HA45A 4X4

ARTICULATED DUMP TRUCK



Max Power	Body Volume	Payload
368 kW (500 hp)	**25.7 m³**	**41 t**

building a comfortable tomorrow

HYUNDAI

ADT REDEFINED

LESS COMPLEXITY. MORE EFFICIENCY.

Introducing the new Hyundai HA45A 4x4 articulated dump truck, the latest addition to our A-Series ADT range. It offers outstanding performance in wet weather and slippery conditions where rigid dump trucks can't go. A new self-levelling, front and rear hydro-gas suspension system supports a soft ride in harsh conditions, while two axles cause less damage to the terrain.



LESS EMISSIONS. MORE PERFORMANCE.

The HA45A 4x4 is engineered to move more with less effort. Intelligent load monitoring helps maximise every cycle, while excellent stability and manoeuvrability will improve performance on demanding terrain. A smooth ride, efficient tipping and smart assistance features help maintain productivity while reducing fuel use.

EU Stage V Engine

The Hyundai HA45A 4X4 ADT has a proven, reliable and powerful Stage V diesel Scania engine, delivering 368 kW (500 hp) at 2100 rpm and excellent torque. This helps it achieve the great performance, but with lower emissions.



Payload meter

Hyundai's standard rear suspension based payload and load count meter provides the operator and owner with an accurate productivity guide in real time, while external indication lights help load the body more efficiently.

Downhill speed modulation

A powerful hydraulic retarder keeps the machine's speed constant on downhills without the support of service brakes. The operator can easily adjust the retarder's power by lever or simply by pushing the gas pedal.

Sloping rear frame

The sloping rear frame provides a lower centre of gravity which improves the overall stability and ensures fast and easy tipping of the body for increased productivity.

Forward-mounted turning ring

The turning ring is located in front of the articulation point, ensuring weight distribution to the front wheels in all operating situations, including maximum turning.

This enables you to use the limited slip differentials with only 45% locking value – ensuring drive to both front wheels in all situations, without fully locking the wheels.



Design features

Hydropneumatic suspension and 1 axle with 2 x twin wheels

The hydropneumatic suspension ensures a soft ride in tough conditions while 1 axle with 2 x twin wheels cause less damage to the terrain.

New Overload Protection (OLP)

Based on rear suspension cylinder pressure.

Brake assistance (automatic parking brake)

For hill assist and dump brake assist.

Greater manoeuvrability

The design of the rear frame, body, and front mounted differential on the transmission make this machine the most compact ADT in its class, resulting in a short turning radius and outstanding stability.

INCREASED FUEL EFFICIENCY

LESS NOISE. MORE COMFORT.

The HA45A features a best-in-class operator environment as a result of feedback received from hundreds of operators. With automatic limited slip differentials, automatic and manual transmission shift, power steering, simple touchpad and easy-to-read display, it's as simple to use and operate as possible.



Retarder force modulation lever

A new lever located on the right-hand side below the steering wheel enables the operator to choose from 4 power modes. On top of that, the gas pedal is responsible for retarder power reduction.

'Tip-tronic' gear shift

To ensure the smoothest possible gear shifts and momentum, you can run the ADT in both automatic and manual gears.

Body hoist lever

The new fingertip-controlled body hoist lever is easy to operate. The electronically managed hoist lever incorporates a higher body up speed and an automatic body down feature, with soft touch down, to keep you safe at all times.



Biggest cab

Our spacious ROPS/FOPS cab is the biggest in the industry with precise steering and good visibility.

One key solution

To enter and safely operate your Hyundai ADT, you need just 1 key to lock and unlock all the doors and also start the engine.

Air-suspension seat

A high comfort air-suspension seat with armrest comes as standard.

More storage compartments

Enjoy plenty of storage spaces, plus extra room designed to fit a cool/hot box with additional 12V power supply.

MP3, DAB and Bluetooth

The standard radio supports all the modern features you would expect like MP3, DAB and Bluetooth.

