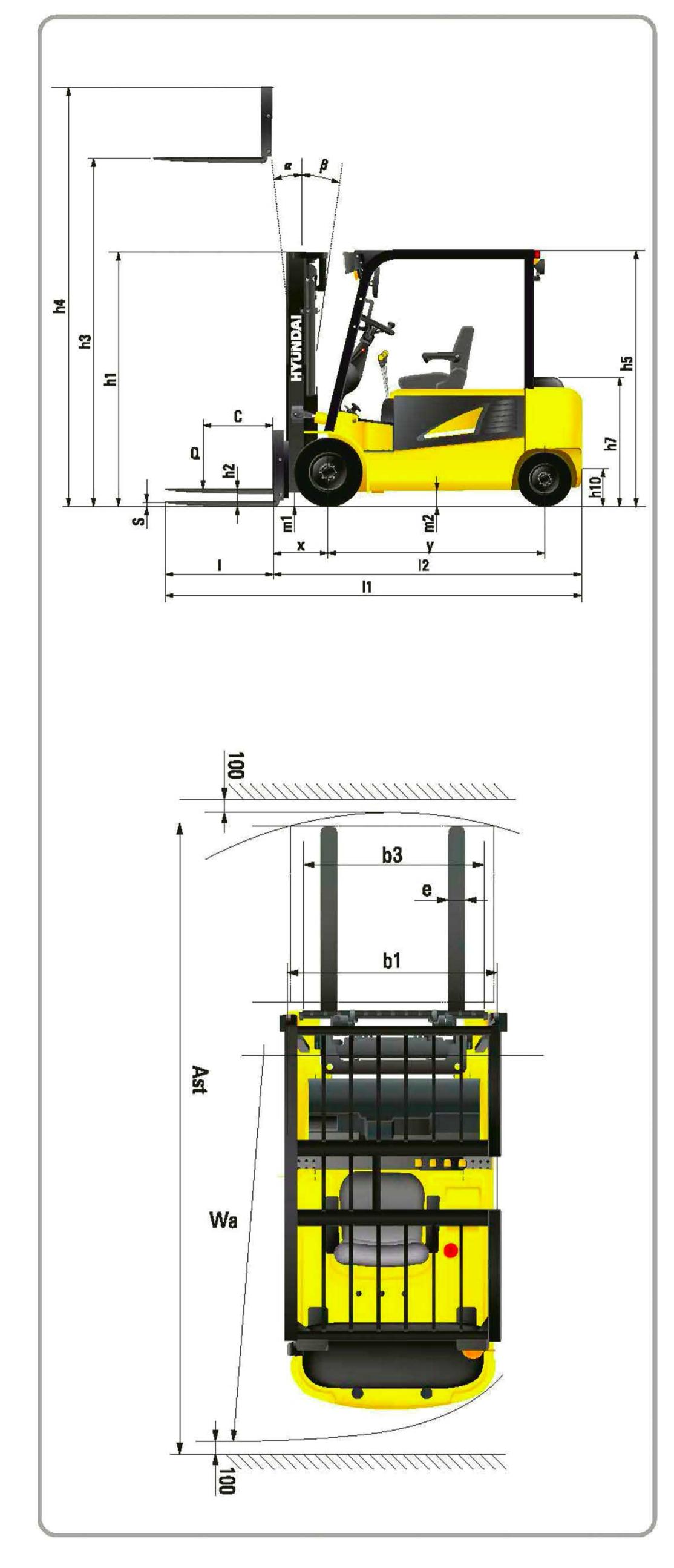
## Dimension



1.1	Manufacturer			HYUNDAI					
1.2	Manufacturer's type designation		35B-7	40B-7	45B-7	50B-7			
1.3	Drive : electric(battery or mains) ,diesel, petrol ,fuel gas, n	nanual	Electric	Electric	Electric	Electric			
1.4	Type of operation : hand, pedestrian, standing, seated, or	der - picker	Seated	Seated	Seated	Seated			
1.5	Load capacity / rated load	Q kg	3,500	4,000	4,500	4,990			
1.6	Load center distance	c mm	500	500	500	500			
1.8	Load distance, center of drive axle to fork	x mm	535	535	535	540			
1.9	Wheelbase	y mm	1,855	2,000	2,000	2,000			
Veigł	nts								
2.1	Service weight	kg	6,415	6,655	7,020	7,520			
2.2	Axle loading, loaded front / rear	kg	8,934 / 981	9,580 / 1,075	10,348 / 1,173	11,213 / 1,297			
2.3	Axle loading , unloaded front / rear		3,481 / 2,934	3,510 / 3,145	3,519/3,501	3,628 / 3,892			
Whee	ls, Chassis								
3.1	Tires : solid rubber(V), superelastic(SE), pneumatic(P), po	lyurethane(PE)	SE, P	SE, P	SE, P	SE, P			
3.2	Tires size, front ( $\phi$ x width)		250-15	250-15	250-15	28 x 12.5 - 15			
3.3	Tires size, rear( $\varphi$ x width )		21 x 8 - 9	21 x 8 - 9	21 x 8 - 9	21 x 8 - 9			
3. 5	Wheels, number front rear(x = driven wheels)		2x/2	2x/2	2x/2	2x/2			
3.6	Track width, front	mm	1,141	1,141	1,141	1,114			
3. 7	Track width, rear	mm	1,090	1,090	1,090	1,090			
Basic	Dimensions								
4.1	Mast / fork carriage tilt forward / backward	degrees	6/10	6/10	6/10	6/10			
4.2	Lowered mast height	h1 mm	2,225	2,225	2,225	2,230			
4.3	Free lift	h2 mm	120	120	120	120			
4. 4	Lift height	h3 mm	3,000	3,000	3,000	2,900			
4. 5	Extended mast height	h4 mm	4,224	4,224	4,224	4,146			
4.7	Overhead load guard (cab) height	h5 mm	2,230	2,320	2,320	2,320			
4.8	Seat height / Standing height	h7 imm	1,166	1,166	1,166	1,166			
4.12	Coupling height	h10 mm	460	460	460	460			
4.19	Overall length	I1 mm	3,847	3,992	4,040	4,100			
