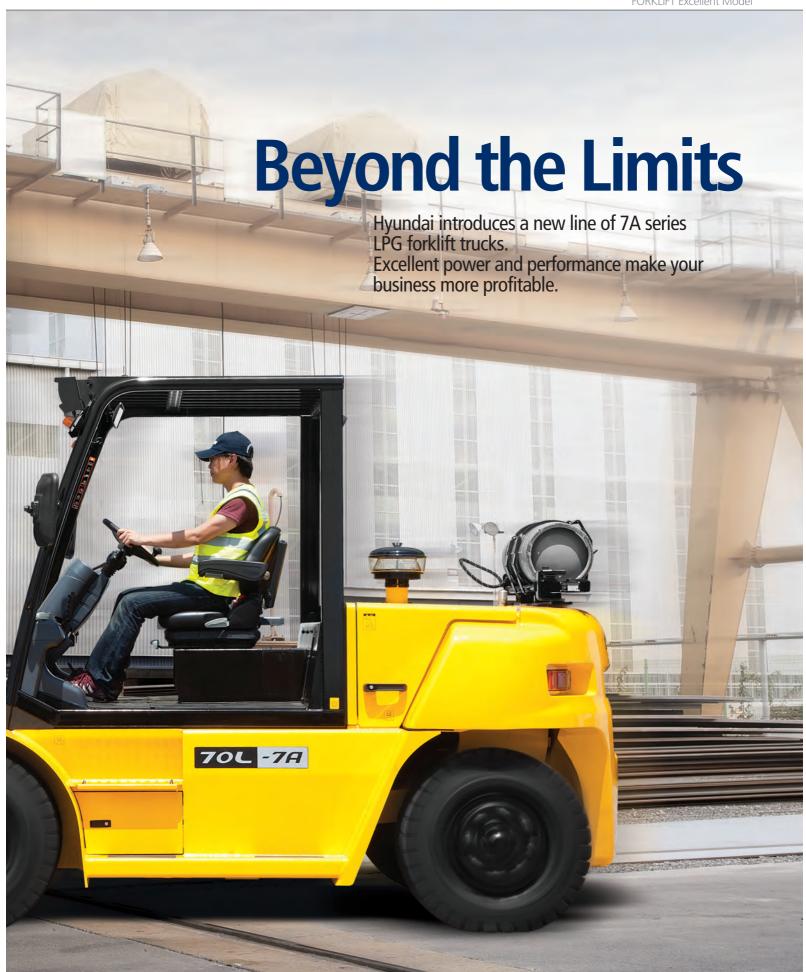


HYUNDAI LPG FORKLIFT TRUCKS Applied Tier 4 Engine

60L/70L-7A





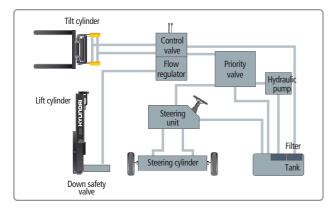


### The new master on the job-site!

Smooth running, efficient and ergonomically designed, 60/70L-7A series are made to meet your needs.







#### State-of-the-art Hydraulic System

The large-capacity hydraulic system responds quickly during operation, and a low-noise control valve increases both efficiency and durability.



Fully Hydrostatic Power Steering

This provides smooth and flexible steering, preventing overrun and kick-back.





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

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

# Faster Travel Speed & Better Gradability

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

### **Gradability**(Loaded)

60L-7A: 45.6% 60L-7A: 14 mph 70L-7A: 40.6% 70L-7A: 14 mph

Travel Speed(Unloaded)



## **Ergonomic operator friendly** compartment design!

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

#### **Operator Friendly Gauges and Water**resistant Monitor Panel



- Parking brake lampTurn lamp

- Engine oil warning lamp
   Transmission oil temperature warning lamp
   Battery charging warning lamp
   Air cleaner filter warning light
- Working light indicator
  Seat belt warning

- Engine check lamp
- Brake oil warning lamp



#### **Full Suspension Seat**

An attractive and adjustable seat, based on a human engineering design, provides great comfort, safety and durability.



#### **New High Visibility for Safe Operation**

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





#### **Ergonomically Positioned Pedals**

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



#### **Cup Holder & Console Box**

Additional storage spaces are located inside the operating space for operator's convenience.



#### **Quick Response of Operating Control Levers**

Only minimal operator's effort is required for precise, safe and productive control.





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.



