

15/18/20BT-9

Electric Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI CONSTRUCTION EQUIPMENT



 **HYUNDAI CONSTRUCTION EQUIPMENT**

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 **HYUNDAI**
CONSTRUCTION EQUIPMENT

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.

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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.

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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



Some of the photos may include optional equipment.



Strong overhead guard

Exceeding EEC 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.

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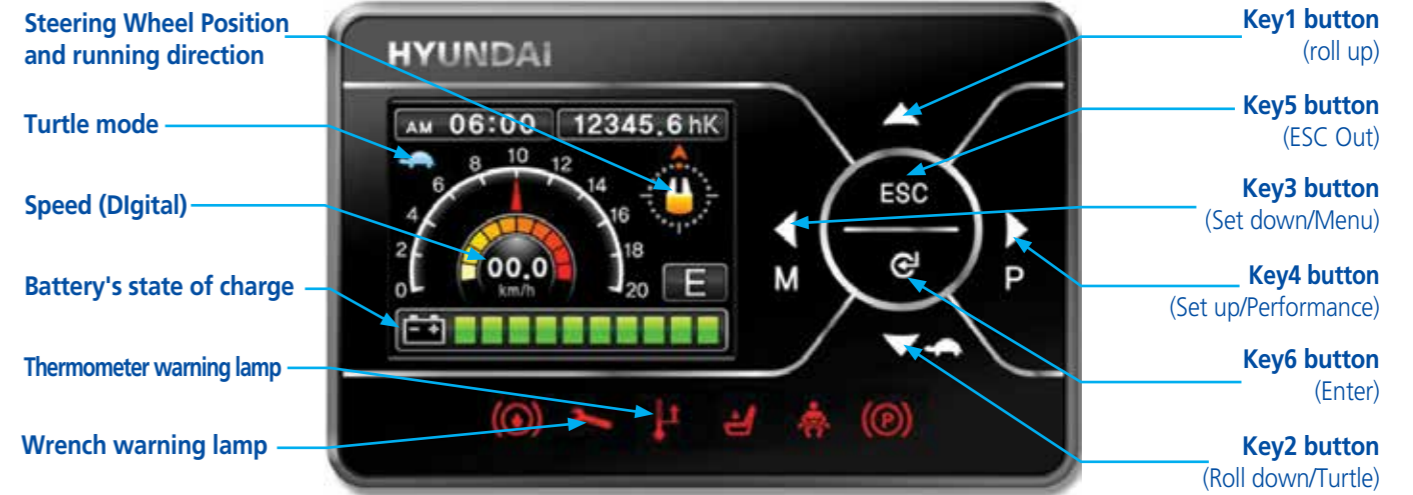


Spacious operator cabin

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.

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 level, 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 12) for operator.

H (High) mode **N** (Normal) mode **E** (Economic) mode

Turtle mode



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.



Easy battery replacement

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



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 (15BT-9)