4.20 4.21	Length to face of forks Overall width	l2 mm b1 mm	2,777 1,370	2,922 1,370	2,970 1,370	3,030 1,424			
4. 21		s/e/Imm	50 x 122 x 1,070	50 x 122 x 1,070	50 x 150 x 1,070	50 x 150 x 1,070			
4.23	Fork carriage ISO 2328, class / type A, B	376711111	III/A	III / A	III / A	IV/A			
4.24	Fork - carriage width	b3 mm	1,300	1,300	1,300	1,300			
4.31	Ground clearance, loaded, under mast	m1 mm	160	160	160	165			
4.32	Ground clearance, centre of wheelbase	m2 mm	160	160	160	156			
4.33	Aisle width for pallets 1,000 x 1,200 crossways	Astmm	4,195	4,350	4,395	4,445			
4.34	Aisle width for pallets 800 x 1,200 length ways	Astmm	3,995	4,150	4,195	4,245			
4.35	Turning radius	Wamm	2,460	2,615	2,660	2,705			
4. 36	Smallest pivot point distance	mm		-					
Perfor	mance Data								
5.1	Travel speed, loaded / unloaded (80V)	km/h	18/18	18/18	18/18	18/18			
5.2	Lift speed, loaded / unloaded (80V)	mm/sec	380 / 500	380 / 500	330 / 500	320/450			
5.3	Lowering speed, loaded / unloaded	mm/sec	550 / 520	550 / 520	550 / 520	500 / 430			
5. 5	Drawbar pull, loaded / unloaded S2 60 min	N		-	-				
5.6	Max. drawbar pull, loaded / unloaded S25 min	N	28,931 / 29,122	28,185 / 29,075	28,662 / 29,003	28,558 / 28,469			
5.7	Gradient performance, loaded / unloaded S2 30 min	%	-	-	<del>.</del>				
5.8	Max. gradient performance, loaded / unloaded S25 min	%	30/26	28 / 26	26/24	23/24			
5.9	Acceleration time, loaded / unloaded			-					
5.10	Service brake		Hyd.	Hyd.	Hyd.	Hyd.			
E - Mo	otor								
6. 1	Drive motor rating S2 60 min (80V)	kW	8.1 x 2	8.1 x 2	8.1 x 2	8.1 x 2			
6.2	Pump motor rating at S3 - 15 % (80V)	kW	23.8	23.8	23.8	23.8			
6.4	Battery voltage, nominal capacity K5 (80V)	Ah	600	700	700	700			
6.5	Battery weight (min)	kg	1,780	2,095	2,095	2,095			
	Battery compartment dimensions L/W/H	mm	1,033 / 859 / 790	1,033 / 859 / 790	1,033/1,004/790	1,033/1,004/79			
6.6	Type of drive control		AC	AC	AC	AC			



