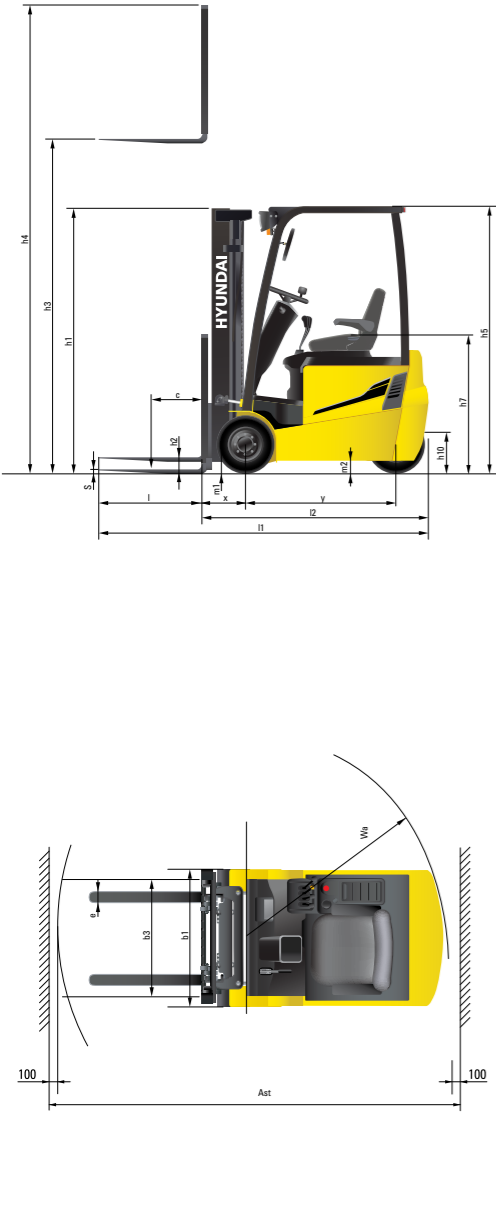


## Dimension



## 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-	Seated	Seated	Seated
1.5	picker	Q lb	3,000	3,500
1.6	Load capacity / rated load	c in	24	24
1.8	Load center distance	x in	14	14
1.9	Load distance, center of front axle to fork	y in	53	56
Weights				
2.1	Service weight	lb	6,889	7,419
2.2	Axle loading, loaded front / rear	lb	9,098 / 1,098	10,141 / 1,246
2.3	Axle loading, unloaded front / rear	lb	3,662 / 3,228	3,770 / 3,649
Wheels, Chassis				
3.1	Tires: solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE)		SE	SE
3.2	Tires size, front(Φ x width)		18 x 7-8	200 / 50-10
3.3	Tires size, rear(Φ x width)		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
3.6	Track width, front	in	35	36
3.7	Track width, rear	in	6.7	6.7
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward	degrees	5 / 7	5 / 7
4.2	Lowered mast height	h1 in	78	1,979
4.3	Free lift height	h2 in	1.4	1.6
4.4	Lift height	h3 in	130	130
4.5	Extended mast height	h4 in	158	158
4.7	Overhead guard (cab) height	h5 in	81	2,065
4.8	Seat height / Standing height	h7 in	36	36
4.12	Coupling height	h10 in	16	16
4.19	Overall length	l1 in	110	113
4.20	Length to face of forks	l2 in	74	78
4.21	Overall width	b1 in	42	44
4.22	Fork dimensions	l / e / s in	35 x 3.9 x 1.4	35 x 3.9 x 1.4
4.23	Fork carriage ISO 2328, class / type A, B		2A	2A
4.24	Fork - carriage width	b3 in	39	39
4.31	Ground clearance, loaded, under mast	m1 in	3.3	3.7
4.32	Ground clearance, centre of wheelbase	m2 in	3.5	3.9
4.33	Aisle width for pallets 1,000 x 1,200 crossways	Ast in	127	131
4.34	Aisle width for pallets 800 x 1,200 lengthways	Ast in	132	137
4.35	Turning radius	Wa in	61	64
Performance Data				
5.1	Travel speed, loaded / unloaded	mph	9.9 / 10.6	9.9 / 10.6
5.2	Lift speed, loaded / unloaded	ft/min	81 / 118	81 / 118
5.3	Lowering speed, loaded / unloaded	ft/min	98 / 89	98 / 89
5.6	Max. drawbar pull, loaded / unloaded S2 5min	N	15,102 / 14,759	15,190 / 14,710
5.8	Max. gradient performance, loaded S2 5min	%	29.5	27.5
5.10	Service brake		Hydraulic	Hydraulic
E - Motor				
6.1	Drive motor rating S2 60min	kW	4.7x2	4.7x2
6.2	Lift motor rating at S3 20%(S2 10min)	kW	14.0	14.0
6.4	Battery voltage, nominal capacity K5	V	36 / 48	36 / 48
6.5	Battery weight (Min.)	lb	1,565	1,841
	Battery compartment dimensions l/w/h	in	39 / 22 / 25	39 / 25 / 25
Other Details				
8.1	Type of drive control		AC	AC