Mast Type	Maximum Fork Height		Overall Height (Lowered)		Free lift height				Tilt Angle		Load capacity w/o side shift		Load capacity w/side shift		Truck Weight (Unloaded)		
					With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC			
	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.4	2525	67.7	1720	1.4	35	1.4	35	5	7	3000	1500	2930	1440	6775	3073
	V270	107.3	2725	71.7	1820					5	7	3000	1500	2930	1440	6801	3085
	V300	119.1	3025	77.6	1970					5	7	3000	1500	2930	1440	6845	3105
	*V330	130.9	3325	83.5	2120					5	7	3000	1500	2930	1440	6889	3125
	V350	138.8	3525	87.4	2220					5	7	3000	1500	2930	1440	6918	3138
	V370	146.7	3725	91.3	2320					5	7	3000	1500	2930	1440	6947	3151
	V400	158.5	4025	97.2	2470					5	7	2950	1450	2840	1400	7002	3176
	V450	178.1	4525	111.0	2820					5	5	2840	1400	2730	1340	7149	3243
	V500	197.8	5025	120.9	3070					5	5	2750	1350	2640	1300	7224	3277
	V550	217.5	5525	130.7	3320					5	5	2660	1300	2550	1250	7269	3297
2-STAGE FULL FREE LIFT	VF/VS300	119.1	3025	77.6	1970	38.3	972	60.4	1534	5	5	3000	1500	2930	1440	6931	3144
	VF/VS330	130.9	3325	83.5	2120	44.2	1122	66.3	1684	5	5	3000	1500	2930	1440	6978	3165
	VF/VS350	138.8	3525	87.4	2220	48.1	1222	70.2	1784	5	5	3000	1500	2930	1440	7011	3180
3-STAGE FULL FREE LIFT	TF/TS370	147.0	3735	69.7	1770	30.4	772	49.6	1260	5	5	3000	1475	2860	1420	7101	3221
	TF/TS400	158.9	4035	73.6	1870	34.3	872	53.5	1360	5	5	2930	1450	2820	1390	7145	3241
	TF/TS430	170.7	4335	77.6	1970	38.3	972	57.5	1460	5	5	2840	1400	2730	1340	7187	3260
	TF/TS450	178.5	4535	81.5	2070	42.2	1072	61.4	1560	5	5	2800	1375	2680	1320	7231	3280
	TF/TS470	186.4	4735	83.5	2120	44.2	1122	63.4	1610	5	5	2750	1350	2640	1300	7253	3290
	TF/TS500	198.2	5035	87.4	2220	48.1	1222	67.3	1710	5	5	2640	1300	2550	1250	7297	3310
	TF/TS550	217.9	5535	95.3	2420	56.0	1422	75.2	1910	5	5	2550	1250	2460	1200	7385	3350
	TF/TS600	237.6	6035	103.1	2620	63.9	1622	83.1	2110	5	5	2420	1175	2310	1130	7524	3413
	TF/TS650	257.3	6535	111.0	2820	71.7	1822	90.9	2310	3	3	1850	900	1760	850	7623	3458
	TF/TS700	277.0	7035	118.9	3020	79.6	2022	98.8	2510	3	3	1340	650	1270	610	7709	3497

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

* Standard

Mast Specification (18BT-9)

Mast Type	Maximum Fork Height		Overall Height (Lowered)		Free lift height				Tilt Angle		Load capacity w/o side shift		Load capacity w/side shift		Truck Weight (Unloaded)		
					With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC			
	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.4	2525	68.1	1729	1.4	35	1.4	35	5	7	3500	1800	3500	1730	7304	3313
	V270	107.3	2725	72.0	1829					5	7	3500	1800	3500	1730	7330	3325
	V300	119.1	3025	77.9	1979					5	7	3500	1800	3500	1730	7374	3345
	*V330	130.9	3325	83.8	2129					5	7	3500	1800	3500	1730	7418	3365
	V350	138.8	3525	87.8	2229					5	7	3500	1800	3500	1730	7447	3378
	V370	146.7	3725	91.7	2329					5	7	3500	1800	3500	1730	7476	3391
	V400	158.5	4025	97.6	2479					5	7	3500	1750	3410	1680	7531	3416
	V450	178.1	4525	111.4	2829					5	5	3460	1700	3350	1640	7679	3483
	V500	197.8	5025	121.2	3079					5	5	3280	1600	3150	1540	7754	3517
	V550	217.5	5525	131.1	3329					5	5	3170	1550	3000	1500	7798	3537
2-STAGE FULL FREE LIFT	VF/VS300	119.1	3025	77.9	1979	38.3	981	60.7	1543	5	5	3500	1800	3500	1730	7460	3384
	VF/VS330	130.9	3325	83.8	2129	44.5	1131	66.7	1693	5	5	3500	1800	3500	1730	7507	3405
	VF/VS350	138.8	3525	87.8	2229	48.5	1231	70.6	1793	5	5	3500	1800	3500	1730	7540	3420
3-STAGE FULL FREE LIFT	TF/TS370	147.0	3735	70.0	1779	30.7	781	50.0	1269	5	5	3500	1750	3410	1680	7630	3461
	TF/TS400	158.9	4035	74.0	1879	34.7	881	53.9	1369	5	5	3460	1700	3320	1630	7674	3481
	TF/TS430	170.7	4335	77.9	1979	38.6	981	57.8	1469	5	5	3370	1650	3260	1590	7716	3500
	TF/TS450	178.5	4535	81.9	2079	42.6	1081	61.8	1569	5	5	3320	1625	3190	1560	7760	3520
	TF/TS470	186.4	4735	83.8	2129	44.5	1131	63.7	1619	5	5	3260	1600	3130	1530	7782	3530
	TF/TS500	198.2	5035	87.8	2229	48.5	1231	67.7	1719	5	5	3170	1550	3060	1490	7826	3550
	TF/TS550	217.9	5535	95.6	2429	56.3	1431	75.6	1919	5	5	2970	1450	2860	1390	7914	3590
	TF/TS600	237.6	6035	103.5	2629	64.2	1631	83.4	2119	5	5	2420	1175	2310	1130	8053	3653
	TF/TS650	257.3	6535	111.4	2829	72.1	1831	91.3	2319	3	3	2180	1050	2090	1010	8153	3698
	TF/TS700	277.0	7035	119.3	3029	80.0	2031	99.2	2519	3	3	1670	800	1580	760	8239	3737