Climate control

Our specially designed climate control is easy to operate and highly efficient to keep you comfortable at all times.

LCD colour monitor panel

A 12" colour display provides all the necessary information for driving and handling the Machine. Sub-menus provide additional and diagnostic functions, while there is backlight dimming according to ambient light conditions.

Quiet

Low noise levels (72 dB(A)) and the cab's vertical movement provide additional comfort and quiet operation. The cab is mounted on a special rubber suspension to reduce vibration and noise.

LESS STRESS. MORE SAFETY.

The new HA45 4x4 excels in the wet, mud and other poor weather conditions compared to rigid dump trucks which are forced to stop work. With superior stability, manoeuvrability, mobility and improved braking, it has better climbing abilities, a short turning radius and many other advantages over rigid dump trucks.



TECHNOLOGY TO KEEP YOU **SAFE**



Staying safe

The HA45A 4x4 has been designed for maximum operator safety when working and during servicing. Safety fenders and handrails all around cab, good visibility and easy front cab access all combine to help.

Machine stability monitoring

The body over centre of gravity function constantly monitors machine stability during tipping operations. It provides real-time information when the machine is working in difficult operating conditions, helping reduce rollover risks while supporting safer unloading on challenging terrain.

Braking systems

The machine comes with many braking systems and features for added operator reassurance. Oil-cooled wet multi-disc brakes deliver consistent stopping power in demanding conditions. Protected from dust, mud and moisture, the enclosed system ensures reliable braking performance, reduced wear and long-term durability throughout intensive haul cycles. Also included are a hold brake, hydraulic transmission retarder and a parking brake.

Rear-view camera

Safety is highly important to Hyundai and our customers. The rear-view camera allows operators to see all obstacles and people in their workspace for total peace of mind.

Hold brake

A newly developed brake system allows the machine to be maintained in a stopped position, even when the operator takes his foot off the brake pedal.

Self-levelling hydro-gas front suspension

Combining exceptional ride comfort with enhanced machine stability, the self-levelling front suspension reduces operator fatigue, while improving load control and confidence across challenging terrain.



Excellent visibility

The sloping hood gives the operator an excellent view.

Gradient meter with body flip-over protection

The gradient meter helps operators stay in complete control on challenging terrain. It continuously monitors machine inclination, providing real-time awareness of slope conditions. Combined with body flip-over protection, the system enhances safety during tipping operations, keeping the machine safe and stable.

LESS COST. MORE UPTIME.

Easy maintenance and servicing ensure greater uptime and increase the lifetime of components. All main filling points can be easily accessed while standing on the ground.

Simple maintenance

Improved simplicity of maintenance and servicing reduces failure rate and improves lifetime and longevity.

Easy access

Convenient position of liquid level checks and filling points.

Low cost

Very low number of rubber wearing components significantly reduce labour time and cost.

Filters

All filters are centralised for quick and easy access.

Tiltable cab

Maintenance has been made even easier with the addition of a tiltable cab. With a self-positioning locking mechanism, it is both safe and convenient.

HiMATE

It's convenient, easy and valuable. Hi MATE, Hyundai's remote management system, utilises GPS-satellite technology to provide customers with the highest level of service and product support available.

Increase productivity

By providing information such as service hours, idle time and fuel consumption, Hi MATE saves you money and improves productivity. Service alerts enable better maintenance planning.

Monitor your machines

Hi MATE's real-time location information allows convenient monitoring of your equipment via the Hi MATE website or mobile app.

Mobile fleet app

Our Mobile Fleet app provides all the information you need to run your fleet efficiently and economically.



Keeping you covered

Hyundai genuine parts and accessories are designed to keep your machine running at optimum performance, providing increased uptime, comfort and productivity. Our 13000 m² European Parts Warehouse guarantees 24-hour delivery across our dealer network. Hyundai Standard and Extended Warranty Programmes are also available, providing peace of mind and giving you full control over your operating costs.





