MOVING YOU FURTHER

25·30 35B-7A



Some of the photos may include optional equipment

HYUNDAI
MATERIAL HANDLING

Your satisfaction is our priority.

Electric forklifts equipped with advanced technology and advanced design. Hyundai's 7A series battery forklift utilizes the latest electronic management systems.

Upgrading customers' businesses with enhanced stability in travel & operations, AC technologies and reasonable prices.

Work efficiency & productivity
- Powerful controls provided by AC driving motor and pump motor(KDS)
- Low center of gravity (deep drop battery) provides enhanced forklift stability
- Spacious ergonomically designed operator compartment
- Full hydraulic steering system
- TCO Li-Ion battery (OPT)

Durability & Reliability
- ZAPI AC Controller
- Robust drive axles equipped with special cast steel and high tensile steel parts
- IP 65 controller

Safety
- Anti-Roll back
- Operator Presence Sensing System(OPSS) (OPT)
- Mast lowering interlock system prevents forks from dropping down in case of sudden damage of hydraulic line
- Toggle type parking brake lever
- Speed limit setting

Easy management
- Pump and traction motor are accessible without battery removal
- Easy to access controllers
- Smart display : alerts & warnings issued upon failure of electric system
- Self-diagnostics of electric system failure



Some of the photos may include optional equipment

Power & Performance

High Efficiency & Optimal Performance

An efficient, smooth running and compact design provides enhanced performance and outstanding productivity.





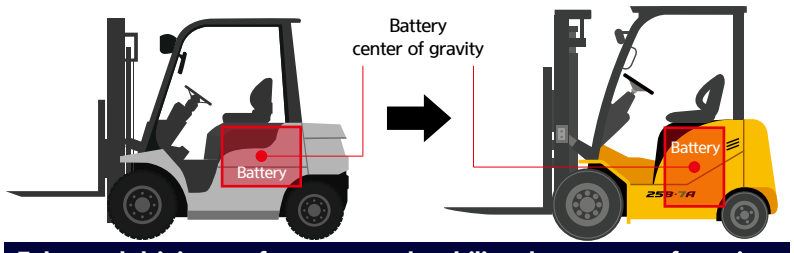
Some of the photos may include optional equipment.

Strong & Silent driving : Single drive system

The drive system features a parallel assembly of simply structured, high-reliability drive axles and traction motor, which facilitates motor control. By applying parallel structure, the batteries are placed at the bottom where the center of gravity is low, enhancing driving and operational stability. Moreover, all reduction gears are equipped with low-noise helical gears in order to provide powerful driving performance, high utilization rate and a quieter working environment.



Some of the photos may include optional equipment.



Enhanced driving performance and stability : low center of gravity

The driving motor and drive axle are mounted in a parallel structure, so that batteries can be fitted in the space beneath the floor plate. This way of fitting can reduce the center of gravity for batteries and vehicle body, and also decrease the height of the driving seat, which contributes to enhanced stability in driving and working, as well as convenience in operation.

Robust drive axle made of cast steel

Consisting of a 3-piece cast steel housing and high tensile steel components, the drive axle supports the vehicle frame and the journal-structure mast. The axle also has a simple internal structure and a shoe-type service brake, which keeps maintenance costs low.



AC Motor

KDS' AC driving motor and pump motor for electric forklifts boast improved controllability and durability than DC counterparts. Free of any consumables, they require a very low maintenance cost. Moreover, the pump motor features L-shaped mount brackets to ensure easy installation and removal.



New ZAPI controller

The almost noiseless 8 khz (high frequency) ZAPI controller enables high efficiency control and protects the system from low and high voltages and overheating.



Prolonged battery use

When the operator's foot is lifted from the accelerator, the kinetic energy is converted to electrical energy and stored in batteries. The operator can stop the vehicle with the energy generated form the energy conversion.

6 Roller combination carriage

Six carriage load rollers are perfect for heavy load conditions, and the side roller at the center of the load roller keeps the carriage steady from lateral impacts, enhancing the operational efficiency and system durability.



