

#### CERES SYSTEM

CERES(Construction Equipment Resource Support) is HHI's new information system on all Hyundai construction equipment for our overseas

dealers and branch offices.

http://ceres.hhi.co.kr





- · CABIN & HEATER
- · SIDE SHIFT
- · INTEGRAL SIDE SHIFT
- FORK
   750mm, 850mm, 1060mm, 1200mm, 1350mm. 1500mm
- OVER SHOE
- 1300mm, 1500mm, 1700mm
- · TILTING
- 6/6°, 6/5°, 3/3°
- TIRE
- Cushion, No-marking
- SEAT
   Pocket Arm Rest Hin Rest
- · LPG CLAMP
- Swing Out, Swing Down
   M.C.V
- 4-Spool
- MASTER SWITCH
   BEACON LAMP
- HAZARD SWITCH
- · WORK LAMP
- · LICENCE LAMP
- Taravel, Taravel + Mast
- ATTACH PIPING
   3 Spool-piping, 4 Spool-piping

※ Hyundai is continuously upgrading and improving its products. It therefore reserves the right to supply products, which may differ slightly from description and illustration in this catalog. For further information on options, consult with Hyundai's dealer. Specifications are subject to change without notice.



Head Office (Sales Office) U.S. Operation 1 CHEDNIHA-DONG, DDNG-KU, ULSAN, KOREA Tel: (82) [52] 202-7970, 7729 Fax: (\$2] (52) 202-7979, 7720 Hyundal Construction Equipment U.S.A., Inc. 955 ESTES AVENUE, ELK GROVE VILLAGE II. 6007 Tel: (1) 847-437-3333 Fax: (1) 87-437-3574

European Operation Hyundai Heavy Industries Europe N.V.
VOSSENDAAL 11, 2440 BEEL, BELGIUM
Tel: (32) 14-562200 Fax: (32) 14-593405 – 06

PLEASE CONTACT

www.hyundai-ce.com

2007, 9 Rev 0.



# FORKLIFT Excellent MODEL



HYUNDAI LPG FORKLIFT TRUCKS



The new style 15L/18L/20LA-7

economical/serviceable

safety / environmentally-friendly

Top Brand of the World

Being able to guickly raise and lower the

mast, as well as tilt it forward and backward, provides the best operational

When the truck is fully loaded, mast lowering speed is carefully controlled to

ensure safety by the down control valve.

Fast and stable performance

conditions during unloading.



Drive Lock

15L -7

### OPSS (Operator Presence Sensing System)

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



Hyundai introduces a new line of 7-series LPG forklift trucks.

Excellent power and performance makes your business more profitable.





Smooth running, efficient and ergonomically designed, 15L/18L/20LA-7 series are made to meet your needs.

### Operator friendly gauges and water-resistant monitor panel



- Fuel warning lamp
   Engine oil warning lamp
   Transmission oil temperat
- warning lamp

  Battery charging warning lamp
  Air cleaner filter warning light Working light indicator
- (B) Hour mater (B) Engine check lamp



#### Wet disc brake system

The adoption of Wet disc type brake improves brake performance. Brake pedal effort is improved about slope and Wet disc brakes have service intervals 5 times longer than onventional.



### Increased mast tilting angle

Utilizing the mast tilting angle of 6 degrees forward and 10 degrees backward, the operator can safely and rapidly perform loading and unloading jobs.



Gradeability (MAX) 15L-7 : 37%

18L-7 : 33.1% 20LA-7: 31%

### 15L-7 : 20.7 km/h (12.9 mph)

18L-7 : 20.7 km/h (12.9 mph) 20LA-7: 20.7 km/h (12.9 mph)

#### Gradeability The powerful high-output engine

provides greater acceleration, better gradeability and faster travel speed on any tough terrain or slope.





State-of-the-art hydraulic system

The latest large-capacity hydraulic system

reacts quickly during operation, and a low-

noise control valve increases both

efficiency and durability





A design based on human engineering relieves fatigue and enhances operating performance.



Quick Response of Operating Control Levers Only minimal operator's effort is required for precise, safe and

productive control.



