

Electric Counterbalance Trucks

HYUNDAI HEAVY INDUSTRIES

MOVING YOU FURTHER





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





High Efficiency & **Optimal Performance**



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



Some of the photos may include optional equipment.



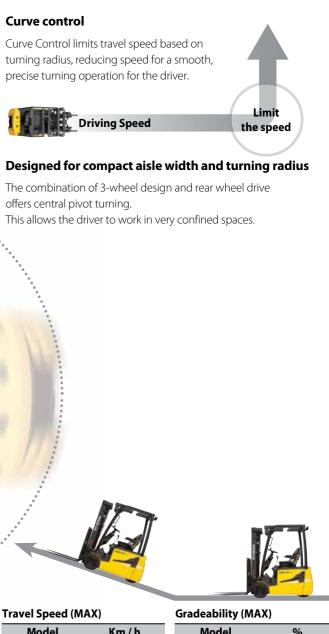


Advanced drive and lift performance with proven durability and low maintenance

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.



10/13/15BTR-9



I ravel Speed (M	AX)	Gradeability (MA	X)
Model	Km/h	Model	%
10BTR-9	13	10BTR-9	18
13BTR-9	13	13BTR-9	15
15BTR-9	13	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.



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





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.



Fork safety features

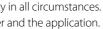
When the forks are being lowered, a down-control valve maintains the controlled speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.

OPSS(Operator Presence Sensing System)

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

■ Some of the photos may include optional equipment.







Optimised Ergonomics & Fast and Easy Maintenance



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



Spacious operator cabin The BTR 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.

Grammer seat (Option)

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





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 The position of accelerator and column can easily be adjusted through a lever on the right-hand through human engineering. side of the steering column.

Optimized pedal position

and floor mat

throttle have been optimized



Easy battery replacement

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





10/13/15BTR-9

■ Some of the photos may include optional equipment.

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)

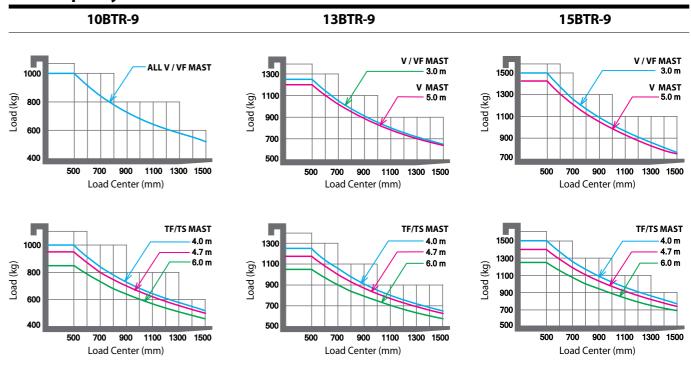
Mast Type		Fork Height (Lower	Overall Height	ricigite	leight (mm)	Tilt Angle (deg) Fwd / Bwd	Load Capacity without side shift at (500mm LC) (kg)		Load Capacity with side shift at (500mm LC) (kg)		Truck Weight (Unloaded) (kg)	
			(Lowered) (mm)	With Load Backrest	Without Load Backrest							
		10/13BTR-9	10/13BTR-9	10/13BTR-9	10/13BTR-9	10/13BTR-9	10BTR-9	13BTR-9	10BTR-9	13BTR-9	10BTR-9	13BTR-9
	* V300	3,025	1,970	35	35	5/6	1,000	1,250	900	1,150	2,413	2,632
	V330	3,325	2,120	35	35	5/6	1,000	1,250	900	1,150	2,432	2,651
2- Stage	V350	3,525	2,220	35	35	5/6	1,000	1,250	900	1,150	2,445	2,664
Limited free lift	V370	3,725	2,320	35	35	5/6	1,000	1,250	900	1,150	2,458	2,677
	V400	4,025	2,470	35	35	5/6	1,000	1,250	900	1,150	2,481	2,700
	V500	5,025	3,070	35	35	5/6	975	1,200	875	1,100	2,588	2,807
2- Stage	VF300	3,025	1,970	972	1,460	5/5	1,000	1,250	900	1,150	2,437	2,656
full	VF330	3,325	2,120	1,122	1,610	5/5	1,000	1,250	900	1,150	2,458	2,677
free lift	VF350	3,525	2,220	1,222	1,710	5/5	1,000	1,250	900	1,150	2,473	2,692
	TF400/TS400	4,035	1,870	863	1,364	5/5	1,000	1,250	900	1,150	2,532	2,751
3 - Stage full free lift	TF430/TS430	4,335	1,970	963	1,464	5/5	1,000	1,225	900	1,125	2,551	2,770
	TF450/TS450	4,535	2,070	1,063	1,564	5/5	975	1,200	900	1,100	2,570	2,789
	TF470/TS470	4,735	2,120	1,113	1,614	5/5	950	1,175	875	1,075	2,580	2,799
	TF500/TS500	5,035	2,220	1,216	1,714	5/5	925	1,150	850	1,050	2,599	2,818
	TF550/TS550	5,535	2,420	1,416	1,914	5/5	900	1,100	825	1,025	2,637	2,856
	TF600/TS600	6,035	2,620	1,613	2,114	5/5	850	1,050	775	975	2,693	2,912

Mast Specification (15BTR-9)