**Easy and Safe Shift Lever**A single lever on the left side of the steering column gives the operator fast, easy control of direction. The lever must be in the neutral position before the engine can be started.



**Secondary Horn**Secondary Horn gives access to lights and horn.

# **Danger-free through high durability!**

Safety and durability are priorities in the design of the equipment.



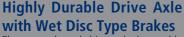
**Strong Overhead Guard** 

The safety overhead guard meets ISO 6055 regulation and protects the operator during hazardous jobs.



**Parking brake** 

Ratchet type parking brake requires less effort the operator to set.



The strengthened drive axle (seperable from the transmission) ensures low vibration and easy maintenance. Wet disc brakes provide smooth braking, and are virtually maintenance free.



#### OPSS (Operator Presence Sensing System)

Mast tilting, lifting, and lowering functions become inoperable when the operator is not present in the seat."









**Large Footboard & Hand Grip** 

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





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



**Bright, Protected Headlights**Bright, Protected head lights are positioned for exceptional visibility.



#### **Ground Clearance**

The engine and transmission are assembled horizontally and positioned high in the frame to protect major components during operation on rugged surface.

# Designed for quick and easy service!

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



**Large Engine Hood** 

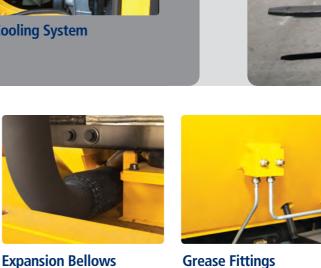
Highly accessible engine compartment assures fast and efficient maintenance.



**Easy Change Air Cleaner** The air filter is readily accessible for cleaning or replacement.



**Up-to-date Cooling System** 



#### **Brake Fluid Reservoir** with Level Switch

When brake oil level became lower than Min., the warning lamp on the cluster lights on.



**Easy Maintenance Oil** Check

The T/M oil level can be checked easily without any disassembly.



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



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





**Maintenance Free Battery** 



**Large Tool Box**Additional tool box located in machine side for operator's convenience.



Easy-to-access Reservoir Tank



Wing Cover Locking System

### **Mast Specification**

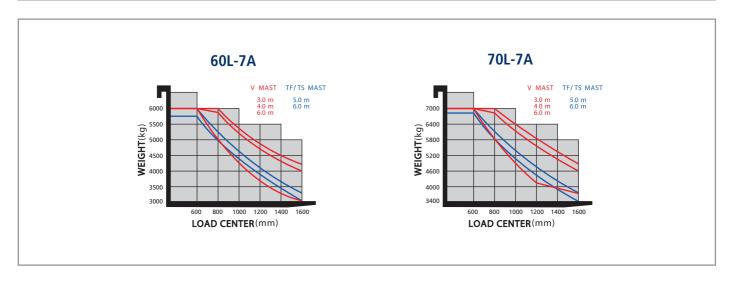
	Mast Type		Maximum Fork Height (in)	Overall Height(in)			Free Lift (in)						
Model				Extended		Maril III	Maril Coll 1	Tilt Angle (deg)		Load Capacity without	Load Capacity with	Truck Weight	
				Lowered	W/o Load	W/Std Load Backrest	Backrest	Backrest			side shift at 24in LC (lb)	side shift at 24in LC (lb)	(Unloaded)(lb)
					Backrest				Fwd	Bwd			
60L-7A	2 Stage limited free lift	V270	107	93	154	158	5.5	5.5	15	10	13,228	13,228	19,354
		*V300	119	99	166	170	5.5	5.5	15	10	13,228	13,228	19,451
		V330	131	105	178	182	5.5	5.5	15	10	13,228	13,228	19,564
		V350	139	109	185	190	5.5	5.5	15	10	13,228	13,228	19,634
		V370	147	113	193	198	5.5	5.5	15	10	13,228	13,228	19,705
		V400	159	119	205	209	5.5	5.5	15	10	13,228	13,228	19,828
		V450	178	131	225	229	5.5	5.5	15	10	13,228	13,228	20,329
		V500	198	140	245	249	5.5	5.5	15	10	13,228	12,897	20,505
		V550	218	150	264	269	5.5	5.5	15	10	13,228	12,456	20,682
		V600	237	160	284	288	5.5	5.5	15	10	13,228	12,125	20,854
	3 Stage full free lift	TF450/TS450	180	101	227	228	54	50	15	10	13,228	12,677	20,790
		TF500/TS500	199	109	247	248	61	58	15	10	13,228	12,346	20,992
		TF560/TS560	220	117	268	269	69	66	15	10	13,118	11,905	21,237
		TF600/TS600	239	125	286	288	77	74	15	10	12,677	11,574	21,429

