



■ Photo may include optional equipment.

We build a better future

16/18/20B-7 AC

FORKLIFT TRUCKS Environmental - Friendly



The New AC Control B Series

Designed with a durable frame and built to offer excellent stability and a smooth ride, AC Control B Series trucks are real workhorses.



■ Photo may include optional equipment.

High Technology ZAPI Controller

The efficient, almost noiseless, 8Khz (high frequency) ZAPI controller provides smooth operation, fault detection and protection for high & low voltage and overheating.

- Features
- Regeneration: Direction change, Deceleration, Braking
 - Efficiency of AC motor is higher than this of DC motor (10%)
 - Improved use
 - H (High) Mode, N (Normal) Mode, E (Economic) Mode
 - Turtle Mode



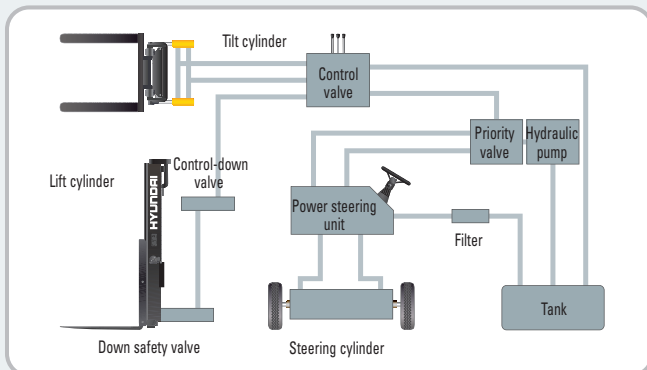
Superior Power & Optimal Performance

Smooth run, efficient and ergonomic design, AC Control B series are built to meet your demands.



Fork Safety Features

When the forks are lowered, a control-down valve maintains the adjusted speed. In case of sudden damage of hydraulic line, the down-safety valve prevents the forks for dropping down.



State-of-the-art Hydraulic System

The latest designed, large-capacity hydraulic system, including a low noise control valve, shortens reaction time during operation and increases efficiency and durability.

Anti-Rollback System, Faster Travel Speed & Grade-ability

The ZAPI's anti-rollback system provides a safe ramp operation plus an exceptional ramp start capability. The powerful high-output motor provides greater acceleration, better grade-ability and faster travel speed on any tough terrain or slope.



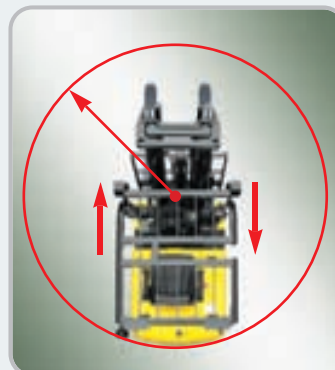
Increased Mast tilting Angle

Utilizing the mast tilting angle of 5 degrees forward and 7 degrees backward, the operator can safely and rapidly perform loading and unloading jobs.



Wet Disc Brake System

The adoption of wet disc type brakes improves the brake performance and makes your service intervals longer. Enclosed brakes are protect against dust and water.



4-Wheel Center Pivot

The new designed 4-wheel center pivot allows the forklift to navigate with an extremely small turning radius.



Full Hydrostatic Power Steering

A hydraulic steering system ensures smooth & precise steering which prevents kick-back.



OPSS (Operator Presence Sensing System)

Mast tilting, lifting and lowering operation is not possible when the operator is not seated in normal position. (Option)

Travel Speed (MAX)

Model	km/h
16B-7	17
18B-7	17
20B-7	17

Grade-ability (MAX)

Model	%
16B-7	16.4
18B-7	15.3
20B-7	13.7



Adjustable Steering Wheel

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



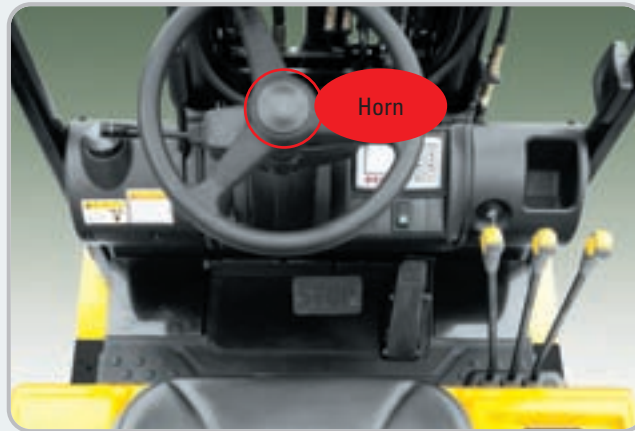
High visibility for safe operation

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



Easy Control Direction Lever

Forward and reverse lever with finger tip control allows the operator to keep control of the equipment.



