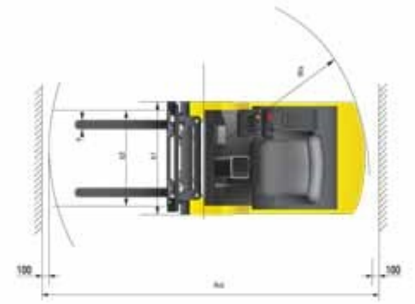
Dimension



Specification

Identification					
1. 1	Manufacturer		HYUNDAI		
1. 2	Manufacturer's type designation		10BTR-9	13BTR-9	15BTR-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	1,000	1,250	1,500
1. 6	Load center distance	c mm	500	500	500
1. 8	Load distance, center of drive axle to fork	x mm	330	330	330
1. 9	Wheelbase	y mm	1,065	1,165	1,220
Weights					
2. 1	Service weight	kg	2,405	2,630	2,840
2. 2	Axle loading, loaded front / rear	kg	2,895 / 510	3,340 / 540	3,775 / 565
2. 3	Axle loading , unloaded front / rear	kg	1,116 / 1,289	1,200 / 1,430	1,254 / 1,586
Wheels, Chassis					
3. 1	Tire : solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE)		SE	SE	SE
3. 2	Tires size, front(Φ x width)		18 x 7-8	18 x 7-8	18 x 7-8
3. 3	Tires size, rear(Φ x width)		18 x 7-8	18 x 7-8	18 x 7-8
3. 5	Wheels, number front rear(x = driven wheels)		2 / 1x	2 / 1x	2 / 1x
3. 6	Track width, front	mm	835	835	835
3. 7	Track width, rear	mm	-	-	-
Basic Dimensions					
4. 1	Mast / fork carriage tilt forward / backward	degrees	5 / 6	5 / 6	5 / 6
4. 2	Lowered mast height	h1 mm	1,970	1,970	1,970
4. 3	Free lift height	h2 mm	35	35	35
4. 4	Lift height	h3 mm	3,025	3,025	3,025
4. 5	Extended mast height	h4 mm	4,024	4,024	4,024
4. 7	Overhead guard (cab) height	h5 mm	2,020	2,020	2,020
4. 8	Seat height / Standing height	h7 mm	927	927	927
4. 12	Coupling height	h10 mm	325	325	325
4. 19	Overall length	l1 mm	2,565	2,655	2,710
4. 20	Length to face of forks	l2 mm	1,655	1,750	1,810
4. 21	Overall width	b1 mm	990	990	990
4. 22	Fork dimensions	s / e / l mm	35 x 80 x 800	35 x 80 x 800	35 x 80 x 800
4. 23	Fork carriage ISO 2328, class / type A, B		II	II	II
4. 24	Fork - carriage width	b3 mm	950	950	950
4. 31	Ground clearance, loaded, under mast	m1 mm	85	85	85
4. 32	Ground clearance, centre of wheelbase	m2 mm	90	90	90
4. 33	Aisle width for pallets 1,000 x 1,200 crossways	Ast mm	2,994	3,084	3,139
4. 34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	3,116	3,206	3,261
4. 35	Turning radius	Wa mm	1,335	1,425	1,480
4. 36	Smallest pivot point distance	mm	-	-	-
Performance Data					
5. 1	Travel speed, loaded / unloaded (24V)	km/h	12.5 / 13	12.5 / 13	12.5 / 13
5. 2	Lift speed, loaded / unloaded (24V)	mm/s	310 / 530	300 / 530	290 / 530
5. 3	Lowering speed, loaded / unloaded	mm/s	500 / 450	500 / 450	500 / 450
5. 6	Max. drawbar pull, loaded / unloaded S2 5 min	N	642 / 690	631 / 685	620 / 683
5. 8	Max. gradient performance, loaded / unloaded S2 5 min	%	18 / 25	15 / 24	13 / 23
5. 9	Acceleration time, loaded / unloaded	S	-	-	-
5. 10	Service brake		Hydraulic	Hydraulic	Hydraulic
E - Motor					
6. 1	Drive motor rating S2 60 min (24V)	kW	4.3	4.3	4.3
6. 2	Pump motor rating at S3 - 15 % (24V)	kW	9.0	9.0	9.0
6. 4	Battery voltage, nominal capacity K5 (24V)	V/Ah	24 / 625	24 / 750	24 / 750
6. 5	Battery weight	kg	450	600	690
	Battery compartment dimensions L / W /H	mm	830 / 328 / 627	830 / 436 / 627	830 / 490 / 627
Other Details					
8. 1	Type of drive control		AC	AC	AC

HYUNDAI | FORKLIFT
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www.hyundai-ce.com 2013. 07 Rev. 0

10/13/15BTR-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 with rear wheel drive provide every operator comfortable driving, increased productivity and easy maintenance.

