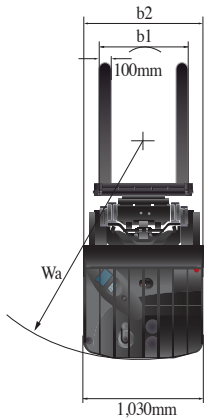
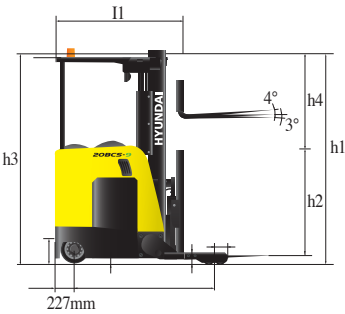


Technical Data for 15/18/20BCS-9

Identification				
1.1	Manufacturer	HYUNDAI	HYUNDAI	HYUNDAI
1.2	Manufacturer's model designation	15BCS-9	18BCS-9	20BCS-9
1.3	Drive: electric (battery or mains),diesel, petrol, fuel gas	electric	electric	electric
1.4	Type of operation:hand,pedestrian,standing,seated,order-picker	standing	standing	standing
1.5	Load capacity / Rated load	kg(lb)	1,361(3,000)	1,588(3,500)
1.6	Load center distance	c mm(in)	600(24)	600(24)
1.8	Load distance, center of drive axle to fork	x mm(in)	330(12.9)	330(12.9)
1.9	Wheelbase	y mm(in)	1,152(45.3)	1,222(48.1)
Weights				
2.1	Service weight	kg(lb)	3,862(8,514)	4,074(8,981)
2.2	Axle loading, loaded front / rear	kg(lb)	4,444(9,797) /779(1,717)	4,976(10,970) /719(1,585)
2.3	Axle loading, unloaded front / rear	kg(lb)	1,987(4,380) /1,875(4,133)	2,001(4,411) /2,046(4,510)
Wheels, Chassis				
3.1	Tires ; Pneumatic(P), Solid(S), Non-marking(N)	V, PE	V, PE	V, PE
3.2	Tires size, front	18x7x12.12	18x7x12.12	18x7x12.12
3.3	Tires size, rear	10x5x6.5	10x5x6.5	10x5x6.5
3.5	Number of wheels front / rear (x=driven wheels)	2x/1Dual	2x/1Dual	2x/1Dual
3.6	Track width, front	mm(in)	889(35)	889(35)
3.7	Track width, rear	mm(in)	181(7.12)	181(7.12)
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward (α / β)	degrees	5/5	5/5
4.2	Lowered mast height	h1 mm(in)	2,098(82.6)	2,098(82.6)
4.3	Free lift	h2 mm(in)	881(34.7)	881(34.7)
4.4	Lift height	h3 mm(in)	4,740(186.6)	4,740(186.6)
4.5	Extended mast height	h4 mm(in)	5,957(234.5)	5,957(234.5)
4.7	Overhead guard height (cabin)	h5 mm(in)	2,235(87.9)	2,235(87.9)
4.8	Seat height / standing height rel. to SIP	h7 mm(in)	200(7.8)	200(7.8)
4.12	Coupling height	h10 mm(in)	-	-
4.19	Overall length	l1 mm(in)	2,777(109.3)	2,777(109.3)
4.20	Length to face of forks	l2 mm(in)	1,727(67.99)	1,797(70.7)
4.21	Overall width	b1 mm(in)	1,067(42.0)	1,067(42.0)
4.22	Fork dimensions(hook type)	l/e's mm(in)	40x100x1,050 (1.6x3.9x41.3)	40x100x1,050 (1.6x3.9x41.3)
4.23	Fork carriage ISO 2328, class / type A,B	2A	2A	2A
4.24	Fork-carriage width	b3 mm(in)	950(37.4)	950(37.4)
4.31	Ground clearance, loaded, under mast	m1 mm(in)	63(2.4)	6363(2.4)
4.32	Ground clearance, centre of wheelbase	m2 mm(in)	100(3.9)	100(3.9)
4.33	Aisle width for pallets 1,000x1,200 crossways (LxW)	Ast mm(in)	3,056(120.3)	3,126(123.0)
4.34	Aisle width for pallets 800x1,200 lengthways (WxL)	Ast mm(in)	3,178(125.1)	3,248(127.8)
4.35	Turning radius	Wa mm(in)	1,397(55)	1,467(57.7)
4.36	Smallest pivot point distance	0	0	0
Performance Data				
5.1	Travel speed, unloaded	km/h(mph)	12.1(7.5)	12.1(7.5)
5.2	Lift speed, loaded/ unloaded	mm/s(ft/min)	360(70.9)/560(110.2)	340(66.9)/560(110.2)
5.3	Lowering speed, loaded/unloaded	mm/s(ft/min)	480(94.4)/430(84.6)	480(94.4)/430(84.6)
5.6	Max. Drawbar pull, loaded	N(lb)	10,231(2,300)	10,231(2,300)
5.7	Gradient performance, loaded	%	15	15
5.9	Acceleration time, loaded/ unloaded(10m)	sec	-	-
5.10	Service brake	Electric release	Electric release	Electric release
Motor				
6.1	Drive motor rating S2 60 min (uL ES / uL EE)	kW(hp)	4.3/4.0(5.7)	4.3/4.0(5.7)
6.2	Lifting motor rating at S3 15% (uL ES / uL EE)	kW(hp)	14(18.8)	14(18.8)
6.4	Battery voltage, nominal capacity K5	V/Ah	36/930	36/1,085
6.5	Battery weight	kg(lb)	898(1979.8)	1,034(2279.6)
6.7	Battery compartment dimensions L / W / H	mm	975/456/800 (38.38/17.95/31.49)	975/456/800 (38.38/17.95/31.49)
Other Details				
8.1	Type of drive control	AC	AC	AC
8.2	Operating pressure, system / attach	bar(psi)	170(2,465)/140(2,030)	170(2,465)/140(2,030)
8.3	Oil volume for attachment	ℓ/min(GPM-US)	20(5.28)	20(5.28)



