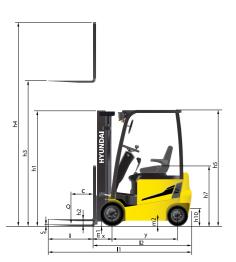
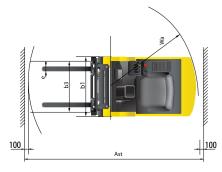
#### **Dimension**





#### **Specification**

Ident	ification				
1.1	Manufacturer			HYUNDAI	
1.2	Manufacturer's type designation		16B-9	18B-9	20B-9
1.3	Drive : electric (battery or mains), diesel, petrol, fuel g	as, 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	1,600	1,800	2,000
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of front axle to fo	rk xmm	360	360	365
1.9	Wheelbase	y mm	1,355	1,440	1,440
Weig	hts				
2. 1	Service weight(including battery)	kg	3,150	3,275	3,480
2. 2	Axle loading, loaded front / rear	kg	4,200 / 550	4,478 / 597	4,850 / 630
2. 3	Axle loading , unloaded front / rear	kg	1,585 / 1,565	1,603 / 1,672	1,650 / 1,830
Whee	els, Chassis				
3. 1	Tires : solid rubber(V), superelastic(SE), pneumatic(P), poly	urethane(PE)	SE	SE	SE
3. 2	Tires size, front( $\phi$ x width)		18x7-8	200 / 50-10	200 / 50-10
3. 3	Tires size, rear( $\Phi x$ width)		16x6-8	16x6-8	16x6-8
3. 5	Wheels, number front rear(x = driven	wheels)	2x / 2	2x/2	2x/2
3. 6	Track width, front	mm	895	905	905
3. 7	Track width, rear	mm	880	880	880
Basic	Dimensions				
4.1	Mast / fork carriage tilt forward / backward	degrees	5/7	5/7	5/7
4.2	Lowered mast height	h1 mm	2,120	2,129	2,129
4.3	Free lift height	h2 mm	35	35	40
4.4	Lift height	h3 mm	3,325	3,325	3,330
4.5	Extended mast height	h4 mm	4,320	4,320	4,320
4.7	Overhead guard (cab) height	h5 mm	2,065	2,065	2,065
4.8	Seat height / Standing height	h7 mm	982	982	982
4.12	Coupling height	h10 mm	250	250	250
4.19	Overall length	l1 mm	2,935	3,020	3,030
4.20	Length to face of forks	l2 mm	2,035	2,120	2,130
4.21	Overall width	b1 mm	1,074	1,105	1,105
4.22	Fork dimensions	/e/smm	900x100x35	900x100x35	900x100x40
4.23	Fork carriage ISO 2328, class / type A,		2A	2A	2A
4.24	Fork - carriage width	b3 mm	1006	1006	1006
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	3,352	3,427	3,447
4.34	Aisle width for pallets 800 x 1,200 lengthways	Ast mm	3,495	3,575	3,595
4.35		Wa mm	1,710	1,795	1,810
4.36	Smallest pivot point distance	mm	-	-	-
	rmance Data	1 4	46 147	46 147	46 147
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 Emin %	15,102 / 14,759	15,190 / 14,710	14,367 / 14,043
5.8	Max. gradient performance, loaded / unloaded S2	25min %	29.5	27.5	24.5
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
E - M		1382	4.7:-3	4.72	4.7:-3
6.1	Drive motor rating \$2.60 min	kW	4.7x2	4.7x2	4.7x2
6.2	Pump motor rating at S3 - 15 %	kW V/Ab	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  Battery dimensions L / W /H	kg mm	850 978 / 545 / 636	1,030	1,030
0:1	,	mm	978 / 545 / 636	978 / 630 / 636	978 / 630 / 636
	r Details				
8.1	Type of drive control		AC	AC	AC

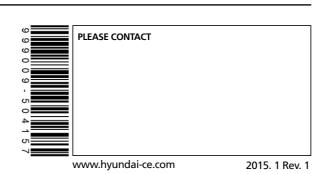
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**Electric Counterbalance Trucks** 

**MOVING YOU FURTHER** 





# Your satisfaction is our priority!

Hyundai introduces a new line of **9-series** battery forklift trucks.

The newly designed 4 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**



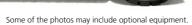
Efficient, smooth running and compact design provide you with enhanced performance and highest productivity.

*16/18/208-9* 



#### 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.

#### **Curve control**

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



Driving Speed

Limit the

#### Designed for compact aisle width and turning radius

Using a dual drive system will minimise aisle width and energy consumption. Plus, the drive units and AC motors intergrated in the front axle provide the operator with extremely improved gradient capacity.



#### 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.



Gradeability (MAX)



Model	%	Model	km /	
16B-9	29.5	16B-9	17	
18B-9	27.5	18B-9	17	
200.0	245	200.0	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.