Compact forklift with proven AC technology

- Maximum performance
- Spacious operator's cab
- Fingertip controlled mini levers available (optional)
- Weight indicator (optional)
- Safety system that prevents over loading (optional)
- Battery side loading system available
- Wet brakes standard

reddot design award
honourable mention 2012

■ 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.

10/13/15BTR-9

More efficient operating control levers

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

■ Some of the photos may include optional equipment.

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 ZF transmission converts the drive engine's power to any direction the driver requires.

Curve control

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

■ Some of the photos may include optional equipment.

Designed for compact aisle width and turning radius

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

Travel Speed (MAX)

Model	Km / h
10BTR-9	13
13BTR-9	13
15BTR-9	13

Gradeability (MAX)

Model	%
10BTR-9	18
13BTR-9	15
15BTR-9	13

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.

■ 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.

Strong overhead guard

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

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.

Safety lamps & rear reflectors

Halogen headlights and rear LED combination lights 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.

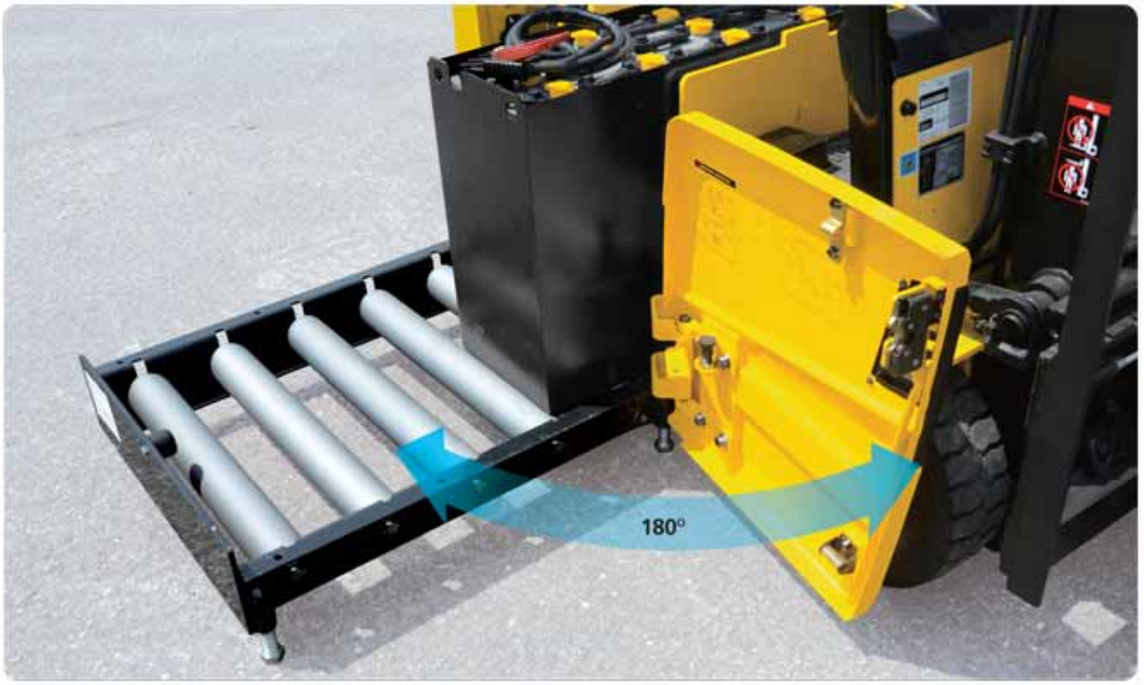
■ Some of the photos may include optional equipment.

Spacious operator cabin

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

Grammer seat (Option)

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



■ 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.

