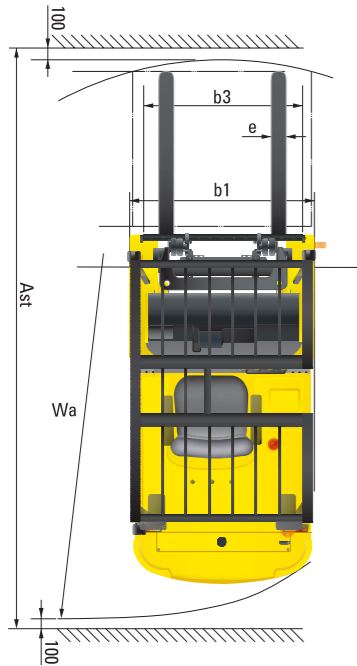
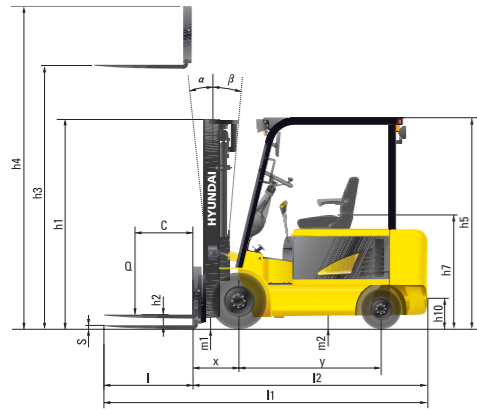


## Dimension



## Specification

### Identification

1.1	Manufacturer	HYUNDAI			
1.2	Manufacturer's type designation	20BC-7	25BC-7	30BC-7	32BC-7
1.3	Drive : electric(battery or mains) ,diesel, petrol, fuel gas, manual	Electric	Electric	Electric	Electric
1.4	Type of operation : hand, pedestrian, standing, seated, order - picker	Seated	Seated	Seated	Seated
1.5	Load capacity / rated load	Q kg	2,000	2,500	3,000
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	458	458	458
1.9	Wheelbase	y mm	1,290	1,290	1,400

### Weights

2.1	Service weight	kg	4,027	4,362	4,870	5,042
2.2	Axle loading, loaded front / rear	kg	5,209 / 818	5,978 / 884	6,901 / 969	7,208 / 1,034
2.3	Axle loading, unloaded front / rear	kg	1,768 / 2,259	1,676 / 2,686	1,901 / 2,969	1,875 / 3,167

### Wheels, Chassis

3.1	Tires : solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE)	V	V	V	V
3.2	Tires size, front(e x width)	21 x 7 x 15	21 x 7 x 15	21 x 8 x 15	21 x 8 x 15
3.3	Tires size, rear(e x width)	16 x 6 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5
3.5	Wheels, number front rear(x = driven wheels)	2 x / 2	2 x / 2	2 x / 2	2 x / 2
3.6	Track width, frontTrack width, rear	mm	890	890	915
3.7		mm	910	910	910

### Basic Dimensions

4.1	Mast / fork carriage tilt forward / backward	degrees	6 / 8	6 / 8	6 / 8	6 / 8
4.2	Lowered mast height	h1 mm	2,135	2,135	2,135	2,135
4.3	Free lift	h2 mm	115	115	115	115
4.4	Lift height	h3 mm	3,305	3,305	3,305	3,205
4.5	Extended mast height	h4 mm	4,485	4,485	4,485	4,385
4.7	Overhead load guard (cab) height	h5 mm	2,235	2,235	2,235	2,235
4.8	Seat height / Standing height	h7 mm	1,195	1,195	1,195	1,195
4.12	Coupling height	h10 mm	275	275	275	275
4.19	Overall length	l1 mm	3,182	3,242	3,382	3,415
4.20	Length to face of forks	l2 mm	2,132	2,192	2,332	2,365
4.21	Overall width	b1 mm	1,112	1,112	1,118	1,118
4.22	Fork dimensions	s / e / l mm	45 x 100 x 1,050		45 x 122 x 1,050	
4.23	Fork carriage ISO 2328, class / type A, B	II / A	II / A	III / A	III / A	III / A
4.24	Fork - carriage width	b3 mm	1,022	1,022	1,022	1,022
4.31	Ground clearance, loaded, under mast	m1 mm	90	90	90	90
4.32	Ground clearance, centre of wheelbase	m2 mm	107	107	107	107
4.33	Aisle width for pallets 1,000 x 1,200 crossways	Ast mm	3,520	3,545	3,695	3,725
4.34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	3,320	3,345	3,495	3,525
4.35	Turning radius	Wa mm	1,885	1,910	2,065	2,095
4.36	Smallest pivot point distance	mm	-	-	-	-

