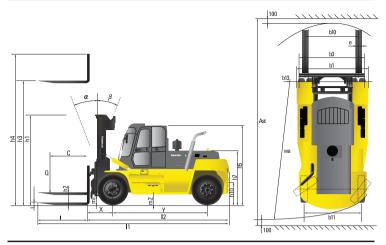
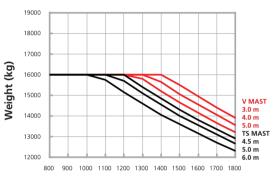
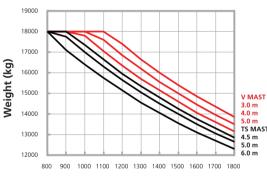
#### **Dimension**



## **Load Capacity**



## 160D-9L Load Center (mm)



180D-9B Load Center (mm)

## **Optional Items**

- Fork (L) (mm): 1800, 2000, 2450, 3150
- MAST : Simplex Mast / Triplex Mast
- MCV: 3-Spool / 4-Spool / 5-Spool, Finger tip
- · Sliding Carriage

- · Separator Holder Type Fork Carriage
- **Seat**: Air Suspension Seat, Heat, Leather
- · Beacon Lamp (LED)
- · BIAS / RADIAL Tire

## Specification

Ident	tification			
1. 1	Manufacturer		Hyu	ndai
1. 2	Manufacturer's type designation	160D-9L	180D-9B	
1. 3	Drive: electric (battery or mains), diesel, petrol, fuel	gas, manual	DIESEL	DIESEL
1. 4	Type of operation: hand, pedestrian, standing, seated, o	order - picker	seated	seated
1. 5	Load capacity / rated load	lb	36,000	40,000
1. 6	Load center distance	c in	48	36
1. 8	Load distance, center of drive axle to fork	x in	39.3	39.3
1. 9	Wheelbase	y in	147.6	147.6
Weig		,		
2. 1	Service weight	lb	52,810	52,810
2. 1		ID	32,010	32,010
2. 2	Axle loading, loaded front / rear	lb	82,559 / 5,525	86,379 / 6,113
2.3	Axle loading , unloaded front / rear	lb	26,599 / 26,209	26,599 / 26,209
Whe	els, Chassis			
3. 1	Tire		Pneumatic	Pneumatic
3. 2	Tires size, front (ø x width)		12.00-20-20PR	12.00-20-20PR
3. 3	Tires size, rear (ø x width )		12.00-20-20PR	12.00-20-20PR
3. 5	Wheels, number front rear (x = driven wheels)		4 x 2	4 x 2
3. 6	Track width, front	in	73.2	73.2
3.7	Track width, rear	in	80	80
	Dimensions			
4. 1	Mast tilt forward/backward with 2-stage mast	degrees	15 / 10	15 / 10
4. 2	Lowered mast height	h1 in	126	126
4. 3	Free lift height	h2 in	0	0
	Lift height	h3 in	119	119
4. 4	-	h4 in		
	Extended mast height		183.5	183.5
4.7	Overhead guard (cab) height	h5 in	121	121
	Seat height / Standing height	h7 in	75	75
	Coupling height	h10 in	24	24
	Overall length	I1 in	315.5	315.5
	Length to face of forks	l2 in	219	219
-	Overall width	b1 in	100	100
	Fork dimensions	s/e/lin	3.9 x 9.8 x 96.5	3.9 x 9.8 x 96.5
	Fork - carriage width	b3 in	100	100
4. 31	, ,	m1 in	9.6	9.6
4. 32	Ground clearance, centre of wheelbase	m2 in	15	15
4. 33	Aisle width for pallets 1,000 x 1,200 crossways	Ast in	350.5	350.5
4. 34	Aisle width for pallets 800 x 1,200 lengthways	Ast in	350.5	350.5
4. 35	Turning radius	Wa in	205.5	205.5
4. 36	Smallest pivot point distance	in	80.6	80.6
Perfo	ormance Data			
5. 1	Travel Speed, Unloaded	mph	21.8	21.8
5. 2	Lift Speed, Loaded/ Unloaded	in/s	13 / 17.7	11.4 / 17.7
5. 3	Lowering Speed, Loaded/Unloaded	in/s	16.9 / 15.3	16.9 / 15.3
5. 6	Drawbar Pull, Loaded	KN	134,518 / 131,477	134,518 / 131,477
5. 7	Gradient Performance, Loaded	%	33 / 30.4	33 / 30.4
	Service Brake		Hydraulic	Hydraulic
Engi			,	1.,
7. 1	Engine Manufacturer / Type		Cummins QSB6.7	Cummins QSB6.7
7. 2	Engine Power Acc. To Iso 1585	HP	163	163
7. 3	Rated Speed	1/min		
7. 4	·	/ft³	2,300	2,300
	No. Of Cylinder / Cubic Capacity		6 / 6,690	6 / 6,690
7.5	Fuel Consumption Acc. to Vdi Cycle	gal/h	3.2	3.2
	er Details			
8. 1	Type of drive control		Power Shift	Power Shift
8. 2	Operating pressure for attachments (system/attach)		3,335.8 / 2,393	3,335.8 / 2,393
8. 3	Oil volume for attachments	gal/min	53.6	53.6
8. 4	Sound level at driver's ear according to DIN 12 053	dB	71.2	71.2