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* Standard

New 9 Series

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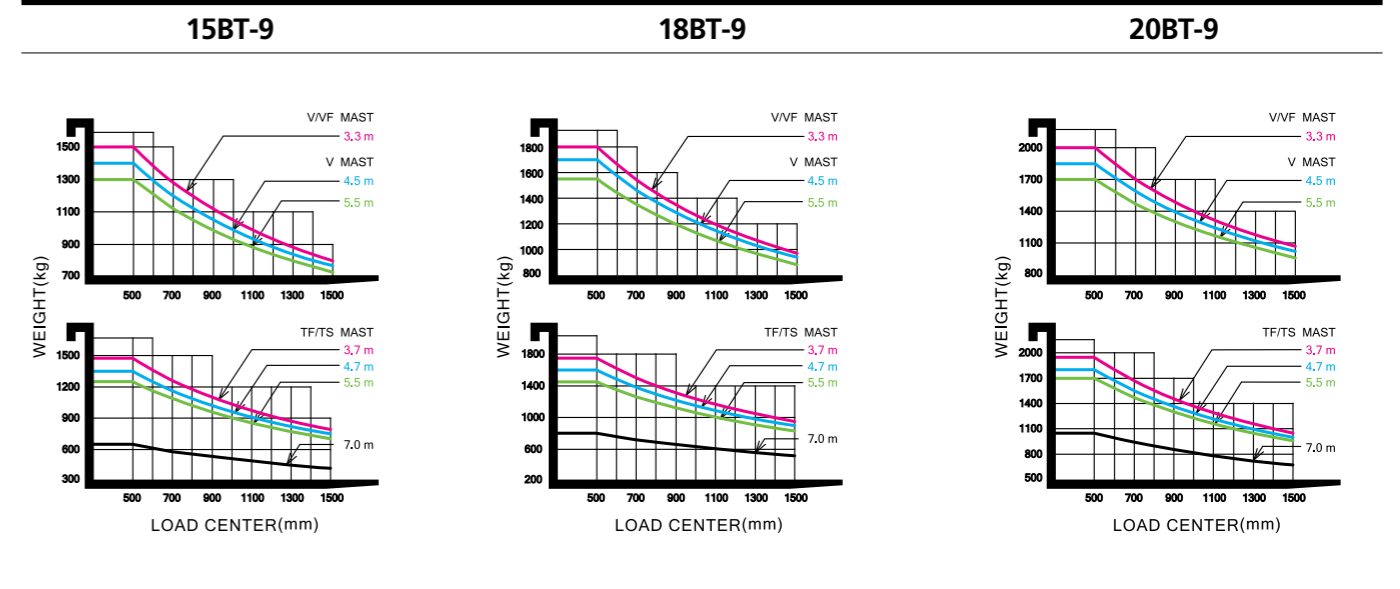
Mast Specification (20BT-9)

