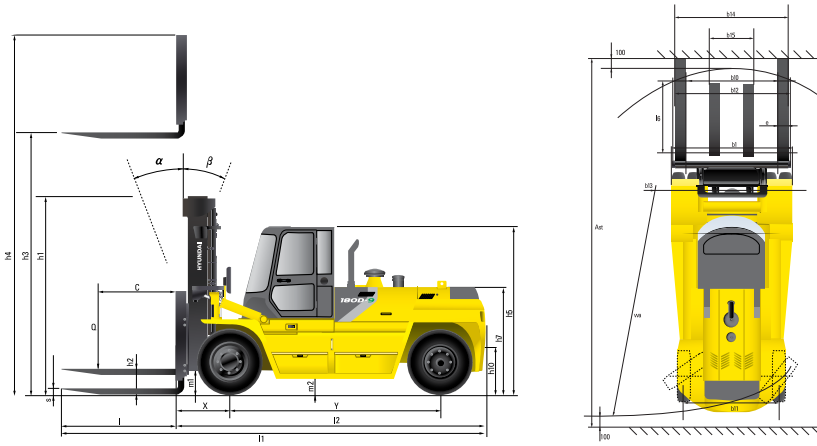


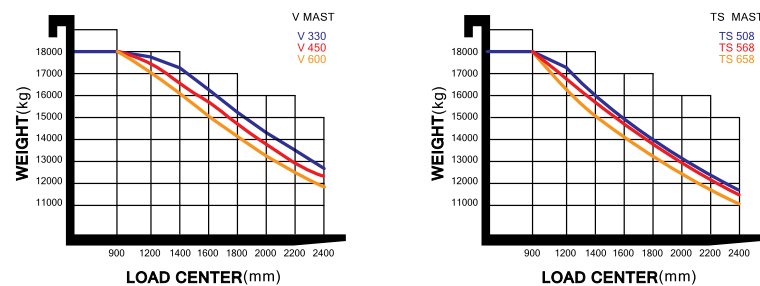
## Dimension



## Mast Specification

Mast Type	Maximum Fork Height(mm)	Overall Height Lowered(mm)	Tilt Angle (deg) Fwd / Bwd	Load Capacity (1,200mm LC)(kg)	Truck Weight Unloaded(kg)	
SIMPLEX MAST	V300	3,020	3,200	10 / 10	18,000	25,966
	* V330	3,320	3,350	10 / 10	18,000	26,094
	V350	3,520	3,450	10 / 10	18,000	26,170
	V400	4,020	3,700	10 / 10	18,000	26,541
	V450	4,520	3,950	10 / 10	18,000	26,687
	V500	5,020	4,200	10 / 10	18,000	27,064
	V550	5,520	4,450	10 / 10	18,000	27,278
	V600	6,020	4,700	10 / 10	18,000	27,493
	V650	6,520	4,950	10 / 10	18,000	27,690
	V700	7,020	5,200	10 / 10	18,000	27,880
TRIPLEX MAST	TS460	4,634	2,950	10 / 10	18,000	27,350
	TS508	5,084	3,100	10 / 10	18,000	27,522
	TS538	5,384	3,200	10 / 10	18,000	27,693
	TS568	5,684	3,300	10 / 10	18,000	27,785
	TS600	6,044	3,420	10 / 10	18,000	27,922
	TS658	6,584	3,600	10 / 10	18,000	28,116
	TS700	7,034	3,750	10 / 10	18,000	28,265

## Load Capacity



## Optional Items

- Fork(L x W x T)(mm)
  - 1) SLIDING, LUMBER, HOLDER TYPE : 1800 x 250 x 100 / 2000 x 250 x 100 / 2450 x 250 x 100 / 3150 x 250 x 100
  - 2) SHAFT TYPE : 2450 x 250 x 100 / 2600 x 250 x 100 / 2750 x 250 x 100
- MCV : 6-SPOOL
- Air compressor
- Hands free
- Air Conditioner & Heater
- Load indicator
- Separator holder type fork carriage
- Beacon lamp
- Rear view camera

**HYUNDAI**  
CONSTRUCTION EQUIPMENT

Head Office (Sales office)

First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

## Specification

Identification		
1.1	Manufacturer	HYUNDAI
1.2	Manufacturer's type designation	180D-9
1.3	Drive : electric(battery or mains) ,diesel, petrol ,fuel gas, manual	DIESEL
1.4	Type of operation : hand, pedestrian, standing, seated, order - picker	seated
1.5	Load capacity / rated load	kg 18,000
1.6	Load center distance	c mm 900
1.8	Load distance, center of drive axle to fork	x mm 999
1.9	Wheelbase	y mm 3,750