Low entrance height

In order to get in and out of the cabine 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.

Optimized pedal position and floor mat

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

Advanced LCD Monitor

The LCD monitor with 3.2 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.
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 (10/13BTR-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							
		10/13BTR-9	10/13BTR-9	10/13BTR-9	10/13BTR-9	10/13BTR-9	10BTR-9	13BTR-9	10BTR-9	13BTR-9	10BTR-9	13BTR-9
2- Stage Limited free lift	* V300	3025	1970	35	35	5 / 6	1000	1250	900	1150	2413	2632
	V330	3325	2120	35	35	5 / 6	1000	1250	900	1150	2432	2651
	V350	3525	2220	35	35	5 / 6	1000	1250	900	1150	2445	2664
	V370	3725	2320	35	35	5 / 6	1000	1250	900	1150	2458	2677
	V400	4025	2470	35	35	5 / 6	1000	1250	900	1150	2481	2700
	V500	5025	3070	35	35	5 / 6	975	1200	875	1100	2588	2807
2- Stage full free lift	VF300	3025	1970	972	1460	5 / 5	1000	1250	900	1150	2437	2656
	VF330	3325	2120	1122	1610	5 / 5	1000	1250	900	1150	2458	2677
	VF350	3525	2220	1222	1710	5 / 5	1000	1250	900	1150	2473	2692
3 - Stage full free lift	TF400/TS400	4035	1870	863	1364	5 / 5	1000	1250	900	1150	2532	2751
	TF430/TS430	4335	1970	963	1464	5 / 5	1000	1225	900	1125	2551	2770
	TF450/TS450	4535	2070	1063	1564	5 / 5	975	1200	900	1100	2570	2789
	TF470/TS470	4735	2120	1113	1614	5 / 5	950	1175	875	1075	2580	2799
	TF500/TS500	5035	2220	1216	1714	5 / 5	925	1150	850	1050	2599	2818
	TF550/TS550	5535	2420	1416	1914	5 / 5	900	1100	825	1025	2637	2856
	TF600/TS600	6035	2620	1613	2114	5 / 5	850	1050	775	975	2693	2912

Mast Specification (15BTR-9)

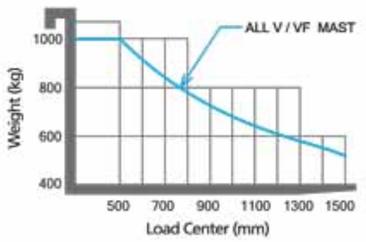
Mast Type		Maximum Fork Height (mm)	Overall Height (Lowered) (mm)	Free Lift Height (mm)		Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (500mm LC)(kg)	Load Capacity with side shift at (500mm LC)(kg)	Truck Weight (Unloaded) (kg)
				With Load Backrest	Without Load Backrest				
		15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9
2- Stage Limited free lift	* V300	3025	1970	35	35	5 / 6	1500	1375	2841
	V330	3325	2120	35	35	5 / 6	1500	1375	2860
	V350	3525	2220	35	35	5 / 6	1500	1375	2873
	V370	3725	2320	35	35	5 / 6	1500	1375	2886
	V400	4025	2470	35	35	5 / 6	1500	1375	2909
	V500	5025	3070	35	35	5 / 6	1425	1300	3016
2- Stage full free lift	VF300	3025	1970	972	1460	5 / 5	1500	1375	2865
	VF330	3325	2120	1122	1610	5 / 5	1500	1375	2886
	VF350	3525	2220	1222	1710	5 / 5	1500	1375	2901
3 - Stage full free lift	TF400/TS400	4035	1870	863	1364	5 / 5	1500	1375	2960
	TF430/TS430	4335	1970	963	1464	5 / 5	1450	1325	2979
	TF450/TS450	4535	2070	1063	1564	5 / 5	1425	1300	2998
	TF470/TS470	4735	2120	1113	1614	5 / 5	1400	1275	3008
	TF500/TS500	5035	2220	1216	1714	5 / 5	1375	1250	3027
	TF550/TS550	5535	2420	1416	1914	5 / 5	1325	1200	3065
	TF600/TS600	6035	2620	1613	2114	5 / 5	1250	1150	3121

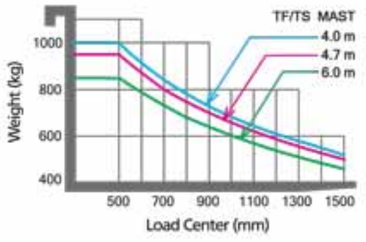
※ TS-Mast : Wide Visible 3-Stage Full Free Lift Mast with 2 Free Lift Cylinders.