Mast Type	Maximum Fork Height		Overall Height (Lowered)		Free lift height				Tilt Angle		Load capacity w/o side shift		Load capacity w/side shift		Truck Weight (Unloaded)		
					With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC			
	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.6	2530	68.1	1729	1.6	40	1.6	40	5	7	4000	2000	3900	1920	7601	3448
	V270	107.5	2730	72.0	1829					5	7	4000	2000	3900	1920	7628	3460
	V300	119.3	3030	77.9	1979					5	7	4000	2000	3900	1920	7672	3480
	*V330	131.1	3330	83.8	2129					5	7	4000	2000	3900	1920	7716	3500
	V350	139.0	3530	87.8	2229					5	7	4000	2000	3900	1920	7745	3513
	V370	146.9	3730	91.7	2329					5	7	4000	2000	3900	1920	7773	3526
	V400	158.7	4030	97.6	2479					5	7	3960	1950	3810	1880	7828	3551
	V450	178.3	4530	111.4	2829					5	5	3770	1850	3630	1780	7976	3618
	V500	198.0	5030	121.2	3079					5	5	3660	1800	3540	1730	8051	3652
V550	217.7	5530	131.1	3329	5	5	3480	1700	3350	1640	8095	3672					
2-STAGE FULL FREE LIFT	VF/VS300	119.3	3030	77.9	1979	38.8	986	60.9	1548	5	5	4000	2000	3900	1920	7758	3519
	VF/VS330	131.1	3330	83.8	2129	44.7	1136	66.9	1698	5	5	4000	2000	3900	1920	7804	3540
	VF/VS350	139.0	3530	87.8	2229	48.7	1236	70.8	1798	5	5	4000	2000	3900	1920	7837	3555
3-STAGE FULL FREE LIFT	TF/TS370	147.2	3740	70.0	1779	30.9	786	50.2	1274	5	5	3960	1950	3830	1880	7928	3596
	TF/TS400	159.1	4040	74.0	1879	34.9	886	54.1	1374	5	5	3880	1900	3720	1830	7972	3616
	TF/TS430	170.9	4340	77.9	1979	38.8	986	58.0	1474	5	5	3770	1850	3660	1790	8014	3635
	TF/TS450	178.7	4540	81.9	2079	42.8	1086	62.0	1574	5	5	3720	1825	3590	1770	8058	3655
	TF/TS470	186.6	4740	83.8	2129	44.7	1136	63.9	1624	5	5	3680	1800	3540	1740	8080	3665
	TF/TS500	198.4	5040	87.8	2229	48.7	1236	67.9	1724	5	5	3570	1750	3460	1690	8124	3685
	TF/TS550	218.1	5540	95.6	2429	56.5	1436	75.7	1924	5	5	3480	1700	3370	1640	8212	3725
	TF/TS600	237.8	6040	103.5	2629	64.4	1636	83.6	2124	5	5	3200	1550	3080	1500	8351	3788
	TF/TS650	257.5	6540	111.4	2829	72.3	1836	91.5	2324	3	3	2690	1300	2570	1250	8450	3833
TF/TS700	277.2	7040	119.3	3029	80.2	2036	99.4	2524	3	3	2180	1050	2110	1010	8536	3872	

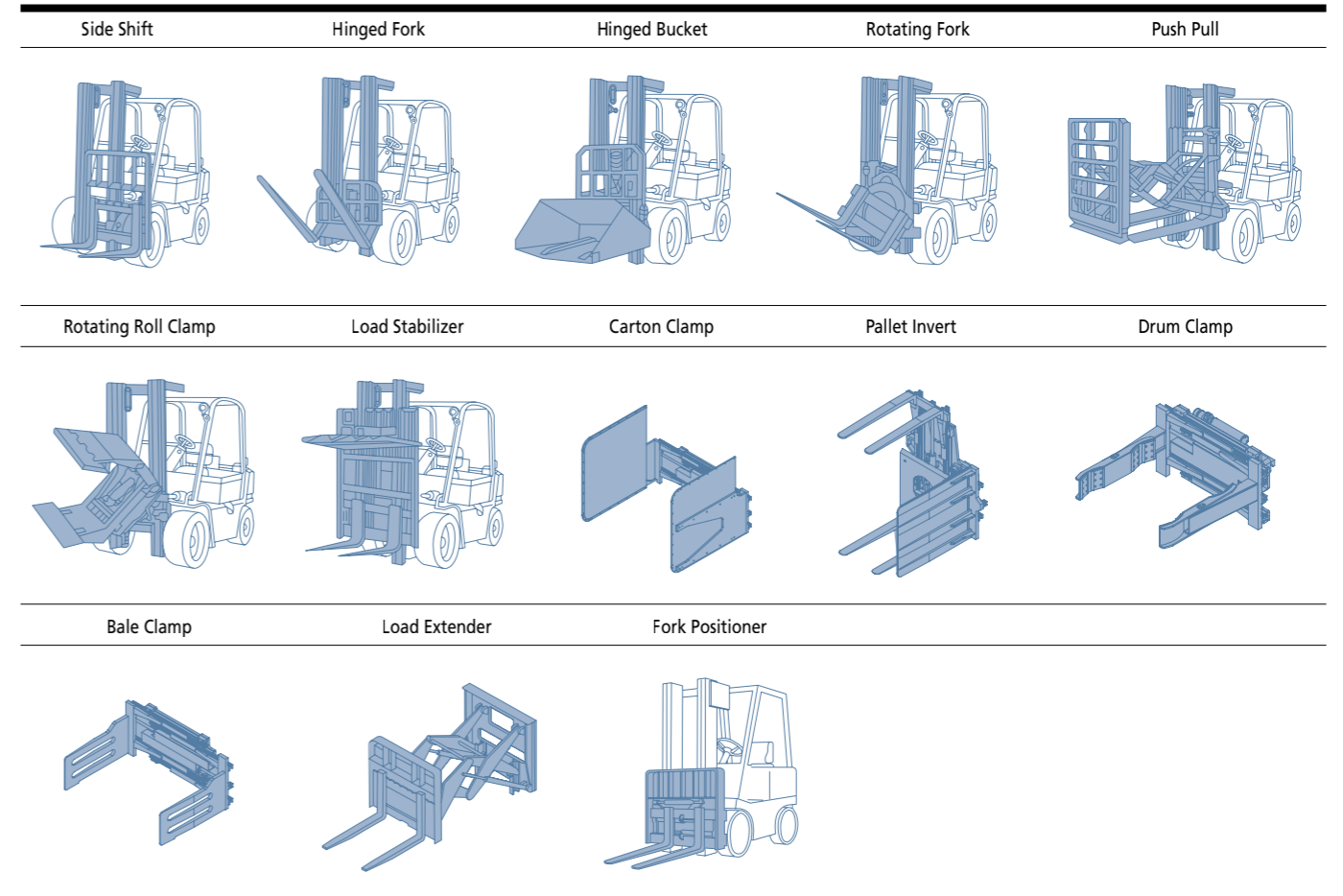
* TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