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# Specification







FORKLIFT TRUCKS Environmentally - Friendly



## **New Criterion of Forklift Trucks**

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

Some of the photos may include optional equipment.

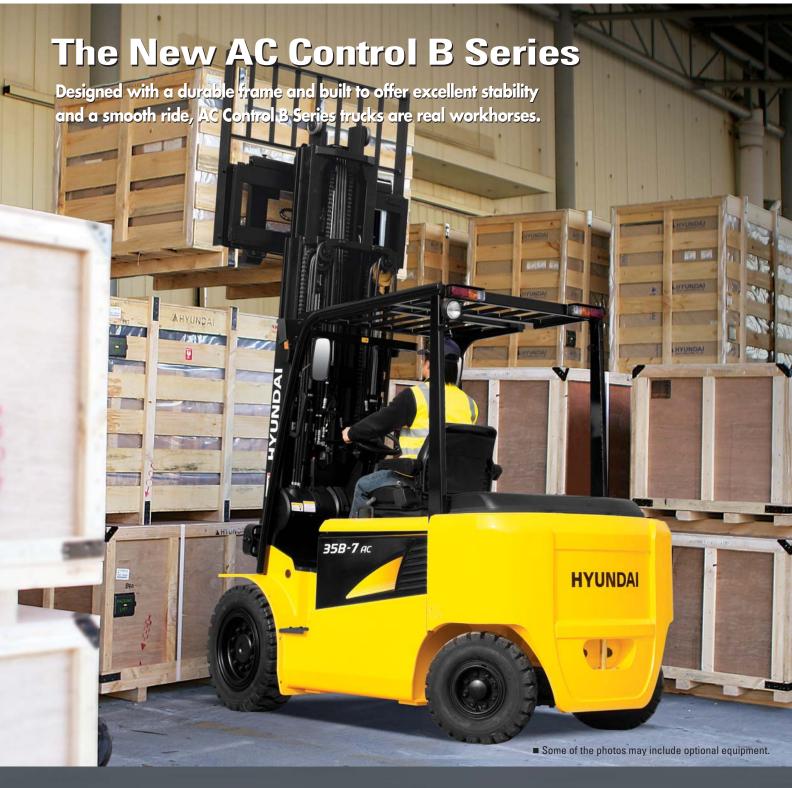
35В-7 ас

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#### High Technology ZAPI Controller Eliminate "almost noiseless"

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

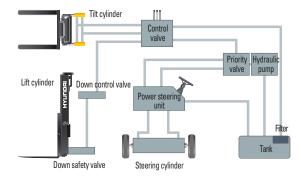
- Features · Regeneration : Direction change, Deceleration, Braking The new AC motors offers a of 10% greater efficiency than traditional DC motors Various performance models are available to maximize efficiency and equipped to work in all types of operations Enhanced Efficiency
  - H (High) Mode, N (Normal) Mode, E (Economic) Mode Turtle Mode : 10km/h

## Superior Power & Optimal Performance

Efficient, smooth running and ergonomically designed AC control series are built to meet you needs.