A wider field of view & stable operations : mast

The outer width of the mast is extended to 720mm to deliver a safe and efficient working environment. The combination-type load roller at the low end of the inner mast and the top end of the outer mast reins in unwanted movements of the mast during operation, ensuring stable operation and increased durability of the mast.

Easy & Comfort

Optimized Ergonomics & Fast and Easy Maintenance

An ergonomically designed workspace for operator provides the best comfort and easy access for maintenance.



Some of the photos may include optional equipment.

Ergonomically designed workspace

Ergonomic design focusing on operator convenience and maneuverability further enhances work efficiency. Easy to operate levers and pedals, tilting steer wheel, suspension seat and a large multi-functional cluster dashboard allow comfortable and efficient driving. A 12V power socket is a standard feature to improve operator convenience.



Some of the photos may include optional equipment.



Grammer seat (OPT)

An adjustable ergonomic seat provides unmatched comfort. The adjustable armrest further reduces operator fatigue.

- ELR(Emergency Locking Retractable) type seat belt
- Seat switch (OPT)

Smart display

Manufactured by the identical maker of the main controller, ZAPI, the smart display indicates the remaining capacity of the battery in real time and issues alert/warning codes upon equipment defect or failure to help operators identify and troubleshoot defects effectively. Moreover, the six buttons on the display enable operators to control equipment performance (e.g. driving characteristics such as speed, EAB time; and lifting speed) and carry out self-diagnostics.



Main functions of the monitor

① Battery discharge indicator and travel speed
② Hour meter
③ Maintenance requirements / error warning lamp
④ Low battery warning lamp
⑤ Low brake oil warning lamp



Open footplate

Non-slip and wider open steps offer convenience and safety when entering and exiting vehicle.



Steering wheel

The angle of the steering column can easily be adjusted to improve operator comfort.



Convenience device

A lamp switch and an emergency switch, installed at the right side of the dashboard, cut power in emergencies and enhance operability. A USB port is also added to enable users to recharge their portable appliances.



Easy maintenance of battery

The battery cover opens fully with the assistance of a gas strut that locks when fully opened to give easy access to battery and prevent the hood from dropping. An automatic electrolyte liquid filling machine is offered as an option for hassle-free battery maintenance.



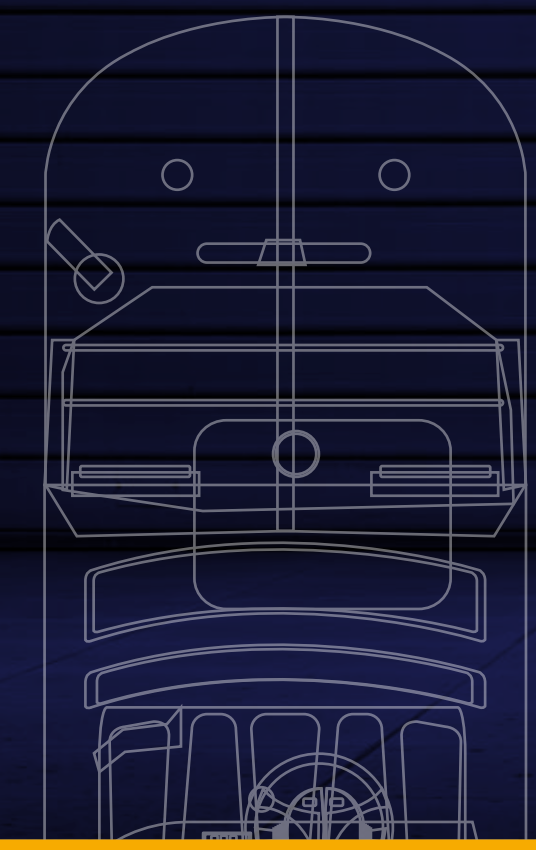
Easy accessibility controller

The traction and pump controllers can be accessed by removing the top cover of the counterweight. The controller is installed horizontally to ensure easy repair, and the top cover blocks dust and moisture.

Secure & Safety

Advanced Safety

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





Some of the photos may include optional equipment.

