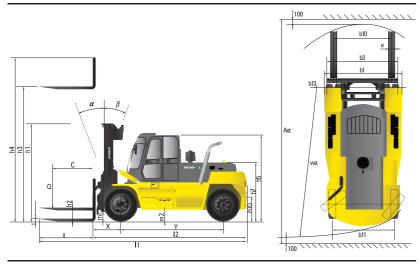
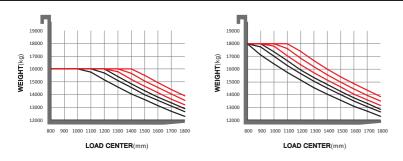
Dimension



Load Capacity



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
- · Integral Side Shift + Fork Positioner
- · Separator Holder Type Fork Carriage
- · Air Compressor
- **Seat**: Heat, Leather / KAB Air-Suspension Heat Seat
- · Bluetooth Hands Free

- · Beacon Lamp (LED)
- · Air Conditioner & Heater
- · Rear View Camera
- · Weight Indicator
- · Top Wiper
- · RMS(Remote Management System)
- · Rear Wheel Angle Monitoring
- · Cabin
- · BIAS / RADIAL Tire

Ident	ification		
1. 1	Manufacturer		Hyundai
1. 2	Manufacturer's type designation		160D-9L
1. 3	Drive : electric(battery or mains) , diesel, petrol , fuel ga	as, manual	DIESEL
1.4	Type of operation : hand, pedestrian, standing, seated		seated
1. 5	Load capacity / rated load	kg	16,000
1.6	Load center distance	c mm	1,200
1.8	Load distance, center of drive axle to fork	x mm	999
1. 9	Wheelbase	y mm	3,750
Weig	hts		
2. 1	Service weight	kg	23954
2. 2	Axle loading, loaded front / rear	kg	37,448/2,50
2. 3	Axle loading , unloaded front / rear	kg	12,065/11,88
Whee	els, Chassis		
3. 1	Tire		Pneumatic
3. 2	Tires size, front(⊕ x width)		12.00-20-20P
3. 3	Tires size, rear(Φ x width)		12.00-20-20P
3. 5	Wheels, number front rear(x = driven wheels)		4x2
3. 6	Track width, front	mm	1,860
3.7	Track width, rear	mm	2,034
Basic	Dimensions		
4. 1	Mast / fork carriage tilt forward / backward	degrees	10/10(15/10
4. 2	Lowered mast height	h1 mm	3,200
4. 3	Free lift height	h2 mm	0
4.4	Lift height	h3 mm	3,020
4. 5	Extended mast height	h4 mm	4,660
4.7	Overhead guard (cab) height	h5 mm	3,075
4.8	Seat height / Standing height	h7 mm	1,910
4. 12	Coupling height	h10 mm	610
4. 19	Overall length	l1 mm	8,014
4. 20	Length to face of forks	l2 mm	5,564
4. 21	Overall width	b1 mm	2,540
4. 22	Fork dimensions	s/e/Imm	100x250x2,45
4. 24	Fork - carriage width	b3 mm	2,540
4. 31	Ground clearance, loaded, under mast	m1 mm	245
4. 32	Ground clearance, centre of wheelbase	m2 mm	380
4. 33	Aisle width for pallets 1,000 x 1,200 crossways	Ast mm	8,902
4. 34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	8,902
4. 35	Turning radius	Wa mm	5,220
4. 36	Smallest pivot point distance	mm	2,048
Perfo	rmance Data		
5. 1	TRAVEL SPEED, UNLOADED	km/h	35.2
5. 2	LIFT SPEED, LOADED/ UNLOADED	mm/s	330/450
5. 3	LOWERING SPEED, LOADED/UNLOADED	mm/s	430/390
5. 6	DRAWBAR PULL, LOADED	KN	134,518
5. 7	GRADIENT PERFORMANCE, LOADED	%	33
5. 10	SERVICE BRAKE		Hydraulic
Engin	ie		
7. 1	ENGINE MANUFACTURER / TYPE		Cummins QSB6
7. 2	ENGINE POWER ACC. TO ISO 1585	kW	122
7.3	RATED SPEED	1/min	2,300
7.4	NO. OF CYLINDER / CUBIC CAPACITY	/cm³	6 / 6,690
7. 5	FUEL CONSUMPTION ACC. TO VDI CYCLE	I/h	12.1

7. 2	ENGINE POWER ACC. TO ISO 1585	kW	122
7. 3	RATED SPEED	1/min	2,300
7.4	NO. OF CYLINDER / CUBIC CAPACITY	/cm³	6 / 6,690
7. 5	FUEL CONSUMPTION ACC. TO VDI CYCLE	l/h	12.1
Othe	r Details		
Ouic	Details		
8. 1	Type of drive control		Power Shift
		bar	Power Shift 230/165
8. 1	Type of drive control	bar Q/min	
8. 1 8. 2	Type of drive control Operating pressure for attachments(system/attach)		230/165



Head Office (Sales Office)

55, bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

PLEASE CONTACT

www.hyundai-ce.com

2017. 3 Rev. 1



Performance Enhanced For Tier-4 Final

MOVING YOU FURTHER







^{*} The machine may vary according to International standards.