Weights		
2.1	Service weight	kg 26,094
2.2	Axle loading, loaded front / rear	kg 39,966 / 4,285
2.3	Axle loading , unloaded front / rear	kg 12,851 / 13,400

Wheels, Chassis		
3.1	Pneumatic	Pneumatic
3.2	Tires size, front( $\phi$ x width)	12.00 - 20 - 20PR
3.3	Tires size, rear( $\phi$ x width)	12.00 - 20 - 20PR
3.5	Wheels, number front rear(x = driven wheels)	4 x 2
3.6	Track width, front	mm 1,860
3.7	Track width, rear	mm 2,300

Basic Dimensions		
4.1	Mast / fork carriage tilt forward / backward	degrees 10 / 10
4.2	Lowered mast height	h1 mm 3,350
4.3	Lift height	h3 mm 3,320
4.4	Extended mast height	h4 mm 4,960
4.5	Overhead guard (cab) height	h5 mm 2,990
4.6	Seat height / Standing height	h7 mm 2,150
4.7	Coupling height	h10 mm 610
4.8	Overall length	l1 mm 8,045
4.9	Length to face of forks	l2 mm 5,595
4.10	Overall width	b1 mm 2,540
4.11	Fork dimensions	s / e / l mm 100 x 250 x 2,450
4.12	Fork - carriage width	b3 mm 2,950
4.13	Ground clearance, loaded, under mast	m1 mm 245
4.14	Ground clearance, centre of wheelbase	m2 mm 370
4.15	Aisle width for pallets 1,000 x 1,200 crossways	Ast mm 8,983
4.16	Aisle width for pallets 800 x 1,200 lengthways	Ast mm 8,983
4.17	Turning radius	Wa mm 5,220
4.18	Smallest pivot point distance	mm 2,048

Performance Data		
5.1	Travel speed, unloaded	km/h 37.5
5.2	Lift speed, loaded/ unloaded	mm/s 370 / 420
5.3	Lowering speed, loaded/unloaded	mm/s 420 / 300
5.5	Drawbar pull, Loaded	KN 150
5.7	Gradient performance, Loaded	% 31.1
5.10	Service brake	Wet, Hydraulic

Engine		
6.1	Engine manufacturer / type	BENZ(MTU)
6.2	Engine power acc. to ISO 1585	kW 210
6.3	Rated speed	1/min 2,200
6.4	No. of cylinder / cubic capacity	/cm <sup>3</sup> 7,700
6.5	Fuel consumption acc. To VDI cycle	l /h 14.8

Other Details		
8.1	Type of drive control	Power Shift
8.2	Operating pressure for attachments(system/attach)	240 / 160
8.3	Oil volume for attachments	270
8.4	Sound level at driver's ear according to DIN 12 053	76.9

**Air Conditioning System**  
The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a.  
(Global Warming Potential : 1430)  
The system hold 0.55kg refrigerant consisting of a CO<sub>2</sub> equivalent 0.79kg metric tonne. For more information, Please refer to the manual.

PLEASE CONTACT

www.hyundai-ce.com

2017. 11 Rev. 4

# 180D-9

Performance Enhanced For Tier-4 Final

MOVING YOU FURTHER

HYUNDAI CONSTRUCTION EQUIPMENT



**HYUNDAI**  
CONSTRUCTION EQUIPMENT

Some of the photos may include optional equipment.



# Your satisfaction is our priority!

Hyundai introduces a new line of 9-series diesel forklift trucks. The newly designed 4 wheel counterbalance trucks provide every operator comfortable driving, increased productivity and easy maintenance.

## New Diesel Forklift with Proven Quality and Advanced Technology

- Maximum performance
- Spacious operator's cab
- Load indicator
- OPSS system for safe operation
- Easy serviceability
- Hi-mate (Remote Management System)



Some of the photos may include optional equipment.



# High Efficiency & Optimal Performance



Powerful engine and high technology systems provide you with enhanced performance and highest productivity.

**180D-9**



Some of the photos may include optional equipment.

## Benz(MTU) OM936(6R1000) Engine

210KW/2,200rpm  
117kgf.m/1,400rpm



### Powerful Engine

The six cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA Tier 4 and EU stage IV emission regulation.

### Excellent fuel efficiency

Fuel consumption rate is improved than previous model.