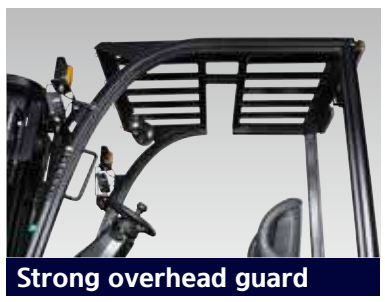
You can see the video by scanning the QR code.

Great visibility for safe operation

The optimized lift cylinder array design provides a clear, wide field of vision for the operator. A panoramic mirror expands the driver's view when backing up.



Some of the photos may include optional equipment.



Strong overhead guard

Exceeding ISO6055 regulations, the overhead guard offers great protection combined with excellent all around visibility.



Panoramic mirror

The panoramic mirror expands the driver's view when backing up.

Maximum speed control

The operator can set and limit the maximum speed from 10 km/h by 1 km/h unit, based on work site conditions.

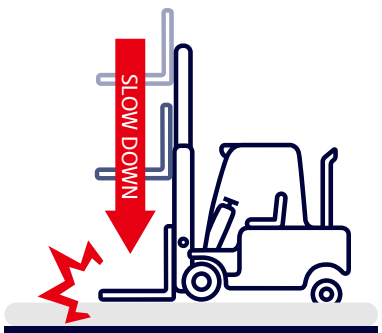
Safety features

The adoption of a high-sensitivity sensor and advanced safety system can prevent accidents.



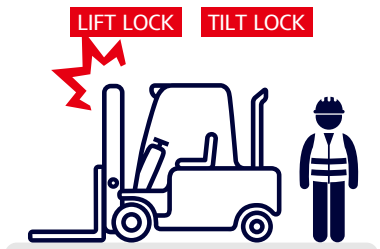
Anti Roll Back system

Anti roll-back system offers protection against the machine rolling back on a ramp in combination with exceptional ramp start capabilities.



Fork safety features

As the forks are being lowered, a down-control valve maintains a controlled descent speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



Operator presence sensing system (OPSS)

When operator is not in seat the hydraulic lift and tilt controls and travel are locked out.



Full LED lamp

The long-lasting, high-illumination full LED working lamp (front & rear) and combination lamp enhance safety and working efficiency when operating at night or in darkness. Also, the standard warning light provides workplace safety.



Parking brake

New hand parking brake device with release button greatly reduces fatigue in operation.



Cost-effective Lithium-ion batteries (OPT)

Rapidly chargeable Lithium-ion batteries ensure sound performance of the equipment with vastly reduced charge times, allowing extended hours of continued operation on a single charge. Moreover, they last at least twice longer than lead/ sulfuric acid counterparts, and do not necessitate management of distilled water. Also, being cathode active materials, they use phosphoric acid-iron compounds, which brings down the cost and eliminates the risk of explosion, making them even safer and more cost effective.

Benefits of HCE's Lithium-ion batteries

Long hours of continuous operation
- Continued operations possible throughout the day with only auxiliary charge during equipment stoppage and meal time
- No need for spare batteries and charging facilities

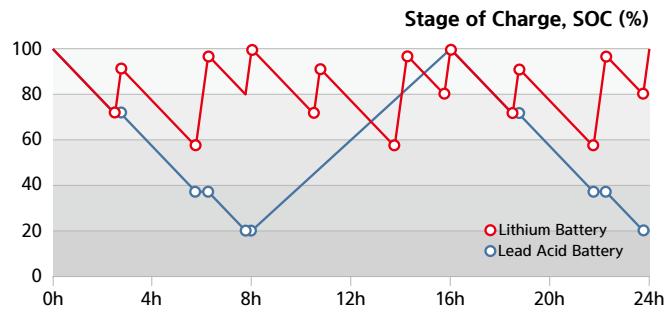
Safety
- Use of non-explosive phosphoric acid-iron compounds
- Enclosed battery case made of high-strength steel
- Prevention of overheating, excessive electricity discharge or recharging through Battery Manage System