 $[\]ensuremath{^{\star}}$ The photos may include attachments and optional equipment that are not available in

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
- Weight Indicator (Optional)
- OPSS System for Safe Operation
- Easy Serviceability
- Hi-mate (Remote Managegement System) (Optional)
- 4.3 Inch Color LCD (Centralized Information Display)
- FATC (Full Automatic Temperature Control) Airconditioner (Optional)



High Efficiency & **Optimal Performance**



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





Some of the photos may include optional equipment



122KW/2,300rpm 74.7kgf.m/1,500rpm

Powerful Engine

The six cylinders 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

Fuel consumption rate is improved than previous model.

DOC(Disel Oxidation Catalyst)

SCR(Selective Catalytic Reduction)

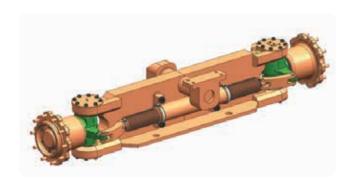
EGR(Exhaust Gas Recirculation)

- High torque at low speeds
- Excellent transient behavior



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)



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)



Durable drive axle

The hypoid type 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 15 degrees forward and 10 degrees backward, the operator can perform loading and unloading jobs safely and rapidly.



Max.Gradeability (loaded)

	()
Model	%
160D-9L	33

Max.Travel Speed (Unloaded)

%	Model	Km / h
33	160D-9L	35.2

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.





Spacious Operator Cabin

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



MP3 CD Player



Bluetooth Hands Free Remote Control Socket (Optional)



Centralized Instrument Switch Panel

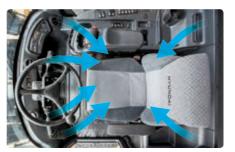


Luxury(Air-suspension+Heat+HeadRest) Seat (Optional)An attractive and adjustable seat, based on a human engineering design, provides great comfort, safety and durability.



New Design Cluster

1	Parking lamp 2		Engine check warning lamp		High beam indicator lamp		
4	Operator presence indicator lamp	5	Seat belt warning lamp	6	Left turn signal indicator lamp		
7	Engine RPM indicator	8	Load weight indicator(option)	9	Hour meter		
10	Odometer	11	Outside temperature indicator	12	Air-con setting temp. indicator		
13	Vehicle tilt angle indicator	14	Clock	15	T/M information display		
16	Urea level gauge	17	Rear wheel angle(option)	18	Mast tilt angle indicator		
19	Right turn signal indicator lamp	20	Engine coolant temperature gauge	21	Transmission oil temperature gauge		
22	Fuel gauge	23	Speed gauge				



High-output Air Conditioner & Heater (Optional)

Air Vent positions of the air conditioner with integrated the condenser is mounted on cabin front rear side 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. *Especially Applied FATC(Full Automatic Temperature Control)



Adjustable Steering Column

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



Quick Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control. (4 Lever: Standard), (3/5 Lever: Option)

Advanced **Safety**



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





Engine Control Mode

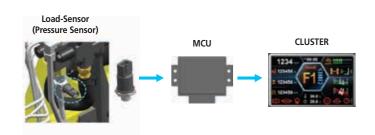
According to operating load, the operator can select engine mode by changing side panel switch. STD Mode: Fuel reduction mode for lightduty operating load

POWER Mode: Heavy-duty or operating at slope



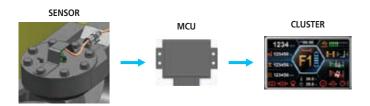
Adjustable Engine Low Idle RPM

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



Weight Indicator (Optional)

The optional Weight 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.



Rear Wheel Angle Monitoring (Optional)

- indicate steering wheel angle for easy operation
- Real-time steering wheel angle display



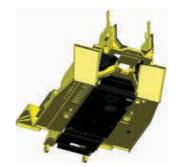
Up-to-date Cooling System

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.