Perfect Fit

An ergonomically designed operator's compartment enables the driver to select the most comfortable working position for increased productivity.



Multi-Functional Switch

Integrated multi-functional switch lever enables the driver to operate lights and horn conveniently.



Optimum Pedal Position

Based on human engineering, the accelerator and brake pedals are optimally positioned for operator's convenience.



Prompt Response of Operating Control Levers

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



Easily Adjustable Suspension Seat

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

*Options : Seat belt, Arm rests, Hip restraint



Comfortable Operation

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



AC Control System Features

- Excellent Controllability
 - Several performance modes according to working conditions
 - H (High) Mode, N (Normal) Mode, E (Economic) Mode
 - Turtle Mode
 - Slow rolling on ramp & ramp start
- Enhanced System Efficiency : Excellent regeneration & Improved motor efficiency
- Lower maintenance costs : Less wear parts in heart of AC motor (no motor brushes or commutators)
- Enhanced durability by using a sealed AC motor

■ Photo may include optional equipment.



(Self diagnosis / User Password / Speed Unit)

Self - diagnosis LCD Monitor

The LCD monitor has a back-light system to provide a clear view of the system's operation in all circumstances. The monitor provides information about operation errors, system faults, battery level, hour meter, speed, selected mode plus other functions.

Keyboard Buttons

Operator can select performance modes easily according to working conditions.

Console Box & Cup Holder

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



High Durability & Simple Design

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



■ Photo may include optional equipment.



Heavy Duty Single Frame

Designed on the basis of accurate structural analysis, a heavy duty single type frame guarantees durability and safety.



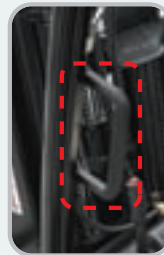
Strong Overhead Guard

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



Parking Brake

Toggle type parking brake requires less effort from the operator to set.



Large Footboard & Hand Grip

Wide "open" step and a large hand grip ensure easy access to the operator's seat.

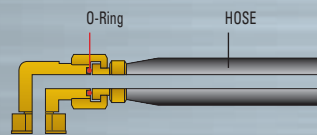


Rear Safety Lamp

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



Battery Locking Device



ORFS (O-Ring Face Seal)

ORFS type hose prevents hydraulic oil leakage.

High quality AC motors

Enclosed motors prolong durability. Fewer wear parts in AC motor reduces maintenance costs and increases reliability.



Easy Maintenance & Serviceability



Easy battery replacement

Battery change is made easy with swing-up compartment and slotted overhead guard.



A centralized fuse box for easy inspection



Oil Tank Port



Steering Sensor



Hydraulic motor



Battery Disconnect Lever



Easy to Check Brake Oil Level



Bright Headlights & Rear Work Light



DC-DC Converter

DC-DC converter, satisfied with UL & CE, with protection against short circuit, overload and reverse polarity.

New 7 Series

Mast Specifications (16/18B-7)

