

*Product Guide* **HD45**



 **HYUNDAI**  
Drive your way™

## *The new HD45, a winner from the world go!*

*The new HD45 has everything it takes to be a sales success. Good looks, excellent performance, crew comfort, operating economy and long-term toughness will appeal directly to the business sense of any customer. Add Hyundai reliability and ease of service and you have a real winner, the new HD45.*





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# *PRODUCT CONCEPT*



# Smart and Stylish Truck for Powerful City Activities



## Smart & Stylish

- 1760mm width of cab size fits to city and narrow streets
- Stylish aerodynamic exterior adds professional image and better efficiency



## Interior

- Maximized interior dimensions offer spacious interior
- Cockpit-style instrument panel
- Highly ergonomics layout of switches and controls
- Spacious, convenient glove box
- Seat sliding and reclining adjustments extended for greater comfort

## Key Sales Features

The HD45 is a dynamic truck, ideal for city use.

It offers: -

- Optimised size for ease of maneuverability
  - Car-like cab comfort to cut fatigue
    - Low cab for ease of entry
    - Lighter, car like controls
  - Wide deck and load area for increased efficiency
- Strong chassis components for increased durability and reliability
  - High levels of crew and operating safety
- Exceptional access for routine service and maintenance



## Maintenance

- Cab tilting mechanism for easier access to service
- Auxiliary starting device improves the convenience of power-train repairs
- Same size tires for front and rear axles contribute to convenient tire replacement and reposition.



## Robust Chassis

- Super frame for greater resistance to rugged operation
- High capacity axles and suspension for excellent durability and reliability
- Heavy duty brakes for secure safety

## Aerodynamic and Efficient

The exterior styling of the HD45 skillfully combines the ruggedness and strength of a truck with touches of passenger car elegance to achieve a balance of form and function.

The cab body harmonizes rounded elements with clean, futuristic lines to project a hard-working, agile personality.

Space utilization and efficiency has been maximized by incorporating a box-type cab and rounding a number of key elements for a softer, more advanced look and optimum aerodynamics. In functional terms, the cab aerodynamics have been carefully tuned in

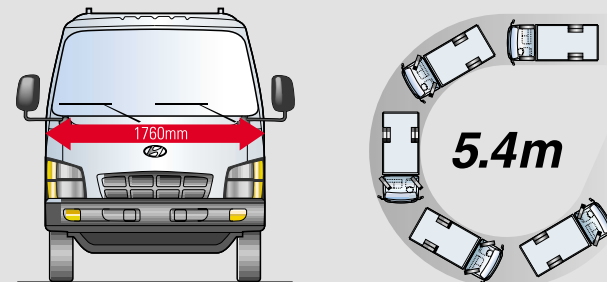
order to minimize wind resistance, with the resulting benefits of lowering fuel consumption and reducing wind noise for enhanced driving comfort.

Softened styling elements include rounded cab corners, a clean roofline unbroken by rain gutters, and flush fitting body panels, glazing and exterior trim. A quad-sectioned grille and styled headlamps provide an all-important extra touch of elegance. Upswept character lines that flow into the side door panels crown the vertically stacked headlight clusters.

## EXTERIOR STYLING



### Smart Cab Size for Efficient Maneuverability



	HD45 (Narrow CAB)	HD65 (Wide CAB)	Comparison
Cab Width	1,760 mm	2,000 mm	-240mm
Turning Radius	5.4 m	6.2 m	-0.8 m

## ■ Stylish Exterior for the professional image of dynamic city business

Modern styling cab design adds the professional image of your business.



### □ Aero Dynamic

The computer-aided-engineered aerodynamic cab design has been tuned in order to minimize the wind resistance with the resulting benefits of improving fuel efficiency as well as reducing wind noise in driving.



### □ Styled Headlamp

Styled headlamps are a key design element for expressing a smart and modern city life image.



### □ Function oriented Radiator

The radiator grill, radiator and cooling fan is significantly large to facilitate the smooth inflow of air for engine cooling and its quad-sectioned grill shows a solid image of Hyundai truck. (Chrome Coat : Option)



### □ Fog Lamps

Built-in type fog lamps improve the illumination in dark or foggy weather. (Option)



### □ Sporty Side Character

New side character line adds a sporty, muscular note which defines the Hyundai's dynamic and solid images. (DLX Trim Only)



### □ Side Turn Signal Lamp

Recognizable side turn signal lamp harmonize with the modern and advanced image of HD45.

## ■ Functionality is the bottom-line of the active city truck

Sophisticated engineers put more value and functions in every corner of the truck.



### □ Wide Windshield

For safer, more confident driving, windscreen dimensions have been maximized to provide a wider field of view.



### □ Built-in Washer

The windscreen washer is built into the wipers. This improves washer fluid dispersion and increases the washer coverage area for safer driving.



### □ Side Tinted Glass

The standard tinted side door glasses provide the pleasant driving atmosphere by reducing the transmissivity U.V rays 26% more and heat ray 20% more than the clear type glass.



### □ Large Side Mirror

Larger side view mirrors provide better rearward view and minimize the blind spots.

### □ Side Tinted Glass

Transmissivity	U.V Ray	Heat & Infrared Ray	Visible Ray
Tinted Glass	30%	62%	80%
Clear Glass	56%	82%	89%

### □ Large Side Mirror

	HD45	Competitor	Comparison
Mirror Size	310 x 195 mm	255 x 194 mm	+ 22%

# Comfortable interior space for more productivity

Hyundai engineers know the driving fatigue caused by countless stop-and-go city traffic situations. In the HD45, they have taken a major step forward by providing the highest level of comfort to ensure maximum driver productivity and business success. A number of improvements contribute to this people oriented philosophy. Among them, the maximized interior dimensions of the cab, logically positioned controls and switches, and advanced steering, brake, and clutch mechanisms to minimize driver effort.