\*Standard : Hook-on Type Fork & Carriage

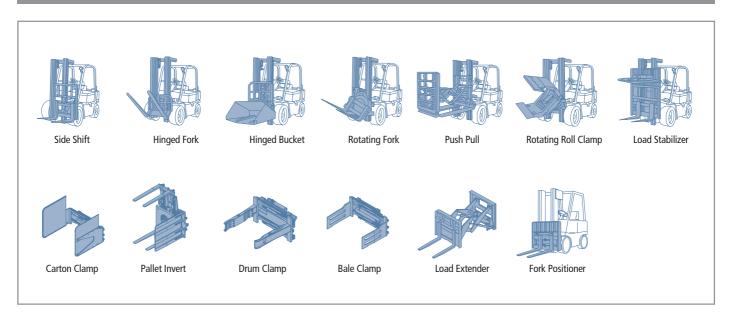
	Mast Type		Maximum Fork Height (in)	Overall Height(in)			Free Lift (in)		The state of				
Model				Extend		nded	\\(\frac{1}{2} = \cdot \	Maril Ci II	Tilt Angle (deg)		Load Capacity without	Load Capacity with	Truck Weight
				Lowered	Backrest Backrest	Fwd	Bwd	side shift at 600in LC (lb)	side shift at 24in LC (lb)	(Unloaded)(lb)			
	2 Stage limited free lift	V270	107	93	154	158	5.5	5.5	15	10	15,432	15,432	20,849
		*V300	119	99	166	170	5.5	5.5	15	10	15,432	15,432	20,957
		V330	131	105	178	182	5.5	5.5	15	10	15,432	15,432	21,059
		V350	139	109	185	190	5.5	5.5	15	10	15,432	15,432	21,129
		V370	147	113	193	198	5.5	5.5	15	10	15,432	15,432	21,200
		V400	159	119	205	209	5.5	5.5	15	10	15,432	15,432	21,323
70L-7A		V450	178	131	225	229	5.5	5.5	15	10	15,432	15,212	21,826
		V500	198	140	245	249	5.5	5.5	15	10	15,432	14,771	22,000
		V550	218	150	264	269	5.5	5.5	15	10	15,432	14,330	22,176
		V600	237	160	284	288	5.5	5.5	15	10	14,991	13,999	22,348
	3 Stage full free lift	TF450/TS450	180	101	227	228	54	50	15	10	15,432	14,551	22,256
		TF500/TS500	199	109	247	248	61	58	15	10	15,212	14,110	22,458
		TF560/TS560	220	117	268	269	69	66	15	10	14,771	13,669	22,703
		TF600/TS600	239	125	286	288	77	74	15	10	14,330	13,338	22,897

\*Standard : Hook-on Type Fork & Carriage

#### **Load Capacity**



#### **Various Attachments**



#### **Optional Items**

- · FORK (in)
  - .53/59/71/79/94
- **OVER SHOE** 71 / 79 / 87 91
- · SOLID NON-MARKING
- $\cdot$  SEAT : SEAT BELT, ARM REST, HIP REST
- $\cdot \, \text{INTERNAL PIPING} \,$

- · CABIN & HEATER
- CABIN, HEATER
- $\cdot \, \textbf{MUFFLER} : \mathsf{HORIZONTAL}$
- $\cdot \, \textbf{LPG TANK CLAMP} : \mathsf{DUAL}$
- · MASTER SWITCH
- $\cdot \, \text{ELE.BEACON}$
- · HAZARD SWITCH

- MCV: 3-SPOOL / 4-SPOOL / 5-SPOOL
- $\cdot \, \text{INTEGRAL FORK POSITIONER CARRIAGE} \\$
- · INTEGRAL SIDE SHIFT CARRIAGE
- · INTEGRAL S/S WITH F/P CARRIAGE

