



*Photo may include optional equipment.

We build a better future

HYUNDAI DIESEL FORKLIFT TRUCKS **Applied Tier 2 Engine**

100D/120D/135D/160D-7

FORKLIFT *Excellent* Model

NEW criterion of Big Forklift Truck

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

*Photo may include optional equipment.



High Power & Performance

Powerful Engine

Cummins QSB5.9-C Engine



115.5kW/2,200rpm

The six cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA tier 2 and EU stage 2 emission regulation.



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)



*Photo may include optional equipment.

Excellency of Night Work

- Variety position of work lamp
- Front : fender(2), mast(2) - rear : Cab(2)





Ability of best, The **NEW MASTER** on the job-site!

Smooth running, efficient and ergonomically designed, 100/120/135/160D-7 series are made to meet your needs.



Wet Disc Brake System

The adoption of Wet disc type brake improves brake performance. Brake pedal effort is improved about 45% at 20% slope and Wet disc brakes have maintenance intervals 5 times longer than conventional.



Increased Mast Tilting Angle

Utilizing the mast tilting angle of 15 degrees forward and 12 degrees backward, the operator can perform loading and unloading jobs safely and rapidly.



Easy to Operate Parking Switch

It is possible that excellent parking power is exerted by easy to operate parking switch. (A parking brake negative spring type is applied.)

Faster Travel Speed & Gradability

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

Gradability^(Loaded)

100D-7 : 47.6%	135D-7 : 37.1%
120D-7 : 41.3%	160D-7 : 33.1%

Travel speed^(Unloaded)

100D-7 : 35.1km/h
120D-7 : 34.9km/h
135D-7 : 33.9km/h
160D-7 : 33.7km/h



Spacious Leg Room & Comfort to Operators

Wide cabin room provides easy access.

Comfortable Operation



Quick Response of Operating Control Levers

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



Instrument Switch Panel

Switches are conveniently to operator's right console positioned for easy operation.



Rear View Mirror

Big rear mirrors enable you to work more safely.



Deluxe Cassette Radio & Cigar Lighter

Speaker with excellent output and deluxe cassette radio and cigar lighter of 24V are applied as a standard.



Ergonomics driving **SPACE DESIGN!**

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



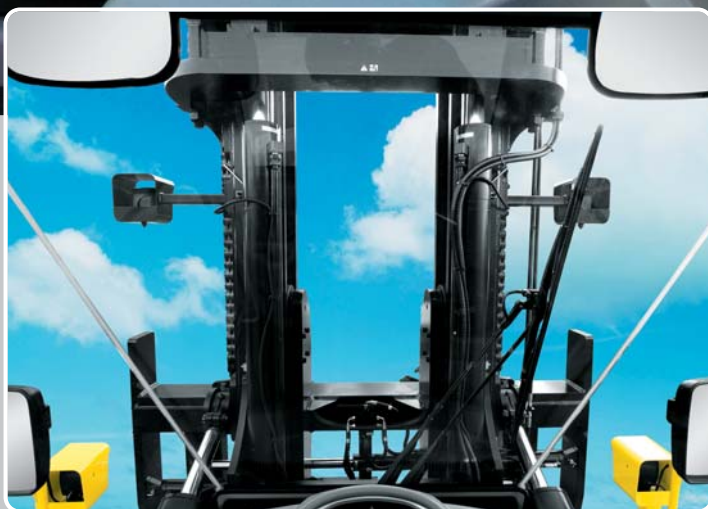
*Photo may include optional equipment.



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 put out and heater always provide you comfortable environment when you work.





High visibility for Safe Operation

The operator is able to work with increased safety and accuracy with a wider view mast.