# 15/18/20BT-9

Electric Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



**HYUNDAI FORKLIFT**  
CONSTRUCTION EQUIPMENT AMERICAS, INC.

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PLEASE CONTACT

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2013. 10 Rev. 0

**HYUNDAI**  
CONSTRUCTION EQUIPMENT AMERICAS, INC.

# 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
- Load indicatory system
- Fingertip controlled mini levers available (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.

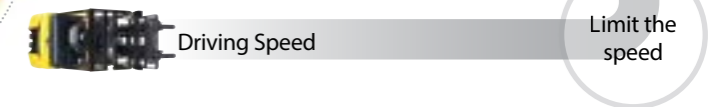


Some of the photos may include optional equipment.



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.



Max. Gradeability (loaded)		Max. Travel Speed (unloaded)	
Model	%	Model	km / h
15BT-9	29.5	15BT-9	17
18BT-9	27.5	18BT-9	17
20BT-9	24.5	20BT-9	17



**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.

**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**



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.



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.

**15/18/20BT-9**



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

An easily adjustable full 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

15/18/20BT-9

## Mast Specification (15/18BT-9)

Mast Type	Maximum Fork Height (in)	Overall Height (Lowered) (in)	Free Lift Height (in)		Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (24in LC) (lb)		Load Capacity with side shift at (24in LC) (lb)		Truck Weight (Unloaded) (lb)		
			With Load Backrest	Without Load Backrest		15BT-9	18BT-9	15BT-9	18BT-9	15BT-9	18BT-9	
			15/18BT-9	15/18BT-9		15/18BT-9	15/18BT-9	15BT-9	18BT-9	15BT-9	18BT-9	
2-Stage Limited free lift	V250	99	68	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,510	7,141
	V270	99	72	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,539	7,169
	V300	119	78	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,581	7,211
	* V330	130	83	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,627	7,258
	V350	139	87	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,651	7,286
	V370	147	91	1.4	1.4	5/7	3,307	3,968	3,175	3,814	6,682	7,313
	V400	158	97	1.4	1.4	5/7	3,197	3,858	3,086	3,704	6,737	7,368
	V450	178	111	1.4	1.4	5/5	3,086	3,748	3,086	3,616	6,885	7,516
	V500	198	121	1.4	1.4	5/5	2,976	3,527	2,954	3,395	6,960	7,591
	V550	218	131	1.4	1.4	5/5	2,866	3,417	2,756	3,307	7,004	7,635
2-Stage full free lift	VF300	119	78	38	57	5/5	3,307	3,968	3,175	3,814	6,667	7,297
	VF330	131	83	44	63	5/5	3,307	3,968	3,175	3,814	6,713	7,344
	VF350	139	87	48	67	5/5	3,307	3,968	3,175	3,814	6,748	7,379
3-Stage full free lift	TF/TS370	147	70	30	50	5/5	3,252	3,858	3,131	3,704	6,837	7,467
	TF/TS400	159	74	34	64	5/5	3,197	3,748	3,064	3,704	6,880	7,511
	TF/TS430	171	78	38	57	5/5	3,086	3,638	2,954	3,505	6,925	7,555
	TF/TS450	178	81	42	61	5/5	3,031	3,583	2,910	3,439	6,967	7,597
	TF/TS470	186	83	44	63	5/5	2,976	3,527	2,866	3,373	6,991	7,621
	TF/TS500	198	87	48	67	5/5	2,866	3,417	2,756	3,285	7,035	7,665
	TF/TS550	218	95	56	75	5/5	2,756	3,197	2,646	3,064	7,121	7,751
	TF/TS600	238	103	64	83	5/5	2,590	2,590	2,491	2,491	7,262	7,893
	TF/TS650	257	111	72	91	5/5	1,984	2,315	1,874	2,227	7,359	7,990
	TF/TS700	277	119	80	99	5/5	1,433	1,764	1,344	1,676	7,445	8,076