Mast type	Overall height (Lowered) mm		Maximum fork height mm		Free lift mm				Tilt angle (degree) Forward / Backward		Load capacity without side shift at 500 mm LC (24 in LC) kg		Load capacity with side shift at 500 mm LC (24 in LC) kg		Truck weight (Unloaded) kg		
	16B-7	18B-7	16B-7	18B-7	With backrest		Without backrest		16B-7	18B-7	16B-7	18B-7	16B-7	18B-7	16b-7	18B-7	
					16B-7	18B-7	16B-7	18B-7									
2 / Stage limited free lift	V250	1,720	1,720	2,525	2,525	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	2,957	3,157
	V270	1,820	1,820	2,725	2,725	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	2,970	3,170
	V300	1,970	1,970	3,025	3,025	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	2,990	3,190
	* V330	2,120	2,120	3,325	3,325	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	3,009	3,209
	V350	2,220	2,220	3,525	3,525	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	3,022	3,222
	V370	2,320	2,320	3,725	3,725	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	3,036	3,236
	V400	2,470	2,470	4,025	4,025	135	135	135	135	5 / 7	5 / 7	1,600	1,750	1,500	1,650	3,059	3,259
	V450	2,820	2,820	4,525	4,525	135	135	135	135	5 / 5	5 / 5	1,525	1,750	1,435	1,650	3,123	3,323
	V500	3,070	3,070	5,025	5,025	135	135	135	135	5 / 5	5 / 5	1,475	1,725	1,385	1,635	3,156	3,356
	V550	3,320	3,320	5,525	5,525	135	135	135	135	5 / 5	5 / 5	1,425	1,500	1,345	1,420	3,188	3,388
3 / Stage full free lift	TF370	1,770	1,770	3,735	3,735	763	763	1,264	1,264	5 / 5	5 / 5	1,600	1,750	1,500	1,650	3,107	3,307
	TF400	1,870	1,870	4,035	4,035	863	863	1,364	1,364	5 / 5	5 / 5	1,600	1,750	1,500	1,650	3,122	3,322
	TF430	1,970	1,970	4,335	4,335	963	963	1,464	1,464	5 / 5	5 / 5	1,550	1,750	1,450	1,650	3,142	3,342
	TF450	2,070	2,070	4,535	4,535	1,063	1,063	1,564	1,564	5 / 5	5 / 5	1,525	1,750	1,440	1,650	3,157	3,357
	TF470	2,120	2,120	4,735	4,735	1,113	1,113	1,614	1,614	5 / 5	5 / 5	1,500	1,750	1,415	1,650	3,167	3,367
	TF500	2,220	2,220	5,035	5,035	1,216	1,216	1,714	1,714	5 / 5	5 / 5	1,475	1,725	1,395	1,625	3,187	3,387
	TF550	2,420	2,420	5,535	5,535	1,416	1,416	1,914	1,914	5 / 5	5 / 5	1,375	1,425	1,295	1,335	3,225	3,425
	TF600	2,620	2,620	6,035	6,035	1,613	1,613	2,114	2,114	5 / 5	5 / 5	1,000	1,000	930	930	3,288	3,488
	TF650	2,820	2,820	6,535	6,535	1,813	1,813	2,314	2,314	5 / 5	5 / 5	950	950	890	890	3,332	3,532
	TF700	3,020	3,020	7,035	7,035	2,013	2,013	2,514	2,514	5 / 5	5 / 5	675	675	625	625	3,369	3,569

* Standard

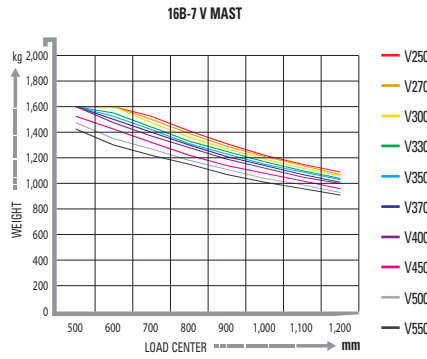
Mast Specifications (20B-7)

Mast type	Overall height (Lowered) mm		Maximum fork height mm		Free lift mm		Tilt angle (degree) Forward / Backward		Load capacity without side shift at 500 mm LC (24 in LC) kg		Load capacity with side shift at 500 mm LC (24 in LC) kg		Truck weight (Unloaded) kg	
	20B-7	20B-7	20B-7	20B-7	With backrest		Without backrest		20B-7	20B-7	20B-7	20B-7	20B-7	20B-7
					20B-7	20B-7								
2 / Stage limited free lift	V250	1,729	1,729	2,530	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,269
	V270	1,829	1,829	2,730	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,283
	V300	1,979	1,979	3,030	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,302
	* V330	2,129	2,129	3,330	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,322
	V350	2,229	2,229	3,530	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,335
	V370	2,329	2,329	3,730	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,348
	V400	2,479	2,479	4,030	140	140	140	140	5 / 7	5 / 7	2,000	1,890	1,890	3,372
	V450	2,829	2,829	4,530	140	140	140	140	5 / 5	5 / 5	1,925	1,825	1,825	3,436
	V500	3,079	3,079	5,030	140	140	140	140	5 / 5	5 / 5	1,850	1,770	1,770	3,468
	V550	3,329	3,329	5,530	140	140	140	140	5 / 5	5 / 5	1,775	1,715	1,715	3,501
3 / Stage full free lift	TF370	1,779	1,779	3,740	777	777	1,278	1,278	5 / 5	5 / 5	1,975	1,865	1,865	3,419
	TF400	1,879	1,879	4,040	877	877	1,378	1,378	5 / 5	5 / 5	1,925	1,825	1,825	3,435
	TF430	1,979	1,979	4,340	977	977	1,478	1,478	5 / 5	5 / 5	1,875	1,785	1,785	3,455
	TF450	2,079	2,079	4,540	1,077	1,077	1,578	1,578	5 / 5	5 / 5	1,850	1,760	1,760	3,470
	TF470	2,129	2,129	4,740	1,127	1,127	1,628	1,628	5 / 5	5 / 5	1,825	1,745	1,745	3,479
	TF500	2,229	2,229	5,040	1,227	1,227	1,728	1,728	5 / 5	5 / 5	1,775	1,705	1,705	3,499
	TF550	2,429	2,429	5,540	1,427	1,427	1,928	1,928	5 / 5	5 / 5	1,700	1,630	1,630	3,537
	TF600	2,629	2,629	6,040	1,627	1,627	2,128	2,128	5 / 5	5 / 5	1,350	1,290	1,290	3,601
	TF650	2,829	2,829	6,540	1,827	1,827	2,328	2,328	5 / 5	5 / 5	1,300	1,240	1,240	3,645
	TF700	3,029	3,029	7,040	2,027	2,027	2,528	2,528	5 / 5	5 / 5	950	900	900	3,681