**04** HYUNDAI **FORKLIFT HYUNDAI FORKLIFT 05** 

## Advanced **Safety**



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

*16/18/208-9* 



**Excellent visibility for safe operation** 

Optimized lift cylinder arrangement provides operator with wider visibility.

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.





Fork safety features









#### **Panoramic mirror**

The panoramic mirror expands the driver's view when backing up.

#### Strong overhead guard

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

06 HYUNDAI FORKLIFT HYUNDAI FORKLIFT 07

## Optimised Ergonomics & Fast and Easy Maintenance



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

*16/18/208-9* 



**Spacious operator cabin** 

Some of the photos may include optional equipment.

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



### 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**

Some of the photos may include optional equipment.

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 variousperformance modes to meet all working conditions. It is available multi-languases (maximum 11) for operator.

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



#### 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.

08 HYUNDAI FORKLIFT 09

#### *16/18/208-9*

#### Mast Specification (16/18B-9)

Mast Type		Maximum Fork Height (mm)	Overall Height (Lowered) (mm)		Free Lift Height (mm)			Tilt Angle (deg)	Load Capacity		Load Capacity with		Truck Weight		
					With Load Backrest With		Without Loa	ad Backrest	Frank / Prank	without side shift at (500mm LC)(kg)		side shift at (500mm LC)(kg)		(Unloaded) (kg)	
		16/18B-9	16B-9	18B-9	16B-9	18B-9	16B-9	18B-9	16/18B-9	16B-9	18B-9	16B-9	18B-9	16B-9	18B-9
	V250	2,525	1,720	1,729	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,080	3,228
	V270	2,725	1,820	1,829	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,092	3,240
	V300	3,025	1,970	1,979	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,112	3,260
	* V330	3,325	2,120	2,129	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,132	3,280
2- Stage	V350	3,525	2,220	2,229	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,145	3,293
Limited free lift	V370	3,725	2,320	2,329	35	35	35	35	5/7	1,600	1,800	1,530	1,730	3,158	3,306
iice iiic	V400	4,025	2,470	2,479	35	35	35	35	5/7	1,550	1,800	1,490	1,730	3,183	3,330
	V450	4,525	2,820	2,829	35	35	35	35	5/5	1,500	1,750	1,440	1,680	3,250	3,398
	V500	5,025	3,070	3,079	35	35	35	35	5/5	1,400	1,650	1,340	1,590	3,284	3,431
	V550	5,525	3,320	3,329	35	35	35	35	5/5	1,350	1,600	1,300	1,540	3,304	3,451
2- Stage	VF300	3,025	1,970	1,979	972	981	1534	1543	5/5	1,600	1,800	1,530	1,730	3,151	3,298
full	VF330	3,325	2,120	2,129	1122	1131	1684	1693	5/5	1,600	1,800	1,530	1,730	3,172	3,320
free lift	VF350	3,525	2,220	2,229	1222	1231	1784	1793	5/5	1,600	1,800	1,530	1,730	3,187	3,335
	TF/TS370	3,735	1,770	1,779	772	781	1260	1269	5/5	1,550	1,800	1,490	1,730	3,228	3,375
	TF/TS400	4,035	1,870	1,879	872	881	1360	1369	5/5	1,500	1,750	1,440	1,690	3,248	3,395
	TF/TS430	4,335	1,970	1,979	972	981	1460	1469	5/5	1,475	1,725	1,420	1,660	3,267	3,415
	TF/TS450	4,535	2,070	2,079	1072	1081	1560	1569	5/5	1,450	1,700	1,390	1,640	3,287	3,434
3 - Stage full	TF/TS470	4,735	2,120	2,129	1122	1131	1610	1619	5/5	1,425	1,650	1,370	1,590	3,297	3,445
free lift	TF/TS500	5,035	2,220	2,229	1222	1231	1710	1719	5/5	1,400	1,600	1,340	1,540	3,317	3,465
	TF/TS550	5,535	2,420	2,429	1422	1431	1910	1919	5/5	1,325	1,500	1,300	1,450	3,357	3,504
	TF/TS600	6,035	2,620	2,629	1622	1631	2110	2119	5/5	1,250	1,350	1,200	1,300	3,420	3,568
	TF/TS650	6,535	2,820	2,829	1822	1831	2310	2319	5/5	1,050	1,300	1,000	1,250	3,465	3,613
	TF/TS700	7,035	3,020	3,029	2022	2031	2510	2519	5/5	900	1,050	860	1,010	3,504	3,651