### Performance Data

5.1	Travel speed, loaded / unloaded (48V)	km/h	17 / 18	17 / 18	17 / 18	17 / 18
	(36V)	km/h	13 / 14.5	13 / 14.5	13 / 14.5	13 / 14.5
5.2	Lift speed, loaded / unloaded (48V)	mm/sec	420 / 610	420 / 610	340 / 500	330 / 500
	(36V)	mm/sec	280 / 440	280 / 440	280 / 440	280 / 440
5.3	Lowering speed, loaded / unloaded	mm/sec	500 / 450	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, loaded / unloaded S2 60 min	N	-	-	-	-
5.6	Max. drawbar pull, loaded / unloaded S2 5 min	N	12,124 / 12,203	11,987 / 12,112	11,822 / 11,992	11,776 / 11,958
5.7	Gradient performance, loaded / unloaded S2 30 min	%	-	-	-	-
5.8	Max. gradient performance, loaded / unloaded S2 5 min	%	20 / 20	17 / 19	15 / 18	14 / 17
5.9	Acceleration time, loaded / unloaded		-	-	-	-
5.10	Service brake		Hyd.	Hyd.	Hyd.	Hyd.

### E - Motor

6.1	Drive motor rating S2 60 min (48V)	kW	14.2	14.2	14.2	14.2
	(36V)	kW	-	-	-	-
6.2	Pump motor rating at S3 - 15 % (48V)	kW	18	18	18	18
	(36V)	kW	-	-	-	-
6.4	Battery voltage, nominal capacity K5 (48V)	V/Ah	740	740	845	845
	(36V)	V/Ah	-	-	-	-
6.5	Battery weight (min)	kg	1,130	1,130	1,360	1,360
	Battery compartment dimensions L / W / H	mm	1,010 / 776 / 600		1,010 / 876 / 600	
6.6	Type of drive control		AC	AC	AC	AC



■ Some of the photos may include optional equipment.

FORKLIFT TRUCKS **Environmentally - Friendly**

# 20/25/30/32BC-7 AC

**HYUNDAI | FORKLIFT**  
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2011. 10 Rev.3

**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

We build a better future

## New Criterion of Forklift Trucks

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



■ Some of the photos may include optional equipment.

# 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.



■ Some of the photos may include optional equipment.

## 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



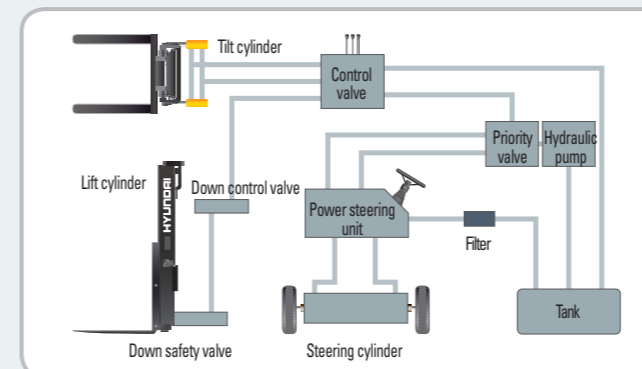
## Superior Power & Optimal Performance

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.



### 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.

### 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.

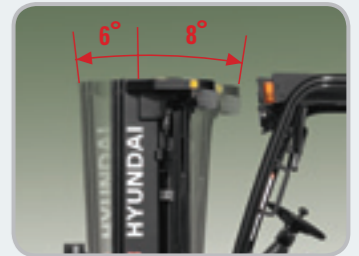


### Travel Speed (MAX)

Model	km/s
20BC-7	18
25BC-7	18
30BC-7	18
32BC-7	18

### Gradeability (MAX)

Model	%
20BC-7	20
25BC-7	19
30BC-7	18
32BC-7	17



### Increased Mast tilting Angle

Utilizing the mast tilting angle of 6 degrees forward and 8 degrees backward, the operator can rapidly perform loading and unloading jobs safely.



### Clean and Reliable Brakes

The adoption of DUO-SERVO type drum brake improves braking performance. A self-adjusting function maintains proper brake adjustment to compensate for lining wear.