Easy maintenance
- No need to replenish distilled water or electrolytes
- Battery life at least twice longer than that of lead / sulfuric acid batteries (over 2,500 cycles)
- No emission of harmful gases and no restriction on the charging location

Cost savings
- Charging efficiency higher than lead / sulfuric acid batteries (70% -> 95%)
- More affordable than NCM Lithium-ion batteries (at ~2/3 of the price of NCM batteries)
- 10,000 operational hours guaranteed for 5 years



- Lithium-ion battery capacity :
  - 25B-7A : 51.2V / 400Ah, 51.2V / 500Ah
  - 30, 35B-7A : 83.2V / 400Ah, 83.2V / 450Ah



- Graph comparing the charge and discharge

7A Series Mast Specification

25/30/35B-7A

25B-7A

Mast Type		Maximum Fork Height	Overall Height			Free lift height		Front overhang	Tilt Angle		Load capacity
			Lowered	Full lift		Without Load Backrest	With Load Backrest		Fwd	Bwd	Load center distance (500mm)
				Without Load Backrest	With Load backrest						
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg
2-STAGE LIMITED FREE LIFT	*M300	3,000	2,015	3,615	4,017	140	140	454	5	10	2,500
	M330	3,300	2,165	3,915	4,317	140	140	454	5	10	2,500
	M400	4,000	2,565	4,615	5,017	140	140	454	5	10	2,500
	M450	4,500	2,815	5,115	5,517	140	140	454	5	6	2,100
2-STAGE FULL FREE LIFT	FM300	3,000	2,015	3,615	4,017	1,385	985	477	5	10	2,500
	FM330	3,300	2,165	3,915	4,317	1,535	1,135	477	5	10	2,500
3-STAGE FULL FREE LIFT	TFM435	4,350	2,025	5,021	5,366	1,390	990	490	5	6	2,200
	TFM450	4,500	2,075	5,171	5,516	1,440	1,040	490	5	6	2,000
	TFM480	4,800	2,175	5,471	5,816	1,540	1,140	490	5	6	1,700
	TFM550	5,500	2,440	6,171	6,516	1,800	1,400	490	3	6	1,200
	TFM600	6,000	2,625	6,671	7,016	1,990	1,590	490	3	6	800

* : Standard
※TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

30B-7A

Mast Type		Maximum Fork Height	Overall Height			Free lift height		Front overhang	Tilt Angle		Load capacity
			Lowered	Full lift		Without Load Backrest	With Load Backrest		Fwd	Bwd	Load center distance (500mm)
				Without Load Backrest	With Load backrest						
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg
2-STAGE LIMITED FREE LIFT	*M300	3,000	2,045	3,640	4,140	165	165	475	5	10	3,000
	M330	3,300	2,195	3,940	4,440	165	165	475	5	10	3,000
	M400	4,000	2,595	4,640	5,140	165	165	475	5	10	2,850
	M450	4,500	2,845	5,140	5,640	165	165	475	5	6	2,550
2-STAGE FULL FREE LIFT	FM300	3,000	2,045	3,640	4,140	1,390	935	490	5	10	3,000
	FM330	3,300	2,195	3,940	4,440	1,540	1,085	490	5	10	3,000
3-STAGE FULL FREE LIFT	TFM435	4,350	2,045	5,015	5,490	1,460	925	500	5	6	2,800
	TFM450	4,500	2,095	5,165	5,640	1,510	975	500	5	6	2,500
	TFM480	4,800	2,195	5,465	5,940	1,610	1,075	500	5	6	2,250
	TFM550	5,400	2,420	6,065	6,540	1,835	1,300	500	3	6	1,650
	TFM600	6,000	2,645	6,665	7,140	2,060	1,525	500	3	6	1,200