## INTERIOR & CONVENIENCE

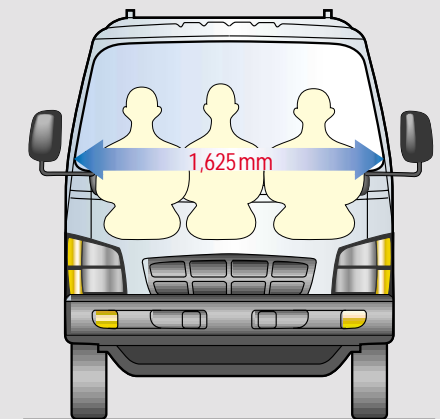


Cluster  
Logically Arranged Gauge Cluster

### **■ New Dimension for more comfort**

The interior cab size is enlarged enough to accommodate 3 persons, considering today's bigger body size of occupants while maintaining the mobility.

Interior Space	HD45	Competitor	Comparison
Interior Width	1,625	1,565	+ 60mm
Interior Height	1,330	1,220	+ 110mm





## Interior with ample illumination

Large size of room lamp and LED lights for switches provide ample illumination to keep the comfortable cab environment for day or night.



### LED Switch

LED Switch for easy recognition and life-long durability



### Large Room Lamp

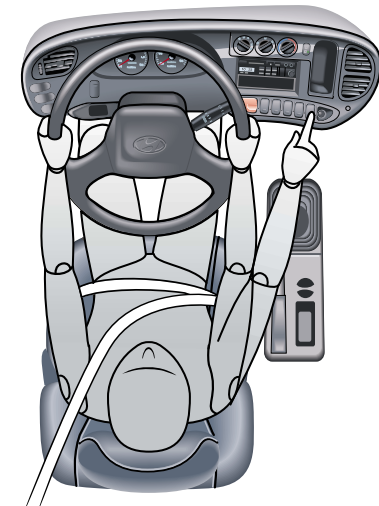
Large Room Lamp for the ample illumination



### Door Lamp Switch

Door-operated room lamp switch (DLX Trim only)

## Driver's Space for more comforts



### Cockpit Instrument

Ergonomically designed Cockpit type Instrument Panel



### Urethane Steering Wheel

Urethane steering wheel with tilt & telescopic function integrated



### Tilt and Telescopic Steering

Another Hyundai feature to give maximum driver efficiency and satisfaction is the standard adjustable steering wheel.

## ■ Comfortable Seat

HD45 features high back seats, built to support, comfort and reduce driving fatigue. The design includes built-in headrest and both sliding and reclining adjustment for the best driving position. The seats material for the deluxe semi-cloth seats and the practical simulated-leather seats are both attractive and durable.

Seat	HD45	Remarks
Seat Size (Width X Height)	490 x 790 mm	High Back Seat
Seat Reclining	38°	Max. angle in cab
Seat Sliding	150mm	10mm x 15 strokes



### □ Driver's Seat

The HD45 driver travels in maximum comfort with a wide, spacious bucket type seat featuring thicker cushions for excellent thigh supports. A built-in headrest, a three point ELR type safety seat belt, sliding and reclining features are basic functions to support driver's comfort and reduce driving fatigue.



### □ Reclining & Sliding Seat

The reclining and sliding functions of the seat are designed to fit the best of various driver's body conditions or driving positions.

## SEAT TRIM



Simulated Leather (STD Trim)



Semi-Cloth (DLX Trim)

## ■ *Minimized Efforts, Maximized Productivity*

Driving is a tough job, especially on the congested city streets. Because Hyundai engineers understand a driver with less fatigue yields more productivity, every detail have been carefully designed for HD 45 to minimize driver's efforts and fatigue.



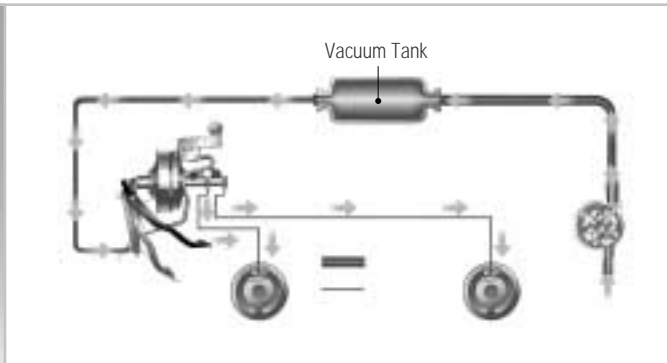
□ Clutch Pedal



□ 9"+10" Tandem Booster



□ 7ℓ Vacuum Tank



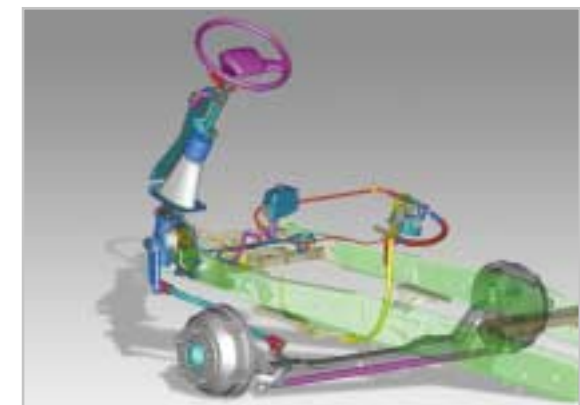
The efforts for pedaling the brake and clutch are significantly reduced thanks to 7 liters of vacuum tank and 9"+10" tandem booster as well as optimized angle of the pedals.

