

HYUNDAI

ARTICULATED DUMP TRUCKS

HA30 HA45

Tier 4 Final



	Net Weight	Max Power	Body Volume	Max Payload
HA30	51,147 lb (23,200 kg)	375 hp (276 kW)	17.8 yd ³ (16.8 m ³)	31 short tons / 28 metric tons
HA45	66,359 lb (30,100 kg)	500 hp (368 kW)	26 yd ³ (24.4 m ³)	45 short tons / 41 metric tons

building a
comfortable
tomorrow

SEE FOR YOURSELF!

PRODUCTIVITY AND EFFICIENCY

- Powerful Tier 4 Final engines
- Permanent 6-wheel drive
- Rear tandem axles
- Front-mounted turning ring
- Equal power and weight distribution
- Limited-slip differentials
- Independent front wheel suspension
- Sloping chassis design
- Adjustable hydraulic retarder
- Optional heated body
- Compact rear frame and body

COMFORT

- Spacious ROPS/FOPS cab
- Climate control and air suspension seat
- Precise steering
- Low noise levels
- Convenient 7" LCD color display panel
- Electronically managed body hoist lever
- Suspended mounted cab
- Extra storage space
- Optional electric mirrors
- 1 key to unlock and start engine



SERVICEABILITY

- Simplified cab tilt gives easy service access
- Ground-level access to key service areas
- Oil-cooled wet disc brakes with up to 15,000-hour life
- Steel bearings lasting at least 12,000 hours
- Auto grease system as standard
- One rear differential and simpler driveline
- Equal weight distribution for less tire wear
- Multifunctional service and maintenance display

SAFETY

- Easy front cab access from the front
- Fenders and hand rails
- Superior machine stability
- Sloping hood design for greater visibility
- Hydraulic transmission retarder
- Hydraulically activated mechanical parking brake
- Short front frame to handle obstacles better
- Automatic over center of gravity feature





ULTIMATE ADT PRODUCTIVITY AND PERFORMANCE

Permanent 6-wheel drive, rear tandem axles and front-mounted turning ring, provide equal power and weight distribution for optimal operating performance.

The sloping rear frame guides payloads to the front, increasing traction and providing a lower center of gravity for greater stability and fast and easy dumping for increased productivity.

Front and rear differentials are limited slip while longitudinal differential can be manually locked.



TRAVEL SPEED

Up to 34 mph (55 km/h) travel speed and Tip-tronic gear shift provide smoother operation while maintaining maximum momentum. The truck can also be run in both automatic and manual gears.



LOAD RETENTION

The adjustable hydraulic retarder keeps the machine's speed constant on downhill, without the support of service brakes.

A sloping chassis keeps more fluid or wet materials including gravel inside the tipping body. An optional rear tailgate increases dump body capacity and improves load retention for greater working efficiency.

UNLOADING

The optional dump body heater prevents materials from freezing to the interior, enabling quicker and easier unloading.



Optimum operating performance

MANOUEVERABLE

The turning ring is located in front of the articulation point, ensuring equal weight distribution to the front wheels in all operating situations, even in the tightest turns. You can also apply the limited-slip differentials at 45 percent, allowing only partial locking to ensure continued power to both front wheels.

Our rear frame and body design, combined with the front-mounted differential makes for a compact ADT, resulting in a tight turning radius and outstanding stability.

More contact points with the ground make the machine more stable through the turns, for a safer and more comfortable ride.



TOUGH TERRAIN

The tandem rear axle delivers a full 40 degrees of oscillation for exceptional traction and ground engagement over rough ground. This helps increase productivity and fuel efficiency.

Independent front wheel suspension allows independent movement up front so that obstacles don't affect the rear suspension or axles.





RELIABILITY AND EFFICIENCY

Proven and reliable engines provide all the power you need, with excellent torque and low fuel consumption while meeting Tier 4 Final requirements. Other features combined with world-class components further increase efficiency and decrease cost of ownership.



POWERFUL AND COST EFFECTIVE

Proven Tier 4 Final-compliant engines deliver 375 hp (276 kW) to the HA30 and 500 hp (368 kW) to the HA45, providing high torque at low rpm with low fuel consumption.