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Standard and optional equipment may vary. Contact your Hyundai dealer for more information.

PLEASE CONTACT

# HYUNDAI MATERIAL HANDLING

North American Headquarters 6100 Atlantic Blvd, Norcross, GA 30071 TEL (678) 823 7777 FAX (687) 823 7778

www.hyundaiforkliftamericas.com 2018.04 Rev.2

## 160D-9L/180D-9B

Performance Enhanced For Tier-4 Final

**MOVING YOU FURTHER** 

2/14/18 4:30 PM



2/14/18 4:30 PM 160D\_9L\_180D\_9B\_US\_R06.indd 2

<sup>\*</sup> The machine may vary according to International standards.

<sup>\*</sup> The photos may include attachments and optional equipment that are not available in your area.

# Your satisfaction is our priority!

Hyundai introduces a new line of 9-series diesel forklift trucks.

The newly designed four wheel counterbalance trucks provide operators increased comfort, productivity and ease of maintenance.



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

160D-9L 180D-9B



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





#### **Rear View Camera**

Rear view camera improves site and pedestrian safety. Display supports up to four cameras.



## **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.

## **Mast Specification**

Mast Type		Overall Height (Lowered)		Maximum Fork Height		Free Lift Height		Tilt Angle		Load Capacity		
								Fwd	Bwd	180D-9B	160D-9L	Truck Weight (Unloaded)
										36 in LC	48 in LC	
		in	mm	in	mm	in	mm	deg	deg	lb	lb	lb
2-STAGE LIMITED FREE LIFT	V300	126.0	3,200	118.9	3,020	0	0	10	10	40,000	36,000	52809
	V330	131.9	3,350	130.7	3,320	0	0	10	10	40,000 36,000		53037
	V350	135.8	3,450	138.6	3,520	0	0	10	10	40,000 36,000		53194
	V400	145.7	3,700	158.3	4,020	0	0	10	10	40,000	36,000	53672
	V450	155.5	3,950	178.0	4,520	0	0	10	10	40,000	36,000	54188
	V500	165.4	4,200	197.6	5,020	0	0	10	10	40,000	36,000	54599
	V550	175.2	4,450	217.3	5,520	0	0	10	10	40,000	35,200	55162
	V600	185.0	4,700	237.0	6,020	0	0	10	10	39,400	34,760	55573
	V650	194.9	4,950	256.7	6,520	0	0	10	10	38,800	34,210	55979
	V700	204.7	5,200	276.4	7,020	0	0	10	10	38,200	33,770	56390
3-STAGE FULL FREE LIFT	TS460	116.1	2,950	182.4	4,634	61	1,538	10	10	40,000	36,000	55213
	TS508	122.0	3,100	200.2	5,084	66	1,688	10	10	39,000	34,320	55644
	TS538	126.0	3,200	212.0	5,384	70	1,788	10	10	38,500	33,880	55896
	TS568	129.9	3,300	223.8	5,684	74	1,888	10	10	38,100	33,550	56146
	TS600	134.6	3,420	238.0	6,044	79	2,008	10	10	37,500	33,220	56388
	TS658	141.7	3,600	259.2	6,584	86	2,188	10	10	36,900	32,670	56792
	TS700	147.6	3,750	276.9	7,034	92	2,338	10	10	36,200	32,120	57335