* Standard

Load Capacity



Various Attachments



New 9 Series

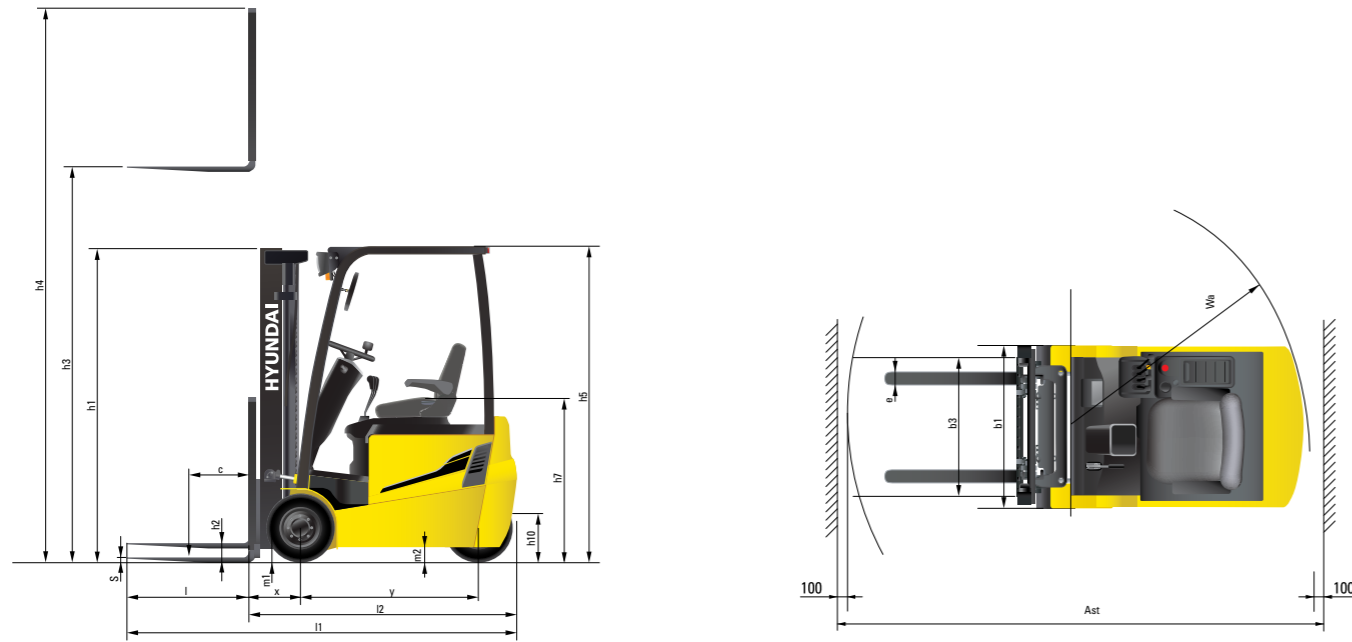
15/18/20BT-9

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**
- **Direction Switch on Lever**
- **Cold Storage (for - 30°C cold working environments)**