# **Notes**

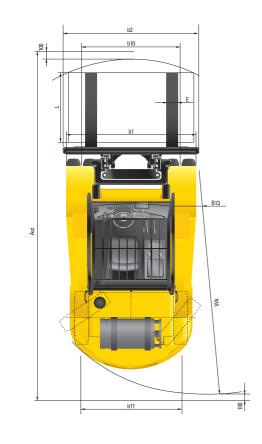


# **Notes**



#### Dimension





### Specification

1.2   Manufacturer's type designation							
1.3   Drive electric floatney or mains), deset peter (Junel general seated   seate	1.1	Manufacturer		Hyundai	Hyundai		
1.4   Type of operation thand production standing-seated order pictor   Seated   Seated   Seated   Seated   15,432   16,432   16,432   18,432   1	1.2	Manufacturer's type designation		60L-7A	70L-7A		
1.5 Load capacity / rated load	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas,	,manual	LP	LP		
1.6.         Load center distance         c (ρ)         24         24         24           1.8.         Load distance, center of chieva ale to fox         x (ρ)         24         24         94           1.9.         Wheelbook         y (ρ)         9 19         9 1         9 1           Weights           2.1.         Service weight         b         29,0117,3754         32,1081,4114         23,21081,4114         32,1081,4114         32,2081,41	1.4	Type of operation:hand,pedestrian,standing,seated,o	rder-picker	seated	seated		
1.8         Load distance, center of drive ade to fork         x (n)         24         24         24           1.7         Whereloace         y (n)         91         91           Weights         Service weight         b         19,537         20,790           2.2         Ale loading, loaded fronther         b         29,011 / 3,754         32,108 / 4,114           2.3         Ale loading, unloaded fronther         b         8,796 / 10,653         8,525 / 12,267           Wheels, Chassis           3.1         Tires sole, foreity, width x (Φ)         8,25+15         8,25+15           3.3         Tires size, freet (width x (Φ))         8,25+15         8,25+15           3.3         Tires size, reet (width x (Φ))         8,25+15         8,25+15           3.6         Track width, front or rare (x-e-thern wheels)         462         452           4.6         Track width, front or rare (x-e-thern wheels)         462         462           3.7         Track width, front or rare (x-e-thern wheels)         462         462           4.6         Track width, front or rare (x-e-thern wheels)         472         452           4.7         Mark (x-e-thern wheels)         452         452           4.1         Mark (x-e-thern whe	1.5	Load capacity / rated load	Q (lb)	13,228	15,432		
1.9   Wheelbase   y(in)   91   91   91   91   91   91   91   9	1.6	Load center distance	c (in)	24	24		
Velights	1.8	Load distance, center of drive axle to fork	x (in)	24	24		
2.1   Service weight         b         19,537         20,790           2.2   Ake loading, loaded fronthear         b         29,011 3,754         32,108 4,114           2.3   Ake loading, loaded fronthear         b         8,796 10,653         8,525 12,267           Wheels, unbed fronthear         b         8,796 10,653         8,525 12,267           Vision of the control width x OP         8,25-15         8,25-15         8,25-15           3.3   Tires size, rear (width x OP)         8,25-15         8,25-15         8,25-15           3.3   Tires size, rear (width x OP)         452         452         452           4.5   Tack width, front         b10 (n)         62         62         62           3.7   Tack width, rear         b11 (n)         63         63         88           Basic Dimensions           Uswered mast height         h1 (n)         99         99         99           4.2   Lowered mast height         h1 (n)         99         99         99           4.3   Free lift         h2 (n)         5.5         5.5         5.5           4.4   Uf theight         h3 (n)         119         119         119           4.7   Overhead guard (cab) height         h3 (n)	1.9	Wheelbase	y (in)	91	91		
2.2         Ade loading loaded frontieer         b         2,9,011 / 3,754         3,2,108 / 4,114           2.3         Ade loading unloaded frontieer         b         8,796 / 10,653         8,525 / 12,267           Wheels, Stassis           3.1         Tires scole front (with x Φ)         8,25 / 15         8,25 / 15           3.2         Tires size, front (with x Φ)         8,25 / 15         8,25 / 15           3.5         Wheels, number front x rear (x=driven wheels)         452         452           3.6         Track width, front         b 10 (m)         62         62           3.7         Track width, front         b 10 (m)         62         62           3.6         Track width, front         b 10 (m)         62         62           3.7         Track width, front         b 11 (m)         63         63           Bast         Bisself the carries of the control bedowned (a/β)         degree         15 / 10         15 / 10           4.1         Mast / fork carriage lift froward badowned (a/β)         degree         15 / 10         15 / 10           4.2         Lovered mast height         h 1 (m)         99         99         99           4.3         Freat lift         h 2 (m)         h 1 (m)	Weig	hts					
2.3   Avie loading, unloaded frontiver   b   8,796 / 10,653   8,525 / 12,267	2.1	Service weight	lb	19,537	20,790		
Wheels, Chassis   Pneumatic	2.2	Axle loading, loaded front/rear	lb	29,011 / 3,754	32,108 / 4,114		