### **Fork Safety Features**

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



#### Anti-Rollback System, Faster Travel Speed & Gradeability

ZAPI's anti-rollback system provides safe ramp operation plus exceptional ramp start capabilities.

The powerful high-output motors provide greater acceleration, better gradeability and faster travel speed on any tough terrain or slope





#### State-of-the-art hydraulic System

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



#### **Increased Mast tilting Angle**

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



#### Wet Disc Brake System The wet disc brake system is virtually maintenance free and is enclosed to protect from dust and water.



#### **Fully Hydrostatic Power Steering** A hydraulic steering system ensures

smooth & precise steering which prevents kick-back.

#### Travel Speed (MAX)

Model	km / h
35B-7	18
40B-7	18
45B-7	18
50B-7	18

#### Gradeability (MAX)

Model	%
35B-7	32
40B-7	30
45B-7	27
50B-7	24



#### **OPSS (Operator Presence** Sensing System)

Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operator is not in the seat



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



**Easy Control Direction Lever** Finger tip control of forward and reverse lever allows the operator to remain in control of equipment.



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



#### High visibility for safe operation

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



**Perfect Compartment Fit For Any Operator** An ergonomically designed operator's compartment enables the driver to select the most comfortable working position for increased productivity.



**Optimum Pedal Position & Non**slip Mat

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

#### **Easily Adjustable Suspension Seat**

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

Options : Seat belt, Arm rest, Hip restraint







#### Self - diagnostic LCD Monitor

The LCD monitor has a back-light system to provide a clear view of the system's operation in all environments. The monitor provides information about operation error, system fault, battery level, hour meter and selected performance mode. Other various

functions include items such as self diagnostics and password activation. These features are can be accessed without the need of a laptop or handset.

**Keyboard Buttons / Performance mode** Operator can select performance mode easily according to working condition.



Comfortable Operation

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

#### **AC Control System Features**

**Excellent Control Ability** 

- Various performance modes to meet all working conditions
- Slow rolling on ramp & ramp start
- \_Enhanced motor efficiency & Excellent regeneration

of the photos may include optional equipment.

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

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

## High Durability & Simple Arrangement

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



Photo may include optional equipment.



**Strong Overhead Guard** The safety overhead guard exceeds EEC and ANSI regulations and protects the operator during hazardous work.



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



Hand Grip & Large Footboard Wide"open" step and large hand grip offer convenience and safety when entering and exiting the truck.

**High quality AC motors** 

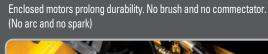
**Rear Safety Lamp** Rear combination lamps with turn signal lamps, tail lamp and brake lights are positioned for high visibility to ensure safety.



**Battery Locking System** 



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







Battery change is easy with a swing-up compartment and a slotted overhead guard. Opening and closing of the battery cover is made easy with a gas-spring assisted cylinder.



Easy battery replacement Battery change is easy with swing-up compartment and slotted overhead guard. Opening and closing of battery cover is made easy with a gas-spring assist cylinder.



**Hydraulic motor** 

/ Switch



**High Visibility Headlights & Rear Work Light** 



### Easy Maintenance & Serviceability



**Battery Disconnect Lever** 



A concentrated fuse box for easy inspection



**Oil Tank Port** 



**Steering Sensor** 



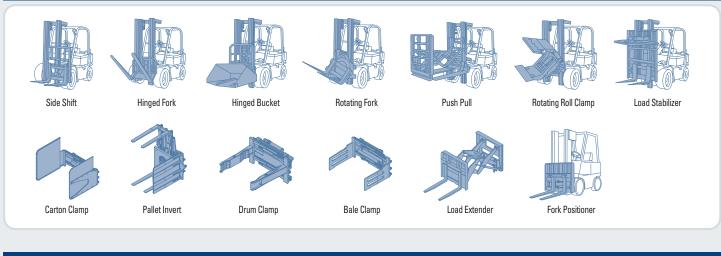
**Easy to Check Brake Oil Level** 



**DC-DC Converter** 

DC-DC converter exceeds UL & CE requirements to prevent short circuit, overload and reverse polarity