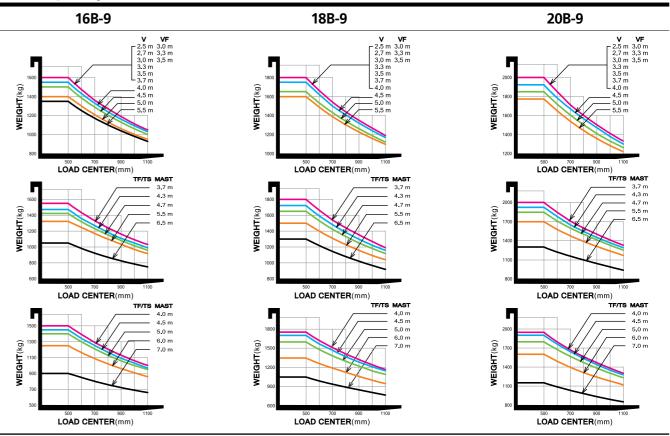
#### **Mast Specification (20B-9)**

Mast Type		Maximum Overall Height		Free Lift H	eight (mm)	Tilt Angle (deg)	Load Capacity	Load Capacity with	Truck Weight	
		Fork Height (mm)	(Lowered) (mm)	With Load Backrest	Without Load Backrest	Fwd / Bwd	without side shift at (500mm LC)(kg)	side shift at (500mm LC)(kg)	(Unloaded) (kg) 20B-9	
		20B-9	20B-9	20B-9	20B-9	20B-9	20B-9	20B-9		
	V250	2,530	1,729	40	40	5/7	2,000	1,930	3,428	
	V270	2,730	1,829	40	40	5/7	2,000	1,930	3,440	
	V300	3,030	1,979	40	40	5/7	2,000	1,930	3,460	
	* V330	3,330	2,129	40	40	5/7	2,000	1,930	3,480	
2- Stage	V350	3,530	2,229	40	40	5/7	2,000	1,930	3,493	
Limited free lift	V370	3,730	2,329	40	40	5/7	2,000	1,920	3,506	
	V400	4,030	2,479	40	40	5/7	2,000	1,920	3,531	
	V450	4,530	2,829	40	40	5/5	1,925	1,860	3,598	
	V500	5,030	3,079	40	40	5/5	1,850	1,790	3,632	
	V550	5,530	3,329	40	40	5/5	1,775	1,710	3,652	
2- Stage full	VF300	3,030	1,979	986	1,548	5/5	2,000	1,930	3,499	
	VF330	3,330	2,129	1,136	1,698	5/5	2,000	1,930	3,520	
free lift	VF350	3,530	2,229	1,236	1,798	5/5	2,000	1,930	3,535	
	TF/TS370	3,740	1,779	786	1,274	5/5	2,000	1,930	3,576	
	TF/TS400	4,040	1,879	886	1,374	5/5	1,950	1,880	3,596	
	TF/TS430	4,340	1,979	986	1,474	5/5	1,925	1,860	3,615	
	TF/TS450	4,540	2,079	1,086	1,574	5/5	1,900	1,840	3,635	
3 - Stage	TF/TS470	4,740	2,129	1,136	1,624	5/5	1,850	1,790	3,645	
full free lift	TF/TS500	5,040	2,229	1,236	1,724	5/5	1,800	1,750	3,665	
	TF/TS550	5,540	2,429	1,436	1,924	5/5	1,700	1,640	3,705	
	TF/TS600	6,040	2,629	1,636	2,124	5/5	1,600	1,540	3,768	
	TF/TS650	6,540	2,829	1,836	2,324	5/5	1,300	1,250	3,813	
	TF/TS700	7,040	3,029	2,036	2,524	5/5	1,150	1,100	3,852	

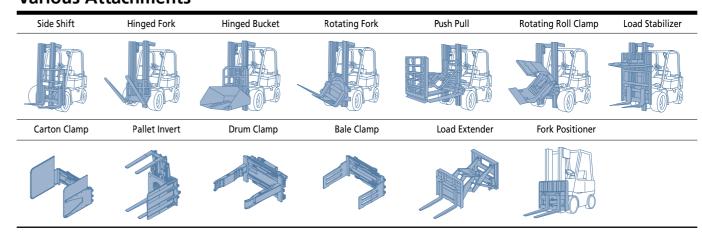
\* Standard

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

#### **Load Capacity**



#### **Various Attachments**



#### **Optional Items**

- · Fork (mm)
- **16 / 18B-9** : 35X100X750, 850, 900(STD), 1050, 1200, 1350, 1500
- **20B-9**: 40X100X900(STD), 950, 1000, 1050, 1150, 1200, 1350, 1500, 1600
- · Overshoe (mm): 1300 / 1500 / 1700
- · Integral Sideshift
- Tire: SOLID (STD) / Non-marking /
  - Wide tire [16B-9 : Front tire (200 / 50-10)]
- · Seat : Gramme
- · M.C.V: 2-Spool (STD), 3-Spool, 4-Spool

- · Auto Fork Leveling
- · Beacon Lamp
- Load Indicator
- · Work Lamp
- · OPSS : Mast
- · UF33 . IVIASI
- · UL: ES, EE
- Cabin
- Direction Switch on Lever
- · Cold Storage (for -30°c cold working environments)