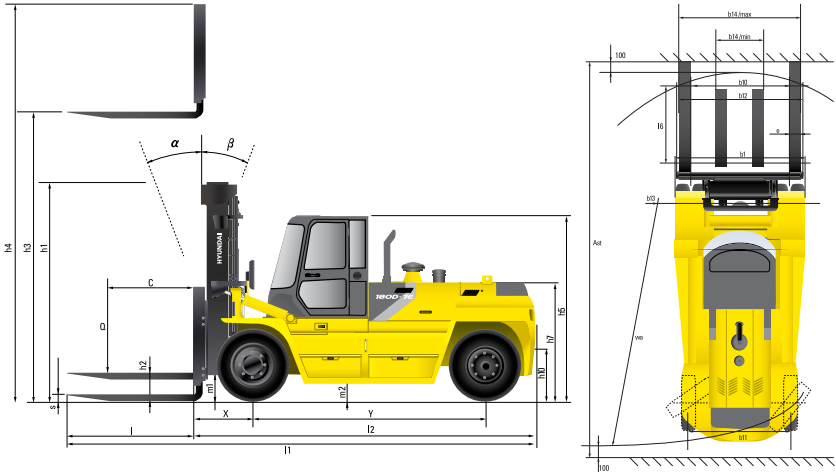


Dimension

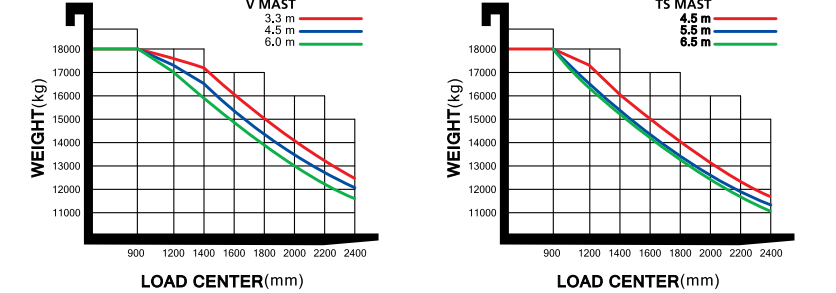


Mast Specification

| Mast Type                 |               | Maximum Fork Height (mm) | Overall Height Lowered (mm) | Tilt Angle (mm) | Load Capacity (900mm LC) (kg) | Truck Weight Unloaded (kg) |
|---------------------------|---------------|--------------------------|-----------------------------|-----------------|-------------------------------|----------------------------|
| 2-Stage Limited Free Lift | V300 / * V330 | 3,020 / 3,320            | 3,250 / 3,400               | 10 / 10         | 18,000                        | 25,577 / 25,689            |
|                           | V350 / V400   | 3,520 / 4,020            | 3,500 / 3,750               |                 |                               | 25,764 / 25,694            |
|                           | V450 / V500   | 4,520 / 5,020            | 4,000 / 4,250               |                 |                               | 26,140 / 26,365            |
|                           | V550 / V600   | 5,520 / 6,020            | 4,500 / 4,750               |                 |                               | 26,555 / 26,781            |
|                           | V650 / V700   | 6,520 / 7,020            | 5,000 / 5,250               |                 |                               | 26,986 / 27,174            |
| 3-Stage Full Free Lift    | TS450 / TS460 | 4,515 / 4,634            | 2,950 / 2,950               | 10 / 10         | 18,000                        | 26,661 / 26,683            |
|                           | TS496 / TS538 | 4,964 / 5,384            | 3,100 / 3,200               |                 |                               | 26,795 / 26,986            |
|                           | TS550 / TS600 | 5,514 / 6,014            | 3,464 / 3,631               |                 |                               | 27,129 / 27,302            |
|                           | TS650 / TS700 | 6,514 / 7,014            | 3,798 / 3,965               |                 |                               | 27,468 / 27,641            |
|                           |               |                          |                             |                 |                               |                            |

\* STANDARD

Load Capacity



Optional Items

- FORK (L x W x T)(mm) : 2,000 x 250 x 100(STD) / 2,450 x 250 x 100 / 3,150 x 250 x 100
- MCV : 4 - SPOOL / 6 - SPOOL
- INTEGRAL FORK POSITIONER + SIDE SHIFT (INDEPENDENT)
- TERMINAL WEST SYSTEM
- INTEGRATED AIR CONDITIONER & HEATER
- REAR VIEW CAMERA & LOAD INDICATOR
- ESL(ENGINE START LIMIT)
- AIR COMPRESSOR
- HANDS FREE