QUICK SERVICING FOR MAXIMUM **UPTIME**

PROCARE. MORE CARE FOR YOU AND YOUR MACHINE.

ProCare, Hyundai's tailored maintenance packages work proactively via Hi MATE by automatically delivering service kits directly to dealers before any service is due. This gives you peace of mind knowing that your machine will be serviced on time, with genuine parts and with no extra costs or inflationary increases. Choose the tailored maintenance package best suited for your needs.

KEY BENEFITS

- Automatically delivered filter kits
- Oil sampling every 1,000 hours
- Fixed prices invoiced upfront
- Uptime Centre and dealer support

TAILORED MAINTENANCE PACKAGES

MainCare

Stay ahead on service with Hyundai MainCare

MainCare keeps you ahead of maintenance with predictable costs and zero hassle:

- Lock in your filter costs for up to 4 years or 5,000 hours – no surprises, just smooth running.
- Oil sampling at 1,000 hours helps catch issues early and extend component life.
- Your dealer contacts you when service is due – no chasing, no delays.
- Filters always in stock – ready when you are.
- You choose: service it yourself or let your dealer handle it.

FullCare

Complete coverage and confidence with Hyundai FullCare

Everything you get with MainCare, plus up to 4 years extended warranty at discounted price – for complete coverage and confidence:

- Fixed filter costs.
- Proactive service reminders.
- Oil sampling with expert reports.
- Guaranteed parts availability.
- Extended warranty up to 4 years

HA45A 4X4

SPECIFICATIONS

SPECIFICATIONS	HA45A 4X4
ENGINE	
Maker / Model	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	368 kW (500 HP) / 360 kW (483 HP)
No. of cylinders	6 (in line)
Gross Torque	2476 Nm @ 1400 rpm
Cylinder volume	12.7 litres
Bore Diameter × Stroke	130 × 160 mm
Air Filter	2-stage (main + safety) , dry type
Emissions	Complies with Stage V of EU Directive 97/68/EC for emissions
ELECTRICAL SYSTEM	
Voltage	24 V
Battery	2 x 12 V
Battery Capacity	2 x 105 Ah
Starter Motor	6 kW
Alternator	24 V / 100 A
DRIVETRAIN	
Torque Converter	Lock up function in all gears
Transmission	Electronically-controlled automatic transmission with retarder Full-time 4 × 4 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

SPECIFICATIONS	HA45A 4X4
TRANSMISSION	
Maker / Model	ZF 8 EP420
Travel Speed - Forward:	
1st	5 km/h
2nd	8 km/h
3rd	11 km/h
4th	16 km/h
5th	23 km/h
6th	32 km/h
7th	45 km/h
8th	55 km/h
Travel Speed - Rear:	
1st	5 km/h
2nd	8 km/h
3rd	11 km/h
4th	16 km/h
Front Hubs	Kessler
Rear Axle + Hubs	Kessler
BRAKE SYSTEM	
Service Brakes	Dual circuit braking system acting on all four wheels. All hydraulic-operated brakes with enclosed oil-cooled wet multiple discs
Parking Brake	Spring actuated hydraulic released parking brake, mounted on driveline shaft
Max. Gradient, Parking Brake	15°
Retarder	Automatic transmission retarder as standard
Brake System	Approved according to ISO 3450
STEERING SYSTEM	
Cylinder	Two double-acting
Standard	The steering is approved according to ISO 5010
Max. Steering Angle	45°
Emergency Steering	Ground-driven emergency steering pump
CABIN	
ROPS / FOPS cabin meet ISO 3471 and ISO 3449	
The cab is centrally located on rubber mountings	
Hand and arm vibrations are less than 2.5 ms^2 (ISO 5349-2)	
Whole body vibration is less than 0.5 ms^2 (ISO 2631-1)	
Superior visibility - for safer operation	
Superior operating controls location	
Adjustable suspended operator seat	
Adjustable steering column	
Full automatic climate control - heater and air conditioning	
Tilting cab for service access	
All-around hand rails	
Front access (clean area)	
AIR CONDITIONING SYSTEM	
The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.75 kg of refrigerant representing a CO_2 equivalent of 1.073 metric tonnes.	