3.1         Tressold nubber, superplastic, preumatic polyurethane         Pneumatic           3.2         Tires size, front(width x Φ)         8.25-15         8.25-15           3.3         Tires size, front(width x Φ)         8.25-15         8.25-15           3.5         Wheels, number front x rear (x-edriven wheels)         452         452           3.6         Track width, front         b10 (n)         62         62           3.7         Track width, front         b11 (n)         63         63           8asic Dimensions         8         8         8         8           4.1         Mast fook carriage tilt froward / backward (α/β)         degres         15 / 10         15 / 10           4.2         Lowerd mast height         h1 (n)         99         99         99           4.2         Lowerd mast height         h3 (n)         119         119           4.4         Lift height         h3 (n)         119         119           4.5         Estended mast height         h4 (n)         170         170           4.5         Detended mast height         h6 (n)         170         170           4.8         Seat height / standing height         h7 (n)         150         55         55 <td>2.3</td> <td>Axle loading, unloaded front/rear</td> <td>lb</td> <td>8,796 / 10,653</td> <td>8,525 / 12,267</td>	2.3	Axle loading, unloaded front/rear	lb	8,796 / 10,653	8,525 / 12,267		
3.1         Tressold nubber, superplastic, preumatic polyurethane         Pneumatic           3.2         Tires size, front(width x Φ)         8.25-15         8.25-15           3.3         Tires size, front(width x Φ)         8.25-15         8.25-15           3.5         Wheels, number front x rear (x-edriven wheels)         452         452           3.6         Track width, front         b10 (n)         62         62           3.7         Track width, front         b11 (n)         63         63           8asic Dimensions         8         8         8         8           4.1         Mast fook carriage tilt froward / backward (α/β)         degres         15 / 10         15 / 10           4.2         Lowerd mast height         h1 (n)         99         99         99           4.2         Lowerd mast height         h3 (n)         119         119           4.4         Lift height         h3 (n)         119         119           4.5         Estended mast height         h4 (n)         170         170           4.5         Detended mast height         h6 (n)         170         170           4.8         Seat height / standing height         h7 (n)         150         55         55 <td>Whee</td> <td>els. Chassis</td> <td></td> <td></td> <td></td>	Whee	els. Chassis					
3.2   Tree size, front( width x Φ)   8.25-15   8.25-15     3.3   Wheek, marker front x rear (x-cdriven wheek)   452   452     3.6   Track width, front   b10 (n)   62   62     3.7   Track width, rear   b11 (n)   63   63     8astr   Dimensions			ırethane	Pneumatic	Pneumatic		
3.3   Tires size, rear (width x Φ)			arcularic				
3.5         Wheels, number front x rear (x=chiven wheels)         452         452           3.6         Track width, front         b10 (n)         62         62           3.7         Track width, front         b11 (n)         63         63           Basic Dimensions           4.1         Mast / fork carriage lit forward / backward (α/β)         degrees         15 / 10         15 / 10           4.2         Lowered mast height         h1 (in)         99         99         99           4.3         Free lift         h2 (n)         5.5         5.5         5.5           4.4         Lift height         h3 (in)         119         119         119           4.5         Extended mast height         h4 (in)         170         170         170           4.7         Overhead guard (cal) height         h5 (in)         98         98         98           4.8         Seat height / sanding height         h7 (in)         55         55         55           4.12         Coxpling height         h7 (in)         16 in)         188         190           4.12         Oxerall width         b1 (in)         188         190         14           4.19         Oxerall width	$\overline{}$						
3.6 Track width, front b10 (in) 62 62 62 3.7 Track width, rear b11 (in) 63 63  8ast Dimensions  4.1 Mast / fork carriage lift forward / backward (or/β) degrees 15 / 10 15 / 10  4.2 Lowered mast height 11 (in) 99 99 99  4.3 Free lift 12 (in) 5.5 5.5 5.5  4.4. Lift height 13 (in) 119 119 119  4.5 Estanded mast height 15 (in) 170 170 170  4.7 Overhead guard (ach) height 15 (in) 98 98  4.8 Seat height / sarding height 16 (in) 170 170  4.7 Overhead guard (ach) height 16 (in) 98 98 98  4.8 Seat height / sarding height 16 (in) 18 98 98  4.8 Seat height / sarding height 16 (in) 18 98 98  4.8 Loughing height 16 (in) 18 18 190  4.10 Coupling height 16 (in) 18 18 190  4.20 Length to face of forks 12 (in) 141 143 143  4.21 Coverall width 16 (in) 82 82 82  2.2 Fork carriage width 16 (in) 82 82 82  2.2 Fork carriage width 16 (in) 82 83 82  4.24 Fork carriage width 16 (in) 81 81 81 81  4.31 Ground desarroe, centre of wheebase m2 (in) 8.7 7 7.7 7.7  4.32 Ground desarroe, centre of wheebase m2 (in) 8.7 8.7 8.7  4.33 Asle width for palles 1000x1200 crossways Ast (in) 20 22 204  4.34 Asle width for palles 1000x1200 crossways Ast (in) 210 212  5.1 Travel speed, Unloaded from 98 / 89 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.6 Davobar pull, Loaded 17 from 98 / 89 98 / 89  5.7 Gardiert performance, Loaded 17 from 98 / 89 98 / 89  5.8 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.5 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.6 Davobar pull, Loaded 16 from 98 / 89 98 / 89  5.7 Gardiert performance, Loaded 17 from 98 / 89 98 / 89  5.8 Davobar pull, Loaded 17 from 98 / 94  5.9 Davobar pull, Loaded 17 from 98 / 94  5.1 Engine power acc to 50 1585 hp 99  5.2 Tor	-						