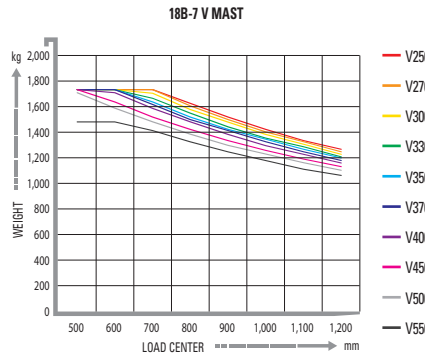
* Standard

Load Capacity

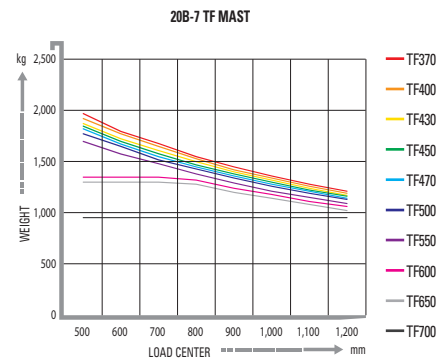
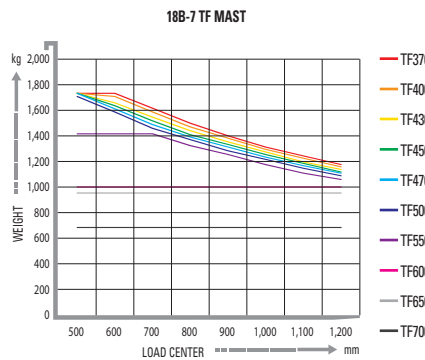
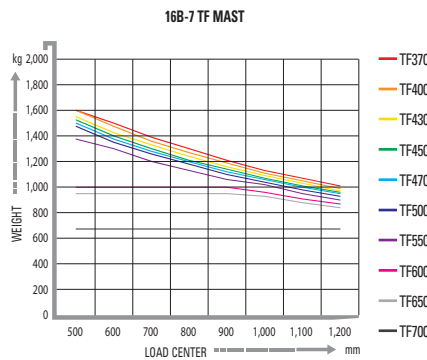
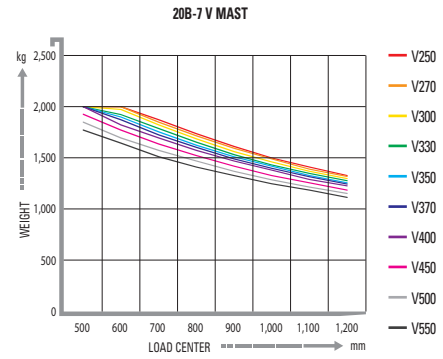
16B-7