Rear Tire Cover

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



Undercover (Optional)

The Under cover protect the engine and components from dusts caused by ground. It helps to lengthen Components life.







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

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. Work at the narrow space is easy because the width of carriage is narrower than overall width of the vehicle.



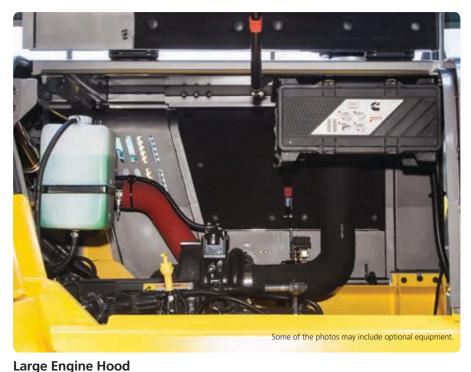
Excellent Night Work

- 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.







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 53 degrees for easy access to inside of truck components.



Master Switch

disconnects the battery

excess electrical drainage.

power to protect the electrical system from

A master switch



Rear View Camera (Optional)

The rear view camera makes the operation more easy and convenient. And it supports 4camera channels.



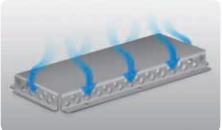
Hi-mate (Remote Management System)

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.



Highly accessible engine compartment assures fast and efficient maintenance.

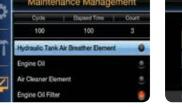




Cabin Air Fresh Filter

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

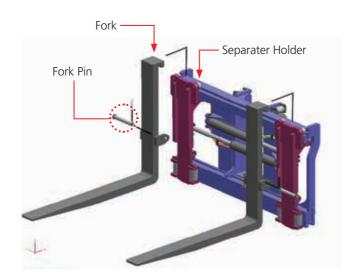




Maintenance **Management Display**



Engine Start Limit



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.

Mast Specification

Mast Type		Overall Height			mum	Free Lift Height		Tilt Angle		Load Capacity				Truck Weight	
		(Lowered)		Fork Height				Fwd Bwd		36 in LC	900 mm		1200mm LC	(Unloaded)	
		in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
	*V300	126.0	3,200	118.9	3,020	0	0	10	10	36,000	16,000	36,000	16,000	52,809	23,954
	V330	131.9	3,350	130.7	3,320	0	0	10	10	36,000	16,000	36,000	16,000	53,037	24,058
	V350	135.8	3,450	138.6	3,520	0	0	10	10	36,000	16,000	36,000	16,000	53,194	24,129
2-STAGE	V400	145.7	3,700	158.3	4,020	0	0	10	10	36,000	16,000	36,000	16,000	53,672	24,346
LIMITED	V450	155.5	3,950	178.0	4,520	0	0	10	10	36,000	16,000	36,000	16,000	54,188	24,579
FREE	V500	165.4	4,200	197.6	5,020	0	0	10	10	36,000	16,000	36,000	16,000	54,599	24,766
LIFT	V550	175.2	4,450	217.3	5,520	0	0	10	10	36,000	16,000	35,200	16,000	55,162	25,021
	V600	185.0	4,700	237.0	6,020	0	0	10	10	36,000	16,000	34,760	15,800	55,573	25,207
	V650	194.9	4,950	256.7	6,520	0	0	10	10	36,000	16,000	34,210	15,550	55,979	25,392
	V700	204.7	5,200	276.4	7,020	0	0	10	10	36,000	16,000	33,770	15,350	56,390	25,578
	TS460	116.1	2,950	182.4	4,634	61	1,538	10	10	36,000	16,000	36,000	16,000	55,213	25,044
	TS508	122.0	3,100	200.2	5,084	66	1,688	10	10	36,000	16,000	34,320	15,600	55,644	25,240
3-STAGE	TS538	126.0	3,200	212.0	5,384	70	1,788	10	10	36,000	16,000	33,880	15,400	55,896	25,354
FULL FREE	TS568	129.9	3,300	223.8	5,684	74	1,888	10	10	36,000	16,000	33,550	15,250	56,146	25,468
LIFT	TS600	134.6	3,420	238.0	6,044	79	2,008	10	10	36,000	16,000	33,220	15,100	56,388	25,578
	TS658	141.7	3,600	259.2	6,584	86	2,188	10	10	36,000	16,000	32,670	14,850	56,792	25,761
	TS700	147.6	3,750	276.9	7,034	92	2,338	10	10	36,000	16,000	32,120	14,600	57,335	26,007

*: standard

10 HYUNDAI FORKLIFT HYUNDAI FORKLIFT 11