Sasic Dimensions	-		h10 (in)				
Basic Dimensions	$\overline{}$						
4.1         Mast / fork carriage tilt forward / backward (α/β)         degrees         15 / 10         15 / 10           4.2         Lovered mast height         h 1 (n)         99         99           4.3         Free lift         h 2 (n)         5.5         5.5           4.4         Lift height         h 3 (n)         119         119           4.5         Extended mast height         h 4 (n)         170         170           4.7         Overhead guard (cab) height         h 5 (n)         98         98           4.8         Seat height / standing height         h 7 (n)         55         55           4.12         Coupling height         h 10 (n)         17         17           4.19         Overall length         l 1 (n)         188         190           4.20         Length to face of forks         12 (n)         141         143           4.21         Overall width         b 1 (n)         82         82           4.22         Length to face of forks         12 (n)         141         143           4.21         Overall width         b 1 (n)         82         82           4.22         Fork dimensions         s / e / (n)         2.5 x 5.9 x 47         2.5 x 5.9 x 47			טוו (ווו)	03	03		
4.2         Lowered mast height         h1 (in)         99         99           4.3         Free lift         h2 (in)         5.5         5.5           4.4         Lift height         h3 (in)         119         119           4.5         Extended mast height         h4 (in)         170         170           4.7         Overhead guard (cab) height         h5 (in)         98         98           4.8         Seat height / Standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         H1 (in)         188         190           4.20         Length to face of forks         L2 (in)         141         143           4.21         Overall width         b1 (in)         82         82         22           4.22 Fork dimensions         s /e / (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>							
4.3         Free lift         h2 (in)         5.5         5.5           4.4         Lift height         h3 (in)         119         119           4.5         Extended mast height         h4 (in)         170         170           4.7         Overhead guard (cab) height         h5 (in)         98         98           4.8         Seat height / standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         H (in)         188         190           4.20         Length to face of forks         L2 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.21         Overall width         b1 (in)         82         82           4.22         Fork dimensions         s /e / (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.23         Fork carriage width         b12 (in)         81         81         81           4.24         Fork carriage width         b12 (in)         81         81         81           4.24         Fork carriage width         b12 (in)         87         8.7<							
4.4         Lift height         h3 (in)         119         119           4.5         Extended mast height         h4 (in)         170         170           4.7         Overhead guard (cab) height         h5 (in)         98         98           4.8         Seat height / standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall ength         I1 (in)         188         190           4.20         Length to face of forks         I2 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.22         Fork carriage los 02328, class / type AB         Class IV         Class IV           4.23         Fork carriage width         b12 (in)         81         81           4.24         Fork carriage width         b12 (in)         81         81           4.23         Fork carriage width         b12 (in)         81         81           4.24         Fork carriage width         b12 (in)         81         81           4.31         Ground dearance, centre of wheelase         m2 (in)         8.7         7.7	-						
4.5         Extended mast height         h4 (in)         170         170           4.7         Overhead guard (cab) height         h5 (in)         98         98           4.8         Seat height / standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         H1 (in)         188         190           4.20         Length to face of forks         L2 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.22         Fork dimensions         s /e /l (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.22         Fork carriage ISO 2238, dass / type AB         Class IV         Class IV           4.23         Fork carriage ge width         b12 (in)         81         81           4.31         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7         7.7           4.32         Ground clearance, centre of wheelbase         m2 (in)         8.7         8.7         8.7           4.33         Aisle width for pallets 800x1200 lengthways         Ast (in)         202         204           4.34							
