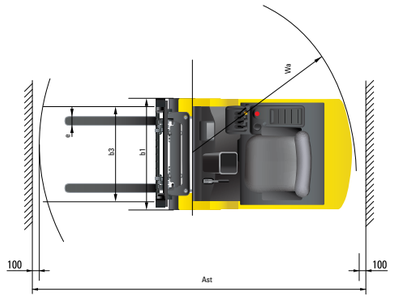
Dimension



Specification

Identification					
1.1	Manufacturer		HYUNDAI		
1.2	Manufacturer's type designation		15BT-9	18BT-9	20BT-9
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	1,500	1,800	2,000
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of front axle to fork	x mm	360	360	365
1.9	Wheelbase	y mm	1335	1,420	1,420
Weights					
2. 1	Service weight	kg	3,125	3,365	3,500
2. 2	Axle loading, loaded front / rear	kg	4,127 / 498	4,600 / 565	4,900 / 600
2. 3	Axle loading , unloaded front / rear	kg	1,661 / 1,464	1,710 / 1,655	1,684 / 1,816
Wheels, Chassis					
3. 1	Tires : solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE)		SE	SE	SE
3. 2	Tires size, front(Φ x width)		18 x 7-8	200 / 50-10	200 / 50-10
3. 3	Tires size, rear(Φ x width)		15 x 4.5-8	15 x 4.5-8	15 x 4.5-8
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	905	905
3. 7	Track width, rear	mm	170	170	170
Basic Dimensions					
4.1	Mast / fork carriage tilt forward / backward	degrees	5 / 7	5 / 7	5 / 7
4.2	Lowered mast height	h1 mm	1,970	1,979	1,979
4.3	Free lift height	h2 mm	35	35	40
4.4	Lift height	h3 mm	3,300	3,300	3,300
4.5	Extended mast height	h4 mm	4,020	4,020	4,020
4.7	Overhead guard (cab) height	h5 mm	2,065	2,065	2,065
4.8	Seat height / Standing height	h7 mm	927	927	927
4.12	Coupling height	h10 mm	410	410	410
4.19	Overall length	l1 mm	2,785	2,875	2,910
4.20	Length to face of forks	l2 mm	1,885	1,975	2,010
4.21	Overall width	b1 mm	1,074	1,105	1,105
4.22	Fork dimensions	l / e / s 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		2A	2A	2A
4.24	Fork - carriage width	b3 mm	980	980	980
4.31	Ground clearance, loaded, under mast	m1 mm	85	94	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	3,226	3,316	3,351
4.34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	3,350	3,440	3,475
4.35	Turning radius	Wa mm	1,540	1,630	1,660
Performance Data					
5.1	Travel speed, loaded/ unloaded	km/h	16 / 17	16 / 17	16 / 17
5.2	Lift speed, loaded/ unloaded	mm/s	410 / 600	410 / 600	410 / 600
5.3	Lowering speed, loaded/unloaded	mm/s	500 / 450	500 / 450	500 / 450
5.6	Max. drawbar pull, loaded/ unloaded S2 5min	N	15,102 / 14,759	15,190 / 14,710	14,367 / 14,043
5.8	Max. gradient performance, loaded S2 5min	%	29.5	27.5	24.5
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
E - Motor					
6.1	Dirve motor rating S2 60min	kW	4.7x2	4.7x2	4.7x2
6.2	Lift motor rating at S3 20%(S2 10min)	kW	14.0	14.0	14.0
6.4	Battery voltage, nominal capacity K5	V/Ah	48 / 510	48 / 585	48 / 585
6.5	Battery weight (Min.)	kg	710	835	835
	Battery compartment dimensions l/w/h	mm	983 / 553 / 636	983 / 638 / 636	983 / 638 / 636
Other Details					
8.1	Type of drive control		AC	AC	AC

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2013. 10 Rev. 0

15/18/20BT-9

Electric Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Your satisfaction is **our priority!**

Hyundai introduces a new line of **9-series** battery forklift trucks.
The newly designed 3 wheel counterbalance trucks provide every operator comfortable driving, increased productivity and easy maintenance.

Compact forklift with proven AC technology

- **Maximum performance**
- **Comfortable operating room**
- **Battery side loading system**
- **Curve control system**
- **Fingertip controlled mini levers available (optional)**
- **Weight indicator (optional)**
- **Safety system that prevents over loading (optional)**

Some of the photos may include optional equipment.

High Efficiency &
Optimal Performance

Efficient, smooth running and compact design provide you with enhanced performance and highest productivity.

15/18/20BT-9

More efficient operating control levers (Optional)

Electronic directional control and secondary horn are mounted to the hydraulic lift lever for quick and precise maneuvering.

Finger tip control levers (Optional)

The finger tip control lever allows more precise control and fatigue-free working.
The ergonomically designed armrest can be adjusted up, down, forward and backward for various operator's body type.