Operator Friendly Gauges and Water-resistant Monitor Panel



A. Indicate Lamp & Warning Lamp

- ① Engine Preheat Lamp
- ② Parking Lamp
- ③ Break Lamp
- ④ Seat Safety Lamp
- ⑤ Engine Oil PS Lamp
- ⑥ Left Turn Lamp
- ⑦ Work Lamp
- ⑧ Head Lamp
- ⑨ Warning Lamp
- ⑩ T/M Fail Lamp
- ⑪ Inching Lamp
- ⑫ Right Turn Lamp
- ⑬ Air Cleaner Lamp
- ⑭ WIF Lamp
- ⑮ Battery Charge Lamp
- ⑯ Fuel Empty Lamp
- ⑰ Seat Belt Lamp

B. Coolant Temp Gauge

C. T/M Temp Gauge

D. Fuel Gauge

F. Speed Gauge

G. T/M Message

H. Hour meter, Engine RPM

I. Function Key, Engine Error

- ① Buzzer Stop Key
- ② Engine Stop Lamp
- ③ Hour Meter & RPM Change



Adjustable Steering Column

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

Easily Adjustable Suspension Seat

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



Endurance & Safety



Durable Drive Axle

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



Highly Durable Mast & Carriage Side Roller

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



Ergonomically Positioned Pedals

Based on human engineering ; the accelerator, brake and inching pedals are optimally positioned for convenience while operating the equipment.

Danger-free through **HIGH DURABILITY!**

Safety and durability are priorities in design of the equipment.

*Photo may include optional equipment.

Double Type Wiper

Double type wiper mounted on the front and rear side of the cabin provide you excellent visibility even in rains.





Large Footboard & Handle

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



Rain Cover Muffler

Prevent damages of muffler with rain or dust



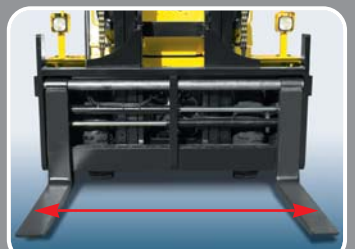
Durable Steering Axle

Enlarged size of taper roller bearing improves the durability of steering axle.



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)



High 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 then overall width of the vehicle.

Durability **Easy** Maintenance



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.



Easy Check Oil level Gauge

Operator can check the level of oil at a glance by monitoring the oil gauge on the side out of the vehicle



Central Electric Controllers

Electric controllers for this forklift is centralized to improve serviceability.

Centralized design for **EASY SERVICE!**

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



*Photo may include optional equipment.

Large Engine Hood

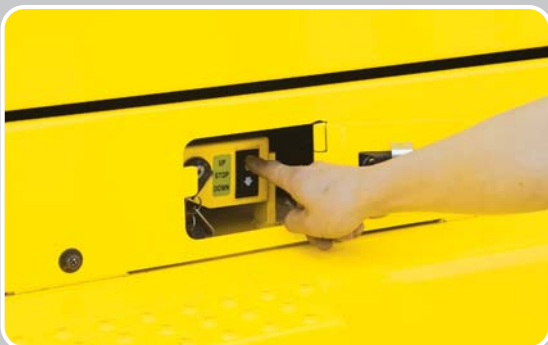
Highly accessible engine compartment assures fast and efficient maintenance.





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 65 degrees for easy access to inside of truck components.



Strong Standard Cabin

The safety overhead guard meets EEC and ANSI regulations and protects the operator during hazardous jobs.



Easy Change Double Air Cleaner

The air filter is readily accessible for cleaning or replacement.



Compact fuse Box for Easy Inspection



Maintenance Free Battery



Large Capacity Pre-Cleaner



Easy Maintenance Oil Check

BIG FORKLIFT TRUCK

Mast Specification (100D-7/120D-7)