### Fully Hydrostatic Power Steering

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



### 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

## Comfortable Operation

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



### Adjustable Steering Wheel

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



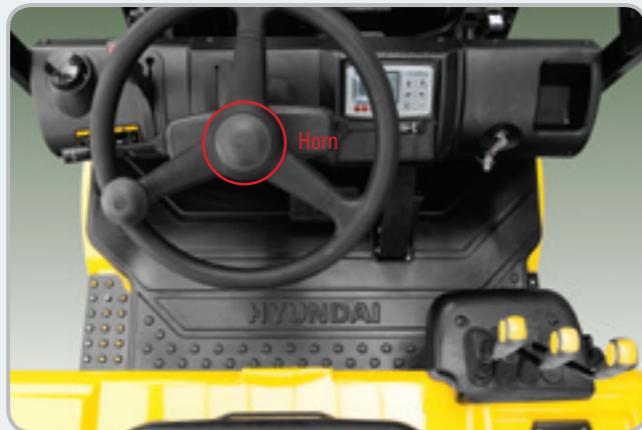
### High Visibility For Safe Operation

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



### Easy Control Direction Lever

Finger tip control of forward and reverse lever allows the operator to remain in control of equipment.



### 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.



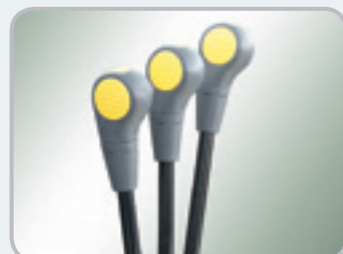
### Multi-Functional Switch

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



### Optimum Pedal Position & Non-slip Mat

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



### 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 design, provides greater comfort, safety and durability.

Options : Seat belt, Arm rest, Hip restraint



### 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

■ Some of the photos may include optional equipment.



### 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.

### 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.



■ Some of the photos 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.

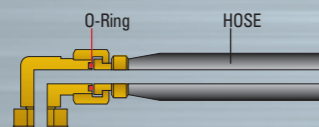


### Rear Safety Lamp

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.

### High quality AC motors

Enclosed motors prolong durability. No brush and no commutator. (No arc and no spark)



## Easy Maintenance & Serviceability

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

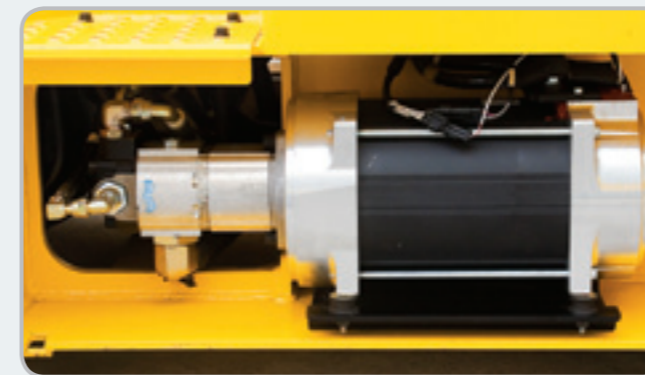
Battery change is easy with swing-up compartment and slotted overhead guard. Opening and closing of battery cover is made easy with a gas-spring assist cylinder.