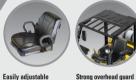
Multi-function switch lever Multi-functional switch lever gives easy access to lights



Parking Brake Ratchet type parking brake requires less efforts from the operator to set.



Adjustable steering wheel Steering wheel with horn button can be adjusted by a lever on the right-hand side for the most comfortable operator position.



Easily adjustable suspension seat

An attractive and adjustable seat, based on a human engineering protects the operator during for operator's convenience. design, provides great comfort, hazardous jobs. safety and durability.



Cup holder & console box The safety overhead guard meets Additional storage spaces are The new system protects the EEC and ANSI regulations and located inside the operating space starter from restarting during



Anti restart system engine operation.



Ergonomically positioned pedals Based on human engineering, the accelerator, brake and inching pedals are optimally

positioned for convenience while operating the equipment.



#### New high visibility for safe operation

The operator is able to work with increased safety and accuracy due to a



## Full-Floating headquard

The anti-vibration rubber is installed between the guard and truck frame to reduce the source of vibration and noise while driving. This not only reduces operator's fatique but also increases safety.

High Durability & Easy Maintenance

**Ergonomics driving** space design!

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



Expansion bellows The expansion bellows absorbs vibration and reduces noise generated from the exhaust gas system and also extends the life cycle of

exhaust gas system.



Fully hydrostatic power steering

A hydraulic steering system always guarantees smooth and flexible steering, preventing overrun and kick-back.



Large footboard Wide open step offers convenience and safety when entering and exiting

truck.



Rear safety lamp

Rear combination lamps with directional indicators, rear lights and brake lights are positioned for a high level of safety.

### Highly durable electric shift - power transmission



Highly DurableSplit Type Drive Axle

Powershift transmission provides fast travel speed and quiet travel under any heavy load condition, and boosts work efficiency.



ORFS (O-Ring Face Seal) ORFS type hose prevents the leaking of hydraulic oil.

### Heavy duty single unit frame



#### Heavy duty single unit frame

Heavy duty single unit type frame, designed on the basis of accurate structural analysis, guarantees durability and safety.



Centralized design for easy service!

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



Engine oil condition check



Aluminum radiator with superb Portable Side Cover protection against heat



(6 inch Cyclone Type)





Easy Change Air Cleaner Bright, protected headlights Rotational battery installation