Pedal Effort	HD45	Competitor	Comparison
Brake Pedal	15 kg.f	20 kg.f	25% less
Clutch Pedal	10 kg.f	11 kg.f	10% less

### □ Power Steering System

With the Higher capacity of steering pump and gear, the minimum efforts are required for making turns in narrow city streets.

Power Steering	HD45
Steering Effort	2.6 kg.f
Steering Pump Capacity	9.6 cc/rev
Steering Gear Size	Ø 78



## ■ *Putting the Pleasure Back into Driving*

Have a pleasant and safe trip. Hyundai makes it possible with a skillfully engineered cabin that minimizes effort and fatigue. Accessibility is a key design challenge and here Hyundai engineers have used their talents to create an original and effective low entry solution. Using feedback from professional drivers, they created an optimum layout for all controls, switches and gauges. A very thorough program of post-design testing revealed that drivers reacted quicker and expressed greater satisfaction with the new instrument panel layout.

Because it delivers similar levels of silence and comfort to passenger sedans, the HD45 series can be ordered with a number of optional features such as air conditioning and premium audio systems to even further improve driver comfort and convenience.

Air Conditioning (Cooling Performance)	3,400 kcal/h
Heater (Heating Performance)	3,800 kcal/h
Climate Control Switch	Rotary Type



□ Rotary Type of HVAC Controls

### □ Air Control System

Dial controls make setting the optimum heating and ventilation levels effortlessly simple. A powerful fan and multiple outlets mean that all round freshness is guaranteed. Air conditioning is also optionally available.



#### ❑ Center Door Locks

A stylish and ergonomic safety and efficiency feature, the center door lock handles are available. (option)



#### ❑ Power Windows

Timer function integrated power windows is an additional convenience to the drivers spending long hours at the wheel. (Option)



#### ❑ Intermittent Wiper

Intermittent wiper offers convenient operation of wipers regardless of raining condition. (For DLX model)



#### ❑ Digital Clock

An easy-to-read digital clock is a standard for deluxe trim.



#### ❑ Heated Rear View Mirror

Enjoy perfect side visibility regardless of the weather outside. (Option)



#### ❑ H0425

Functional H0425 audio system is a standard for DLX model.



#### ❑ 2Way Door Speaker

High quality speakers enhance the enjoyable driving.



#### ❑ Glove Box

The capacious glove box is conveniently located in front of the co-driver and is ideal for keeping journey necessities out of sight.



#### ❑ Door Map Pocket

A generous size of storage space is placed at the lower door trim for holding maps or documents.



#### ❑ PET Holder

A large beverage holder is located in front of TGS lever. (For DLX model)



#### ❑ Ticket Holder

Ticket holder is conveniently applied as a standard on the fascia panel for keeping all tickets.



#### ❑ Foldable T.G.S Lever

The precise cable-operated gearshift features a lever with a protective rubber boot. Also it can be optionally folded to increase cabin convenience and access.

## ■ Easy Entry and Exit

Cab entry and exit was designed for easier than ever thanks to conveniently lowered door step and wide door opening angle.



Door Size (mm)	1150 X 1399
Door Opening Angle	70°
Step Height (mm)	495

## ETACS

ETACS achieves integrated control of timer and alarm functions thus maximizing convenience for the driver.

### Intermittent Wiper Operation

Depending on the rain condition, fully variable speed control of wiper operation is possible

### Simultaneous Activation of washer and wiper

Convenient one-touch-operation is enough for both washer fluid and wiper operation

### Power Window Timer

Power window is activating for 30 seconds more after the key is off.

### Seat Belt Warning

Reminding signal is activating for six seconds if seat belt is not fasten.

## The Foundation of Strength

For exceptional service, even under the most extreme working conditions, the new Super Frame is exceptionally tough and strong. Reinforced with web-jointed cross members, the result is no ordinary frame but one totally worthy of the Super Frame name. Even while traveling over unpaved roads under full payloads, flexing and torsional forces are kept to a minimum, preventing deformation of the vehicle body.



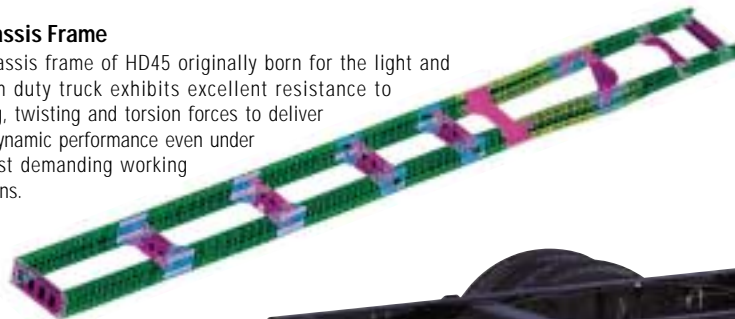
### □ Extra-Strong Frame

Heat-treated steel frame is reinforced with cross members and new bolt-type fasteners, which combine to improve resistance to frame twisting and flexing.

## CHASSIS & DECK

### □ Chassis Frame

The chassis frame of HD45 originally born for the light and medium duty truck exhibits excellent resistance to bending, twisting and torsion forces to deliver great dynamic performance even under the most demanding working conditions.



### □ Front & Rear Axle

The same front and rear axles of HD65 are applied for the new HD45, which are well known for its proven reliability and durability in both lab and fields.

Capacity	HD45	Competitor	Comparison
Front Axle	2,300 kg	2,500 kg	-200 kg
Rear Axle	4,200 kg	2,400 kg	+1,800 kg



Front



Rear

### □ High Capacity Leaf Type Suspension



The higher capacity leaf suspension of HD 45 exhibits outstanding durability and rigidity and maximize load carrying performance. The rear helper suspension system of HD45 differentiates it from other competitors, which improves the load distribution regardless of cargo carried.