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VOSSENDAAL 11, 2440 GEEL, BELGIUM Tel (32) 14-56-2200 Fax (32) 14-59-3405



9 99009 - 501530

Specification

| Identification   |  |                                  |
|------------------|--|----------------------------------|
| 1.1              | Manufacturer   | Hyundai                          |
| 1.2              | Manufacturer's type designation                                  | 180D-7E                          |
| 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                                       | Q (t) 18.0                       |
| 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 25,689                        |
| 2.2              | Axle loading, loaded front / rear                                | kg 39,685 / 4,004                |
| 2.3              | Axle loading, unloaded front / rear                              | kg 12,570 / 13,119               |
| Wheels, Chassis  |  |                                  |
| 3.1              | Tires:solid rubber, superplastic, pneumatic, polyurethane        | Pneumatic                        |
| 3.2              | Tires size, front( width x Φ )                                   | 12.00 - 20 - 28PR                |
| 3.3              | Tires size, rear( width x Φ )                                    | 12.00 - 20 - 28PR                |
| 3.5              | Wheels, number front x rear (x=driven wheels)                    | 4 x 2                            |
| 3.6              | Track width, front   | b10 (mm) 1,846                   |
| 3.7              | Track width, rear  | b11 (mm) 2,033                   |
| Basic Dimensions |  |                                  |
| 4.1              | Mast / fork carriage tilt forward / backward ( α / β )           | degrees 10 / 10                  |
| 4.2              | Lowered mast height  | h1 (mm) 3,400                    |
| 4.3              | Free lift  | h2 (mm) 0                        |
| 4.4              | Lift height  | h3 (mm) 3,320                    |
| 4.5              | Extended mast height   | h4 (mm) 5,090                    |
| 4.7              | Overhead load guard (cab) height                                 | h5 (mm) 2,935                    |
| 4.8              | Seat height / standing height                                    | h7 (mm) 1,827                    |
| 4.12             | Coupling height  | h10 (mm) 580                     |
| 4.19             | Overall length   | l1 (mm) 8,045                    |
| 4.20             | Length to face of forks  | l2 (mm) 5,595                    |
| 4.21             | Overall width  | b1 (mm) 2,540                    |
| 4.22             | Fork dimensions  | l / e / s (mm) 2,450 x 250 x 100 |
| 4.24             | Fork-carriage width  | b12 (mm) 2,540                   |
| 4.31             | Ground clearance, loaded, under mast                             | m1 (mm) 245                      |
| 4.32             | Ground clearance, centre of wheelbase                            | m2 (mm) 370                      |
| 4.33             | Aisle width for pallets 1000x1200 crossways                      | Ast (mm) 8,983                   |
| 4.34             | Aisle width for pallets 800x1200 lengthways                      | Ast (mm) 8,983                   |
| 4.35             | Turning radius   | W (mm) 5,334                     |
| 4.36             | Smallest pivot point distance                                    | b13 (mm) 2,048                   |
| Performance Data |  |                                  |
| 5.1              | Travel speed, Unloaded   | km/h 40.4                        |
| 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 143                           |
| 5.7              | Gradient performance, Loaded                                     | % 32.7                           |
| 5.10             | Service brake  | Wet, Hydraulic                   |
| Engine           |  |                                  |
| 6.1              | Engine manufacturer / type                                       | Cummins QSC                      |
| 6.2              | Engine power acc. to ISO 1585                                    | kW 194                           |
| 6.3              | Rated speed  | 1/min 2,200                      |
| 6.4              | No. of cylinder / cubic capacity                                 | /cm³ 6 / 8,300                   |
| 6.5              | Fuel consumption acc. To VDI cycle                               | l / h 15.6                       |
| Other Details    |  |                                  |
| 8.1              | Type of drive control  | Power Shift                      |
| 8.2              | Operating pressure for attachments(system/attach)                | bar 240 / 165                    |
| 8.3              | Oil volume for attachments                                       | Litter 195                       |
| 8.4              | Sound level at driver's ear according to DIN 12 053              | db(A) 77                         |

PLEASE CONTACT

www.hyundai-ce.com

2014. 10. Rev.4



■ Some of the photos may include optional equipment.

HYUNDAI DIESEL FORKLIFT TRUCKS Applied Tier 3 Engine

180D-7E



We build a better future



# NEW criterion of Big Forklift Truck

Hyundai introduces a new line of 7E-series diesel forklift trucks. Excellent power and performance makes your business more profitable.



