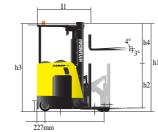
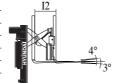
Technical Data for 15/18/20/23BRP-9

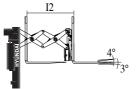
ener	al Information						
1	Manufacturer			HYUNDAI	HYUNDAI	HYUNDAI	HYUNDAI
2	Model	Manufacturer's Designation		15BRP-9	18BRP-9	20BRP-9	23BRP-9
3	Load Capacity * (1)	Max.	kg	1,361	1,588	1,814	2,041
4	Load Center	Fork Face to Load CG	mm	610	610	610	610
5	Power Unit	Туре	Volt	36	36	36	36
9	Operator Type			Stand,D/ Reach	Stand, D/ Reach	Stand, D/ Reach	Stand,D/ Reach
7	Tire Type	Load / Drive / Caster		Poly./Poly./Poly.	Poly./Poly./Poly.	Poly./Poly./Poly.	Poly./Poly./Poly
8	Wheels (x=driven)	Load / Drive / Caster		4/1x/2	4/1x/2	4/1x/2	4/1x/2
	Dimensions						
10	Mast * (2)	Lift height - See Chart	(h1) mm	5,335	5,335	5,335	5,335
11		Free Lift - See Chart	(h2) mm	1,196	1,196	1,196	1,196
12	Fork	Overall Fork Width , Max.	(h1) mm	760	760	760	760
		Overall Fork Width , Min.	(h1) mm	330	330	330	330
		Tickness x width	mm	40 x 100	40 x 100	45 x 100	45 x 100
		Length	mm	1,050	1,050	1,050	1,050
15	Length to Fork Face * (3)	Battery Compartment " Type A"	(I1) mm	1,467	1,281 * (4)	N/A	N/A
	zengan to ronk race (5)	Battery Compartment " Type B"	mm	1,518	1,332	1,332 * (4)	1,370
		Battery Compartment " Type C"	mm	1,562 * (4)	N/A	1,332 * (4)	1,414 * (4)
		Battery Compartment " Type D"	mm	1,632	N/A	N/A	1,414 (4)
16	Reach (Pantograph)	Stroke Stroke	(I2) mm	1,032	592	592	592
17	Overall Height * (2)	Lowered -See Chart	(h3) mm	2,415	2,415	2,415	2,415
18	Overall neight (2)	Lifted -See Chart	mm	6,554	6,554	6,554	6,554
	Load Backrost Hairbt	Litted -See Chart		 			
19	Load Backrest Height	In Form in secondaries (964, 1, 270)	(h4) mm	1,219	1,219	1,219	1,219
20	Outrigger ID	In 50mm increments (864~1,270)	(b2) mm	1,067	1,067	1,067	1,067
21	Turning Radius	in standard battery compartment	(wa) mm	1,856	1,665	1,712	1,819
22	Battery Compartment * (4)	Length	mm	457	362	413	457
	mance			44.0	44.0	11.0	44.0
24	Speed - Travel	W/O Load	kph	11.8	11.8	11.8	11.8
25		Max. With Load	kph	11.8	11.8	11.8	11.8
26	Speed - Lift	Lift Speed, with Load	m/s	0.32	0.31	0.29	0.27
27		Lift Speed, without Load	m/s	0.45	0.45	0.46	0.46
28	Speed - Lower	Lower Speed, with Load	m/s	0.50	0.50	0.50	0.50
29		Lower Speed, without Load	m/s	0.45	0.45	0.45	0.45
eigh	ts						
34	Service weight	Including battery, less load, standard	kg	3,983	3,360	3,505	3,901
35	Axle loading	With Load, Front	kg	3,240	3,189	3,521	3,890
		With Load, Rear	kg	2,104	1,759	1,798	2,052
		W/O Load, Front	kg	1,593	1,306	1,381	1,545
		W/O Load, Rear	kg	2,390	2,054	2,124	2,356
nassi	5						
39	Tires/Wheels	Number, Load/Drive/Caster		4/1/2	4/1/2	4/1/2	4/1/2
40	Wheel Size	Front, Load Wheels	mm	ø127 x 101	ø127 x 101	ø127 x 101	ø127 x 101
		Rear, Drive Wheel(Steer)	mm	ø345 x 140	ø345 x 140	ø345 x 140	ø345 x 140
		Rear, Caster Wheel	mm	ø178 x 73	ø178 x 73	ø178 x 73	ø178 x 73
41	Wheelbase	Battery Compartment " Type A"	mm	1,510	1,399*(4)	N/A	N/A
		Battery Compartment " Type B"	mm	1,561	1,450	1,450 * (4)	1,521
		Battery Compartment " Type C"	mm	1,605 * (4)	N/A	1,494	1,565 * (4)
		Battery Compartment " Type D"	mm	1,675	N/A	N/A	1,635
44	Ground Clearance	With 5.0" diameter load wheels	mm	51	51	51	51
46	Service Brake	Туре		Electromagnetic Brake	Electromagnetic Brake	Electromagnetic Brake	Electromagneti Brake
47	Parking Brake	Туре		Automatic	Automatic	Automatic	Automatic
+,	I GINIII DI GNE	1,100		 		Electric release	
	Stooring	Timo		Electric release	Electric release		Electric release
	Steering	Туре		Electric Steering	Electric Steering	Electric Steering	Electric Steerin
ectri							
48	Battery	Туре		Lead Acid	Lead Acid	Lead Acid	Lead Acid
		Max. Amp -standard	Ah	1,085	775	930	1,085
		Min. Weight -standard	kg	1,034	725	852	1,034
49	Motors, Controls	Drive Motor, 60 Min Rating	kw	6.8	6.8	6.8	6.8
		Hydraulic Motor, 15% Rating	kw	16	16	16	16
	1	Daire 0 11 decelle Material Time		1.0			