Intelligent design for improved economy

SUSPENSION

Our self-leveling, hydro-gas front suspension system provides outstanding performance in rough terrain, even when the machine is empty. It can also be adjusted to match changing working conditions.



DIFFERENTIAL AND DRIVELINE

Our design has one rear differential and a simple driveline, resulting in fewer moving parts for easier and lower cost maintenance.





PAYLOAD

Our standard onboard weighing system measures loads when dumped and records the accumulated weight on the trip counter, providing owners and operators with an immediate productivity report. Optional indicator lights on the HA45 help load the body more efficiently.

COMPACT

At less than 9.5-feet (3 m) wide, the HA30 can be easily moved from one site to another. And thanks to their compact design, both machines can be transported on low trailers.





COMFORTABLE AND ERGONOMIC

A spacious cab and easy-to-use controls are essential for optimum operator comfort and productivity. Hyundai ADTs have all that and more, providing the perfect environment for long hours working in some of the toughest conditions.

Our spacious ROPS/FOPS cab is equipped with climate control and a high-quality operator's seat with air suspension and armrest, for greater operator comfort.



Comfort for efficient operation

LCD DISPLAY

A convenient 7" LCD color display panel shows all the important control and safety information, including that from a rearview camera, real-life payload meter with external light indication on the HA45 and dump body boost button.



HOIST LEVER

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



CONVENIENCE

The standard radio supports all modern features, including MP3, DAB and Bluetooth.

There are plenty of storage spaces, along with extra room for a cool or hot box. An additional 12 V power supply is also provided.

Just one key locks and unlocks all the doors and also starts the engine.

Electrically heated and adjustable mirrors are an available option.

SEAT

Because operator comfort is important to productivity and job satisfaction, air-suspension seats with armrests are standard on Hyundai ADTs.

FOCUS

The cab is suspended on a special rubber mounting to reduce vibration and minimize noise. Precise steering, good visibility and low noise levels increase operator comfort for better focus on the job at hand.





FULLY EQUIPPED FOR YOUR SAFETY

Safety is paramount on any worksite and both Hyundai ADTs come with many important features that provide all operators with greater confidence and peace of mind. Easier front access to the cab, superb visibility and overall machine stability come standard.



DUMPING

The automatic over-center-of-gravity feature slows down the body hoist system if it senses material stuck to the body when dumping.



PARKING BRAKE

The standard hydraulic transmission retarder and hydraulically activated mechanical parking brake add peace of mind.



Easy cab access from the front fenders and handrails plus superior machine stability, all provide greater safety.

SHORT FRONT FRAME

The short front frame is designed to better maneuver around obstacles, with the placement of the articulation joint and steering ring improving weight distribution in the front frame when turning. The more even weight distribution results in greater stability during turns and reduced wear on front-end components.

VISIBILITY

A sloping hood design provides the operator with an excellent view to the terrain or road ahead.





SIMPLE SERVICING INCREASES UPTIME

Hyundai ADTs have been designed with longer lasting parts and easier servicing and maintenance, to save time and reduce costs because less downtime means more time working and, ultimately, more time earning money.



The simplified cab-tilt allows easy service access to the machine.



CONVENIENT ACCESS

Hyundai ADTs are designed to allow easy, ground-level access to diesel and DEF filling points, filters and other key service points.

The multi-functional service and maintenance display makes it easy to check transmission oil level, as well as hydraulic and electronic components.

Less wear and tear

Equal weight distribution ensures the same load on every tire for less wear but greater traction. Also standard are oil-cooled wet disc breaks warrantied to 15,000 hours and steel bearings that will last 12,000 hours.



One rear differential and a far simpler driveline means less moving parts, for easier and more economical maintenance.



TELEMATICS TECHNOLOGY FOR SMART CONSTRUCTION

IoT / ICT / AI-based digital technologies are helping create smart construction sites that maximize connectivity, productivity, and safety for the success of your business.