Some of the photos may include optional equipment.

Some of the photos may include optional equipment.

Curve control

Curve Control limits travel speed based on turning radius, reducing speed for a smooth, precise turning operation for the driver.

Designed for compact aisle width and turning radius

The combination of 3-wheel design and dual drive motors offer central pivot turning.
This allows the driver to work in very confined spaces.

Advanced drive and lift performance with proven durability and low maintenance

The enclosed drive and pump motor with AC technology combine power, high maintenance intervals and excellent durability.
The brushless AC motors offer improved efficiency and reduction maintenance cost.

Auto fork leveling system (Optional)

In order to improve productivity the auto fork leveling system will automatically stop the tilt movement when the mast is in a straight position.

Max. Gradeability (loaded)

Model	%
15BT-9	29.5
18BT-9	27.5
20BT-9	24.5

Max. Travel Speed (unloaded)

Model	km / h
15BT-9	17
18BT-9	17
20BT-9	17

Anti roll back system, travel speed and gradeability

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

Advanced **Safety**

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

15/18/20BT-9

Some of the photos may include optional equipment.

Excellent visibility for safe operation

Optimized lift cylinder arrangement provides operator with wider visibility.
The panoramic mirror expands the driver's view when backing up.

Some of the photos may include optional equipment.

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.

OPSS(Operator Presence Sensing System)

When the operator is not in the seat all mast and drive movements are impossible.

Lift Lock Tilt Lock Drive Lock

Strong overhead guard

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

Safety lamps & rear reflectors

LED combination lights and halogen headlights offer the driver visibility in all circumstances.
Rear reflectors mounted on the counterweight enhance safety for the driver and the application.

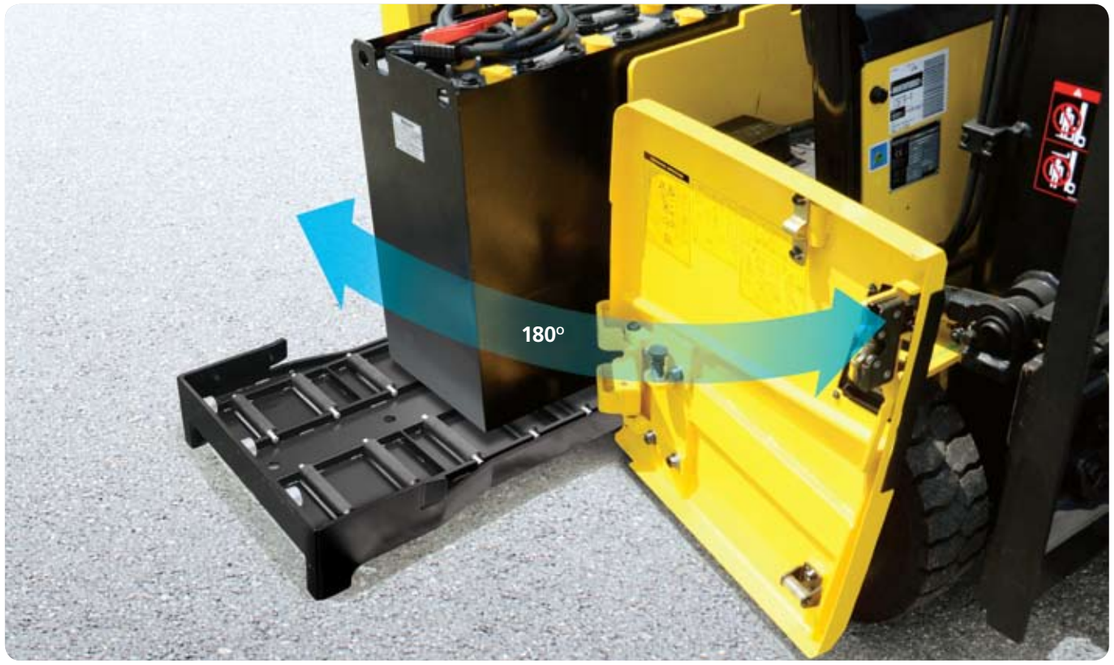
Optimised Ergonomics &
Fast and Easy Maintenance

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

Some of the photos may include optional equipment.

Spacious operator cabin

The BT is designed as a small, compact design, yet the operator compartment has ample room for virtually any operator.



Some of the photos may include optional equipment.

Easy battery replacement

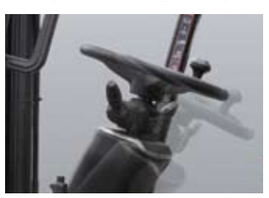
The battery compartment is equipped with a side battery removal assembly for easy removal and replacement.

Optimized pedal position and floor mat

The position of accelerator and throttle have been optimized through human engineering.