•18/20/23BRP-9



•15BRP-9

*(1) Contact factory. Capacity may be subject to derating at height. *(2) Spec data is based on the standard mast (TF530, maximum fork height 5,335mm) *(4) Standard battery compartment (type A : 18BRP-9, type B: 20BRP-9, type C: 15/23BRP-9)

AC

HYUNDAI | FORKLIFT HEAVY INDUSTRIES

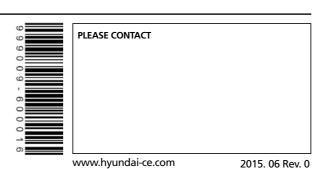
Head Office (Sales Office)

18th Fl., Digital Cube Bldg. 34, Sangamsan-ro, Mapo-gu, Seoul 121-904 TEL (82) 2-6424-1515 / FAX (82) 2-6424-1540

Drive& Hydraulic Motor control Type

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



15/18/20/23BRP-9

Electric Reach Trucks

MOVING YOU FURTHER



Your satisfaction is our priority!

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

The newly designed reach trucks provide every operator comfortable driving, increased productivity and easy maintenance.

Compact forklift with proven AC technology

- Maximum performance
- Comfortable operating room
- Curve control system
- Load indicator (optional)
- Camera(optional)
- Height indicator (optional)



Superior Power & **Optimal Performance**

Smooth running, efficient and ergonomically designed, 15/18/20/23BRP-9 series are built to meet your needs.

15/18/20/23BRP-9

■ Some of the photos may include optional equipment.



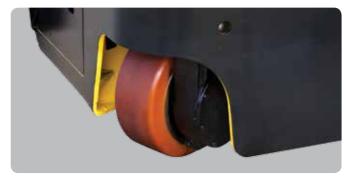
Minimum Turning Radius

Compact design suitable for narrow aisle operation guarantees work efficiency and maximum space utilization.



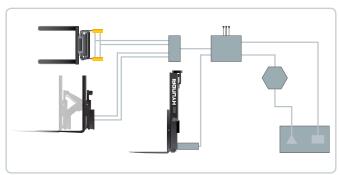
Versatile Reach Stroke

Multi-roller reach assembly provides a smooth, controlled and safe load handling system, and shows unsurpassed versatility during extended reach.



Automatic Center Position at Starting

When the key is turned to the on position, the steering sensor detects the position of the drive wheel and automatically returns the wheel to the center position.



State-of-the-art Hydraulic System

The latest large-capacity hydraulic system reacts quickly during operation and the low noise control valve increases both efficiency and durability.



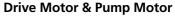
Energy Efficiency

H(High) mode : 100% N(Normal) mode : 110% E(Economic) mode : 120%



High Technology ZAPI Controller

The efficient, almost noiseless, 8kHz(high frequency) controller provides smooth quite operation and protection for low & high voltage, overheating and fault recording.