MAST TYPE		Maximum Fork Height mm(in)	Overall Height mm(in)	Tilt Angle (deg)		Weight (Unloaded) kg(lb)		Load Capacity At 600mm(24 in)LC kg(lb)	
				Fwd	Bwd	100D-7	120D-7	100D-7	120D-7
2 / Stage limited free lift	-	-	-	-	-	-	-	-	-
	V300	3,005(118.3)	3,000(118.1)	15	12	14,840(32,716)	16,225(35,770)	10,000(22,000)	12,000(26,400)
	V330	3,305(130.1)	3,150(124.0)	15	12	14,915(32,881)	16,301(35,937)	10,000(22,000)	12,000(26,400)
	V350	3,505(137.9)	3,250(127.9)	15	12	14,965(32,992)	16,350(36,945)	10,000(22,000)	12,000(26,400)
	V400	4,005(157.6)	3,550(139.7)	15	12	15,218(33,549)	16,603(36,603)	10,000(22,000)	12,000(26,400)
	V450	4,505(177.3)	3,800(149.6)	15	12	15,343(33,825)	16,728(36,878)	10,000(22,000)	12,000(26,400)
	V500	5,005(197.0)	4,100(161.4)	15	12	15,492(34,154)	16,877(37,207)	10,000(22,000)	12,000(26,400)
	V550	5,505(216.7)	4,350(171.2)	15	12	15,723(34,663)	17,108(37,716)	9,800(21,600)	11,600(25,500)
	V600	6,005(236.4)	4,650(183.0)	15	12	15,875(34,998)	17,260(38,051)	9,500(20,900)	11,200(24,600)
	V650	6,505(256.1)	4,900(192.9)	15	12	16,008(35,291)	17,393(38,345)	9,200(20,200)	10,800(23,800)
V700	7,005(275.7)	5,150(202.7)	15	12	16,139(35,580)	17,524(38,633)	8,900(19,600)	10,400(22,900)	
3 / Stage limited free lift	TF440	4,405(173.4)	2,950(116.1)	10	10	15,879(35,007)	17,265(38,062)	10,000(22,000)	12,000(26,400)
	TF470	4,705(185.2)	3,050(120.0)	10	10	15,950(35,163)	17,336(38,219)	10,000(22,000)	11,800(26,000)
	TF500	5,005(197.0)	3,150(124.0)	10	10	16,021(35,320)	17,407(38,375)	9,700(21,300)	11,500(25,300)
	TF550	5,505(216.7)	3,317(130.5)	10	10	16,188(35,688)	17,574(38,744)	9,500(20,900)	11,200(24,600)
	TF600	6,005(236.4)	3,484(137.1)	10	10	16,306(35,948)	17,692(39,004)	9,200(20,200)	10,800(23,800)
	TF650	6,505(256.1)	3,651(143.7)	10	10	16,520(36,420)	17,906(39,475)	8,900(19,600)	10,400(22,900)
	TF700	7,005(275.7)	3,818(150.3)	10	10	16,639(36,682)	18,025(39,738)	8,600(18,900)	10,000(22,000)

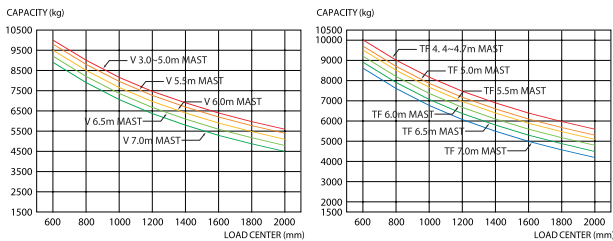
Mast Specification (135D-7/160D-7)