### A Concentrated Fuse Box For Easy Inspection



### Oil Tank Port



### Hydraulic Motor



### Battery Disconnect Lever / Switch



### Easy to Check Brake Oil Level



### High Visibility Headlights & Rear Work Light



### DC-DC Converter

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

## Mast Specification (20/25/30BC-7)

Mast Type		Overall Height (Lowered) (mm)	Maximum Fork Height (mm)	Free Lift (mm)			Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (500mm LC) (kg)			Load Capacity with side shift at (500mm LC) (kg)			Truck Weight (Unloaded) (kg)		
				With Backrest	Without Backrest											
		20/25/30BC-7	20/25/30BC-7	20/25/30BC-7	20/25BC-7	30BC-7	20/25/30BC-7	20BC-7	25BC-7	30BC-7	20BC-7	25BC-7	30BC-7	20BC-7	25BC-7	30BC-7
2 / Stage limited free lift	V209	1,530	2,090	115	115	115	10 / 6	2,000	2,500	3,000	2,000	2,500	3,000	4,011	4,346	4,845
	V300	1,985	3,000	115	115	115	6 / 8	2,000	2,500	3,000	2,000	2,500	3,000	4,066	4,401	4,907
	*V330	2,135	3,300	115	115	115	6 / 8	2,000	2,500	3,000	2,000	2,500	3,000	4,085	4,420	4,928
	V350	2,235	3,500	115	115	115	6 / 8	2,000	2,500	3,000	2,000	2,500	3,000	4,102	4,437	4,947
	V370	2,385	3,700	115	115	115	6 / 8	2,000	2,500	3,000	2,000	2,500	3,000	4,124	4,459	4,970
	V400	2,535	4,000	115	115	115	6 / 8	2,000	2,500	3,000	2,000	2,450	2,900	4,146	4,481	4,994
	V430	2,685	4,300	115	115	115	6 / 8	2,000	2,490	3,000	2,000	2,410	2,850	4,192	4,527	5,041
	V450	2,835	4,500	115	115	115	6 / 5	2,000	2,450	2,960	1,950	2,370	2,810	4,219	4,554	5,071
	V470	2,935	4,700	115	115	115	6 / 5	2,000	2,420	2,920	1,900	2,340	2,770	4,234	4,569	5,086
V500	3,085	5,000	115	115	115	6 / 5	2,000	2,370	2,870	1,850	2,290	2,720	4,256	4,591	5,086	
3 / Stage full free lift	TF370 / TS370	1,785	3,700	605	1,177	1,114	6 / 5	2,000	2,500	3,000	1,920	2,420	2,850	4,215	4,550	5,070
	TF400 / TS400	1,885	4,000	705	1,277	1,214	6 / 5	2,000	2,440	2,930	1,920	2,360	2,780	4,236	4,571	5,092
	TF430 / TS430	1,985	4,300	805	1,377	1,314	6 / 5	2,000	2,390	2,870	1,920	2,310	2,720	4,258	4,593	5,137
	TF450 / TS450	2,085	4,500	905	1,477	1,414	6 / 5	1,980	2,350	2,830	1,900	2,270	2,680	4,279	4,614	5,142
	TF470 / TS470	2,135	4,700	955	1,527	1,464	6 / 5	1,950	2,320	2,800	1,870	2,240	2,650	4,292	4,627	5,156
	TF500 / TS500	2,235	5,000	1,055	1,627	1,564	6 / 5	1,910	2,270	2,740	1,830	2,190	2,590	4,316	4,651	5,180
	TF550 / TS550	2,435	5,500	1,255	1,827	1,764	6 / 5	1,840	2,200	2,650	1,760	2,120	2,500	4,356	4,691	5,225
	TF600 / TS600	2,635	6,000	1,455	2,027	1,964	6 / 5	1,300	1,580	1,920	1,220	1,500	1,770	4,432	4,767	5,305

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

\* Standard

## Mast Specification (32BC-7)

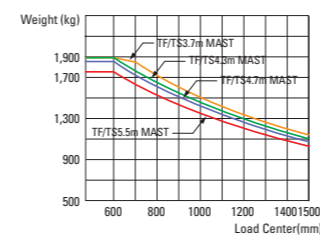
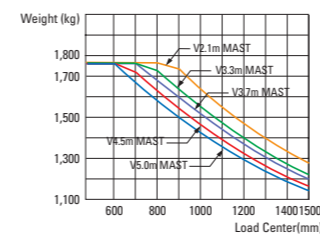
Mast Type		Overall Height (Lowered) (mm)	Maximum Fork Height (mm)	Free Lift (mm)		Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (500mm LC) (kg)	Load Capacity with side shift at (500mm LC) (kg)	Truck Weight (Unloaded) (kg)
				With Backrest	Without Backrest				
				32BC-7	32BC-7		32BC-7	32BC-7	32BC-7
2-Stage limited free lift	V290	1,985	2,900	115	115	6 / 8	3,200	3,200	5,079
	*V320	2,135	3,200	115	115	6 / 8	3,200	3,200	5,100
	V340	2,235	3,400	115	115	6 / 8	3,200	3,200	5,118
	V360	2,385	3,700	115	115	6 / 8	3,200	3,200	5,142
	V390	2,535	4,000	115	115	6 / 8	3,200	3,200	5,165
	V420	2,685	4,300	115	115	6 / 8	3,200	3,100	5,213
	V440	2,835	4,500	115	115	6 / 5	3,180	3,030	5,242
	V460	2,935	4,700	115	115	6 / 5	3,140	2,990	5,258
	V490	3,085	5,000	115	115	6 / 5	3,100	2,950	5,281
3-Stage full free lift	TF370 / TS370	1,835	3,700	655	1,164	6 / 5	3,200	3,050	5,265
	TF400 / TS400	1,935	4,000	755	1,264	6 / 5	3,120	2,970	5,286
	TF430 / TS430	2,035	4,300	855	1,364	6 / 5	3,060	2,910	5,311
	TF450 / TS450	2,135	4,500	955	1,464	6 / 5	3,010	2,860	5,336
	TF470 / TS470	2,185	4,700	1,005	1,514	6 / 5	2,970	2,820	5,350
	TF500 / TS500	2,285	5,000	1,105	1,614	6 / 5	2,910	2,760	5,375
	TF550 / TS550	2,485	5,500	1,305	1,814	6 / 5	2,820	2,670	5,419
	TF600 / TS600	2,685	6,000	1,505	2,014	6 / 5	2,050	1,900	5,499