- The Specifications in this brochure are subject to change for option.
- The options in this brochure are subject to change to improve the performance of the forklift.

15/18/20BCS-9

Stand up Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



HYUNDAI | FORKLIFT
HEAVY INDUSTRIES

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VOSSENDAAL 11, 2440 GEEL, BELGIUM
TEL (32) 14-56-2200 / FAX (32) 14-59-3405

PLEASE CONTACT

Your satisfaction is our priority!

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

The newly designed stand up counter balanced 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)



■ Some of the photos may include optional equipment.

Superior Power & Optimal Performance

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

15/18/20BCS-9



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

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



■ Some of the photos may include optional equipment.



Auto parking system
1. Electric Disc Brakes provide emergency stopping and parking for the truck.
2. Parking Brake actuated automatically when the pedal released.
3. The pre-adjusted brake assemblies require no maintenance.



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

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



On Demand Steering
Whenever operator use the steering, hudrulic motor is activated it reduce steering noise and energy consumption.



Drive Motor & Pump Motor
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 (MAX)	Gradeability (MAX)	
		unloaded	loaded
15BCS-9	12.1 Km/h	15%	15%
18BCS-9	12.1 Km/h	15%	15%
20BCS-9	12.1 Km/h	15%	15%

Optimised Ergonomics & Advanced Safety

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

15/18/20BCS-9



■Some of the photos may include optional equipment.



Adjustable Armrest and Large Backrest

Adjustable armrest and large backrest with soft material cushion are applied for operator's safety and comfort.



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.



New High Visibility for Safe Operation

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



Cup Holder, Console Box & Storage Space

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



Strong Overhead Guard

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



Non Slip Floor Mat

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



Blue Spot Lamp (optional)