MAST TYPE		Maximum Fork Height mm(in)	Overall Height mm(in)	Tilt Angle (deg)		Weight (Unloaded) kg(lb)		Load Capacity At 600mm(24 in)LC kg(lb)	
				Fwd	Bwd	135D-7	160D-7	135D-7	160D-7
2 / Stage limited free lift	V295	2,950(116.1)	2,950(116.1)	-	-	17,517(38,618)	18,689(41,202)	13,500(29,700)	16,000(35,200)
	V300	3,010(118.5)	3,250(127.9)	15	12	17,681(38,979)	18,853(41,563)	13,500(29,700)	16,000(35,200)
	V330	3,310(130.3)	3,400(133.8)	15	12	17,776(39,189)	18,948(41,773)	13,500(29,700)	16,000(35,200)
	V350	3,510(138.1)	3,500(137.7)	15	12	17,820(39,286)	18,992(41,870)	13,500(29,700)	16,000(35,200)
	V400	4,010(157.8)	3,750(147.6)	15	12	18,108(39,921)	19,280(42,505)	13,500(29,700)	16,000(35,200)
	V450	4,510(177.5)	4,000(157.4)	15	12	18,262(40,260)	19,434(42,844)	13,500(29,700)	16,000(35,200)
	V500	5,010(197.2)	4,300(169.2)	15	12	18,445(40,664)	19,617(43,248)	13,500(29,700)	16,000(35,200)
	V550	5,510(216.9)	4,550(179.1)	15	12	18,713(41,255)	19,885(43,838)	13,100(28,800)	15,300(33,700)
	V600	6,010(236.6)	4,850(190.9)	15	12	18,895(41,656)	20,067(44,240)	12,700(27,900)	14,700(32,400)
	V650	6,510(256.2)	5,125(201.7)	15	12	19,061(42,022)	20,233(44,606)	12,200(26,800)	14,100(31,000)
3 / Stage limited free lift	V700	7,010(275.9)	5,375(211.6)	15	12	19,213(42,357)	20,385(44,941)	11,700(25,700)	13,500(29,700)
	TF395	3,964(156.0)	2,950(116.1)	10	10	18,879(42,621)	20,051(44,204)	13,500(29,700)	15,500(34,100)
	TF450	4,504(177.3)	3,130(123.2)	10	10	19,041(41,978)	20,213(44,562)	13,500(29,700)	15,300(33,700)
	TF500	5,004(197.0)	3,297(129.8)	10	10	19,215(42,361)	20,387(44,945)	13,100(28,800)	15,000(33,000)
	TF550	5,504(216.6)	3,464(136.3)	10	10	19,398(42,765)	20,570(45,349)	12,700(27,900)	14,500(31,900)
	TF600	6,004(236.3)	3,631(142.9)	10	10	19,554(43,109)	20,726(45,693)	12,200(26,800)	14,000(30,800)
	TF650	6,504(256.0)	3,798(149.5)	10	10	19,832(43,722)	21,004(46,305)	11,700(25,700)	13,500(29,700)
	TF700	7,004(275.7)	3,965(156.1)	10	10	19,976(44,039)	21,148(46,232)	11,200(24,600)	13,000(28,600)