AC motors are designed for optimum reliability and efficiency while providing low noise levels. The AC motors are equipped with temperature sensors to ensure long motor life.



Excellent Gradeability Operation & Anti Roll Back

A powerful drive motor and four wheel configuration provide for exceptional stability and excellent gradeability. When restarting after stop on a slope, an anti-roll back function ensure operational safety.

	Travel Speed	Gradeability (MAX)						
	(MAX)	unloaded	loaded					
15BRP-9	11.8 Km/h	22%	13%					
18BRP-9	11.8 Km/h	15%	13%					
20BRP-9	11.8 Km/h	15%	12%					
23BRP-9	11.8 Km/h	20%	11%					

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Optimised Ergonomics &

Advanced Safety

A design based on human engineering relieves fatigue and increases operator's efficiency.

15/18/20/23BRP-9



■Some of the photos may include optional equipment.



Steering Control

A steering control coupled with our Electric Power Steering system gives the operator exceptionally smooth and controlled steering for tight spaces.



Joystick Lever

Minimal operator effort is required for precise, safe and productive control. The lever's contoured design and cushion armrest provide added comfort during operation.



Cup Holder, Console Box & Storage Space

Additional storage compartments are located inside the operating space for operator's convenience.



New High Visibility for Safe Operation

The operator is able to work with increased safety and accuracy due to a wider mast view.



Strong Overhead Guard

The safety overhead guard meets ISO 6055 and ANSI regulations and protects the operator during hazardous work.



Adjustable Backrest

A large and soft cushion pad is applied for operator's safety and comfort.



Non Slip Floor Mat

A heavy, vibration dampening, floor mat reduces operator fatigue and provides increased productivity.



Protection Fence

Protection fence installed between mast and operator room for safety.

*Tempered Glass Fence(Optional)





Camera & LCD monitor (optional)

A camera installed on fork side provides the operator with another excellent visibility. (apply to mast over TF700)

06 HYUNDAI FORKLIFT 07

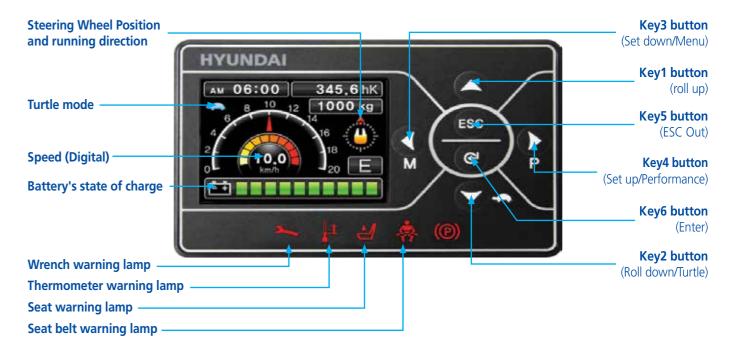
15/18/20/23BRP-9

Durability, **Easy Maintenance**

Concentrated Fuse Box for DC-DC Converter Easy Inspection Hydraulic Return Oil Filter is Reliable ZAPI AC **Easily Accessible** Controller **Electromagnetic Brake Emergency Switch Grease Fillings Easy Battery** Replacement **Cooling Fan Hydrauric Oil** Level Gauge

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

Advanced LCD Monitor



 ${f H}$ (High) mode ${f N}$ (Normal) mode ${f E}$ (Economic) mode ${f Turtle\ mode}$

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 and the height of fork in the monitor. The operator can select various performance modes to meet all working conditions. It is available multi-languages (maximum 11) for operator.

The monitor also displays information about operation error, system fault, battery level, hour meter plus other various functions. It enables the operator to maintain the forklift in optimum operating condition.



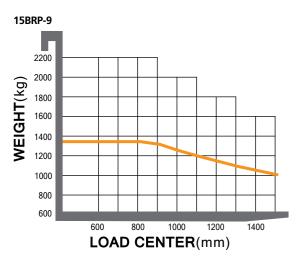
Monitor for load& height indicator (optional)

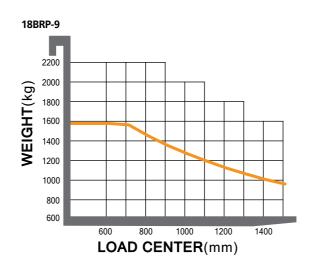
The optional load indicator displays the load weight in the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded. The optional indicator displays the height of fork in the monitor.