18B-7



20B-7



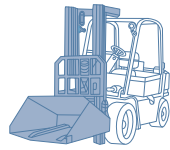
Various Attachments



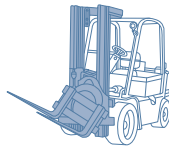
Sideshift



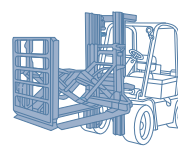
Hinged Forks



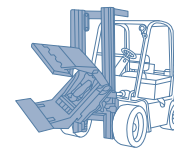
Hinged Bucket



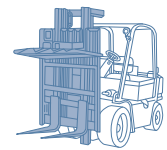
Rotating Forks



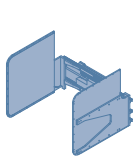
Push Pull



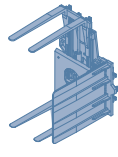
Rotating Roll Clamp



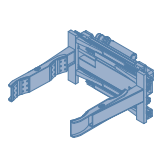
Load Stabilizer



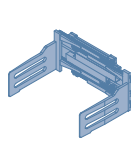
Carton Clamp



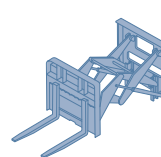
Pallet Turnover



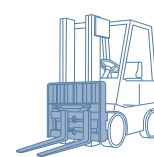
Drum Clamp



Bale Clamp



Reach Forks



Fork Positioner

Optional Items

- Mast**

- 2-Stage mast (Max. Fork Height) (mm)**

2,500 / 2,700 / 3,000 / 3,300 / 3,500 / 3,700 / 4,000 / 4,500 / 5,000 / 5,500

- 3-Stage mast (Max. Fork Height) (mm)**

3,700 / 4,000 / 4,300 / 4,500 / 4,700 / 5,000 / 5,500 / 6,000 / 6,500 / 7,000

- Sideshift**

Sideshift, Integrated sideshift

- Forks**

Long fork

- 35 x 100 x 900 / 1,000 / 1,050 / 1,150 / 1,200 / 1,350 / 1,500

- 40 x 100 x 900 / 950 / 1,000 / 1,050 / 1,150 / 1,200 / 1,350 / 1,500 / 1,600

- Valves & Hose Piping**

3 Spool Internal & 4 Spool Internal Type

- Dual Voltage:** 36/48 Volt

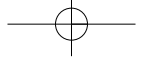
- Cold Storage: until - 30° C working area

- UL & CE:** UL Type "E" & "EE"

- Finger Tip Control**

- Tire**

Solid, Non-Marking cushion Tire



Notes

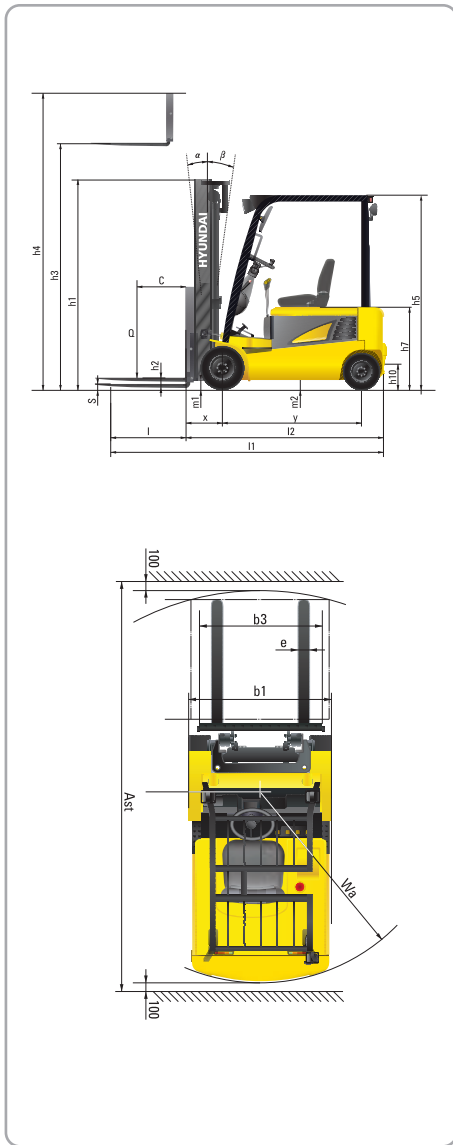
A large rectangular area with rounded corners, containing 25 horizontal lines for writing notes.



Notes

Lined area for notes.