An accessible, compact fuse box for easy inspection



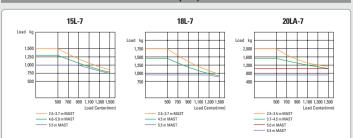


# Specification & Dimension

# Mast Specification

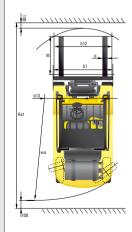
					i	Load Capacityw / o Side Shift 500mm (24 in)LC			Load Capacity w / Side Shift 500mm (24 in LC		Truck Weight Unload		Free Lift							
		Maximum Fork	Overall Height	Tilt Ang		Single Tire		Single Tire		Single Tire		With blor		With / o blor						
Mast Type		Height mm (in)	Lowered mm (in)	(0)	-91	15L-7	18L-7	20LA-7	15L-7	18L-7	20LA-7	15L-7	18L-7	20LA-7	15L-7	18L-7	20LA-7	15L-7	18L-7	20LA-7
				Fwd	Bwd	kg(lb)	kg(lb)	kg(lb)	kg(lb)	kg(lb)	kg(lb)	kg(lb)	kg(lb)	kg(lb)	mm(in)	mm(in)	mm(in)	kg(lb)	kg(lb)	kg(lb)
	V250	1,755 (69.1)	2,525 (99.4)	6	10	1,500(3,000)	1,750(3,500)	2,000(4,000)	1,400 (3,000)	1,650(3,500)	1,890 (4,000)	2,764 (6,094)	2,938(6,478)	3,085(6,801)	145(57)	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	*V270	1,855 (73.0)	2,725 (107.3)	6	10	1,500(3,000)	1,750(3,500)	2,000(4,000)	1,400 (3,000)	1,650(3,500)	1,890 (4,000)	2,778 (6,124)	2,952(6,508)	3,099(6,831)	145(5.7 )	145(5.7)	150(5.9)	145 (5.7)	145(5.7)	150(59)
	V300	2,005 (78.9)	3,025 (119.1)	6	10	1,500(3,000)	1,750(3,500)	2,000(4,000)	1,400 (3,000)	1,650(3,500)	1,890 (4,000)	2,798 (6,169)	2,972(6,552)	3,119(6,875)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	V330	2,155 (84.8)	3,325 (130.9)	6	10	1,500(3,000)	1,750(3,500)	2,000(4,000)	1,400 (3,000)	1,650(3,500)	1,890 (3,900)	2,818 (6,213)	2,992(6,597)	3,139(6,920)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
2-Stage Limited	V350	2,255 (88.8)	3,525 (138.8)	6	10	1,500(3,000)	1,750(3,500)	2,000(4,000)	1,400 (3,000)	1,650(3,475)	1,890 (3,850)	2,832 (6,243)	3,006(6,626)	3,152(6,950)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(57)	150(5.9)
Free Lift	V370	2,355 (92.7)	3,725 (146.7)	6	10	1,500(3,000)	1,750(3,500)	1,950(3,975)	1,400 (3,000)	1,650(3,425)	1,845 (3,775)	2,845 (6,273)	3,019(6,656)	3,166(6,979)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	V400	2,505 (98.6)	4,025 (158.5)	6	10	1,450(3,000)	1,735(3,500)	1,550(3,425)	1,365 (2,900)	1,635 (3,225)	1,465 (3,225)	2,870 (6,226)	3,044(6,710)	3,190(7,033)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	V450	2,855 (112.4)	4,525 (178.1)	6	6	1,375(2,975)	1,650(3,350)	1,500(3,300)	1,290 (2,800)	1,550(3,175)	1,420 (3,125)	2,936 (6,473)	3,110(6,857)	3,257(7,180)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	V500	3,105 (122.2)	5,025 (197.8)	6	6	1,300(2,850)	1,450(3,200)	1,000(2,200)	1,225 (2,700)	1,365(3,025)	940 (2,075)	2,970(6,547)	3,144(6,931)	3,290(7,254)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(59)
	V550	3,355 (132.1)	5,525 (217.5)	6	5	1,000(2,200)	950(2,075)	750(1,850)	930 (2,050)	880(1,950)	690 (1,525)	2,990 (6,593)	3,164(5,976)	3,311(7,299)	145(5.7 )	145(5.7)	150(5.9)	145(57)	145(5.7)	150(5.9)
	TF370	1,805 (71.1)	3,735 (147.0)	6	6	1,500(3,000)	1,750(3,500)	1,925(3,925)	1,400 (2,950)	1,650(3,275)	1,820 (3,715)	2,913 (6,423)	3,087 (5,806)	3,243(7,150)	798(31.4)	798(31.4)	803(31.6)	1,299(51.1)	1,299(51.1)	1,300(51.2)
	TF400	1,905 (75.0)	4,035 (158.9)	6	6	1,500(3,000)	1,700(3,475)	1,875(3,850)	1,400 (2,875)	1,600(3,300)	1,775 (3,650)	2,933 (6,465)	3,107(5,845)	3,263(7,193)	898(35.4)	898(35.4)	903(35.6)	1,399 (55.1)	1,399(55.1)	1,400(55.1)
	TF430	2,005 (78.5)	4,335 (170.7)	6	6	1,450(2,975)	1,700(3,400)	1,825(3,750)	1,365 (2,825)	1,600(3,200)	1,725 (3,550)	2,952 (6,508)	3,126(6,891)	3,282(7,235)	998(39:3)	998(39.3)	1,003(395)	1,499 (550)	1,499(590)	1,500(59.1)
	TF450	2,105 (82.5)	4,535 (178.5)	6	6	1,425(2,925)	1,635(3,325)	1,650(3,625)	1,340 (2,750)	1,540(3,150)	1,550 (3,450)	2,971 (6,550)	3,145(6,933)	3,301(7,277)	1,098(43:2)	1,098(43.2)	1,103(43.4)	1,599 (63.0)	1,599(\$20)	1,600(63.0)
3-Stage Full	TF470	2,155 (84.8)	4,735 (186.4)	6	6	1,400(2,875)	1,450(3,200)	1,350(2,975)	1,320 (2,725)	1,365(3,000)	1,275 (2,825)	2,983 (6,575)	3,157(6,958)	3,313(7,303)	1,148(45.2)	1,148(45.2)	1,153(45.4)	1,649(64.9)	1,649(649)	1,650(65.0)
Free Lift	TF500	2,255 (88.8)	5,035 (198.2)	6	6	1,375(2,800)	1,400(3,075)	1,000(2,200)	1,295 (2,650)	1,320(2,925)	935 (2,075)	3,002 (6,619)	3,176(7,003)	3,332(7,346)	1,248(49.1)	1,248(49.1)	1,253(49:3)	1,749 (68.9)	1,749(98.9)	1,750(68.9)
	TF550	2,455 (96.7)	5,535 (217.9)	6	5	1,050(2,300)	1,100(2,425)	750(1,850)	985 (2,175)	1,030(2,300)	690 (1,550)	3,040 (6,702)	3,214(7,086)	3,370(7,430)	1,448(57.0)	1,448(57.0)	1,453(57.2)	1,949(767)	1,949(767)	1,950(76.8)
	TF600	2,655 (104.5)	6,035 (237.6)	6	5	750(1,850)	750(1,850)	500(1,100)	700 (1,550)	700(1,550)	450 (990)	3,112 (6,861)	3,286(7,244)	3,442(7,588)	1,648(649)	1,648(649)	1,653(65.1)	2,149(846)	2,149(846)	2,150(84.6)
	TF650	2,855 (112.4)	6,535 (257.3)	3	3	500(1,100)	500(1,100)	450(990)	450 (990)	450(1,000)	400 (880)	3,157 (6,959)	3,331(7,342)	3,487(7,686)	1,848(728)	1,848(728)	1,853 (72.0)	2,349 (92.5)	2,349(325)	2,350(92.5)
	TF700	3,055 (120.3)	7,035 (277.0)	3	3	350(775)	250(550)	300(660)	300 (675)	200 (450)	250 (560)	3,193 (7,038)	3,367(7,422)	3,523(7,766)	2,048(806)	2,048(80.6)	2,053 (80.8)	2,549(100.4)	2,549(100.4)	2,550(100.4)
				_	_															* Standard