- **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**

Dimension



Specification

DISTINGUISHING MARK

Item No.	Description	15BT-9	18BT-9	20BT-9
1.1	MANUFACTURER (ABBREVIATION)	HYUNDAI	HYUNDAI	HYUNDAI
1.2	MANUFACTURER'S TYPE DESIGNATION	15BT-9	18BT-9	20BT-9
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 (lb) 1500 (3000)	1800 (3500)	2000 (4000)
1.6	LOAD CENTER DISTANCE	mm (in) 500 (24)	500 (24)	500 (24)
1.8	LOAD DISTANCE, CENTER OF DRIVE AXLE TO FORK	mm (in) 360 (14.17)	360 (14.17)	365 (14.37)
1.9	WHEELBASE	mm (in) 1335 (52.6)	1420 (55.90)	1420 (55.90)

WEIGHT

Item No.	Description	15BT-9	18BT-9	20BT-9
2.1	SERVICE WEIGHT	kg (lb) 3125 (6889.4)	3365 (7418.55)	3500 (7716.2)
2.2	AXLE LOADING, LOADED FRONT/REAR	kg (lb) 4127 / 498 (9098 / 1098)	4600 / 565 (10141 / 1246)	4900 / 600 (10803 / 1323)
2.3	AXLE LOADING, UNLOADED FRONT/REAR	kg (lb) 1661 / 1464 (3662 / 3228)	1710 / 1655 (3770 / 3649)	1684 / 1816 (3713 / 4004)

TIRES, CHASSIS

Item No.	Description	15BT-9	18BT-9	20BT-9
3.1	TIRES : SOLID RUBBER, SUPERELASTIC, PNEUMATIC, POLYURETHANE	SE	SE	SE
3.2	TIRE SIZE, FRONT	18x7-8	200/50-10	200/50-10
3.3	TIRE SIZE, REAR	15x4.5-8	15x4.5-8	15x4.5-8
3.5	WHEELS, NUMBER FRONT / REAR (X = DRIVEN WHEELS)	2x2	2x2	2x2
3.6	TREAD, FRONT	mm (in) 895 (35.2)	905 (35.6)	905 (35.6)
3.7	TREAD, REAR	mm (in) 170 (6.69)	170 (6.69)	170 (6.69)

DIMENSIONS

Item No.	Description	15BT-9	18BT-9	20BT-9
4.1	TILT OF MAST/FORK CARRIAGE FORWARD/BACKWARD	degree 5 / 7	5 / 7	5 / 7
4.2	HEIGHT, MAST LOWERED	mm (in) 2120 (83.5)	2119 (83.42)	2119 (83.42)
4.3	FREE LIFT	mm (in) 35 (1.37)	35 (1.37)	40 (1.57)
4.4	LIFT HEIGHT	mm (in) 3325 (130.90)	3325 (130.90)	3330 (131.10)
4.5	HEIGHT, MAST EXTENDED	mm (in) 4320 (170.07)	4320 (170.07)	4320 (170.07)
4.7	HEIGHT OF OVERHEAD GUARD (CABIN)	mm (in) 2065 (81.29)	2065 (81.29)	2065 (81.29)
4.8	SEAT HEIGHT / STAND HEIGHT REL. TO SIP	mm (in) 1090 (42.91)	1090 (42.91)	1090 (42.91)
4.12	COUPLING HEIGHT	mm (in) 410 (16.14)	410 (16.14)	410 (16.14)
4.19	OVERALL LENGTH	mm (in) 2785 (109.64)	2785 (113.18)	2910 (114.56)
4.20	LENGTH TO FACE OF FORKS	mm (in) 1885 (74.21)	1975 (77.75)	2010 (79.13)
4.21	OVERALL WIDTH	mm (in) 1074 (42.28)	1105 (43.50)	1105 (43.50)
4.22	FORK DIMENSIONS	mm (in) 35x100x900 (1.4x3.9x35.4)	35x100x900 (1.4x3.9x35.4)	40x100x900 (1.6x4x35.4)
4.23	FORK CARRIAGE ISO 2328, CLASS / TYPE A, B	2A	2A	2A
4.24	FORK-CARRIAGE WIDTH	mm (in) 1006 (39.60)	1006 (39.60)	1006 (39.60)
4.31	GROUND CLEARANCE, BELOW MAST, LOADED	mm (in) 85 (3.34)	94 (3.70)	94 (3.70)
4.32	GROUND CLEARANCE, CENTER OF WHEELBASE	mm (in) 90 (3.54)	90 (3.54)	100 (3.93)
4.33	AISLE WIDTH FOR PALLETS 1000 X 1200 CROSSWAYS (L X W)	mm (in) 3226 (127.00)	3316 (130.55)	3351 (131.92)
4.34	AISLE WIDTH OF PALLETS 800 X 1200 CROSSWAYS (W X L)	mm (in) 3350 (131.88)	3440 (135.43)	3475 (136.81)
4.35	TURNING RADIUS	mm (in) 1540 (60.62)	1630 (64.17)	1660 (65.35)
4.36	SMALLEST PIVOT POINT DISTANCE	mm (in) -	-	-