Hi MATE

IT'S CONVENIENT, EASY AND VALUABLE

Hi MATE, Hyundai's proprietary remote-management system, helps you stay ahead of the curve. With your new Hyundai ADT, you get Hi MATE mobile (4G) free for five years or Hi MATE satellite free for two years. Hi MATE uses GPS technology to deliver the highest level of service and product support to customers, enabling users to remotely evaluate machine performance, access diagnostic information, and verify machine locations at the touch of a button.

What are the benefits?



INCREASED PRODUCTIVITY

Hi MATE helps you operate machines more efficiently. You can check the difference between total engine hours and actual working hours, see how productive your machines are and plan any required cost-saving solutions. Hi MATE also offers information such as working / idling hours and fuel consumption rates.



CONVENIENT AND EASY MONITORING

To monitor your machines, log on to the Hi MATE website or mobile application. Hi MATE allows you to watch your machines whenever and wherever you are.



SECURITY

Protect your machines from theft or unauthorized use with Hi MATE. If the machine moves out of the geo-fence boundary, you will get alerts.

SPECIFICATIONS

ENGINE	HA30	HA45
Make / Model	Scania DC 9	Scania DC 13
Type	Water-cooled, diesel engine with turbo charger and air-to-air intercooler	
Emissions	Tier 4 Final	
Aftertreatment System	EGR / SCR	
Power Rating ISO 3046	375 hp (276 kW) at 2100 rpm	500 hp (368 kW) at 2100 rpm
Number of Cylinders	5 (in line)	6 (in line)
Gross Torque	1873 Nm at 1,300 rpm	2373 Nm at 1,300 rpm
Displacement	92.46 gal (9.3 ℓ)	3.35 gal (12.7 ℓ)
Bore Diameter × Stroke	5.12" × 5.51" (130 × 140 mm)	5.12" × 6.3" (130 × 160 mm)
Air Filter	2-stage (main + safety), dry type	

ELECTRICAL SYSTEM	HA30	HA45
Voltage	24 V	
Battery	2 × 12 V	
Battery Capacity	2 × 105 Ah	
Starter Motor	8 hp (6 kW)	
Alternator	24 V, 100 A	

DRIVETRAIN	HA30	HA45
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 inter-axle longitudinal differential. 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	

STEERING SYSTEM	HA30	HA45
Cylinders	Two double-acting	
Standard	The steering is approved according to ISO 5010	
Max. Steering Angle	15°	
Emergency Steering	Ground-driven emergency steering pump	

TRANSMISSION	HA30	HA45
Make/ Model	ZF 8 EP320	ZF 8 EP420
Travel Speed - Forward		
1st	4 (6)	4 (6)
2nd	5 (8)	6 (9)
3rd	7 (11)	7 (12)
4th	10 (16)	11 (17)
5th	14 (23)	15 (24)
6th	20 (32)	21 (34)
7th	28 (45)	30 (48)
8th	34 (55)	34 (55)
Travel Speed - Reverse		
1st	4 (6)	4 (6)
2nd	5 (8)	6 (9)
3rd	7 (11)	7 (12)
4th	10 (16)	11 (17)
Front Hubs	Kessler	
Rear Axle + Hubs	Kessler	
Rear Tandem	Hyundai	

BRAKES	HA30	HA45
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	
Maximum Gradient, Parking Brake	15°	
Retarder	Automatic transmission retarder standard	
Brake System	Complies with ISO3450	

CABIN
ROPS / FOPS cabin meet ISO 3471 and ISO 3449
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)
AIR CONDITIONING SYSTEM
The air conditioning system contains Fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg of refrigerant representing a CO2 equivalent of 2.86 metric tons

SPECIFICATIONS

HYDRAULIC SYSTEM	HA30	HA45
Type	Variable-displacement piston pump for steering, dumping cooling fan, brakes and auxiliaries	
Maximum Pump Output	77.6 gpm (293.75 ℓ/min) @ 2,100 rpm	
Filtration	Return flow filter	
Main Safety Valve Pressure Tipping	4,061 psi (280 bar)	
Main Safety Valve Pressure Steering Circuit	3,045 psi (210 bar)	
Tilt Cylinders	Single-stage, double-acting	
Dumping Time Raise	12 secs	10 secs
Dumping Time Lower	10 secs	10 secs