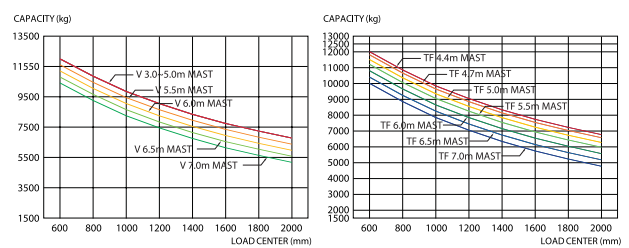
※ Standard

Load Capacity

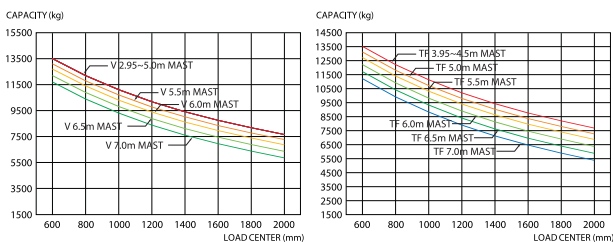
100D-7



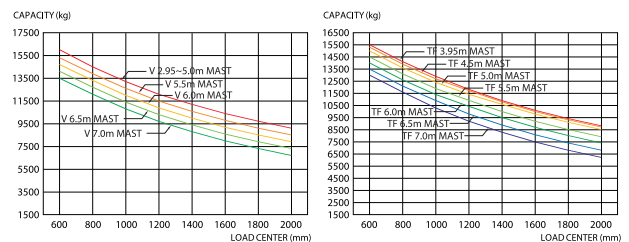
120D-7



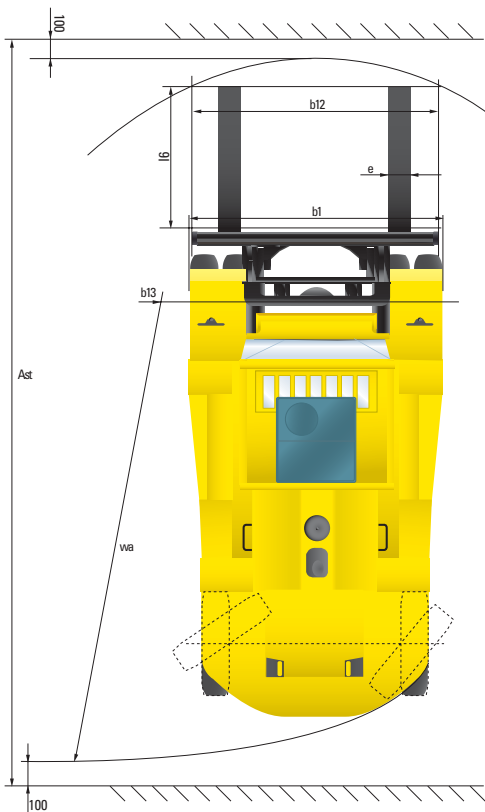
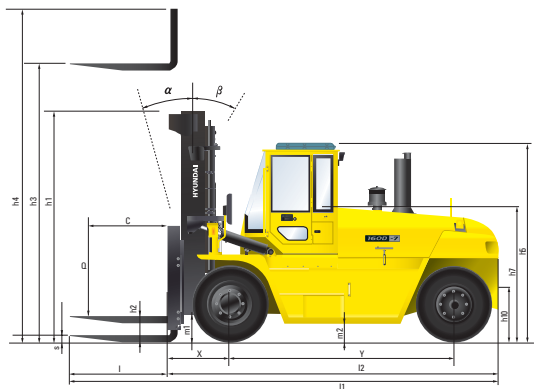
135D-7



160D-7



Dimension



Specification

Identification				
1.1	Manufacturer	Hyundai	Hyundai	Hyundai
1.2	Manufacturer's type designation	100D-7	120D-7	135D-7
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas, manual	DIESEL	DIESEL	DIESEL
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker	seated	seated	seated
1.5	Load capacity / rated load	Q (t)	10.0	12.0
1.6	Load center distance	c (mm)	600	600
1.8	Load distance, center of drive axle to fork	x (mm)	755	760
1.9	Wheelbase	y (mm)	2,900	2,900
Weights				
2.1	Service weight	kg	14,915	16,301
2.2	Axle loading, loaded front/rear	kg	22,398 / 2,518	25,357 / 2,944
2.3	Axle loading, unloaded front/rear	kg	7,725 / 7,190	7,729 / 8,572
Wheels, Chassis				
3.1	Tires: solid rubber, superplastic, pneumatic, polyurethane	pneumatic	pneumatic	pneumatic
3.2	Tires size, front (φ x width)	10.00-20-16	10.00-20-16	12.00-20-20
3.3	Tires size, rear (φ x width)	10.00-20-16	10.00-20-16	12.00-20-20
3.5	Wheels, number front x rear (x=driven wheels)	4 x 2	4 x 2	4 x 2
3.6	Track width, front	b10 (mm)	1,842	1,842
3.7	Track width, rear	b11 (mm)	1,910	1,910
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward	degrees	15/12	15/12
4.2	Lowered mast height	h1 (mm)	3,150	3,150
4.3	Free lift	h2 (mm)	0	0
4.4	Lift height	h3 (mm)	3,305	3,310
4.5	Extended mast height	h4 (mm)	4,765	5,010
4.7	Overhead load guard (cab) height	h5 (mm)	3,120	3,155
4.8	Seat height / standing height	h7 (mm)	1,770	1,800
4.12	Coupling height	h10 (mm)	556	590
4.19	Overall length	l1 (mm)	5,675	6,250
4.20	Length to face of forks	l2 (mm)	4,325	4,900
4.21	Overall width	b1 (mm)	2,450	2,497
4.22	Fork dimensions (hook type)	s / e / l (mm)	70 × 200 × 1,350	75 × 200 × 1,350
4.23	Fork carriage ISO 2328, class / type A,B	Pin Mount	Pin Mount	Pin Mount
4.24	Fork-carriage width	b12 (mm)	2,357	2,483
4.31	Ground clearance, loaded, under mast	m1 (mm)	270	270
4.32	Ground clearance, centre of wheelbase	m2 (mm)	336	370
4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)	6,035	6,610
4.34	Aisle width for pallets 800x1200 lengthways	Ast (mm)	6,235	6,810
4.35	Turning radius	Wa (mm)	4,080	4,580
4.36	Smallest pivot point distance	b13 (mm)	231	500
Performance Data				
5.1	Travel speed, Unloaded	km/h	35.1	34.9
5.2	Lift speed, Loaded/Unloaded	m/s	440 / 510	430 / 510
5.3	Lowering speed, Loaded/Unloaded	m/s	510 / 460	430 / 390
5.5	Drawbar pull, Loaded	N	105,323	106,834
5.7	Gradient performance, Loaded	%	39.2	34.1
5.9	Acceleration time, Loaded/ Unloaded(10m)	sec	N/A	N/A
5.10	Service brake	Hydraulic	Hydraulic	Hydraulic
Engine				
6.1	Engine manufacturer / type	Cummins / QSB5.9-C	Cummins / QSB5.9-C	Cummins / QSB5.9-C
6.2	Engine power acc. to ISO 1585	kW	115.5	115.5
6.3	Rated speed	1/min	2,200	2,200
6.4	No. of cylinder / cubic capacity	anz/cm³	6 / 5,883	6 / 5,883
6.5	Fuel consumption acc. To VDI cycle	ℓ / h	N/A	N/A
Other Details				
8.1	Type of drive control	Full Auto	Full Auto	Full Auto
8.2	Operating pressure for attachments	bar	210	210
8.3	Oil volume for attachments	l/min	295	295
8.4	Sound level at driver's ear according to DIN 12 053	db(A)	83	83
8.5	Tow coupling, type DIN	N/A	N/A	N/A