Capacity	HD45	Competitor
Rear Helper Suspension	Available	N.A

### □ Radial Tires

The same size of front and rear tires is a key product concept of HD45 to provide better repair and maintenance convenience, which one size of tire can be replaced or repositioned for any side of tire.



6.50 x16 -10PR

6.5R16 -10PR

## ■ DECK

All new rigidity and spacious deck of HD 45 provides with more space for cargo and more productivity for business.

Deck	HD45 Short	HD45 Long	Competitor	
Length	3,175	3,460	3,400	+60
Width	1,790	1,790	1,650	+140
Gate Height	400	400	355	+45



### □ Tail Gate Lock

Sturdy bolt mechanism is easy and quick to operate plus provides secure locking action.



### □ Folding Side and Tail Gates

Side and tail gates drop down for easier cargo loading and unloading.



### □ Chain Support

The cargo bed can be extended by dropping the tail gate which is supported by a hardened steel chain.

# SAFETY

## Safety Builds Confidence

From the very first engineering designs, detailed safety measures were built into the HD45. Standard safety features include the high-tensile reinforced cab structure, advanced body design for a wider field of view, high capacity tandem booster and large size brake linings for secure braking performance.



### ■ Super Safety Cab



#### □ Reinforced Roof Ribs

The roof structure has been reinforced with steel ribs to provide the extra margin on the safety and the roll-over protection.



#### □ Single piece side body

Single piece design of a pillar contributes the overall rigidity of cab.



#### □ Extra Rigid Front Panel

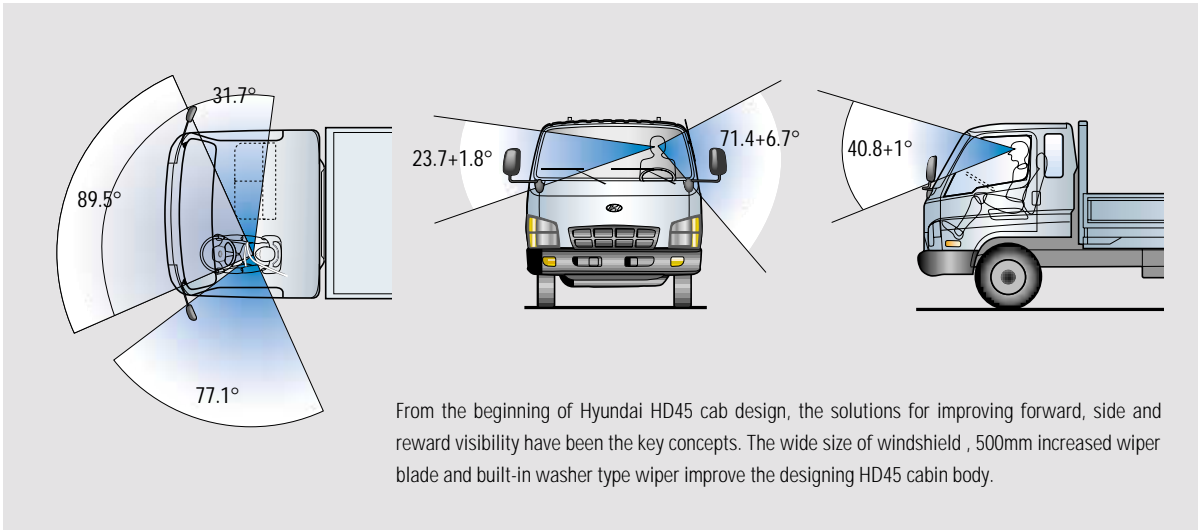
The injection of foam into the front pillar cavities contributes to the higher rigidity of front panel. The front panel is also reinforced with ribs to minimize deformation.



#### □ Robust Cab Structure

Various cross-section body panels and reinforced shield panels, one-bodied external panels are the key design concept for more stronger and robust cab structure.

## ■ Advanced Body design for improved visibility



### □ Improved night driving visibility

Bigger headlamps provide more lumens: Brighter is better for safer nighttime driving. Fog lamps add an extra margin of safety protection to help you see and be seen. All lighting switches are conveniently located for easy, quick access.

	High Beam	Low Beam
Max. Distance(m)	170	82
Max. Width(m)	20	16.5



### □ Increased wiper size

Increasing the size of the windshield provides a larger field of view while lengthening the wiper blades to 500mm and adding built-in heaters into the side view mirrors improves bad weather visibility. The wiper sweep area has been maximized to provide optimal visibility even under poor weather conditions.

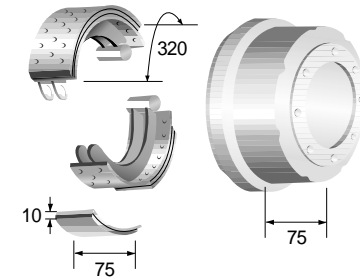


### □ Wide view outside Mirror

Large size of outside mirrors contribute to provide with the wide-enough rearward visibility and minimize the blind spots.

	HD45	Competitor	Comparison
Height	310 mm	255 mm	+ 55 mm
Width	195 mm	194 mm	+ 1 mm

## ■ Excellent Brake Performance



### □ Increased Brake Lining Size

Brake drum linings are larger for additional friction and better braking performance, and reliability and durability.

Brake Lining	HD45	Competitor	Comparison
Length	320 mm	220 mm	+ 100mm
Width	75 mm	57 mm	+ 18mm



### □ L.S.P.V (Load Sensing Proportional Valve)

Optional load sensing proportional valve is an automatic braking force distributor between front and rear brake system subject to the conditions of cargo loading and provides the best condition of the braking performance and safety.