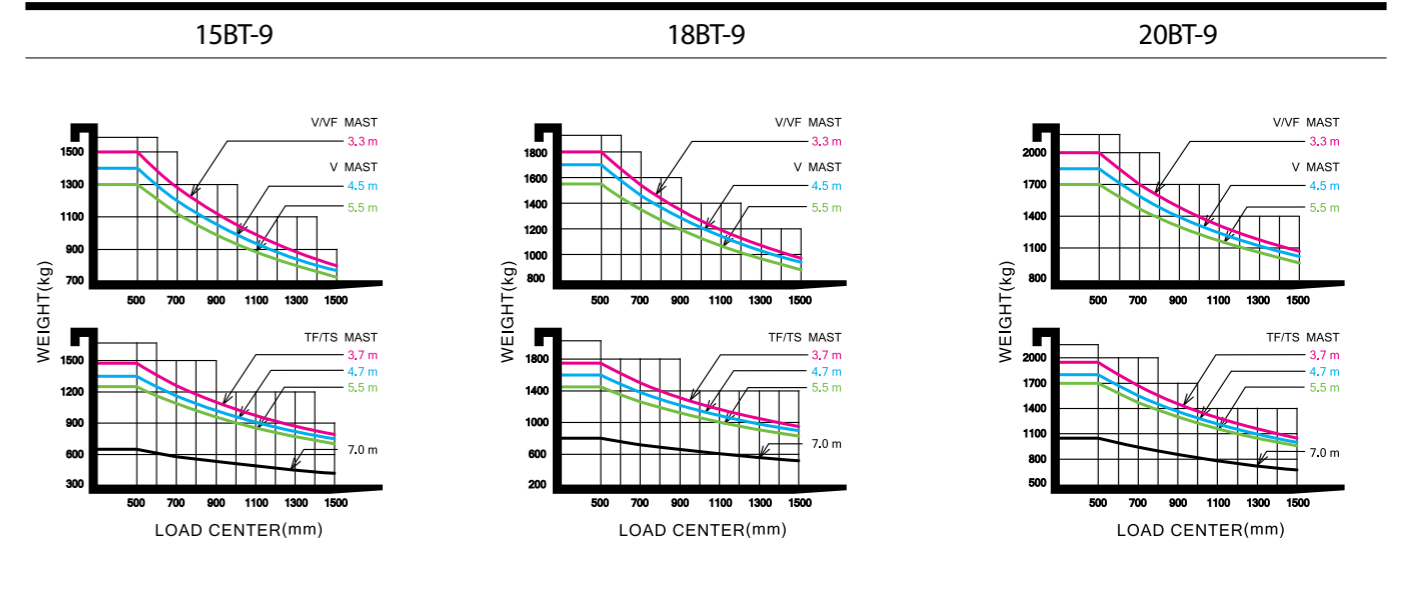
## Mast Specification (20BT-9)