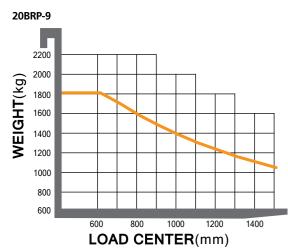
New 9 Series

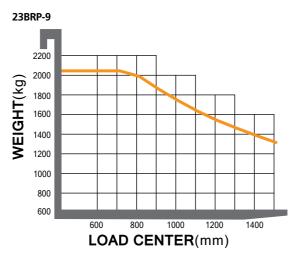
Load Capacity

MODEL	MAST	BATTERY TYPE	OUTTRIGGER-I.D
15BRP-9	TF530	С	1066mm (42in)
18BRP-9	TF530	A	1066mm (42in)
20BRP-9	TF530	В	1066mm (42in)
23BRP-9	TF530	С	1066mm (42in)









Optional Items

Outrigger I.D (mm)

- 864, 914, 965, 1016, 1118, 1168, 1219, 1270 Integral Sideshift

- Max. 120mm

UL

- UL" EE"

Beacon Lamp

- Amber, Blue , Red

Rear Work Lamp Fork Length (mm)

- 15/18BRP: 900, 950, 1000, 1150, 1200, 1350,1500, 1600

- 20/23BRP: 900, 1000, 1200, 1350, 1500, 1650, 1800

Fence

- Wire net type (STD)

- Tempered glass type (OPT)

Tire

- Vulkollan

Height Indicator

Cold Storage Battery

- 600AH, 700AH, 800AH

Charger 3P

- 220/380V, 410V, 440V

15/18/20/23BRP-9

Mast Specification (15/23BRP-9)

				Overall	Free Lift		_			Truck \	Veight	- w/o l	Battery	1	
Mast Type		Maximum Fork Height	Overall Height (Lowered)	Height (Lifted) (With Backrest)	Height (With Backrest)	Over Headguard Height	Min. Outtrigger -I.D	14	rpe B.C .5" mm)	B.C 1	Type 6.5" mm)	"C" Type B.C 18.3" (457mm)		"D" Type B.C 21.1" (527mm)	
		15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15/23BRP-9	15BRP-9	23BRP-9	15BRP-9	23BRP-9	*15BRP-9	*23BRP-9	15BRP-9	23BRP-9
		mm	mm	mm	mm	mm	mm	kg	kg	kg	kg	kg	kg	kg	kg
	TF500	5,011	2,260	6,230	1,041	2,240	864	2,870	-	2,888	2,805	2,902	2,820	2,925	2,843
	*TF530	5,335	2,415	6,554	1,196	2,395	864	2,918	-	2,935	2,853	2,949	2,867	2,972	2,890
	TF610	6,095	2,720	7,314	1,501	2,395	864	3,077	-	3,095	3,012	3,109	3,027	3,132	3,050
3-Stage	TF685	6,859	3,025	8,078	1,806	2,395	864	-	-	3,186	3,104	3,201	3,119	3,224	3,142
Full Free	TF760	7,621	3,325	8,840	2,106	2,395	864	-	-	3,278	3,196	3,293	3,210	3,316	3,233
Lift	TF815	8,155	3,555	9,374	2,336	2,395	864	-	-	3,350	3,267	3,364	3,282	3,387	3,305
	TF865	8,661	3,785	9,880	2,566	2,395	1,016	-	-	-	-	3,443	3,360	3,466	3,383
	TF930	9,301	4,065	10,520	2,846	2,395	1,067	-	-	-	-	-	-	3,551	3,469
	TF1010	10,161	4,370	11,380	3,151	2,395	1,118	-	-	-	-	-	-	3,662	3,580