<sup>·</sup> standard

02 HYUNDAI FORKLIFT 11

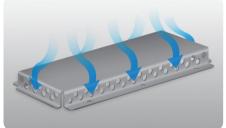
## Fast and Easy Maintenance



## **Large Engine Hood**

Highly accessible engine compartment assures fast and efficient maintenance.





#### **Cabin Air Filter**

Positive internal pressure is maintained to slightly higher than that of outside cabin to reduce dust and noise levels.





## **Maintenance Management** Integrated with Hi-Mate to track

service intervals to properly maintain machine.

10 HYUNDAI FORKLIFT



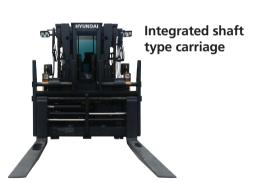
**Engine Start Limit** 

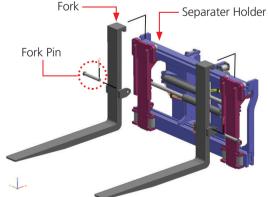




## **Hydraulic Cabin Tilt**

Cabin tilting system makes servicing of power train components quick and easy. An electrically assisted hydraulic actuated cylinder tilts operator cabin to left side about 53 degrees for easy access to inside of truck components.





## **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.

## **New Diesel Forklift with Proven Quality and Advanced Technology**

- Maximum Performance
- Spacious Operator's cab
- Load Weight Indicator
- OPSS System for Safe Operation
- Easy Serviceability
- Hi-mate (Remote Managegement System)
- 4.3 Inch Color LCD Display
- FATC (Full Automatic Temperature Control) Air Conditioner



HYUNDAI FORKLIFT 03

2/14/18 4:30 PM 160D\_9L\_180D\_9B\_US\_R06.indd 4 160D\_9L\_180D\_9B\_US\_R06.indd 11

# High Efficiency & **Optimal Performance**



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

160D-9L 180D-9B



Some of the photos may include optional equipment.



163 hp/2,300rpm 540 lbf-ft/1,500rpm

## **Powerful Engine**

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

## **Excellent Fuel Efficiency**

Improved fuel consumption rate over previous engine technology

**DOC (Diesel Oxidation Catalyst)** 

SCR (Selective Catalytic Reduction)

**EGR (Exhaust Gas Recirculation)** 

## VGT™ Variable Geometry Turbocharger

- High torque at low speeds
- Excellent transient behavior

**04** HYUNDAI **FORKLIFT** 







**Highly Durable Mast & Carriage Side Roller**Side roller with great durability

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



## Highly Durable Carriage

The carriage is assembled from high tensile structural steel resulting in excellent durability. Work in narrow aisles with ease as the width of carriage is narrower than the overall width of the machine.



#### **Excellent Night Work**

- Various work lamp positions provide the operator a more comfortable and safer work environment.
- Front : fender (2), mast (4)
- Rear : cab (2)
- LED Rear Combination Lamp

HYUNDAI FORKLIFT 09

# Advanced **Safety**



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

160D-9L 180D-9B



## **Engine Control Mode**

Engine performance can be tailored to operation needs with selector switch.

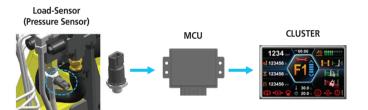
STD Mode: Fuel reduction mode for light to medium-duty operating load

POWER Mode: Heavy-duty or operation on slope



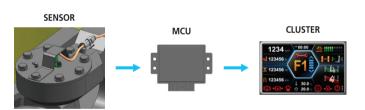
#### Adjustable Engine Low Idle RPM

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



## **Load Weight Indicator**

The Load Weight Indicator displays the load weight on the monitor. The load sensor reduces the time to check loaded weight and an alarm alerts the driver when overloaded.