BODY	HA30	HA45
Body Volume (Without Tailgate)	17.8 yd ³ (16.8 m ³)	26 yd ³ (24.4 m ³)
Material	Hardened abrasion-resistant steel plates (400 HB)	
Body Dumping Angle	70°	
Level Capacity (with / without Tailgate)	18.6 yd ³ (14.2 m ³) / 17.8 yd ³ (13.6 m ³)	26.7 yd ³ (20.4 m ³) / 19.6 yd ³ (21.4 m ³)
Heaped Capacity (with / without Tailgate)	23.3 yd ³ (17.8 m ³) / 22.0 yd ³ (16.8 m ³)	34.0 yd ³ (26.0 m ³) / 31.9 yd ³ (24.4 m ³)

TIRES	HA30	HA45
Standard	23.5 R25	29.5 R25
Optional	750/65 R25	875/65 R29

WEIGHTS		HA30	HA45	
Empty	Front Axle	27,888 (12,650)	31,305 (14,200)	
	Rear Axle	22,817 (10,350)	35,053 (15,900)	
Net Weight		lb (kg)	51,147 (23,300)	66,359 (30,100)
Maximum Admissible Axle Load	Front Axle		36,817 (16,700)	49,604 (22,500)
	Rear Axle		81,571 (37,000)	121,254 (55,000)
Maximum Admissible Total Weight			112,876 (51,200)	156,748 (71,100)
Payload		28 metric tons / 31 short tons	41 metric tons / 45 short tons	

POWER TO WEIGHT RATIO	HA30	HA45
Empty	14.7 (11.9)	15.1 (12.2)
Loaded	6.6 (5.4)	6.3 (5.2)

SERVICE REFILL CAPACITIES	HA30	HA45
Engine Oil	9.2 (34.8)	11.9 (45)
Fuel Tank	96 (363)	129.4 (490)
DEF Tank	18.5 (70)	18.5 (70)
Transmission	17.7 (67)	17.9 (68)
Hub Front (2x)	2.5 (9.6)	2.5 (9.6)
Tandem Housing, Rear Differential and Hubs	33.8 (128)	63.4 (240)
Hydraulic System	25 (95)	26.4 (100)
Engine Cooling	11.9 (45)	13.2 (50)

GROUND PRESSURE		HA30	HA45
Tires		Standard tires with 15% sinkage	
Unloaded	Front Axle	17.7 (122)	13.63 (94)
	Rear Axle	7.54 (52)	7.54 (52)
Loaded	Front Axle	23.5 (162)	20.16 (139)
	Rear Axle	24.66 (170)	23.35 (161)

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-leveling hydro-gas suspension, manually adjustable
Rear	Free-swinging tandem housing

NOISE

Guaranteed noise levels presented below can differ depending on a range of factors, such as operating conditions, cooling fan speed, engine type, and so forth. Hearing protection may be necessary if an operator is working in an improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open.

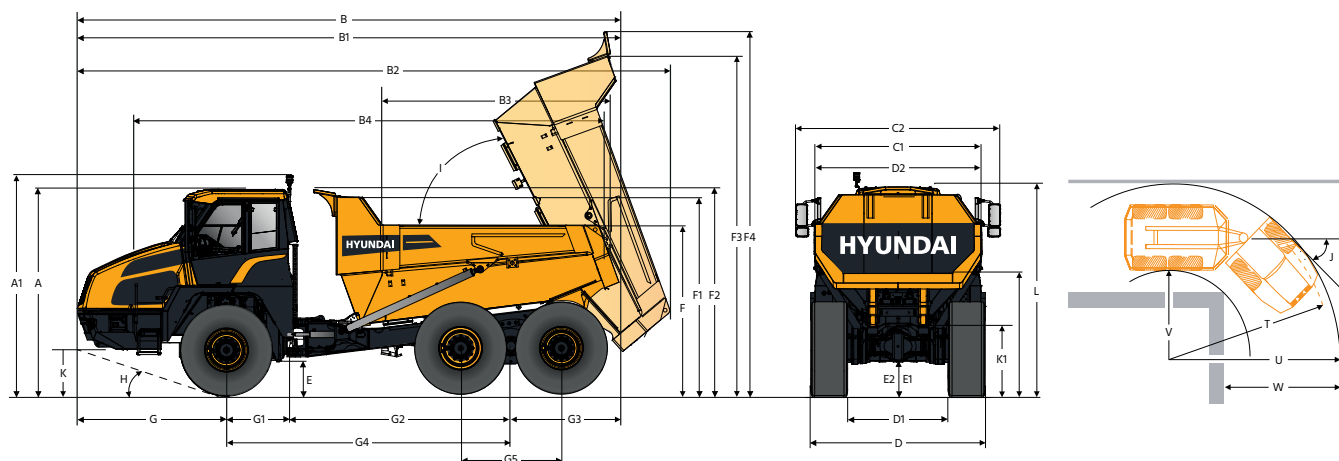
With cooling fan speed at maximum value:

Operator Sound Pressure Level (ISO 6396:2008)	72 dB (A)
Exterior Sound Power Level (ISO 6395:2008)*	108 dB (A)

*Distance of 49' (15 m), moving forward in second gear ratio

DIMENSIONS

All dimensions are approximate.



DESCRIPTION		HA30	HA45
A	Transport position / cab height	141 (3,604)	152 (3,850)
A1	Rotating beacon	151 (3,836)	159 (4,050)
B	Overall w/o tailgate	375 (9,515)	417 (10,590)
B1	Overall with tailgate	375 (9,555)	420 (10,673)
B2	Overall body tipped	410 (10,405)	449 (11,405)
B3	Overloading height	150 (3,800)	172 (4,360)
C	Over outside front tire 23.5R25 / 29.5R25	118 (3,000)	137 (3,475)
C*	Over outside front tire 750/65R25 / 875/75R25	126 (3,208)	143 (3,630)
C1	Over mudguard	113 (2,860)	134 (3,400)
C2	Over mirror operating position	138 (3,499)	157 (3,990)
D	Over outside rear tires 23.5R25 / 29.5R25	117 (2,990)	137 (3,475)
D*	Over outside rear tires 750/65R25 / 875/75R25	117 (2,976)	143 (3,630)
D1	Between inner tires	69 (1,740)	75 (1,900)
D2	Over body	114 (2,895)	134 (3,395)
E	Ground clearance art. hinge	22 (567)	25 (643)
E1	Ground clearance front axle	22 (549)	24 (606)
E2	Ground clearance rear axle	21 (540)	27 (691)
E3	Ground clearance body fully tipped	24 (610)	30 (763)
F	Overloading	37 (2,946)	132 (3,355)
F1	Body w/o rock guard	135 (3,436)	152 (3,865)
F2	Body with rock guard	141 (3,572)	158 (4,001)
F3	Body fully tipped w/o rock guard	232 (5,885)	263 (6,680)
F4	Body fully tipped with rock guard	246 (6,240)	282 (7,170)
F5	Body tipped	83 (2,100)	94 (2,390)
G	Front axle center to machine front	103 (2,605)	109 (2,775)
G1	Front axle center to art. hinge	47 (1,200)	50 (1,275)
G2	Art. hinge to rear axle center	150 (3,800)	163 (4,150)
G3	Rear axle center to rear of dump body	75 (1,910)	75 (2,390)
G4	Front axle center to rear axle center	197 (5,000)	214 (5,425)
G5	Wheelbase rear axle	70 (1,771)	77 (1,960)
H	Approach angle front	22.5°	26.5°
I	Max. body tip angle		70°
J	Max. steering angle		45°
K	Front tie-down height	34 (874)	42 (1,063)
K1	Rear tie-down height	46 (1,180)	51 (1,300)
L	Load height (SAE 2:1)	142 (3,600)	161 (4,100)
V	Inner turning radius	157 (3,995)	162 (4,215)
U	Outer turning radius	302 (7,680)	331 (8,420)
T	Outer wheel turning radius	318 (8,065)	350 (8,880)
W	Corridor width	208 (5,280)	216 (5,940)