### **Load Capacity**



### Dimension





### Specification

Identification								
1.1	Manufacturer		Hyundai	Hyundai	Hyundai			
1.2	Manufacturer's type designation		15L-7	18L-7	20LA-7			
1.3	Drive: electric (battery or mains) diesel petrol fue	l gas,manual	FUEL GAS / PETROL	FUEL GAS / PETROL	FUEL GAS / PETROL			
1.4	Type of operation hand, pedestrian, standing, seat	ted,order-picker	seated	seated	seated			
1.5	Load capacity/rated load	kg/lb	1,500 / 3,000	1,750 / 3,500	2,000 / 4,000			
1.6	Load center distance	c (mm/in)	500 / 24	500 / 24	500/24			
1.8	Load distance, center of drive axle to fork	x(mm/in)	394 / 15.5	394/15.5	399 / 15.7			
1.9	Wheelbase	y(mm/m)	1,410 / 56	1,410/56	1,410 / 56			

Weights							
2.1	Service weight	kg/lb	2,818 / 6,213	2,992 / 6,596	3,139 / 6,920		
2.2	Axle loading, loaded front/rear	kg	3,726 / 592	4,092 / 650	4,462 / 677		
2.3	Axie loading, unloaded front/rear	kg	1,276 / 1,542	1,234 / 1,759	1,188 / 1,951		

#### 3.1 Tires:solid rubber, superelastic, pneumatic, polyurethano 3.2 Tires size, front( \phi x width) 3.3 Tires size, rear(\phi x width) 3.5 Wheels, number front x rear (x-driven wheels) 6.50-10-12PR 6.50-10-12PR 6.50-10-12PR 5.00-8-10PR 5.00-8-10PR 5.00-8-10PR 2×2 3.6 Track width, front 890 / 35 890 / 35 890 / 35 3.7 Track width, rear 910/35.8 910/35.8 910/35.8