4.7         Overhead guard (ab) height         h5 (in)         98         98           4.8         Seat height / standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         I1 (in)         188         190           4.20         Leight foace of forks         12 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.22         Fork dimensions         s /e /l (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.23         Fork carriage bro 2328, dass / type A,B         Class IV         Class IV           4.24         Fork carriage bro 2328, dass / type A,B         Class IV         Class IV           4.24         Fork carriage wordh         b12 (in)         81         81           4.31         Ground desarrace, loaded, under mast         m1 (in)         7.7         7.7         7.7           4.32         Ground desarrace, loaded, under mast         m1 (in)         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         8.7         8.7	-	,					
4.8         Seat height / standing height         h7 (in)         55         55           4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         11 (in)         188         190           4.20         Length to face of forks         12 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.22         Fork dimensions         s /e /l (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.23         Fork carriage in SO 2328, dass / type AB         Class IV         Class IV           4.24         Fork carriage in SO 2328, dass / type AB         Class IV         Class IV           4.24         Fork carriage width         b12 (in)         81         81           4.24         Fork carriage width         b12 (in)         81         81           4.31         Ground dearance, leader meat         m1 (in)         7.7         7.7         7.7           4.32         Ground dearance, centre of wheelbase         m2 (in)         8.7         8.7           4.32         Ground dearance, centre of wheelbase         m2 (in)         8.7         8.7           4.34         Asie width for pallets 800	-						
4.12         Coupling height         h10 (in)         17         17           4.19         Overall length         l1 (in)         188         190           4.20         Length to face of forks         12 (in)         141         143           4.21         Overall width         b1 (in)         82         82           4.22         Fork dimensions         s /e /l (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.23         Fork carriage ISO 2328, dass / type AB         Class IV         Class IV           4.24         Fork carriage width         b12 (in)         81         81           4.31         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7           4.32         Grox carriage width         b12 (in)         8.7         8.7           4.33         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7           4.33         Asid width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Asile width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest ploot point dist							
A.19   Overall length   It (in)   188   190	-						
4.20   Length to face of forks   12 (in)   141   143   143   142   142   142   142   142   142   142   142   142   142   143	$\overline{}$						
A21   Overall width	4.19	Overall length	l1 (in)	188	190		
4.22         Fork dimensions         s / e / l (in)         2.5 x 5.9 x 47         2.5 x 5.9 x 47           4.23         Fork carriage ISO 2328, class / type A,B         Class IV         Class IV           4.24         Fork-carriage width         b12 (in)         81         81           4.31         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7           4.32         Ground clearance, centre of wheelbase         m2 (in)         8.7         8.7           4.33         Asise width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Asise width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14           5.2         Lift speed, Loaded/Unloaded         ff/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ff/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb	4.20	Length to face of forks	l2 (in)	141	143		
A.23   Fork carriage ISO 2328, dass / type A,B   Class IV   Class IV	4.21	Overall width	b1 (in)	82	82		
4.24         Fork-carriage width         b12 (in)         81         81           4.31         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7           4.32         Ground clearance, centre of wheelbase         m2 (in)         8.7         8.7           4.33         Aisle width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Aisle width for pallets 900x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14         14           5.2         Lift speed, Loaded/Unloaded         ff/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ff/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic	4.22	Fork dimensions	s/e/l(in)	2.5 x 5.9 x 47	2.5 x 5.9 x 47		
4.31         Ground clearance, loaded, under mast         m1 (in)         7.7         7.7           4.32         Ground clearance, centre of wheelbase         m2 (in)         8.7         8.7           4.33         Aside width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Aside width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine manufacturer / type         GM 4.3L V6 <td< td=""><td>4.23</td><td>Fork carriage ISO 2328, class / type A,B</td><td></td><td>Class IV</td><td>Class IV</td></td<>	4.23	Fork carriage ISO 2328, class / type A,B		Class IV	Class IV		
4.32         Ground clearance, centre of wheelbase         m2 (in)         8.7         8.7           4.33         Aisle width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Aisle width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83         83 / 83           5.2         Lift speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126         5.7           5.7         Gradient performance, Loaded         %         45.6         40.6         5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine power acc. to ISO 1585         hp         94         94         94         94         94         94 <t< td=""><td>4.24</td><td>Fork-carriage width</td><td>b12 (in)</td><td>81</td><td>81</td></t<>	4.24	Fork-carriage width	b12 (in)	81	81		