Mast Type	Maximum Fork Height (in)	Overall Height (Lowered) (in)	Free Lift Height (in)		Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (24in LC) (lb)		Load Capacity with side shift at (24in LC) (lb)		Truck Weight (Unloaded) (lb)	
			With Load Backrest	Without Load Backrest		20BT-9	20BT-9	20BT-9	20BT-9		
			20BT-9	20BT-9		20BT-9	20BT-9	20BT-9	20BT-9		
2-Stage Limited free lift	V250	100	68	1.6	1.6	5/7	4,409	4,233	4,233	7,535	
	V270	107	72	1.6	1.6	5/7	4,409	4,233	4,233	7,564	
	V300	119	78	1.6	1.6	5/7	4,409	4,233	4,233	7,606	
	* V330	131	84	1.6	1.6	5/7	4,409	4,233	4,233	7,652	
	V350	139	88	1.6	1.6	5/7	4,409	4,233	4,233	7,681	
	V370	147	92	1.6	1.6	5/7	4,409	4,233	4,233	7,707	
	V400	159	98	1.6	1.6	5/7	4,299	4,145	4,145	7,763	
	V450	178	111	1.6	1.6	5/5	4,079	3,924	3,924	7,910	
	V500	198	121	1.6	1.6	5/5	3,968	3,814	3,814	7,985	
	V550	218	131	1.6	1.6	5/5	3,748	3,616	3,616	8,029	
2-Stage full free lift	VF300	119	78	39	58	5/5	4,409	4,233	4,233	7,692	
	VF330	131	84	45	64	5/5	4,409	4,233	4,233	7,738	
	VF350	139	88	49	68	5/5	4,409	4,233	4,233	7,774	
3-Stage full free lift	TF/TS370	147	70	31	50	5/5	4,299	4,145	4,145	7,862	
	TF/TS400	159	74	35	54	5/5	4,189	4,034	4,034	7,906	
	TF/TS430	171	78	39	58	5/5	4,079	3,946	3,946	7,950	
	TF/TS450	179	82	43	62	5/5	4,023	3,902	3,902	7,992	
	TF/TS470	187	84	45	64	5/5	3,968	3,836	3,836	8,016	
	TF/TS500	198	88	49	68	5/5	3,858	3,726	3,726	8,060	
	TF/TS550	218	96	67	76	5/5	3,748	3,616	3,616	8,146	
	TF/TS600	238	104	64	84	5/5	3,306	3,307	3,307	8,287	
	TF/TS650	257	111	72	91	5/5	2,866	2,756	2,756	8,384	
	TF/TS700	277	119	80	99	5/5	2,315	2,227	2,227	8,470	

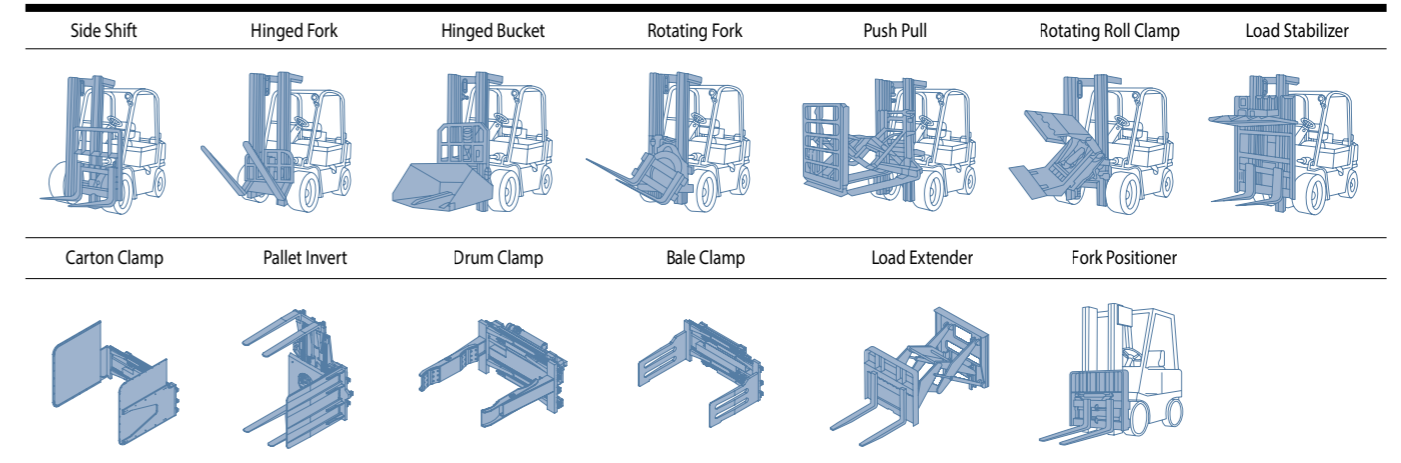
\* TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

\* Standard

## Load Capacity



## Various Attachments



## Optional Items

- Fork (in) 15 / 18BT-9 : 1.4X3.9X30, 33, 35(STD), 41, 47, 53, 59  
20BT-9 : 1.6X3.9X35(STD), 37, 39, 41, 45, 47, 53, 59, 63
- Overshoe (in) : 51 / 59 / 67
- 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