### SCR (Selective Catalytic Reduction)

No DPF and no DOC required

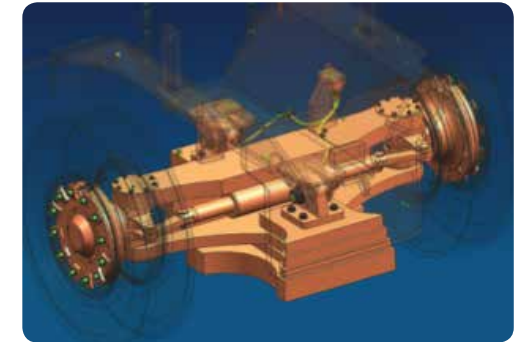
### EGR(Exhaust Gas Recirculation)

- High torque at low speeds
- Excellent transient behavior



### ZF Full-automatic Transmission

Full-automatic transmission gives easy, convenient handling and soft, smooth shifting. The operator can select two kinds of automatic modes.(1st 3rd, 2nd 3rd)  
Improved Torque converter with stator free wheel provides you fuel efficiency compared with old model for 4%.



### Fully Hydrostatic Power Steering

The hydraulic steering system always guarantees smooth and flexible steering, preventing over-run and kick-back.

### Load Sensing System

Only flow required on cylinders is supplied. It makes energy saving. (No excessive flow)

### Kessler Durable drive axle

The planetary reduction drive axle smoothly delivers desired torque to the drive wheels.



### Wet Disc Brake System

The wet disc brake system is virtually maintenance free and is enclosed to protect from dust and water.



### Increased mast tilting angle

Utilizing the mast tilting angle of 10 degrees forward and 10 degrees backward, the operator can perform loading and unloading jobs safely and rapidly.



Max.Gradeability (loaded/Unloaded)		Max.Travel Speed (Unloaded)	
Model	%	Model	Km / h
180D-9	31.1 / 30.4	180D-9	37.5

### Faster Travel Speed & Better Gradability

The powerful engine provides greater acceleration, better gradability and faster travel speed on any tough terrains or slopes.



# Best Convenience & Optimised Ergonomics



The ergonomically designed cabin provides full support and comfort to the operator.

**180D-9**



Some of the photos may include optional equipment.

## Spacious operator cabin

The newly designed cabin was conceived for more space, a wider field of view and operator comfort.



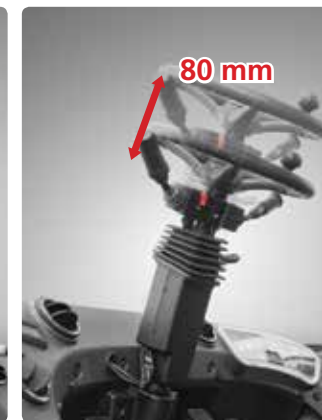
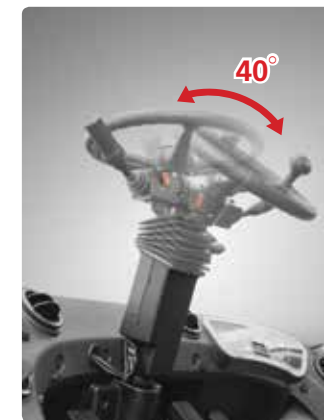
## Quick Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control.  
(5-Lever, 6-Function : Standard)  
(5-Lever, 7-Function : Option)



## Ergonomically positioned pedals

Based on human engineering the accelerator, brake and inching pedals are optimally positioned for the operator's convenience.



## Top-Wiper (STD)

Secure a clear visibility on the roof

## Adjustable steering column

Steering handle is adjustable depending on the operator's body shape. Adjustability of steering column makes you more comfortable.



MP3 CD Player & Remote Control



Bluetooth Hands Free Socket (Option)

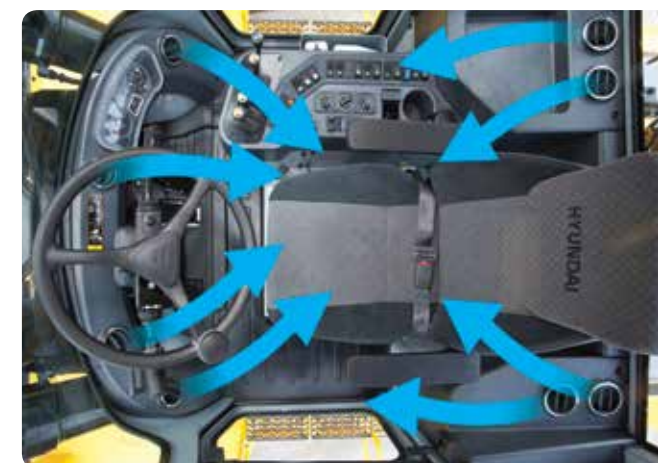


Centralized Instrument switch Panel



## Luxury(Air-suspension+Heat+HeadRest) seat(Option)

An attractive and adjustable seat, based on a human engineering design, provides great comfort, safety and durability.