Low entrance height

In order to get in and out of the cabin in an easy and safe way the height of the entrance step is only 400mm high.



Adjustable steering wheel

To achieve a comfortable drive position, the angle of the steering column can easily be adjusted through a lever on the right-hand side of the steering column.

Grammer seat (Optional)

An easily adjustable suspension seat, based on a human engineering design, provides greater comfort reducing operator fatigue.

Advanced LCD Monitor

The LCD color monitor with 3.5 inch graphic smart display allows the operator to easily and efficiently control the machine.
The monitor provides information about speed & accelerator lever, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The optional load indicator displays the load weight in the monitor. The operator can select various performance modes to meet all working conditions.
It is available multi-languages (maximum 11) for operator.

H (High) **mode** **N** (Normal) **mode** **E** (Economic) **mode**
Turtle mode (maintain 7 km/h travel speed when lifting)

Brake oil reservoir with level sensor

The enhanced brake oil reservoir, located in the upper left dash is equipped with an electronic level sensor and easily visible through the monitor.

New **9 Series**

Mast Specification (15/18BT-9)

Mast Type		Maximum Fork Height (mm)	Overall Height (Lowered) (mm)	Free Lift Height (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 Load Backrest	Without Load Backrest							
		15/18BT-9	15/18BT-9	15/18BT-9	15/18BT-9	15/18BT-9	15BT-9	18BT-9	15BT-9	18BT-9	15BT-9	18BT-9
2- Stage Limited free lift	V250	2,525	1,720	35	35	5 / 7	1,500	1,800	1,440	1,730	2,953	3,239
	V270	2,725	1,820	35	35	5 / 7	1,500	1,800	1,440	1,730	2,966	3,252
	V300	3,025	1,970	35	35	5 / 7	1,500	1,800	1,440	1,730	2,985	3,271
	* V330	3,325	2,120	35	35	5 / 7	1,500	1,800	1,440	1,730	3,006	3,292
	V350	3,525	2,220	35	35	5 / 7	1,500	1,800	1,440	1,730	3,019	3,305
	V370	3,725	2,320	35	35	5 / 7	1,500	1,800	1,440	1,730	3,031	3,317
	V400	4,025	2,470	35	35	5 / 7	1,450	1,750	1,400	1,680	3,056	3,342
	V450	4,525	2,820	35	35	5 / 5	1,400	1,700	1,400	1,640	3,123	3,409
	V500	5,025	3,070	35	35	5 / 5	1,350	1,600	1,340	1,540	3,157	3,443
	V550	5,525	3,320	35	35	5 / 5	1,300	1,550	1,250	1,500	3,177	3,463
2- Stage full free lift	VF300	3,025	1,970	972	1,460	5 / 5	1,500	1,800	1,440	1,730	3,024	3,310
	VF330	3,325	2,120	1,122	1,610	5 / 5	1,500	1,800	1,440	1,730	3,045	3,331
	VF350	3,525	2,220	1,222	1,710	5 / 5	1,500	1,800	1,440	1,730	3,061	3,347
3 - Stage full free lift	TF/TS370	3,735	1,770	772	1,260	5 / 5	1,475	1,750	1,420	1,680	3,101	3,387
	TF/TS400	4,035	1,870	872	1,360	5 / 5	1,450	1,700	1,390	1,630	3,121	3,407
	TF/TS430	4,335	1,970	972	1,460	5 / 5	1,400	1,650	1,340	1,590	3,141	3,427
	TF/TS450	4,535	2,070	1,072	1,560	5 / 5	1,375	1,625	1,320	1,560	3,160	3,446
	TF/TS470	4,735	2,120	1,122	1,610	5 / 5	1,350	1,600	1,300	1,530	3,171	3,457
	TF/TS500	5,035	2,220	1,222	1,710	5 / 5	1,300	1,550	1,250	1,490	3,191	3,477
	TF/TS550	5,535	2,420	1,422	1,910	5 / 5	1,250	1,450	1,200	1,390	3,230	3,516
	TF/TS600	6,035	2,620	1,622	2,110	5 / 5	1,175	1,175	1,130	1,130	3,294	3,580
	TF/TS650	6,535	2,820	1,822	2,310	5 / 5	900	1,050	850	1,010	3,338	3,624
	TF/TS700	7,035	3,020	2,022	2,510	5 / 5	650	800	610	760	3,377	3,663

Mast Specification (20BT-9)