STANDARD AND OPTIONAL EQUIPMENT

●: Standard / ○: Optional

ENGINE	
Electronically controlled, direct-injected, water-cooled, turbocharger, air-to-air intercooler	●
Preheater for easier cold starts	●
HYDRAULIC SYSTEM	
Variable-displacement piston pump for steering and tipping	●
One return flow filter	●
BODY	
Tailgate	●
Body lining (400 HB)	○
Side extension 8" (200 mm)/10" (250 mm)	○
Body heating kit	○
TIRE OPTIONS	
Quarry	○
Earthmoving	●
Flotation tires	○
CAB & INTERIOR	
Operator's seat armrest	●
Operator's seat headrest	●
Operator and instructor's seat safety belts	●
Adjustable steering column	●
All instrumentation in LCD display	●
Cigarette lighter	●
12 V and USB charging point	●
Retractable roller sunblind	●
Tinted safety glass	●
Sliding window (left and right side)	●
Windshield wiper and washer	●
Electrical adjustable heated mirror	●
Protection for rear window	●
Emergency steering, ground-driven	●
Radio/MP3 and Bluetooth	●
CB radio	○
Cab tilting system	●
Emergency shutdown switch	●
Anti-slip steps and platform	●
Cool box compartment	●
Storage space	●
Electronic climate control	●
High-comfort seat (vertical and longitudinal suspension)	●
Heated operator seat with 3" 2p belt	●
Heated operator seat with 2" 2p belt	○
SAFETY	
Gradient meter with anti-flip-over protection system	●
Payload meter and cycle counter	●
Wet disc brakes	●
Wheel block	○
LED main lights	○
Rearview camera	●
Blue or orange flashing reverse light	○
HEPA filter package	○
Hammer for emergency escape	●
Seat belt green warning light	○
White noise alarm	○
Air inlet pre-cleaner	○
Protection for rear lights	○
Handrails on the fenders	●
OTHER	
Transmission retarder brake	●
Mud flaps	●
Towing hook, front and rear	●
Hi MATE telematics system	●
Work light kit (rear and front)	●
Load weighing system	●
Overload protection system	●
Auto grease system (20 ℓ, Beka)	●
Auto grease system (6 ℓ, Beka)	○
Webasto heating system (heat up the cooling system)	○
Fire extinguisher	●
First aid kit	●
Fixed beacon light	●
Foldable beacon light	○
Light bar LED	○
Speed limitation	○
Work light kit (rear and front) LED	○
Tool kit	○
Warning triangle	○
Fast fill	○
Tire pressure monitoring system (may not be available with all tires)	○
Electrical diesel refueling pump	○
Electrical engine heater (230 V)	○
First maintenance kit	○
Artic oil	○
Sign light	○
Construction road sign	○

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

DRIVEN BY VISION, BUILT TO PERFORM



For three decades HD Construction Equipment Hyundai North America has brought Hyundai's spirit to the United States and Canada. Backed by Hyundai Heavy Industries' and founder Chung Ju-yung's commitment to quality and innovation we build machines that meet the highest expectations and drive business growth every day.

Backed by Hyundai

An international powerhouse across many heavy industries.



Refinery



Shipbuilding



Construction Equipment



Offshore Engineering



Engine and Machinery



Electro Electric Systems



Industrial Plant Engineering



Green Energy

Support

Hyundai construction equipment is available and serviced through a network of more than 100 dealerships at over 200 locations across the United States and Canada. When you invest in a Hyundai machine, you're getting durability you can rely on. Here's what sets Hyundai apart:

- Value: Every machine comes packed with more standard features.
- Warranty: Enjoy an industry-leading 3-year/3,000-hour standard warranty, plus a 5-year/10,000-hour structural warranty, with the option to add Hyundai Extend, our extended warranty program.
- Expert Service: Our skilled dealer service teams, backed by Hyundai field support, are here to help.
- Parts Support: With an average 96% fill rate for parts orders, our warehouses in suburban Atlanta and Mississauga, Ontario, stock over \$43 million in parts inventory to keep you running.

HYUNDAI

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