SPECIFICATIONS		HA45A 4X4
HYDRAULIC SYSTEM		
Type		1 variable displacement piston pump for steering, tipping, cooling fan, brakes & auxiliaries
Maximum Pump Output		294l/min @ 2100 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 Up		12 sec
Tipping Time Down		10 sec
BODY		
Material		Hardened abrasion-resistant steel plates (400 HB)
Body shape		Sloping frame
Exhaust heating		Designed for exhaust heating
Body Tipping Angle		55°
Level Capacity (struck)		19.4 m^3
Heaped capacity (SAE 2:1)		25.7 m^3
TYRES		
Front		29.5R25 **
Rear		21.00 R35
WEIGHTS		
Empty	Front axle	15500 kg
	Rear axle	15000 kg
Net weight		30500 kg
Max. admissible axle load	Front axle	23500 kg
	Rear axle	48500 kg
Max. admissible total weight		72000 kg
Payload		41 metric ton / 45 short ton
POWER TO WEIGHT RATIO		
Empty		11.8 kW/t
Loaded		5.0 kW/t
CAPACITIES		
Engine oil		45 l
Fuel tank		530 l
DEF tank		70 l
Cooling circuit		50 l
Transmission		69 l
Hub front (2x)		9.6 l
Front differential		9.4 l
Rear axle, rear differential and hubs		78.5 l
Brake cooling tank		15 l
Hydraulic system		100 l
Hydraulic tank		63 l
Windscreen washer tank		4.5 l

SPECIFICATIONS	HA45A 4X4	
WEIGHT DISTRIBUTION FRONT / REAR AXLE LOADED		
Front axle / Rear axle	32 / 68 %	
EXCAVATOR PASS MATCHING		
HX480A L	8	
HX520A L	8	
HX800A L	5	
HX1000A L	4	
WHEEL LOADER PASS MATCHING		
HL980A	4	
HL985A	4	
LEGEND		
	Well matched	U nder capacity
Excavator	4 - 6 buckets	> 7 buckets
Wheel Loader	2 - 3 buckets	> 4 buckets
ARTICULATION HINGE AND CHASSIS		
Articulation hinge	Articulation hinge with forward-mounted large dimensioned turning ring	
Chassis	Heavy duty design, box type welded frames; 7° sloping rear frame design	
SUSPENSION		
Front	Semi-independent, self-levelling hydro-gas suspension, manually adjustable	
Rear	Hydro-gas suspension	
NOISE		
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)		107 dB(A)

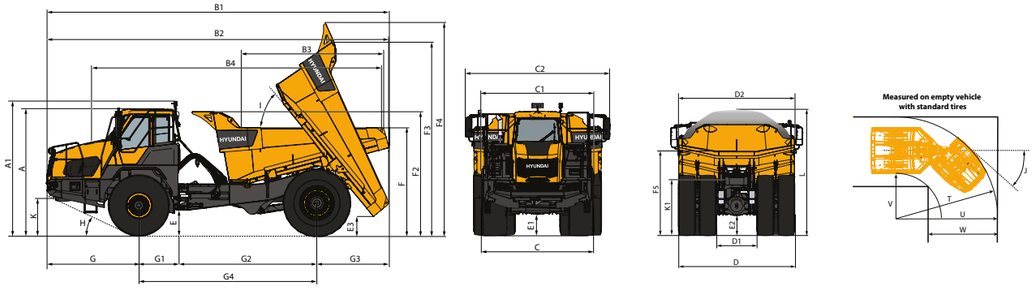
*Distance of 15 m, moving forward in second gear ratio

HA45A 4X4

DIMENSIONS

DIMENSIONS

All dimensions are approximate.