Dimensions



Specifications

Identification

1.1	Manufacturer		HYUNDAI	HYUNDAI	HYUNDAI
1.2	Type		16B-7	18B-7	20B-7
1.3	Drive : electric (battery or mains), diesel, petrol, fuel gas, manual		ELECTRIC	ELECTRIC	ELECTRIC
1.4	Type of operation : hand, pedestrian, standing, seated, order-picker		SEATED	SEATED	SEATED
1.5	Load capacity / rated load	Q kg	1,600	1,750	2,000
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	360	360	365
1.9	Wheelbase	y mm	1,355	1,440	1,440

Weights

2.1	Service weight	kg	2,995	3,195	3,300
2.2	Axle loading, loaded front / rear	kg	4,094 / 501	4,403 / 592	4,724 / 576
2.3	Axle loading, unloaded front / rear	kg	1,463 / 1,532	1,513 / 1,682	1,513 / 1,787

Wheels, Chassis

3.1	Tires : solid rubber, superelastic, pneumatic, polyurethane		SE	SE	SE
3.2	Tires size, front (\varnothing x width)		18 x 7-8	18 x 7-8	200 / 50-10
3.3	Tires size, rear (\varnothing x width)		16 x 6-8	16 x 6-8	16 x 6-8
3.5	Wheels, number front / rear (x = driven wheels)		2 x / 2	2 x / 2	2 x / 2
3.6	Track width, front	mm	895	895	905
3.7	Track width, rear	mm	880	880	880

Basic Dimensions

4.1	Mast / fork carriage tilt forward / backward (α/β)	degrees	5 / 7	5 / 7	5 / 7
4.2	Lowered mast height	h1 mm	2,120	2,120	2,129
4.3	Free lift	h2 mm	135	135	140
4.4	Lift height	h3 mm	3,300	3,300	3,300
4.5	Extended mast height	h4 mm	4,332	4,332	4,332
4.7	Overhead load guard (cab) height	h5 mm	1,970	1,970	1,980
4.8	Seat height	h7 mm	920	920	930
4.12	Coupling height	h10 mm	250	250	250
4.19	Overall length	l1 mm	2,931	3,016	3,031
4.20	Length to face of forks	l2 mm	2,031	2,116	2,131
4.21	Overall width	b1 mm	1,100	1,100	1,105
4.22	Fork dimensions	S x E x L mm	900 x 100 x 35	900 x 100 x 35	900 x 100 x 40
4.23	Fork carriage ISO 2328, class / type A, B		II A	II A	II A
4.24	Fork - carriage width	b3 mm	980	980	980
4.31	Ground clearance, loaded, under mast	m1 mm	85	85	94
4.32	Ground clearance, centre of wheelbase	m2 mm	90	90	100
4.33	Aisle width for pallets 1,000 x 1,200 crossways	Ast mm	3,370	3,455	3,465
4.34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	3,190	3,275	3,285
4.35	Turning radius	Wa mm	1,685	1,770	1,780
4.36	Smallest pivot point distance	mm	-	-	-

Performance Data

5.1	Travel speed, loaded / unloaded	(48V) km/h (36V) km/h	16 / 17 15 / 16	16 / 17 15 / 16	16 / 17 15 / 16
5.2	Lift speed, loaded / unloaded	(48V) mm/sec (36V) mm/sec	410 / 600 330 / 500	410 / 600 330 / 500	410 / 600 330 / 500
5.3	Lowering speed, loaded / unloaded	mm/sec	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, S2 30 min	(loaded) N (unloaded) N	- -	- -	- -
5.6	Max. drawbar pull, S2 5 min	(loaded) N (unloaded) N	15,102 14,759	15,190 14,710	14,367 14,043
5.7	Gradient performance, S2 3 min	(loaded) % (unloaded) %	- -	- -	- -
5.8	Max. gradient performance, S2 5 min	(loaded) %	29.5	27.5	24.5
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic

E - Motor

6.1	Drive motor rating S2 60 min	(48 V / 36 V) kW	4.4 / 3.5	4.4 / 3.5	4.4 / 3.5
6.2	Pump motor rating at S3 - 15 %	(48 V / 36 V) kW	15.8 / 9.9	15.8 / 9.9	15.8 / 9.9
6.4	Battery voltage, nominal capacity K5	(48 V / 36 V) Ah	48 / 505	48 / 585	48 / 585
6.5	Battery weight (min)	kg (lb)	710	835	835
	Battery dimensions L / W / H	mm (in)	990 / 545 / 636	990 / 630 / 636	990 / 630 / 636

Other Details

8.1	Type of drive control		AC	AC	AC
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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. Materials and specifications are subject to change without notice.



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