* : Standard
※TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

7A Series Mast Specification

35B-7A

Mast Type		Maximum Fork Height	Overall Height			Free lift height		Front overhang	Tilt Angle		Load capacity
			Lowered	Full lift		Without Load Backrest	With Load Backrest		Fwd	Bwd	Load center distance (500mm)
				Without Load Backrest	With Load backrest						
		mm	mm	mm	mm	mm	mm	mm	deg	deg	kg
2-STAGE LIMITED FREE LIFT	*M300	3,000	2,120	3,710	4,140	170	170	505	5	10	3,500
	M330	3,300	2,270	4,010	4,440	170	170	505	5	10	3,500
	M400	4,000	2,670	4,710	5,140	170	170	505	5	10	3,300
	M450	4,500	2,920	5,210	5,640	170	170	505	5	6	2,900
2-STAGE FULL FREE LIFT	FM300	3,000	2,120	3,700	4,100	1,415	1,000	505	5	10	3,500
	FM330	3,300	2,270	4,000	4,400	1,565	1,150	505	5	10	3,500
3-STAGE FULL FREE LIFT	TFM435	4,350	2,120	5,100	5,500	1,460	925	522	5	6	3,100
	TFM450	4,500	2,170	5,250	5,650	1,510	975	522	5	6	2,800
	TFM480	4,800	2,270	5,550	5,950	1,610	1,075	522	5	6	2,500
	TFM550	5,400	2,435	6,150	6,550	1,835	1,300	522	3	6	1,800
	TFM600	6,000	2,720	6,750	7,150	2,060	1,525	522	3	6	1,300

* : Standard

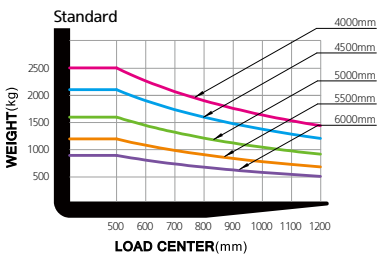
※TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

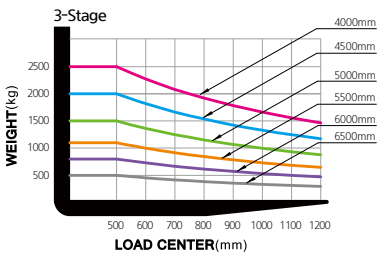
25/30/35B-7A

7A Series

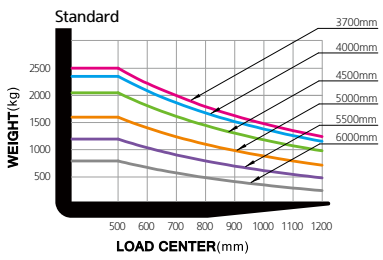
Load Capacity

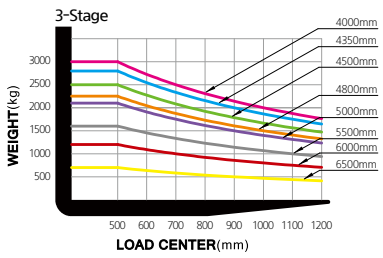
25B-7A



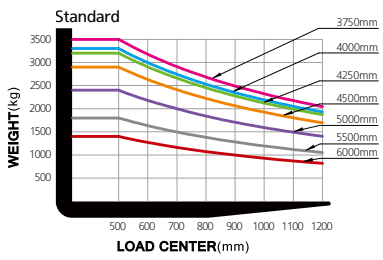


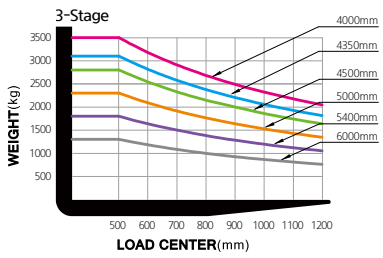
30B-7A





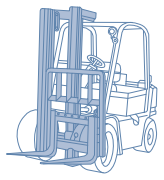
35B-7A



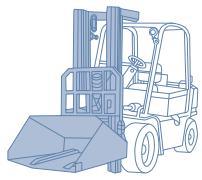


Various Attachments

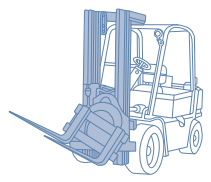
Side Shift



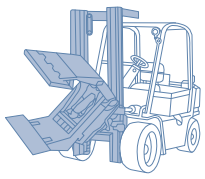
Hinged Bucket



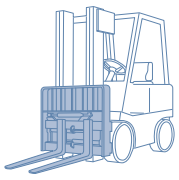
Rotating Fork



Rotating Roll Clamp



Fork Positioner



* Exterior designs and forklift options in this catalog may change for improvement