### □ Automatic Adjuster

Automatic slack adjuster provides the optimal brake performance by maintaining the constant gap between brake drum and linings and this also save the maintenance cost and effort as well. (Optional)

## ***Power and Reliability***

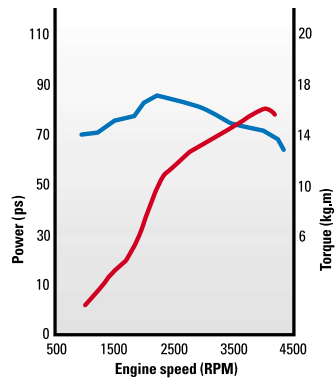
The Hyundai D4BB diesel engine delivers the powerful performance, combined with exceptional reliability and durability, which makes Hyundai trucks so appealing.

For the new HD45, the D4BB engine has been upgraded by increasing the engine oil pan size, and using more durable material for the timing belt and 90Amp capacity alternator, so improving both durability and reliability.

# ***POWERTRAIN***



## Smart Diesel Engine , D4BB (T2)



The 2.6 liter natural aspiration diesel engine, D4BB, delivers 80ps of the maximum power output and 17kg.m torque. It produces the strong power as well as great fuel efficiency and smooth operation.

Max. Power: 80ps/4,000rpm

Max. Torque: 17kg.m/2,200rpm

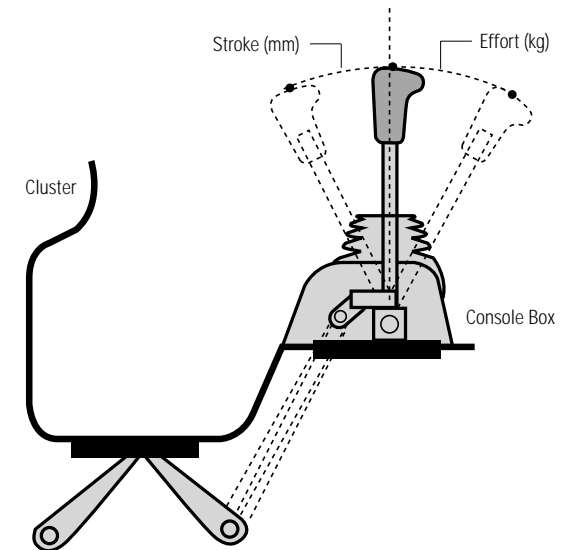
## Advanced 5 Speed Manual Transmission

The new HD45 truck has advanced 5 speed manual transmission for the improved gear shifting and power delivering. Multi-cone synchronizers in every step of gear contribute the smooth gear shifting effort and improve the durability of transmission.



### TGS System

Transmission gear shift system has been redesigned for reduced travel between shifts. A new cable linkage and short-throw lever design provides fast and easy gear shifts. Shifting quality has been improved dramatically. One of the reasons is a new shift mechanism. The shift throw distance is now shorter, more solid and precise thanks to the adoption of a cable mechanism which replaces rod links.



# MAINTENANCE

## *Hyundai Keeps You Up and Running*

For the business truck it is self-evident that regular preventive maintenance reduces the cost of service and increases operating revenue. For this reason Hyundai trucks are designed for simpler and easier regular service and maintenance.

The convenient 45 degree forward cab tilting mechanism provides wide and easy access to the engine compartment. Regular inspection items such as the coolant reservoir the washer fluid tank and the brake fluid reservoir etc., are positioned and designed for easy inspection and replenishment.

The remote engine starter on the chassis, the service lamp and electric circuit are all extra design features to help facilitate ease of maintenance and repair jobs, both day and night.

Finally, all Hyundai trucks are backed up by Hyundai commitment to the first-class customer care and their outstanding parts distribution network.

So as a Hyundai truck owner, you can be sure that Hyundai is always ready to keep you up and running.





### □ Auxiliary Starter

A remote starter switch is conveniently located by the engine to facilitate engine repair and maintenance work.



### □ Maintenance Lamp and Switch

The maintenance lamp and switch are located right beside the battery for improved convenience during night time repairs.



### □ Fuse Box

Conveniently installed under the instrument panel, the fuse box enables quick and easy check-ups on the electrical system.



### □ Radiator Reservoir

Installed on the inner side of the fender, the radiator reservoir is easily checked and replenished.



### □ Tool Box

Tool box provides easy and convenient access to tools.



### □ Cab Tilting Mechanism

For easier and convenient maintenance and repair, the truck cab tilts to a convenient 45 degree forward.



### □ Washer Tank

The washer reservoir is mounted in a safe and secure location outside the rear panel where it can be easily checked and replenished without worry about spills and leaks.

## ■ More Engine Compartment Space



Engine repair and maintenance is easier than ever thanks to the tilting mechanism of cab mounting and the roomy layout of the engine compartment. The wide width between frames enables easy and convenient maintenance of the engine and auxiliary systems. (starter, alternator, power steering pump, oil and fuel filters)

### □ Engine Repairs for competitor's model.

For some of major competitor models, the engine repair and maintenance works are not likely as the jobs for HD45. For these models, the engine repair works are done through the inside of cab and the accessibility to the engine room is inconveniently limited, due to the restriction of non-tilting type of cab structure.