#### Load Capacity 35B-7 40B-7 Weight kg Weight kg ( Weight kg V3Dm WAST V3Dm WAST V4Dm MAST V40m MAST V 30 m MAST V 3.5 m MAST 4,000 3.500 3,300 3,600 3,100 3.500 2.800 2,300 V4.\$ m MAST V 50 m MAST 1,800 V 4.5 m MAS 2,600 V 5.0 m MAST 2.100 <sup>L</sup> 2.300 L 1.800 500 700 900 1,100 1,300 1,500 500 700 900 1,100 1,300 1,500 Load Center(mm) Load Center(mm) Weight kg [ Weight kg [ 3,300 3,100 2,600 TF 3.7 m MAST 3,900 F 4.8 m MAST 3,400 2 900 3 200 2,100 TF 5.5 m MAST 2,400 TE 5 m MAST TF 6.5 m MAST -1.600 1.900 L 2.000 700 900 1,100 1,300 1,500 500 700 1,100 1,300 1,500 500 900 Load Center(mm) Load Center(mm) **Various Attachments**



Fork (L x W x T) (mm) $35B-7: 1,220 \times 122 \times 50 / 1,370 \times 122 \times 50 / 1,520 \times 122 \times 50 / 1,670 \times 122 \times 50 / 1,820 \times 122 \times 50 / 1,970 \times 122 \times 50 / 1,670 \times 122 \times 50 / 1,370 \times 122 \times 50 / 1,520 \times 122 \times 50 / 1,670 \times 122 \times 50 / 1,820 \times 122 \times 50 / 1,970 \times 122 \times 50 / 1,870 \times 150 \times 50 / 1,520 \times 150 \times 50 / 1,570 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,370 \times 150 \times 50 / 1,520 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,370 \times 150 \times 50 / 1,520 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,670 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,870 \times 150 \times 50 / 1,820 \times 150 \times 50 / 1,970 \times 150 \times 50 / 1,870 \times 150 \times 150 \times 150 \times 100 / 1,870 \times 100 \times$