## Excellent



Cruise Control



Instrument Switch Panel



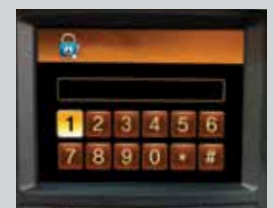
Rear View Camera  
(Option)



Air Conditioner & Heater  
(Option)



Load Indicator  
(Option)



ESL (Engine Start Limit)  
(Option)



## Ability of best, the new master on the job-site!

Smooth running, efficiently and ergonomically designed, 180D-7E series are made to meet your needs.



Powerful Engine

### Cummins QSC Engine

The six cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA Tier 3 and EU stage IIIA emission regulation.



#### Engine Control Mode

According to operating load, the operator can select engine mode by changing side panel switch.

STD Mode : Fuel reduction mode for light-duty operating load

POWER Mode : Heavy-duty or operating at slope



#### 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.

**194kW/2,200rpm**  
**120.4kgf·m/1,400rpm**

### 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)



#### Cruise Control

It offers the ability to automatically maintain a desired engine speed with no accelerator pedal input and reduce fuel consumption.



#### Transmission Control Switch



#### Excellent Night Work

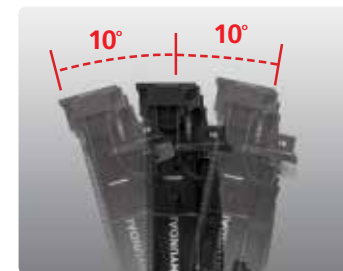
- Various position of work lamp provides the operator more comfortable and safe operating environments.  
- Front : fender(2), mast(2) - Rear : cab(2)



## High Power Low Noise



■ Some of the photos may include optional equipment.



#### 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.

### Faster Travel Speed & Better Gradability

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



Gradability(Loaded)

180D-7E : 32.7%

Travel Speed(Unloaded)

180D-7E : 40.4km/h





# Ergonomic driving space design!

A design based on human engineering relieves fatigue and increases operator's efficiency.

Operator Friendly Gauges and Water-resistant Monitor Panel



**Easily Adjustable Suspension Seat**  
An attractive and adjustable seat, based on a human engineering design, provides great comfort, safety and durability. (Head Rest - option)



**High-output Air Conditioner & Heater (Option)**  
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.



Some of the photos may include optional equipment.



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



**Load Indicator (Option)**  
A load can be placed on the fork and can be accurately weighed by measuring the hydraulic pressure.



**Centralized Instrument switch Panel**



**MP3 CD Player & Remote Control**



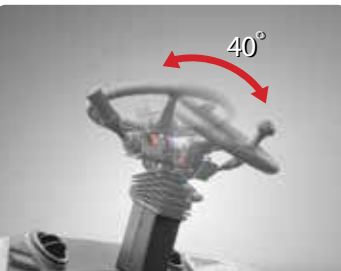
**Hands Free Socket (Option)**



**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.



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





## Danger-free through high durability!

Safety and durability are priorities in design of the 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.



### OPSS(Operator Presence Sensing System)

Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operators is not in the normal position.



### Durable Drive Axle

The bevel gear set and planetary reduction drive axle smoothly delivers desired torque to the drive wheels.

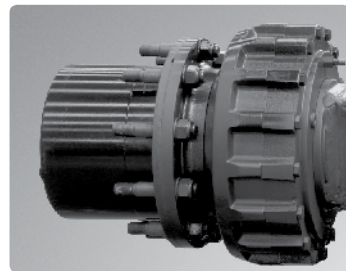


### Auto Parking

The parking brake is engaged automatically when the transmission is neutral and the operator leaves the seat.



■ Some of the photos may include optional equipment.



### Wet Disc Brake System

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



### Fitted Protector for Hub Bolts

Durability has improved by applying protector for preventing bolts breakage. (Easy parts supply due to the wheel in common with front wheel)



### Cabin Tilting Electronic System

Cabin tilting electronic 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.



### Grease Fittings

Grease fittings are installed for fast access to steering axle center pin when doing your service checks.



### Highly Durable Mast & Carriage Side Roller

Side roller with great durability for mast and carriage is included.



### 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.







# Centralized design for easy service!

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



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



**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.



■ Some of the photos may include optional equipment.



**Compact fuse Box for Easy Inspection**



**Mechanic Friendly Fuel Filter Replacement**  
Highly accessible engine compartment allows for quick replacement of filters.



**Electrically Monitored Air Filter**  
Air cleaner sensor alerts the operator of a clogged air filter and allows replacement before damage.



**Automatic Self Locking Gas Spring**  
Engine compartment hood is safely opened by a self locking gas spring.



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



**Large Tool Box**



**Pressure Gauge Port**



**Easy Maintenance Oil Check**