
Wheel chock	●	●
Fire extinguisher	○	○
First aid kit	○	○
Beacon lamp fix or foldable LED	○	○
Light bar LED	○	○
Seat belt green warning light	○	○
Blue or orange flashing reverse light	○	○
Back up alarm	●	●
White noise back up alarm	○	○
<b>BODY</b>		
Body prepared for exhaust heating	●	●
Body exhaust heating kit	○	○
Tailgate kit	○	○
Body lining kit	○	○
Body extension	○	○
<b>OTHER</b>		
Front wheel independent suspension, manual adjustable	●	●
Mud flaps	●	●
Towing hook, front and rear	●	●
Articulation joint lock	●	●
Rear lamp guard	○	○
HYUNDAI HiMate telematic system	●	●
Customized paint	○	○
<b>SERVICE</b>		
Automatic lubrication system	●	●
Cab tilting system	●	●
Arctic oil & grease kit	○	○
Tool kit	○	○
Spare parts kit	○	○

- : Standard
- : Option
- : Not available

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.

\* The photos may include attachments and optional equipment that are not available in your area.

\* Materials and specifications are subject to change without advance notice.

# HYUNDAI

Specifications and design are subject to change without notice. Pictures of Hyundai Construction Equipment Europe products may show other than standard equipment.

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