# ORDERING Specifications

ITEM	General				Middle East				REMARK	
	Drive Type	4x2				4x2				
	Cab Width	Narrow				Narrow				
	Seating Capacity	3				3				
	Wheel Base	Short		Long		Short		Long		
Trim Level	STD	DLX	STD	DLX	STD	DLX	STD	DLX		
<b>GENERAL</b>	<b>GENERAL</b>									
	- CHASSIS CAB	S	S	S	S	S	S	S	S	
<b>ENGINE &amp; CHASSIS</b>	<b>ENGINE</b>									
	- D4BB (T2 ENGINE)	S	S	S	S	S	S	S	S	
	- EURO 1 EMISSION CERTIFIED	S	S	S	S	S	S	S	S	
	<b>A.C.S</b> (Altitude Compensation System)	#O	#O	#O	#O	-	-	-	-	
	<b>NOISE COVER</b>	#-	#-	#-	#-	#-	#-	#-	#-	
	- ENG & CAB SIDE COVER	S	S	S	S	S	S	S	S	
	<b>COOLING FAN</b>									
	- FIXED TYPE	#-	#-	#-	#-	#-	#-	#-	#-	
	- AUTO CLUTCHED TYPE	#S	#S	#S	#S	#S	#S	#S	#S	
	<b>AIR CLEANER</b>									
	- DRY PAPER TYPE	S	S	S	S	S	S	S	S	
	- SNORKEL TYPE	S	S	S	S	S	S	S	S	
	<b>FUEL TANK</b>									
	- 65 L	S	S	S	S	S	S	S	S	
	- LOCK'G CAP	S	S	S	S	S	S	S	S	
	<b>FUEL FILTER</b>									
	- CARTRIDGE TYPE	S	S	S	S	S	S	S	S	
	<b>WATER SEPARATOR</b>	S	S	S	S	S	S	S	S	
	<b>STARTER</b>									
	- 12V- 2.2 KW	S	S	S	S	S	S	S	S	
	<b>COLD STARTING DEVICE</b>	#S	#S	#S	#S	-	-	-	-	
	<b>PREHEAT'G SYSTEM</b>									
	- GLOW PLUG	S	S	S	S	S	S	S	S	
	<b>MF BATTERY</b>									
	- 100AH	S	S	S	S	S	S	S	S	
	<b>ALTERNATOR</b>									
	- 12V-90A	S	S	S	S	S	S	S	S	
	<b>NON-ASBESTOS</b>	S	S	S	S	S	S	S	S	
	<b>CLUTCH</b>									
	- SIZE 240 MM	S	S	S	S	S	S	S	S	
	<b>TRANSMISSION</b>									
	- RT10	S	S	S	S	S	S	S	S	
	<b>T/M P.T.O</b>	O	O	O	O	O	O	O	O	
	- T/ M P.T.O SW	O	O	O	O	O	O	O	O	
	<b>T.G.S</b>									
	- FLOOR SHIFT	S	S	S	S	S	S	S	S	
	- MANUAL SHIFT	S	S	S	S	S	S	S	S	
	- FOLD'G TYPE	-	O	-	O	-	O	-	O	
	<b>REAR AXLE</b>									
	- 6.666	#O	#O	#O	#O	-	-	-	-	
	- 5.714	S	S	S	S	S	S	S	S	



ITEM	General				Middle East				REMARK
	4x2				4x2				
	Narrow				Narrow				
	3				3				
	Short		Long		Short		Long		
Trim Level	STD	DLX	STD	DLX	STD	DLX	STD	DLX	
<b>ENGINE &amp; CHASSIS</b>									
<b>TIRE (FRT &amp; RR)</b>									
- 6.50x16 -10PR , Black Wheel	S	S	S	S	S	S	S	S	
- 6.50R16 -10PR, Black Wheel	O	O	O	O	O	O	O	O	
- 6.50R16 -10PR, Silver Wheel	O	O	O	O	O	O	O	O	
<b>SPARE TIRE CARRIER, WHEEL &amp; TIRE</b>	O	S	O	S	O	S	O	S	
<b>FRONT SUSPENSION</b>									
- LEAF SPRING WITH SHOCK ABSORBER	S	S	S	S	S	S	S	S	
<b>REAR SUSPENSION</b>									
- LEAF SPR'G	S	S	S	S	S	S	S	S	
<b>STEERING WHEEL</b>									
- TILT/TELESCOPIC / LOCK	S	S	S	S	S	S	S	S	
<b>STEERING SYSTEM</b>									
- MANUAL STEER'G	S	S	S	S	S	S	S	S	
- POWER STEER'G	O	O	O	O	O	O	O	O	
<b>BRAKE</b>									
- V.A.H TYPE	S	S	S	S	S	S	S	S	
- DRUM BRAKE (FRT & RR)	S	S	S	S	S	S	S	S	
- AUTO ADJUSTER (FRT & RR)	O	O	O	O	O	O	O	O	
<b>L.S.P.V</b>	O	O	O	O	O	O	O	O	
<b>PARKING BRAKE (LEVER TYPE)</b>	S	S	S	S	S	S	S	S	
<b>DECK</b>									
- STEEL	O	O	O	O	O	O	O	O	
- FLAT TYPE	O	O	O	O	O	O	O	O	
- STD WIDTH	O	O	O	O	O	O	O	O	
<b>RR GUARD</b>	O	S	O	S	# -	S	# -	S	
<b>SIDE &amp; TAIL GATE</b>									
- STEEL	O	O	O	O	O	O	O	O	
<b>EXTERIOR</b>									
<b>CAB WIDTH</b>									
- NARROW CAB	S	S	S	S	S	S	S	S	
<b>CAB LENGTH</b>									
- STD CAB	S	S	S	S	S	S	S	S	
<b>SEAT'G CAPACITY</b>									
- 3	S	S	S	S	S	S	S	S	
<b>CAB MOUNTING</b>									
- RIGID TYPE	S	S	S	S	S	S	S	S	
- SEMI FLOAT'G TYPE	-	O	-	O	-	O	-	O	
- CAB TILTING MECHANISM (MANUAL)	S	S	S	S	S	S	S	S	
<b>W / SHIELD GLASS</b>									
- CLEAR	S	S	S	S	S	S	S	S	
- TINTED & UPPER PARTIAL	O	O	O	O	O	O	O	O	
<b>SIDE GLASS</b>									
- TINTED	S	S	S	S	S	S	S	S	