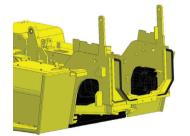
#### **Rear Wheel Angle Monitoring**

- indicates steering wheel angle for easy operation
- Real-time steering wheel angle is displayed for increased operator safety and productivity



## **Advanced Cooling System** with Reversible Fan

Reduced fuel consumption by utilizing an electronically controlled, reversible hydraulic fan. Fan speed based on transmission, coolant and hydraulic temperatures.



## **Rear Tire Cover**

Equipped to help prevent clogging of radiator by site materials.



#### **Under Cover (Optional)**

This cover protects engine and components from operation site debris. Helps extend component life



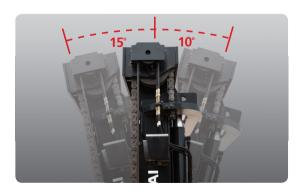
## **Full-automatic Transmission**

Full-automatic transmission gives easy, convenient handling and soft, smooth shifting. The operator can select two kinds of automatic modes. (1st↔3rd, 2nd↔3rd)



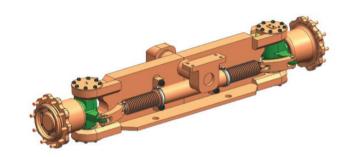
## **Durable drive axle**

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



#### **Increased Mast Tilting Angle**

Utilizing the mast tilting angle of 15 degrees forward and 10 degrees backward, the operator can perform loading and unloading jobs safely and rapidly.



## **Fully Hydrostatic Power Steering**

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

## **Load Sensing Hydraulic System**

Provides hydraulic oil flow only when needed to operate function. Reduces load on engine, when not needed, resulting in reduced fuel consumption and greenhouse gas emissions. (No excessive flow)



## **Wet Disc Brake System**

The wet disc brake system is virtually maintenance free and the enclosed design protects from dust and water.



radeability (loa	ded)	Max.Travel Spe	ed (Unloaded)
Model	%	Model	mph

160D-9L / 180D-9B 160D-9D / 180L-9B

#### **Faster Travel Speed & Better Gradability**

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

**08** HYUNDAI **FORKLIFT HYUNDAI FORKLIFT 05** 

2/14/18 4:30 PM 160D\_9L\_180D\_9B\_US\_R06.indd 6 160D\_9L\_180D\_9B\_US\_R06.indd 9

# Best Convenience& **Optimised Ergonomics**



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

160D-9L 180D-9B



#### **Spacious Operator Cabin**

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



**MP3 Player** 

**①** 



**Bluetooth Hands Free Remote Control Socket** 



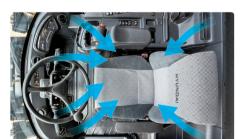
**Centralized Instrument Switch Panel** 





## **New Design Cluster**

1	Parking Brake Lamp	2	Check Engine Lamp	3	High beam indicator lamp
4	Operator presence indicator lamp	5	Seat belt warning lamp	6	Hour meter
7	Odometer	8	Outside temperature indicator	9	Air-con setting temp. indicator
10	Machine Incline / Slope Indicator	11	Transmission oil temperature gauge	12	Fuel gauge
13	Engine coolant temperature gauge	14	Right turn signal indicator lamp	15	Mast tilt angle indicator (optional)
16	Rear Wheel Angle Indicator	17	DEF level gauge	18	T/M information display
19	Clock	20	Load weight indicator	21	Tachometer
22	Left turn signal indicator lamp	23	Speedometer		



**High-output Air Conditioner & Heater** 

A high-output air conditioner and heater with multiple air vent positions mounted front and rear to increase room in the cab. The new climate controller heater and air conditioner provides high output to quickly heat or cool, and then maintain the desired comfort level of the operator.



**Adjustable Steering Column** 

Steer wheel tilt angle and column height adjustable for operator comfort.



**Fingertip Control** 

Ergonomically designed fingertip control levers increase operator comfort and productivity.

HYUNDAI FORKLIFT 07

06 HYUNDAI FORKLIFT

160D\_9L\_180D\_9B\_US\_R06.indd 7

2/14/18 4:30 PM 160D\_9L\_180D\_9B\_US\_R06.indd 8