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

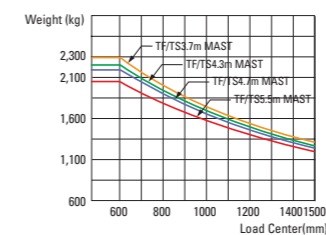
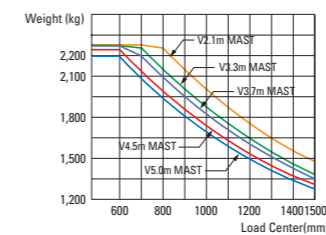
\* Standard

## Load Capacity

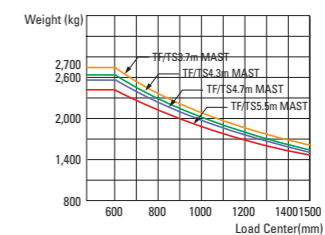
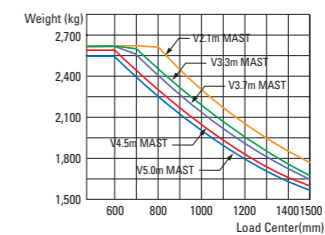
## 20BC-7



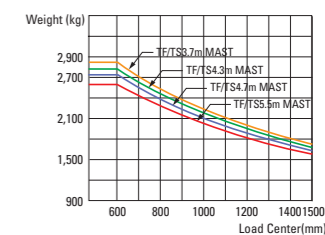
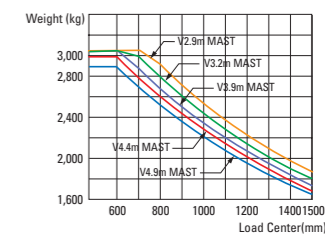
## 25BC-7



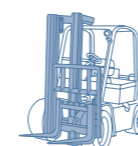
## 30BC-7



## 32BC-7



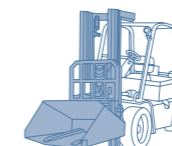
## Various Attachments



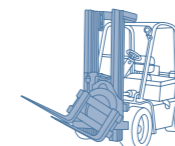
Side Shift



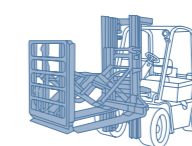
Hinged Fork



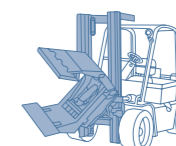
Hinged Bucket



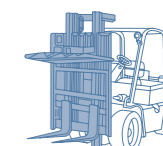
Rotating Fork



Push Pull



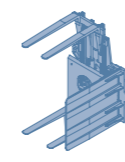
Rotating Roll Clamp



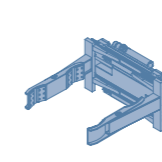
Load Stabilizer



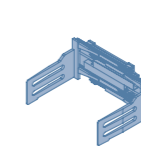
Carton Clamp



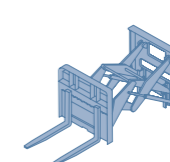
Pallet Invert



Drum Clamp



Bale Clamp



Load Extender



Fork Positioner

## Optional Items

## • Mast

3-Stage Full Free Lift, 3-Stage Dual Full Free Lift

## • Fork(mm)

20/25BC-7 : 45 x 100 x 900 / 1,000 / 1,050 / 1,200 / 1,350 / 1,500 / 1,650 / 1,800

30/32BC-7 : 45 x 125 x 900 / 1,150 / 1,200 / 1,350 / 1,500 / 1,650 / 1,800 / 2,400

## • Overshoe(mm)

1,500 / 1,700 / 1,800

## • Sideshift

## • Integral sideshift

## • Tire

Smooth Rubber Type  
Non-Marking (Lug or Smooth Type)

## • Cold Storage

• Dual Voltage (36/48 V)

## • UL EE

## • Finger Tip Control

## • SBR (Side Battery Removing)