4.1	miast / fork carriage tit forward / dackward W/P/	cegrees	0 / 10	0 / 10	0 / 10
4.2	Lowered mast height	h1 (mm(in)	2,155/85	2,155/85	2,155 / 85
4.3	Free lift	h2 (mm(in)	145 / 5.7	14550 / 5.7	150 / 5.9
4.4	Lift height	h3 (mm(in)	3,300 / 130	3,300 / 130	3,300 / 130
4.5	Extended mast height	h4 (mm(in)	4,332 / 171	4,332 / 171	4,332 / 171
4.7	Overhead load guard (cab) height	h5 (mm(in)	2,110/83	2,110/83	2,110 / 83
4.8	Seat height / standing height	h7 (mm(in)	1,040 / 41	1,040 / 41	1,040 / 41
4.12	Coupling height	h10 (mm(in)	262 / 10.3	261 / 10.3	258 / 10.2
4.19	Overall length	II (mm(in)	3,133 / 123	3,163 / 125	3,203 / 126
4.20	Length to face of forks	12 (mm(in)	2,233 / 88	2,263 / 89	2,303 / 91
4.21	Overall width	b1 (mm(in)	1,070 / 42	1,070 / 42	1,070 / 42
4.22	Fork dimensions(hook type)	l/w/t/mm(in)	900×100×35/354×4×1.4	900×100×35/354×4×1.4	900 x 100 x 40/35.4 x 4 x 1.5
4.23	Fork carriage ISO 2328, class / type A,B		II/A	II/A	II/A
4.24	Fork-carriage width	b12 (mm(in)	1,060	1,060	1,060
4.31	Ground clearance, loaded, under mast	m1(mm(in)	120 / 4.7	120 /4.7	120/4.7
4.32	Ground clearance, centre of wheelbase	m2(mm(in)	145 / 5.7	145 / 5.7	145 / 5.7
4.33	Aisle width for pallets 1,000x1,200 crossways (LxN	) Astjmm(in)	3,491 / 137.4	3,491 / 137.4	3,496 / 138
4.34	Aisle width for pallets 800x1,200 lengthways (WxL)	Astjmm(in)	3,891 / 145	3.691 / 145	3.696 / 146
4.35	Turning radius	Wa(mm(in)	1,897 / 75	1,897 / 75	1,897 / 75
4.36	Smallest pivot point distance	b13(mm/in)	586 / 23	586 / 23	586 / 23

Performance Data								
5.1	Travel speed, unloaded	km/h / mph	20.7 / 12.9	20.7 / 12.9	20.7 / 12.9			
5.2	Lift speed, loaded/ unloaded	mm/s	650/680	650/680	650 / 680			
5.3	Lowering speed, loaded/unloaded	mm/s	500/450	500/450	500 / 450			
5.5	Drawbar pull, loaded	kg/lb	1,520 / 1,457	1,528 / 1,451	1,540 / 1,448			
5.7	Gradient performance, loaded/ unloaded	%	37 / 24	33.1 / 21.8	31 / 20			
5.9	Acceleration time, loaded/ unloaded(10m)	sec	NA NA	NA NA	NA NA			
5.10	Service brake		Mechanic / Hydraulic	Mechanic / Hydraulic	Mechanic / Hydraulic			

Engine							
6.1	Engine manufacturer / type	HMC BETA	HMC BETA	HMC BETA			
6.2	Engine power acc. to ISO 1585	kW	37	37	37		
6.3	Rated speed	1/min	2,450	2,450	2,450		
6.4	No. of cylinder / cubic capacity	anz/or	4/1,975	4/1,975	4 / 1,975		
6.5	Fuel consumption acc. To VDI cycle	£/h	NA NA	NA.	NA		

Other Details								
8.1	Type of drive control	Power Shift	Power Shift	Power Shift				
8.2	Operating pressure(System / Attach)	bar	195 / 153	195 / 153	195 / 153			
8.3	Oil volume	l.	30	30	30			
8.4	Sound level at driver's ear according to DIN 12 053	db(A)	NA NA	NA.	NA.			
1)with	1 with DZ mast +25mm; with integrated sideshift x=375mm/with DZ mast +25mm/with hook-on sideshift x=410.5mm/with DZ mast +25mm							

8