Mast S	pecification (35/40/45B-7

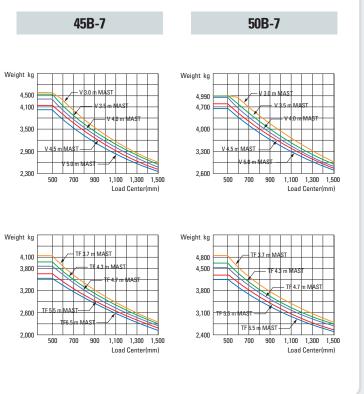
Mast Type		Overall Height	Maximum Fork Height	Free Lift(mm)		Tilt Angle (deg)	Load Capacity without			Load Capacity with			Truck Weight (Unloaded)		
		(Lowered) (mm)	Fork Height (mm)	With Backrest	Without Backrest	Fwd / Bwd	' side shift at (500mm LC) (kg)			side shift at (500mmLC) (kg)			(bhibaded) (kg)		
		35/40/45B-7	35/40/45B-7	35B/40/45B-7	35B/40/45B-7	35/40/45B-7	35B-7	40B-7	45B-7	35B-7	40B-7	45B-7	35B-7	40B-7	45B-7
	V270	2,075	2,720	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,500	6,176	6,407	6,621
	*V300	2,225	3,020	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,500	6,201	6,432	6,647
2-Stage	V330	2,375	3,320	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,500	6,227	6,458	6,672
limited	V350	2,525	3,520	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,500	6,251	6,482	6,697
free	V370	2,625	3,720	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,500	6,268	6,499	6,713
lift	V400	2,835	4,020	120	120	6/ 10	3,500	4,000	4,500	3,500	4,000	4,450	6,303	6,534	6,749
	V450	3,085	4,520	120	120	6/6	3,400	4,000	4,350	3,400	4,000	4,300	6,345	6,576	6,791
	V500	3,335	5,020	120	120	6/6	3,300	3,850	4,200	3,300	3,850	4,150	6,388	6,619	6,834
	TF370	2,025	3,730	812	1,139	6/6	3,250	3,850	4,350	3,250	3,850	4,250	6,477	6,708	6,923
	TF400	2,125	4,030	912	1,239	6/6	3,200	3,750	4,250	3,200	3,750	4,200	6,503	6,734	6,949
3-Stage	TF430	2,225	4,330	1,012	1,339	6/6	3,100	3,700	4,150	3,100	3,700	4,100	6,528	6,759	6,975
full	TF450	2,285	4,510	1,072	1,399	6/6	3,100	3,650	4,100	3,100	3,650	4,050	6,544	6,775	6,990
free	TF470	2,375	4,720	1,162	1,489	6/6	3,050	3,600	4,050	3,050	3,600	4,000	6,567	6,798	7,014
lift	TF500	2,475	5,020	1,262	1,589	6/6	2,950	3,500	3,950	2,950	3,500	3,900	6,593	6,824	7,040
	TF550	2,655	5,520	1,442	1,769	6/ 6	2,850	3,400	3,850	2,850	3,400	3,800	6,644	6,875	7,092
	TF600	2,835	6,030	1,622	1,949	6/6	2,750	3,300	3,700	2,750	3,300	3,650	6,684	6,915	7,131

\* Standard

#### Mast Specification (50B-7)

Mast Type		Overall Height (Lowered)	Maximum Fork Height	Fre	Tilt Angle (deg)		Load Capacity without side shift at (500mm LC)	Load Capacity with side shift at (500mm LC)	Truck Weight (Unloaded)		
		(Lowered) (mm)	(mm)	With Backrest (mm) Without Backrest (mm)		Fwd	Bwd	(kg)	(kg)	(kg)	
		50B-7	50B-7	50B-7 50B-7		50B-7 50B-7		50B-7	50B-7	50B-7	
	V260	2,080	2,620	120	120	6	10	4,990	4,990	7,440	
	*V290	2,230	2,920	120	120	6	10	4,990	4,990 4,990		
2-Stage	V320	2,380	3,220	120	120	6	10	4,990	4,990 4,990		
limited	V340	2,530	3,420	120	120	6	10	4,990	4,990	7,515	
free	V360	2,630	3,620	120	120	6	10	4,990	4,990	7,532	
lift	V390	2,840	3,920	120	120	6	10	4,990	4,990	7,567	
	V440	3,090	4,420	120	120	6	6	4,950	4,900	7,671	
	V490	3,340	4,920	120	120	6	6	4,800	4,750	7,713	
	TF360	2,030	3,662	807	1,074	6	6	4,950	4,900	7,717	
	TF390	2,130	3,962	907	1,174	6	6	4,850	4,800	7,743	
3-Stage	TF420	2,230	4,262	1,007	1,274	6	6	4,750 4,700		7,769	
full	TF440	2,290	4,442	1,067	1,334	6	6	4,700 4,650		7,785	
free	TF460	2,380	4,652	1,157	1,424	6	6	4,650 4,600		7,808	
lift	TF490	2,480	4,952	1,257	1,524	6	6	4,550	4,500	7,834	
	TF540	2,660	5,452	1,437	1,704	6	6	4,400	4,350	7,885	
	TF590	2,840	5,962	1,617	1,884	6	6	4,250	4,200	7,925	

\* Standard



#### Items

- $\cdot$  Cold Storage
- Tire Pneumatic, Single Non-Marking, Single Pneumatic, Double Non-Marking, Double
- · CE
- $\cdot \text{ UL E.EE}$
- · MCV
- 4 Spool 4 Lever