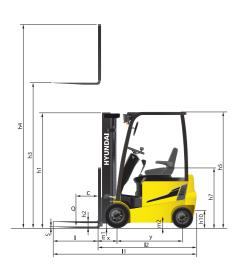
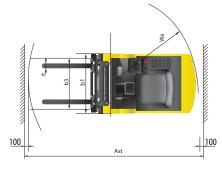
Dimension





Specification

<u> </u>				
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 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	1,600	1,800	2,000
1.6	Load center distance c mm	500	500	500
1.8	Load distance, center of front axle to fork x mm	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), polyurethane(PE)	SE	SE	SE
3. 2	Tires size, front(Φ x width)	18x7-8	200 / 50-10	200 / 50-10
3. 3	Tires size, rear(∅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
	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 I1 mm	2,935	3,020	3,030
4.20	Length to face of forks 12 mm	2,035	2,120	2,130
4.21	Overall width b1 mm	1,074	1,105	1,105
4.22	Fork dimensions I/e/s mm	900x100x35	900x100x35	900x100x40
4.23	Fork carriage ISO 2328, class / type A, B	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	Turning radius Wa mm	1,710	1,795	1,810
4.36	Smallest pivot point distance mm	-	-	-
Perfo	ormance Data			
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	15,102 / 14,759	15,190 / 14,710	14,367 / 14,043
5.8	Max. gradient performance, loaded / unloaded S2 5min %	29.5	27.5	24.5
5.10	Service brake	Hydraulic	Hydraulic	Hydraulic
E - M	otor			
6.1	Drive motor rating \$2 60 min kW	4.7x2	4.7x2	4.7x2
6.2	Pump motor rating at S3 - 15 % kW	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 kg	850	1,030	1,030
	Battery dimensions L / W /H mm	978 / 545 / 636	978 / 630 / 636	978 / 630 / 636
O#I- 1	-	37073437030	3,0,030,030	3,0,030,030
	r Details	4.5		
8.1	Type of drive control	AC	AC	AC

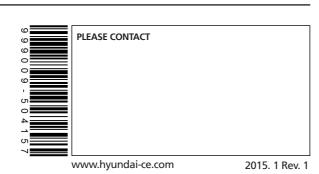
HYUNDAI | FORKLIFT HEAVY INDUSTRIES

Head Office (Sales Office)

Tet. (82) (2) 746-4609, 4753 / FAX (82) (2) 746-7444, 7445

Americas Operation : Hyundai Construction Equipment Americas, Inc. 6100 ATLANTIC BOULEVARD NORCROSS GA 30071 U.S.A TEL (1) 847-678-823-7802 / FAX (1) 847-678-823-7778

Europe Operation : Hyundai Heavy Industries Europe N.V. VOSSENDAAL 11, 2440 GEEL, BELGIUM TEL (32) 14-56-2200 / FAX (32) 14-59-3405





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**



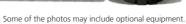
Efficient, smooth running and compact design provide you with enhanced performance and highest productivity.

16/18/20B-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.



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 (MA	AX)	Travel Speed	Travel Speed (MAX), unloade				
Model	%	Model	km / h				
16B-9	29.5	16B-9	17				
18B-9	27.5	18B-9	17				
20B-9	24.5	20B-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.

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.

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





Some of the photos may include optional equipment.





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

New **9 Series**

16/18/208-9

Mast Specification (16/18B-9)

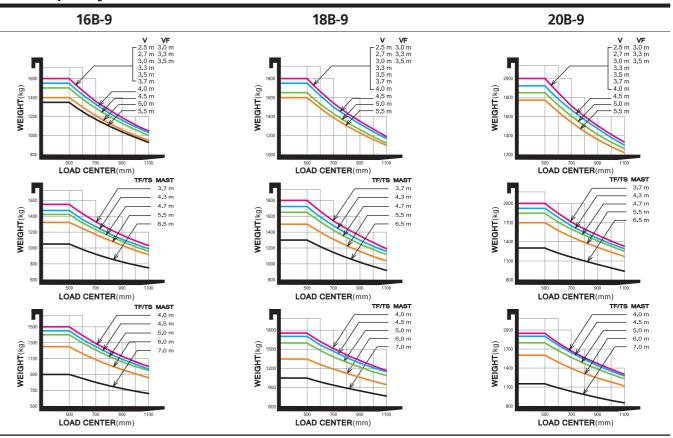
Mast Type		Maximum Overall Height Fork Height (Lowered)		Free Lift Height (mm)			Tilt Angle (deg)	Load Capacity without side shift at		Load Capacity with side shift at		Truck Weight (Unloaded)			
		(mm)	3 ` '		With Load Backrest Without Load Backres		ad Backrest	Fixed / Rived		(500mm LC)(kg)		(500mm LC)(kg)		(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
nee int	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
3 - Stage	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
	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
full 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
iicc iiic	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)

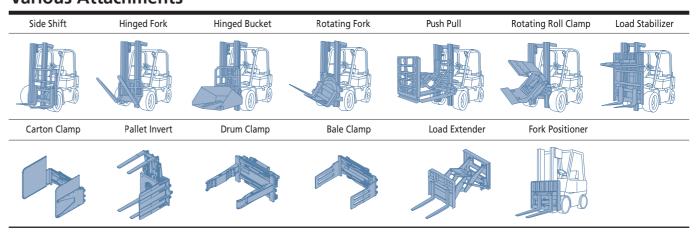
Mast Type		Maximum	Overall Height	Free Lift H	eight (mm)	Tilt Angle (deg)	Load Capacity	Load Capacity with	Truck Weight	
		Fork Height (mm)	(Lowered) (mm)	With Load Backrest	Without Load Backrest	Fwd / Bwd	without side shift at (500mm LC)(kg)	side shift at (500mm LC)(kg)	(Unloaded) (kg) 20B-9	
		20B-9	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	VF300	3,030	1,979	986	1,548	5/5	2,000	1,930	3,499	
full	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	
nee inc	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	

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