4.33         Aisle width for pallets 1000x1200 crossways         Ast (in)         202         204           4.34         Aisle width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4	4.31	Ground clearance, loaded, under mast	m1 (in)	7.7	7.7		
4.34         Aisle width for pallets 800x1200 lengthways         Ast (in)         210         212           4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         b         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydraulic           Foot: Hydra	4.32	Ground clearance, centre of wheelbase	m2 (in)	8.7	8.7		
4.35         Turning radius         Wa (in)         131         133           4.36         Smallest pivot point distance         b13 (in)         48         48           Performance Data           5.1         Travel speed, Unloaded         mph         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /in*         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power	4.33	Aisle width for pallets 1000x1200 crossways	Ast (in)	202	204		
A.36   Smallest pivot point distance   b13 (in)   48   48	4.34	Aisle width for pallets 800x1200 lengthways	Ast (in)	210	212		
Performance Data	4.35	Turning radius	Wa (in)	131	133		
5.1         Travel speed, Unloaded         mph         14         14           5.2         Lift speed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300         6.4         No. of sylinder / cubic capacity         fin³         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Ojerating pressure         bar         185         185           8.4         Oil volume(system)         §         94         94	4.36	Smallest pivot point distance	b13 (in)	48	48		
5.2         Lifts peed, Loaded/Unloaded         ft/min         83 / 83         83 / 83           5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /in'         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         §         94         94	Perfo	rmance Data					
5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300         6.4         No. of cylinder / cubic capacity         /in³         6 / 262         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         §         94         94	5.1	Travel speed, Unloaded	mph	14	14		
5.3         Lowering speed, Loaded/Unloaded         ft/min         98 / 89         98 / 89           5.5         Drawbar pull, Loaded         lb         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /in'         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         §         94         94	5.2			83 / 83	83 / 83		
5.5         Drawbar pull, Loaded         Ib         15,051         15,126           5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300         6.4         No. of cylinder / cubic capacity         /in²         6 / 262         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94	5.3	•		98 / 89	98 / 89		
5.7         Gradient performance, Loaded         %         45.6         40.6           5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /in²         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94	-			15,051	15,126		
5.10         Service brake         Foot: Hydraulic         Foot: Hydraulic           Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /im²         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94	-			45.6	40.6		
Engine           6.1         Engine manufacturer / type         GM 4.3L V6         GM 4.3L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         11/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /im²         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         &         94         94				Foot : Hydraulic	Foot : Hydraulic		
6.1         Engine manufacturer / type         GM 4.3 L V6         GM 4.3 L V6           6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /im'         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94	$\overline{}$			•			
6.2         Engine power acc. to ISO 1585         hp         94         94           6.3         Rated speed         11/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /m²         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94	_			GM 4.3L V6	GM 4.3L V6		
6.3         Rated speed         1/min         2,300         2,300           6.4         No. of cylinder / cubic capacity         /m²         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94		• • • • • • • • • • • • • • • • • • • •	hn				
6.4         No. of ylinder / cubic capacity         /n³         6 / 262         6 / 262           Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         \$\emptyset\$         94         94		* '					
Other Details           8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         & 94         94		•					
8.2         Type of drive control         Power Shift         Power Shift           8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         & 94         94			/111	07.202	07202		
8.3         Operating pressure         bar         185         185           8.4         Oil volume(system)         ℓ         94         94				Dower Chife	Down Chift		
8.4 Oil volume(system) & 94 94		**	L				
82 Noise OD(A) 82							
	ბ.5	NOISE	OID(A)	82	82		



6100 Atlantic Blvd Norcross, GA 30071 TEL (678) 823 7777 FAX (678) 823 7778 PLEASE CONTACT

www.hceamericas.com

2015. 03 Rev. 0