## High-output Air Conditioner & Heater

An air conditioner with integrated the condenser is mounted on upper side of the cabin to make a wide room in the cabin. And an air conditioner with high-output and heater always provide you with comfortable environment when you work.



# Advanced Safety



The safely designed driver's space makes your operating more comfortable.

**180D-9**



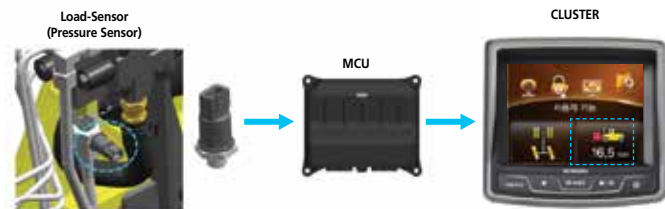
### Alternate torque

The optional load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded.



### Adjustable Engine Low Idle RPM

While engine runs, low idle rpm can be increased by unit of 25rpm and it keeps previously set rpm when engine restarts.



### Load indicator

The optional load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded.

### OPSS (Operator Presence Sensing System)

When the operator is not in the seat all mast and drive movements are impossible.

Lift Lock   Tilt Lock   Drive Lock



Some of the photos may include optional equipment.



### Up-to-date Cooling System

The minimum fuel consumption and low noise are available by applying hydraulic cooling fan sensing intake air temperature, transmission oil temperature, coolant temperature and hydraulic temperature.



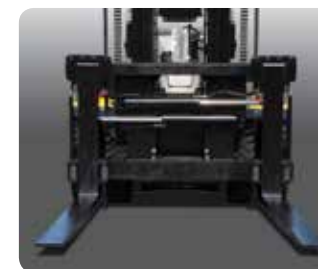
### Cabin Tilting Automatic System

Cabin tilting automatic system makes servicing of all power train components quick and easy. An electrically assisted hydraulic actuated cylinder tilts operator cabin to left side about 65 degrees for easy access to inside of truck components.



### Rear Tire cover

The Rear tire cover with PE material is equipped to prevent clogging of the radiator from foreign substances.



### Highly durable Carriage

The carriage is very strong cause of applying the high tensile structural steel which has a excellent durability.



### Large footboard & Handle

Wide "open" step offers convenience and safety when entering and exiting the truck.



### Excellent Night Work

- Various position of work lamp provides the operator more comfortable and safe operating environments.  
- Front : fender(2), mast(4) - Rear : cab(2)  
- LED Rear Combination Lamp





# Fast and Easy Maintenance

An ideal arrangement of components ensures easy access and convenience for maintenance.

**180D-9**



**Large Engine Hood**  
Highly accessible engine compartment assures fast and efficient maintenance.

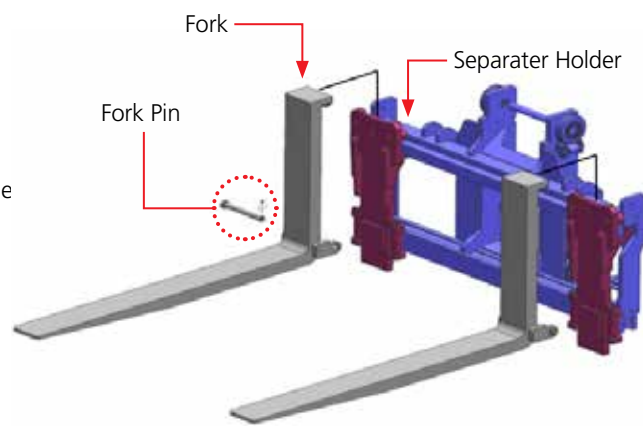
Some of the photos may include optional equipment.



**Easy Change Air Cleaner**  
This air filter is readily accessible for cleaning or replacement.



**Cabin Air Fresh Filter**  
The internal pressure is maintained to be slightly higher than that of outside to exclude dust and to reduce noise levels.



**Separator holder type Fork Carriage(Optional)**  
To improve handling and easily switch forks and other attachment Separator holder system is adopted as option. It is possible to install various attachments like coil ram easily.



**Hi-mate (Remote Management System)**  
Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access.



**Rear View Camera (Option)**  
The rear view camera makes the operation more easy and convenient. And it supports 4camera channels.



Some of the photos may include optional equipment.



**Master Switch**  
A master switch disconnects the battery power to protect the electrical system from excess electrical drainage.



**Maintenance Management Display**



**Engine Start Limit**