* Standard

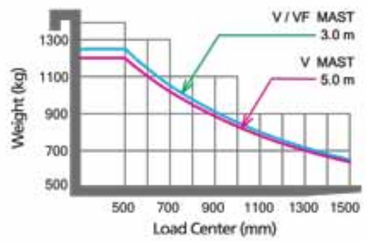
Load Capacity

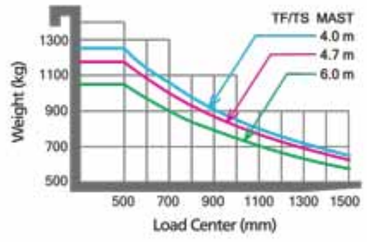
10BTR-9



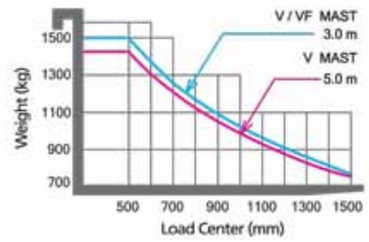


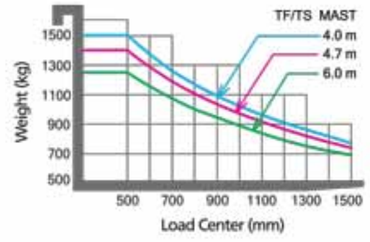
13BTR-9



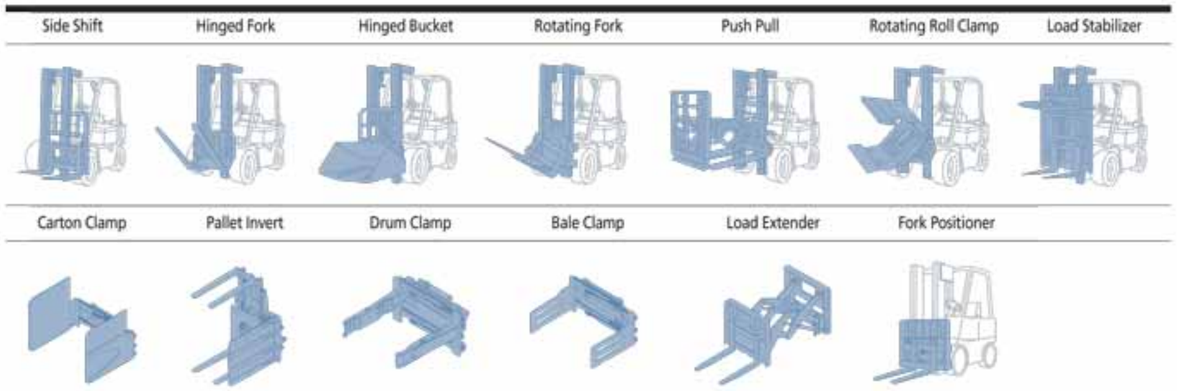


15BTR-9





Various Attachments



Optional Items

- **Mast**
  V330, V350, V370, V400, V500, VF300, VF330, VF350
  TF/TS400, TF/TS430, TF/TS450, TF/TS470, TF/TS500, TF/TS550, TF/TS600
- **Fork(mm)**
  800 / 900 / 1,050 / 1,200 / 1,350 / 1,500
- **Overshoe(mm)**
  1,300 / 1,500 / 1,700
- **Sideshift**
- **Integral Sideshift**
- **Tilting :** 5° / 6°, 5° / 5°
- **Tire :** Non-marking
- **Seat :** Pocket, Arm Rest, Hip Rest(Grammer), Heating
- **Finger Tip Control**
- **Cold Storage**
- **M.C.V :** 4-Spool
- **Attach Piping :** 3 Spool-piping, 4 Spool-piping
- **Beacon Lamp**
- **Load Indicator**
- **Work Lamp**
- **OPSS :** Travel + Mast
- **Side Loading Battery**