Mast Type		Maximum	Overall Height (Lowered) (mm)	Free Lift Height (mm)		Tilt Angle (deg)	Load Capacity without side shift	Load Capacity with side shift	Truck Weight
		Fork Height (mm)		With Load Backrest	Without Load Backrest	Fwd / Bwd	at (500mm LC) (kg)	at (500mm LC) (kg)	(Unloaded) (kg)
		15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9	15BTR-9
	* V300	3,025	1,970	35	35	5/6	1,500	1,375	2,841
	V330	3,325	2,120	35	35	5/6	1,500	1,375	2,860
2- Stage	V350	3,525	2,220	35	35	5/6	1,500	1,375	2,873
Limited free lift	V370	3,725	2,320	35	35	5/6	1,500	1,375	2,886
	V400	4,025	2,470	35	35	5/6	1,500	1,375	2,909
	V500	5,025	3,070	35	35	5/6	1,425	1,300	3,016
2- Stage	VF300	3,025	1,970	972	1,460	5/5	1,500	1,375	2,865
full	VF330	3,325	2,120	1,122	1,610	5/5	1,500	1,375	2,886
free lift	VF350	3,525	2,220	1,222	1,710	5/5	1,500	1,375	2,901
	TF400/TS400	4,035	1,870	863	1,364	5/5	1,500	1,375	2,960
	TF430/TS430	4,335	1,970	963	1,464	5/5	1,450	1,325	2,979
3 - Stage full free lift	TF450/TS450	4,535	2,070	1,063	1,564	5/5	1,425	1,300	2,998
	TF470/TS470	4,735	2,120	1,113	1,614	5/5	1,400	1,275	3,008
	TF500/TS500	5,035	2,220	1,216	1,714	5/5	1,375	1,250	3,027
	TF550/TS550	5,535	2,420	1,416	1,914	5/5	1,325	1,200	3,065
	TF600/TS600	6,035	2,620	1,613	2,114	5/5	1,250	1,150	3,121

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

Load Capacity



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)

800/900/1050/1200/1350/1500

Overshoe (mm)

1300/1500/1700

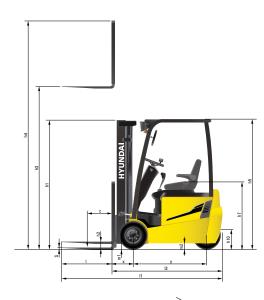
Sideshift

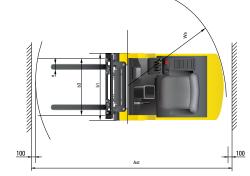
* Standard

10/13/15BTR-9

- Integral Sideshift
- Tilting : 5° / 6°, 5° / 5°
- Tire : Non-marking
- Finger Tip Control
- Beacon Lamp
- Load Indicator
- Work Lamp

Dimension





Specificati	ion
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Identi	fication				
1.1	Manufacturer			Hyundai	
1.2	Туре		10BTR-9	13BTR-9	15BTR-9
1.3	Drive: Electric, Diesel, LPG Gas		Electric	Electric	Electric
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.5	Load capacity (standard)	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 forks	x (mm)	330	330	330
1.9	Wheelbase	y (mm)	1,065	1,165	1,220
Weigh	its				
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
Whee	ls, chassis				
3.1	Tires : solid rubber (V), superelastic (SE), pneumatic (P), polyurethan	e (PE)	SE	SE	SE
3.2	Tires size, front (Ø x width)		18 x 7-8	18 x 7-8	18 x 7-8
3.3	Tires size, rear (Ø 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	b10 (mm)	835	835	835
3.7	Track width, rear	b11 (mm)	-	-	-
	dimensions				
4.1	Mast / fork carriage tilt forward / backward	degrees	5/6	5/6	5/6
4.2	Lowered mast height (standard)	h1 (mm)	1,970	1,970	1,970
4.3	Free lift	h2 (mm)	35	35	35
4.4	Lift height (standard)	h3 (mm)	3,025	3,025	3,025
4.5	Extended mast height (standard)	h4 (mm)	4,024	4,024	4,024
4.7	Overhead load 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	110 (mm)	2,565	2,655	2,710
4.19	Length to face of forks	l2 (mm)	1,655	1,750	1,810
4.20	Overall width		990	990	990
4.21		b1 (mm)	990 35 x 80 x 800	990 35 x 80 x 800	35 x 80 x 800
4.22	Fork dimensions (hook type) LxWxT Fork carriage ISO 2328, class / type A,B	s/e/l(mm)	33,80,800	33 x 80 x 800	
4.23	Fork carriage width	b3 (mm)	950	950	950
4.31	Ť		85	85	85
4.31	Ground clearance, loaded, under mast	m1 (mm)	90	85 90	90
4.32	Ground clearance, centre of wheelbase	m2 (mm) Ast (mm)	2,994	3,084	3,139
	Aisle width for pallets 1000 x 1200 crossways (L x W)		-		
4.34	Aisle width for pallets 800 x 1200 lengthways (W x L)	Ast (mm)	3,116	3,206 1,425	3,261
	Turning radius	Wa (mm)	1,335	-	1,400
4.36	Smallest pivot point distance mance data	(mm)	-	-	-
-		lure (h	125/12	125/12	125/12
5.1 5.2	Travel speed, unloaded Lift speed, loaded / unloaded	km/h mm/s	12.5/13	12.5/13	12.5/13
		mm/s	310/530	300/530	290/530
5.3	Lowering speed, loaded / unloaded		500/450	500/450	500/450
5.6	Drawbar pull, loaded	N	642/690	631/685	620/683
5.8	Gradient performance, loaded / unloaded	%	18/25	15/24	13/23
5.9	Acceleration time, loaded/unloaded (10m)	S	-	-	-
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
E - Mo					
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
<u></u>	Battery compartment dimensions L/W/H	mm	830/328/627	830/436/627	830/490/627
	details				
8.1	Type of drive control		AC	AC	AC

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.
* The photos may include attachments and optional equipment that are not available in your area.
* Materials and specifications are subject to change without advance notice.
* All imperial measurements rounded off to the nearest pound or inch.

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