100D/120D/135D/160D -7

Optional Items

• FORK(L x W x T)(mm)

100D-7

70 × 200 × 1,200 / 75 × 200 × 1,500 / 75 × 200 × 1,650

75 × 200 × 1,800 / 75 × 200 × 2,100 / 75 × 200 × 2,400

120D-7

75 × 200 × 1,200 / 75 × 200 × 1,500 / 75 × 200 × 1,650

75 × 200 × 1,800 / 75 × 200 × 2,100 / 75 × 200 × 2,400

135D-7

85 × 200 × 1,200 / 90 × 200 × 1,500 / 90 × 200 × 1,650

90 × 200 × 1,800 / 90 × 200 × 2,100 / 90 × 200 × 2,400

160D-7

90 × 200 × 1,200 / 90 × 200 × 1,500 / 90 × 200 × 1,650

90 × 200 × 1,800 / 90 × 200 × 2,100 / 90 × 200 × 2,400

• MAST : SIMPLEX MAST / TRIPLEX MAST

• OVER SHOE : 1,800 / 2,000 / 2,200 / 2,400 / 2,600

• MCV : 4-SPOOL / 5-SPOOL

• SEAT : HEAD REST

• ELECTRIC BEACON

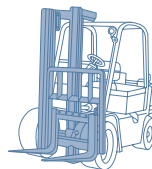
• FORK POSITIONER

• CD PLAYER

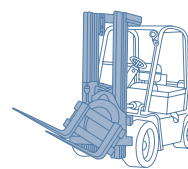
• SITE SHIFT

• HYDRAULIC LINE : 4-SPOOL / 5-SPOOL

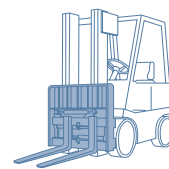
Various Attachments



Side Shift



Rotating Fork



Fork Positioner

Contact your Hyundai dealer for more information. The machine shown may vary according to International standards.
All US measurement rounded off to nearest pounds or inches.

HYUNDAI HEAVY INDUSTRIES CO., LTD. **CONSTRUCTION EQUIPMENT**

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2008.12 Rev.1