Optional Items

- **Tire :** Pneumatic tire, Non-marking tire
- **Non-suspension+Seat switch**
- **Grammer seat switch, Grammer seat switch+belt switch**
- **Fork(mm) :** 1,070(STD)/1,220/1,370/1,520/1,670/1,820/2,120
- **Carriage(mm) :** 1,040(STD)/1,300
- **MCV :** 2-spool(STD), 3-spool, 4-spool
- **Rear horn, Fire extinguisher**
- **Full cabin, Air-conditioner, heater, Front+Top+Rear**
- **Mast OPSS**
- **Load weight indicator**
- **Front camera, Front/rear camera**
- **Lithium-ion battery**

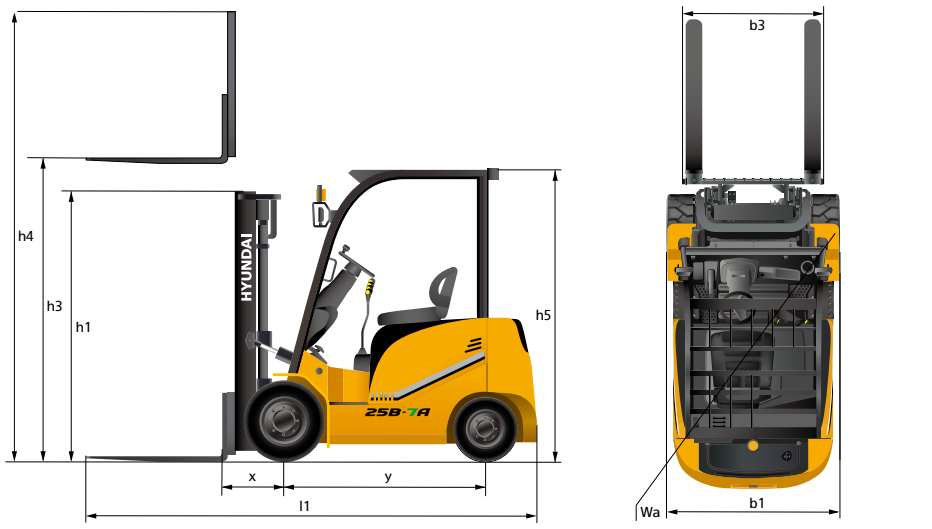
* Please select the seat with switch, if you need mast OPSS.