# ORDERING Specifications

ITEM	General				Middle East				REMARK
	4x2				4x2				
	Narrow				Narrow				
	3				3				
	Short		Long		Short		Long		
STD	DLX	STD	DLX	STD	DLX	STD	DLX		
<b>EXTERIOR</b>									
<b>O/S/R/V MIRROR &amp; U/V MIRR</b>									
- STD TYPE	S	S	S	S	S	S	S	S	
- HEAT'G MIRROR	O	O	O	O	O	O	O	O	
<b>BUMPER</b>									
- GENERAL BUMPER	S	S	S	S	S	S	S	S	
- BODY COLOR	O	O	O	O	O	O	O	O	
<b>FRONT RADIATOR GRILL</b>									
- GENERAL TYPE	S	S	S	S	S	S	S	S	
- CHROME COATED	-	O	-	O	-	O	-	O	
<b>FRONT MUD GUARD &amp; FLAP</b>	S	S	S	S	S	S	S	S	
<b>DOOR STEP</b>									
- AL STEP	-	S	-	S	-	S	-	S	
- STEEL STEP	S	-	S	-	S	-	S	-	
<b>BAND STRIPE</b>	-	S	-	S	-	S	-	S	
<b>TOWING HOOK</b>									
- FRONT	S	S	S	S	S	S	S	S	
- REAR	O	O	O	O	O	O	O	O	
<b>TOOL BOX</b>	S	S	S	S	S	S	S	S	
<b>INTERIOR</b>									
<b>INTERIOR TRIM</b>									
- LOW TRIM	S	-	S	-	S	-	S	-	
- SEMI TRIM	-	S	-	S	-	S	-	S	
- FULL TRIM	-	O	-	O	-	O	-	O	
<b>DOOR POCKET (DR'S &amp; PA'S)</b>	S	S	S	S	S	S	S	S	
<b>CLUTCH PEDAL FOOT REST</b>	S	S	S	S	S	S	S	S	
<b>FLOOR MAT</b>	S	S	S	S	S	S	S	S	
<b>FORMED TYPE HEAD LINIG</b>	S	S	S	S	S	S	S	S	
<b>TICKET HOLDER</b>	S	S	S	S	S	S	S	S	
<b>PET HOLDER</b>	-	S	-	S	-	S	-	S	
<b>GLOVE BOX</b>	S	S	S	S	S	S	S	S	
<b>HAND GRIP (DR'S &amp; PA'S)</b>	S	S	S	S	S	S	S	S	
<b>ASSIST GRIP (DR'S &amp; PA'S)</b>	S	S	S	S	S	S	S	S	
<b>ASH TRAY (ON INSTRUMENT)</b>	S	S	S	S	S	S	S	S	
<b>WOOD GRAIN (FACIA &amp; DOOR TRIM)</b>	O	S	O	S	O	S	O	S	
<b>INSIDE REAR VIEW MIRROR</b>	O	S	O	S	S	S	S	S	
<b>SUNVISOR</b>									
- DR'S	S	S	S	S	S	S	S	S	
- PASSENGER'S	O	S	O	S	O	S	O	S	
<b>FIRE EXTINGUISHER</b>	O	O	O	O	O	O	O	O	
<b>SEATS</b>									
<b>DR'S SEAT MECHANISM</b>									
- SLIDING & RECLINING	S	S	S	S	S	S	S	S	
- FIXED SEAT SUSPENSION	S	S	S	S	S	S	S	S	
<b>PA'S SEAT</b>									
- BENCH TYPE SEAT	S	S	S	S	S	S	S	S	



# TECHNICAL Specifications

ITEM	MODEL	HD45
<b>Engine</b>		
General	Model	D4BB
	Type	Natural Aspiration, 4 Stroke Cycle, Water-Cooled, Indirect-injection Diesel Engine
	Number of Cylinder	4
	Piston Displacement (cc)	2,607
	Bore x Stroke (mm)	91.1 x 100
	Compression Ratio	22.0 : 1
	Max. Power (ps/rpm)	80 / 4,000
	Max. Torque (kg.m/rpm)	17 / 2,200
Emission Level	Euro 1	
Valve System	Single Overhead Camshaft, Two Valves per Cylinder	
Fuel System	Bosch distributor system with mechanical type governor	
Cooling System	General	Water cooling type with thermostat, forced circulations by centrifugal pump
	Cooling Fan	Suction Type
	Radiator	Corrugated fin and tube type with pressure cab and condenser tank
Lubrication System	General	Forced Lubrication by gear pump
	Oil Filter	Combination (Full flow and bypass) filter with paper element
	Oil Pan Capacity	7.3 liters
Electrical System	Battery	MF 12V -100AH x 1
	Start motor Capacity	12V - 2.2 kw
	Alternator Capacity	12V - 90A
<b>Clutch</b>		
Type	Hydraulic control , Diaphragm spring , Single dry plate, Pre-Damper or Non Pre-Damper	
Facing Material	Non- Asbestos	
Facing Size (Outside diameter, mm)	240	
<b>Transmission</b>		
Model	RT-10 (Reinforced)	
Type	Floor Shift, 5 Speed Manual (5 Forward & 1 Reverse)	
Gear Ratio	1st	5.192
	2nd	2.621
	3rd	1.536
	4th	1.000
	5th	0.865
	Reverse	4.432
<b>Front Axle</b>		
Type	Reverse Eliot Type I Beam	
Capacity (kg)	2,300	