* STANDARD

* STANDARD

Mast Specification (18/20BRP-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Overall Height t (Lifted) (With Backrest)		Free Lift Height (With Backrest)		Over Headguard Height		Min. Outtrigger -I.D		Truck "A" Type B.C 14.5" (362mm)		Weight - w/o B "B" Type B.C 16.5" (413mm)		"C" Type B.C 18.3" (457mm)	
				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg
	TF500	5,011	5,011	2,260	2,260	6,230	6,230	1,041	1,041	2,240	2,240	864	864	2,597	-	2,615	2,615		2,629
2 Stago	*TF530	5,335	5,335	2,415	2,415	6,554	6,554	1,196	1,196	2,395	2,395	864	864	2,635	-	2,653	2,653	-	2,667
3-Stage Full Free	11610	6,095	6,095	2,720	2,720	7,314	7,314	1,501	1,501	2,395	2,395	864	864	2,776	-	2,793	2,793	-	2,807
Lift	TF685	6,859	6,859	3,025	3,025	8,078	8,078	1,806	1,806	2,395	2,395	864	864	-	-	2,882	2,882	-	2,896
LIIL	TF760	-	7,621	-	3,325	-	8,840	-	2,106	-	2,395		864	-	-	-	-		2,970
	TF815	-	8,155	-	3,555	-	9,374	-	2,336	-	2,395	-	864	-	-	-	-	-	3,027

Load Tire Option Table

Battery Max. **Battery Battery Dimensions** Weight Compartment **Battery Capacity** Battery Voltage (6 Hour Min. Size Width Height Length Type (W) Weight (Length) Rate) (H) Ah in mm Volt in mm in mm in mm lb kg 38.4 975 14.0 355 31.0 787 1598 725 Type A 14.3 362 36 775 413 36 38.4 975 16.0 406 31.0 787 1878 852 Type B 16.3 930 38.4 975 17.7 450 31.0 787 2280 1034 18.0 457 36 1085 Type C 1240 | 38.4 | 975 | 20.5 | 520 | 31.0 | 787 | 2601 | 1180 Type D 20.7 527 36

Mast	15B	RP-9	18B	RP-9	20B	RP-9	23BRP-9			
Туре	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)	ø5x4" (ø127x 101mm)	ø10.5x4" (ø267x 101mm)		
TF500	•	-	•	•	•	•	•	•		
TF530	•	-	•	•	•	•	•	•		
TF610	•	-	•	•	•	•	•	•		
TF685	•	-	•	•	•	•	•	•		
TF760	•	-	-	-	•	-	•	•		
TF815	•	-	-	-	•	-	•	•		
TF865	•	-	-	-	-	-	•	-		
TF930	•	-	-	-	-	-	•	-		
TF1010	•	-	-	-	-	-	•	-		

Right Angle Aisle Stacking - Zero Clearance

362 Battery Compartment and 1,067 Outrigger I.D						ger I.D	362 Ba	ttery Co	ompartı	nent an	d 1,067	Outrig	ger I.D	413 Ba	ttery Co	ompartı	nent an	d 1,067	Outrig	ger I.D
15BRP-9					18/20BRP-9							23BRP-9								
	Pallet Width (mm)								Pa	llet Wi	dth (m	m)			Pallet Width (mm)					
Dallas		838	914	1,016	1,118	1,219	Dallat		838	914	1,016	1,118	1,219	5 II .		838	914	1,016	1,118	1,219
Pallet	914	2,333	2,326	2,317	2,307	2,298	Pallet	914	2,137	2,129	2,117	2,106	2,094	Pallet	914	2,217	2,208	2,196	2,196	2,171
Length	1,016	2,447	2,441	2,434	2,426	2,418	Length (mm)	1,016	2,255	2,248	2,239	2,230	2,221	Length (mm)	1,016	2,337	2,330	2,321	2,321	2,302
(mm)	1,118	2,558	2,553	2,546	2,539	2,533	(111111)	1,118	2,368	2,363	2,355	2,348	2,340	(111111)	1,118	2,452	2,446	2,438	2,438	2,422
	1,219	2,665	2,661	2,655	2,649	2,643		1,219	2,477	2,472	2,466	2,460	2,453		1,219	2,561	2,556	2,550	2,550	2,536

[·] Add 51mm for 413mm Battery Compartment

Battery Table

· Add 51mm for 457mm Battery Compartment · Add 102mm for 527mm Battery Compartment

[·] Add 89mm for 457mm Battery Compartment · Add152mm for 527mm Battery Compartment

[·] Add 51mm for 413mm Battery Compartment · Add 89mm for 457mm Battery Compartment