Specification

Identification					
1.1	Manufacturer (Abbreviation)		Hyundai		
1.2	Manufacturer's Type Designation		25B-7A	30B-7A	35B-7A
1.3	Drive : Electric (Battery Or Mains), Diesel, Petrol, Fuel Gas		Electric	Electric	Electric
1.4	Type Of Operation : Hand, Pedestrian, Standing, Seated, Order-Picker		Seated	Seated	Seated
1.5	Load Capacity / Rated Load	Kg	2,500	3,000	3,500
1.6	Load Center Distance	mm	500	500	500
1.8	Load Distance, Center Of Drive Axle To Fork	x mm	454	476	495
1.9	Wheelbase	y mm	1,485	1,670	1,690
Weights					
2.1.1	Service Weight	Kg	4,160	4,750	5,250
2.2	Axle Loading, Loaded Front/Rear	Kg	5,950 / 710	6,897 / 852	7,790 / 963
2.3	Axle Loading, Unloaded Front/Rear	kg	1,750 / 2,410	2,065 / 2,685	2,285 / 2,968
Tires, Chassis					
3. 1	Tires : Solid Rubber, Superelastic, Pneumatic, Polyurethane		Solid Tire	Solid Tire	Solid Tire
3. 2	Tire Size, Front		23×9-10	23×9-10	23×10-12
3. 3	Tire Size, Rear		18×7-8	18×7-8	200/50-10
3. 5	Wheels, Number Front / Rear (X = Driven Wheels)		2 / 2	2 / 2	2 / 2
3. 6	Tread, Front	Mm	1,058	1,065	1,124
3. 7	Tread, Rear	mm	960	980	1010
Dimensions					
4.1	Tilt Of Mast/Fork Carriage Forward/Backrward	°	5/10	5/10	5/10
4.2	Height, Mast Lowered	h1 (mm)	2,015	2,045	2,120
4.3	Free Lift	mm	140	165	170
4.4	Lift Height	h3 (mm)	3,000	3,000	3,000
4.5	Height, Mast Extended	h4 (mm)	4,017	4,140	4,140
4.7	Height Of Overhead Guard (Cabin)	h5 (mm)	2,152	2,152	2,138
4.8	Seat Height / Stand Height Rel. To Sip	mm	1,050	1,050	1,050
4.12	Coupling Height	mm	175	175	175
4.19	Overall Length	l1 (mm)	3,397	3,618	3,709
4.20	Length To Face Of Forks	mm	2,286	2,548	2,639
4.21	Overall Width	b1 (mm)	1,285	1,285	1,365
4.22	Fork Dimension	mm	1,070×122×40	1,070×125×45	1,070×130×50
4.23	Fork Carriage ISO 2328, Class / Type A, B	-	A	A	A
4.24	Fork-Carriage Width	b3 (mm)	250-1,000	250-1,060	250-1,060
4.31	Ground Clearance, Below Mast, Loaded	mm	40	45	50
4.32	Ground Clearance, Center Of Wheelbase	mm	130	130	115
4.34.1	Aisle Width For Pallets 1000 X 1200 Crossways (L X W)	mm	3,745	4,040	4,100
4.34.2	Aisle Width For Pallets 800 X 1200 Crossways (W X L)	mm	3,945	4,240	4,300
4.35	Turning Radius	Wa (mm)	2,095	2,349	2,405
4.36	Smallest Pivot Point Distance	mm	600	600	600

Performance Data					
5.1	Travel Speed, Loaded / Unloaded	km/h	15 / 16	15 / 16	15 / 16
5.2	Lift Speed, Loaded / Unloaded	mm/s	280 / 440	280 / 400	280 / 384
5.3	Lowering Speed, Loaded / Unloaded	mm/s	470 / 430	400 / 315	400 / 315
5.5	Drawbar Pull, Loaded / Unloaded	KN	12.9 / 8.1	15.2 / 9.3	17.1 / 10.3
5.6	Max. Drawbar Pull, Loaded / Unloaded	KN	12.9 / 8.1	15.2 / 9.3	17.1 / 10.3
5.7	Gradeability, Loaded / Unloaded	%	15 / 15	15 / 15	15 / 15
5.8	Max. Gradeability, Loaded / Unloaded	%	15 / 22	15 / 22	15 / 22
5.9.1	Acceleration Time, Loaded / Unloaded (Over 10M)	s	5	5	5
5.10	Service Brake	-	hydr.	hydr.	hydr.
E - Motor					
6.1	Drive Motor Rating S2 60 Min	kW	8.5	11.5	11.5
6.2	Lift Motor Rating At S3 15%	kW	11.0	15.0	15.0
6.4	Battery Voltage, Nominal Capacity K5	V/Ah	48 / 600	80 / 500	80 / 500
6.5	Battery Weight	Kg	1,100	1,420	1,420
6.7	Battery Compartment Dimensions L/W/H	mm	1,028 / 500 / 730 (780)	1,028 / 674 / 730 (780)	1,028 / 674 / 730 (780)
Addition Data					
8.1	Type Of Drive Control	-	AC	AC	AC
8.2	Operating Pressure, System / Attachments	bar	17.5	17.5	17.5
8.4	Sound Level At The Driver's Ear According to Din 12053	dB	75	75	75
8.5	Trailer Coupling, Type Din	-	PIN	PIN	PIN

Dimension



* Exterior designs and forklift options in this catalog may change for improvement

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