Unit: mm

Description		HA45A 4x4
A	**Transport position/CAB height**	3683
A1	**Rotating beacon**	4042
B1	**Fully length**	10187
B2	**Load bucket length**	4300
B3	**Machine lifting center**	8641
C	**Over front tires 25.5R25**	3400
C1	**Over mudguard**	3400
C2	**Over mirror operating position**	4434
D	**Over rear tires (21.00R33 Continental)**	3975
D1	**Between inner rear tires**	1382
D2	**Over body**	3962
E	**Ground clearance art. Hinge**	627
E1	**Ground clearance front axle**	650
E2	**Ground clearance rear axle**	598
E3	**Ground clearance bin fully tipped**	437
F	**Load over height**	3335
F2	**Bin tip height without rock guard**	3725
F3	**Bin fully tipped**	6441
F4	**Bin fully tipped with rock guard**	6442
F5	**Bin Tip height**	2789
G	**Front axle center to machine front**	2818
G1	**Front axle center to art. Hinge**	1275
G2	**Art. hinge to rear axle center**	4150
G3	**Rear axle center to bin rear**	2192
G4	**Front axle center to rear axle center**	5425
H	**Approch angle front**	26.7°
I	**Maximum bin tip angle**	55°
J	**Maximum articulation steering angle**	45°
K	**Front tie-down height**	1063
K1	**Rear tie-down height**	1642
L	**Load height (SAE 2:1)**	4160
T	**Outer wheel turning radius**	8880
U	**Outer turning radius**	8920
V	**Inner turning radius**	3965
W	**Corridor width**	6120

HA45A 4X4

STANDARD/OPTIONAL EQUIPMENT

	HA45A 4X4
ENGINE	
Exhaust brake (in combination with hydraulic retarder)	●
Centrifugal air-precleaner	□
Electrical engine heater 220V	□
Fast fill refuelling system	□
Electric diesel refuelling pump	□
ELECTRICAL SYSTEM	
Head, position, turn, brake and rear lights	●
Hazard lights	●
Headlights LED	□
Work light kit (rear and front)	□
Work light kit (rear and front) LED	□
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	●
MAIN DISPLAY	
Fuel & DEF level	●
Engine coolant & transmission oil temperature	●
Speedometer & tachometer	●
Vehicle angle	●
Transmission status	●
Payload meter	●
Time & outside temperature	●
CENTRAL INDICATION AND WARNING LAMPS	
Indicator lamps grouped for all vital functions	●
Warnings integrated	●
ELECTRONIC SYSTEM	
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	□
DRIVELINE	
Full automatic transmission	●
Torque converter with automatic lock up clutch	●
Transmission retarder brake	●
Two circuit, wet disc brake acting on all 4 wheels	●
Brake cooling system	●
TYRE OPTIONS	
Quarry E4	●
Tyre pressure monitoring system (may not be available with all tyres)	□
Spare wheel	□

	HA45A 4X4
CABIN INTERIOR	
High-comfort seat (vertical and longitudinal suspension) GRAMMER	●
Armrest at operator seat	●
Headrest at operator seat	●
Safety belt with alarm	●
Premium comfort seat BEGE	□
Instructor seat with safety belt	●
Interior light	●
Adjustable steering column	●
Electronic climate control	●
2-stage cabin fresh air filtration	●
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	●
SAFETY	
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 foldable LED	□
Light bar LED	□
Seat belt green warning light	□
Blue or orange flashing reverse light	□
Back up alarm	●
White noise back up alarm	□
BODY	
Body prepared for exhaust heating	●
Body exhaust heating kit	□
Body lining kit	□
OTHER	
Front wheel independent suspension, manual adjustable	●
Rear axle suspension	●
Mud flaps	●
Towing hook, front and rear	●
Articulation joint lock	●
Rear lamp guard	□
HYUNDAI HiMate telematic system	●
SERVICE	
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
HX300
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4X4
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HY-CE-00803. 10/2026. EN. ISSUE 1