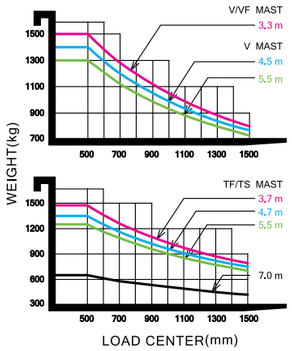
Mast Type		Maximum Fork Height (mm)	Overall Height (Lowered) (mm)	Free Lift Height (mm)		Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (500mm LC)(kg)	Load Capacity with side shift at (500mm LC)(kg)	Truck Weight (Unloaded) (kg)
				With Load Backrest	Without Load Backrest				
		20BT-9	20BT-9	20BT-9	20BT-9	20BT-9	20BT-9	20BT-9	20BT-9
2- Stage Limited free lift	V250	2,530	1,729	40	40	5 / 7	2,000	1,920	3,418
	V270	2,730	1,829	40	40	5 / 7	2,000	1,920	3,431
	V300	3,030	1,979	40	40	5 / 7	2,000	1,920	3,450
	* V330	3,330	2,129	40	40	5 / 7	2,000	1,920	3,471
	V350	3,530	2,229	40	40	5 / 7	2,000	1,920	3,484
	V370	3,730	2,329	40	40	5 / 7	2,000	1,920	3,496
	V400	4,030	2,479	40	40	5 / 7	1,950	1,880	3,521
	V450	4,530	2,829	40	40	5 / 5	1,850	1,780	3,588
	V500	5,030	3,079	40	40	5 / 5	1,800	1,730	3,622
	V550	5,530	3,329	40	40	5 / 5	1,700	1,640	3,642
2- Stage full free lift	VF300	3,030	1,979	986	1,474	5 / 5	2,000	1,920	3,489
	VF330	3,330	2,129	1,136	1,624	5 / 5	2,000	1,920	3,510
	VF350	3,530	2,229	1,236	1,725	5 / 5	2,000	1,920	3,526
3 - Stage full free lift	TF/TS370	3,740	1,779	786	1,274	5 / 5	1,950	1,880	3,566
	TF/TS400	4,040	1,879	886	1,374	5 / 5	1,900	1,830	3,586
	TF/TS430	4,340	1,979	986	1,474	5 / 5	1,850	1,790	3,606
	TF/TS450	4,540	2,079	1,086	1,574	5 / 5	1,825	1,770	3,625
	TF/TS470	4,740	2,129	1,136	1,624	5 / 5	1,800	1,740	3,636
	TF/TS500	5,040	2,229	1,236	1,724	5 / 5	1,750	1,690	3,656
	TF/TS550	5,540	2,429	1,436	1,924	5 / 5	1,700	1,640	3,695
	TF/TS600	6,040	2,629	1,636	2,124	5 / 5	1,500	1,500	3,759
	TF/TS650	6,540	2,829	1,836	2,324	5 / 5	1,300	1,250	3,803
	TF/TS700	7,040	3,029	2,036	2,524	5 / 5	1,050	1,010	3,842

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

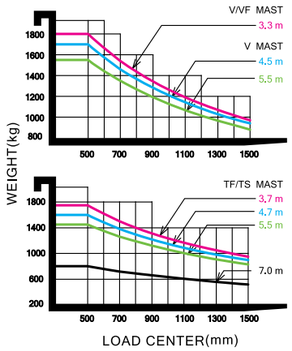
* Standard

Load Capacity

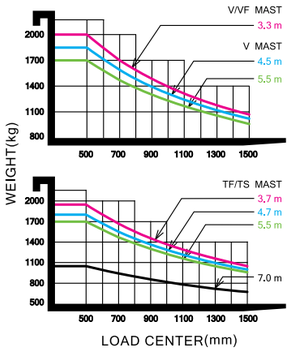
15BT-9



18BT-9



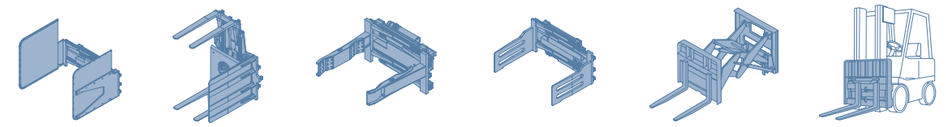
20BT-9



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

- **Fork (mm)** **15 / 18BT-9 :** 35X100X750, 850, 900(STD), 1050, 1200, 1350, 1500
  20BT-9 : 40X100X900(STD), 950, 1000, 1050, 1150, 1200, 1350, 1500, 1600
- **Overshoe (mm) :** 1300 / 1500 / 1700
- **Integral Sideshift**
- **Tire :** SOLID (STD) / Non-marking / Cushion tire /
  Wide tire [15BT-9 : Front tire (200 / 50-10), 18/20BT-9 : Rear tire (15X5.5-9)]
- **Seat :** Grammer
- **Finger Tip Control**
- **Cold Storage**
- **M.C.V :** 2-Spool (STD), 3-Spool, 4-Spool
- **Auto Fork Leveling**
- **Beacon Lamp**
- **Load Indicator**
- **Work Lamp**
- **OPSS :** Mast
- **UL :** ES, EE
- **Cabin**