PERFORMANCE DATA

Item No.	Description	15BT-9	18BT-9	20BT-9
5.1	TRAVEL SPEED, LOADED / UNLOADED	km/h (mph) 16 / 17 (9.9 / 10.6)	16 / 17 (9.9 / 10.6)	16 / 17 (9.9 / 10.6)
5.2	LIFT SPEED, LOADED / UNLOADED	mm/s (ft/min) 410 / 600 (80.7 / 118)	410 / 600 (80.7 / 118)	410 / 600 (80.7 / 118)
5.3	LOWERING SPEED, LOADED / UNLOADED	mm/s (ft/min) 500 / 450 (98.4 / 88.6)	500 / 450 (98.4 / 88.6)	500 / 450 (98.4 / 88.6)
5.5	DRAWBAR PULL, LOADED / UNLOADED	N (lb) -	-	-
5.6	MAX. DRAWBAR PULL, LOADED / UNLOADED	N (lb) 15102 / 14759 (3395 / 3318)	15190 / 14710 (3415 / 3306)	15190 / 14710 (3415 / 3306)
5.7	GRADEABILITY, LOADED / UNLOADED	% -	-	-
5.8	MAX. GRADEABILITY, LOADED / UNLOADED	% 29.5/-	27.5/-	24.5/-
5.9	ACCELERATION TIME, LOADED / UNLOADED	s -	-	-
5.10	SERVICE BRAKE	hydr.	hydr.	hydr.

ELECTRIC-MOTOR

Item No.	Description	15BT-9	18BT-9	20BT-9
6.1	DRIVE MOTOR RATING S2 60 MIN	kW 4.7x2 (6.3x2)	4.7x2 (6.3x2)	4.7x2 (6.3x2)
6.2	LIFT MOTOR RATING AT S3 15%	kW 14 (17.8)	14 (17.8)	14 (17.8)
6.3	BATTERY ACC. TO DIN 43531/35/36 A, B, C, NO	-	-	-
6.4	BATTERY VOLTAGE, NOMINAL CAPACITY K5	V/Ah 48 / 510	48 / 585	48 / 585
6.5	BATTERY WEIGHT	kg (lb) 780 (1720)	950 (2094.4)	950 (2094.4)
6.6	ENERGY CONSUMPTION ACC. TO VDI CYCLE	kWh/h -	-	-
6.7	BATTERY COMPARTMENT DIMENSIONS L/W/H	mm (in) 983 / 552 / 650 (38.7 / 21.7 / 25.6)	983 / 638 / 700 (38.7 / 25.1 / 27.6)	983 / 638 / 700 (38.7 / 25.1 / 27.6)

ADDITION DATA

Item No.	Description	15BT-9	18BT-9	20BT-9
8.1	TYPE OF DRIVE CONTROL	AC	AC	AC
8.2	OPERATING PRESSURE, SYSTEM / ATTACHMENTS	mm (in) 190 / 130 (2755 / 1885)	190 / 130 (2755 / 1885)	190 / 130 (2755 / 1885)
8.3	OIL VOLUME FOR ATTACHMENTS	LPM 20	20	20
8.4	SOUND LEVEL AT THE DRIVER'S EAR ACCORDING TO DIN 12053	dB (A) -	-	-
8.5	TRAILER COUPLING, TYPE DIN	-	-	-