ITEM	MODEL	HD45	
<b>Rear Axle</b>			
Model	D2H		
Type	Full Floating		
Capacity (kg)	4,100		
Final Reduction Gear Ratio	5.714		
<b>Tire &amp; Wheel</b>			
Type	Rear Dual		
Tire	Front	6.50x16-10 PR (OPT:6.50R16-10 PR)	
	Rear	6.50x16-10 PR (OPT:6.50R16-10 PR)	
<b>Steering</b>			
General	2-Spoke, Ball-nut type, tilt and telescopic steering column		
Steering Wheel Diameter	Manual : 430mm, Power Steering : 410mm		
<b>Brake</b>			
Service Brake	Type	Hydraulic with vacuum servo assistance. dual circuit	
	Lining Size	Front	Drum Type , Ø320 x 75 x 10 mm
		Rear	Drum Type , Ø320 x 75 x 10 mm
	Vacuum Reservoir	7 liters	
	Brake Booster	9" + 10" Tandem Booster	
Auto Adjuster	Front & Rear	Option	
Parking Brake	Type	Integral expanding type on propeller shaft at rear of transmission	
	Size	CTR Parking , Ø180 x 35 x 5.5 mm	
<b>Suspension</b>			
Type	Semi-elliptic laminated leaf springs on front & rear axle		
Spring Size (Length x Width x Thickness- Number of leaves)	Front	1,200 x 70 x 10t-2,11t-2	
	Rear	Main	1,250 x 70 x 10t-2,11t-2
		Helper	990 x 70 x 11t-3
Shock Absorber	Hydraulic double acting, telescopic type on front axle		
<b>Fuel tank</b>			
Capacity (liter)	65		
<b>Frame</b>			
Main side rail (H x W x t, mm)	183 x 65 x 6t		

ITEM	MODEL	HD45			
	Cab	Type	Narrow		Narrow
	Width	1,760		1,760	
	Tilting Mechanism	Tilting Type		Tilting Type	
Wheel Base		Short		Long	
Vehicle Type		Cargo	C/Cab	Cargo	C/Cab

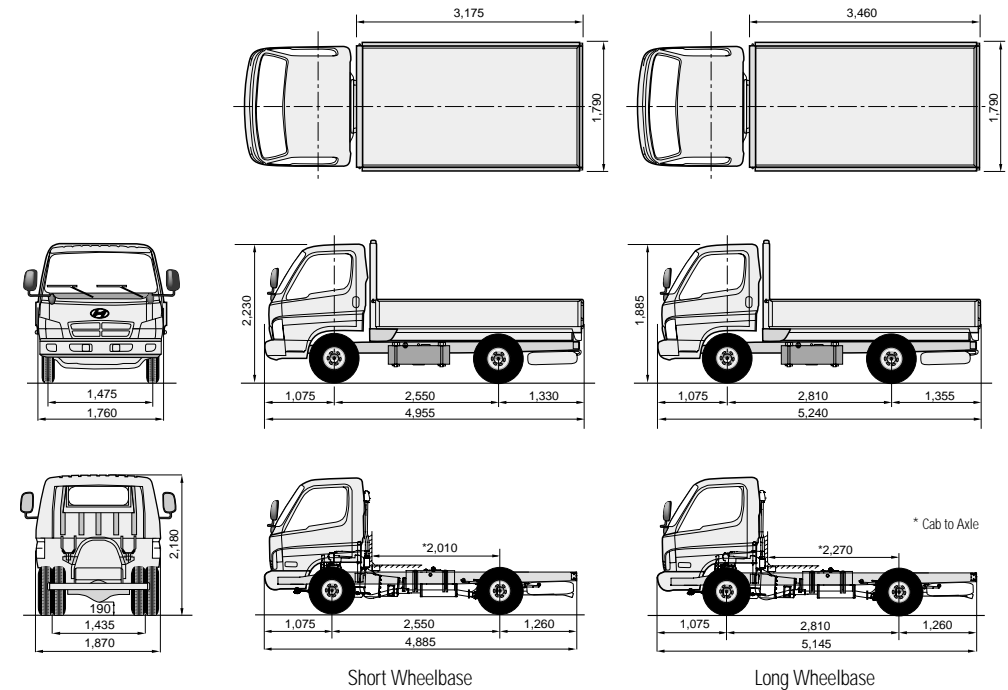
Dimensions (mm) - Approximate					
Wheel Base		2,550		2,810	
Overall	Length	4,955	4,885	5,240	5,145
	Width	1,885	1,870	1,885	1,870
	Height	2,230	2,180	2,230	2,180
Wheel Tread	Front	1,475			
	Rear	1,435			
Overhang	Front	1,075	1,075	1,075	1,075
	Rear	1,330	1,260	1,355	1,260
Deck Size	Length	3,175	-	3,460	-
	Width	1,790	-	1,790	-
	Height	400	-	400	-
Min. Ground Clearance		190			

Weight (kg)					
Curb Weight		2,180	1,870	2,230	1,880
	Front	1,260	1,225	1,290	1,230
	Rear	920	645	940	650
Max. Gross Vehicle Weight**		4,500			
	Front	1,840			
	Rear	2,660			

Calculated Performance					
Max. Speed	km/h	114			
Max. Gradeability	tan θ	0.304			
Min. Turning Radius	m	5.4		5.9	

\*\* Max. GVW includes the front & rear axle loads based on the permissible tire load.

## □ LINE-UP & DIMENSIONS



## □ COLOR GUIDE



BK (Blue)



NW (Noble White)



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