Accessory Switches



12V Power Socket

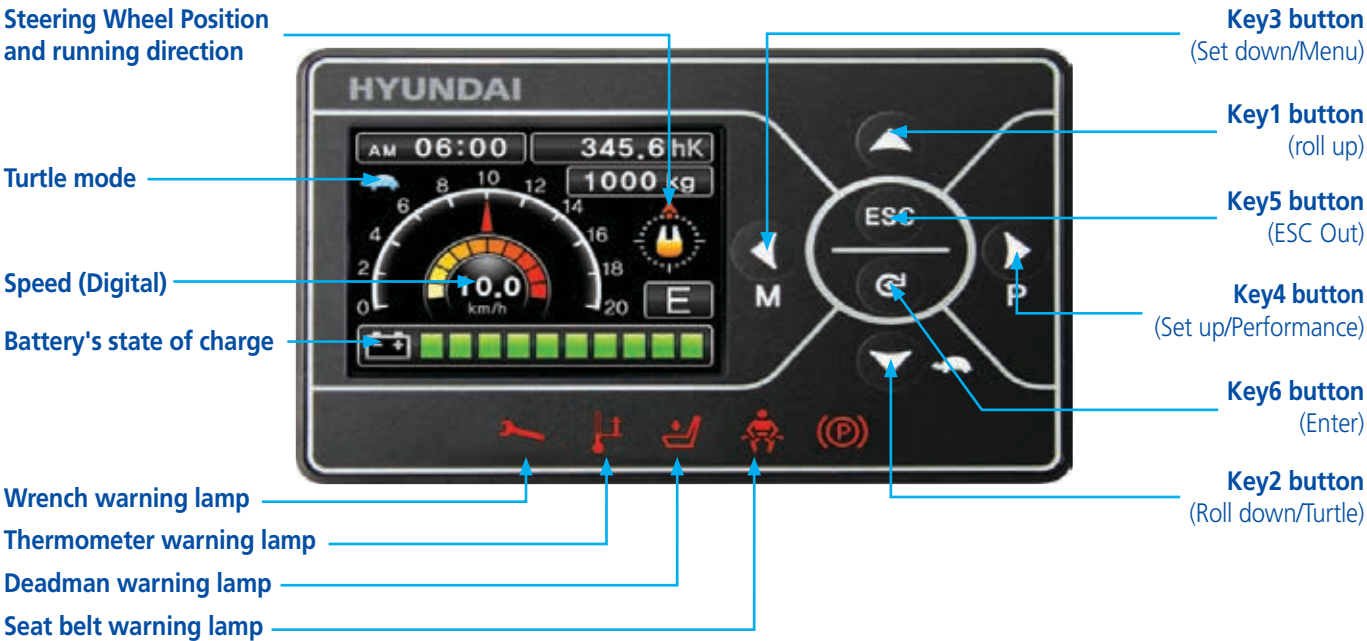
Durability, Easy Maintenance

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

15/18/20BCS-9

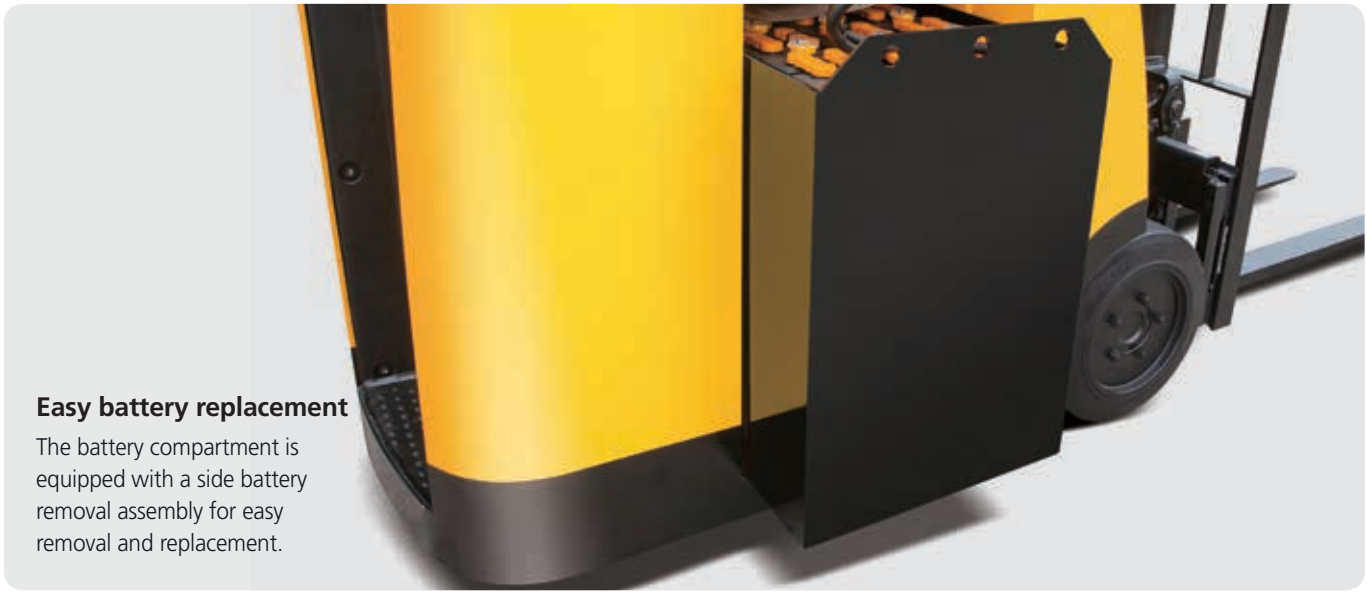


Advanced LCD Monitor



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

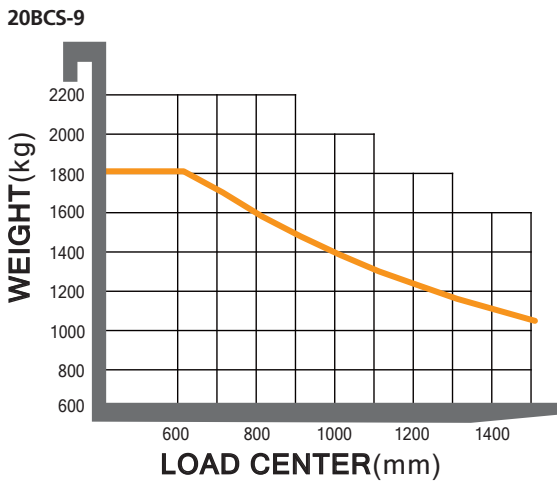
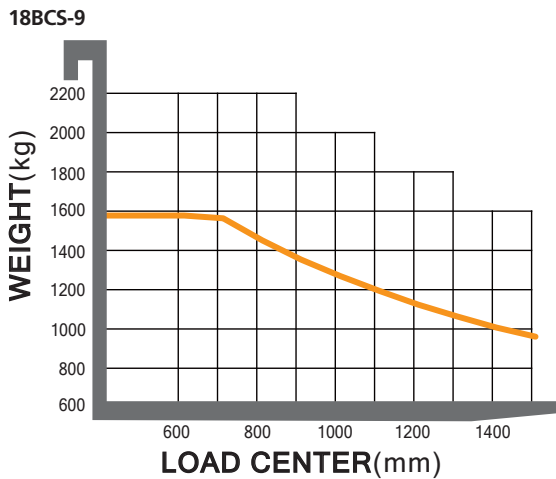
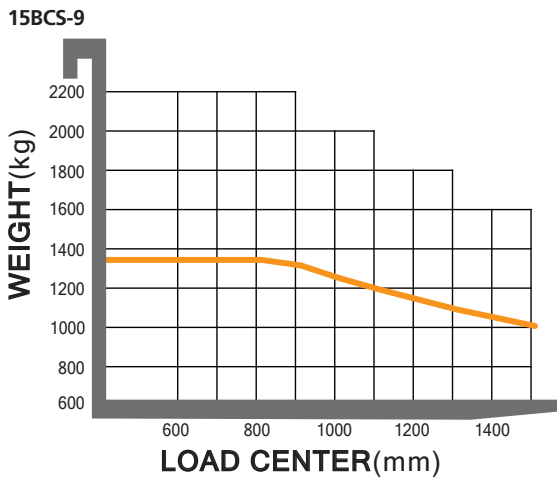
The LCD color monitor with 3.5 inch graphic smart display allows the operator to easily and efficiently control the machine. The monitor provides information about speed & accelerator level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The optional load indicator 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.



New 9 Series

15/18/20BCS-9

Load Capacity



MODEL	MAST	BATTERY TYPE	OUTTRIGGER-I.D
15BCS-9	TF530	C	1066mm (42in)
18BCS-9	TF530	A	1066mm (42in)
20BCS-9	TF530	B	1066mm (42in)

Optional Items

Integral Sideshift

- Max. 120mm

UL

- UL" EE"

Beacon Lamp

- Amber, Blue , Red

Rear Work Lamp

Fork Length (mm)

- 15/18BCS: 900, 950, 1000, 1050, 1150, 1350,1500, 1600

- 20BCS: 900, 1000, 1200, 1350, 1500, 1650, 1800

Fence

- Wire net type (STD)

- Tempered glass type (OPT)

Tire

- Vulkollan

Cold Storage

Battery

- 700AH

Charger 3P

- 220/380V, 410V, 440V

LED work lamp

Blue spot

Mast Specification (15BCS-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free Lift Height				Tilt Angle		Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Single Tire		Double Tire	
		in	mm	in	mm	in	mm	in	mm			lb	kg	lb	kg	lb	kg
3-Stage Full Free Lift	TF370	147.2	3740	68.8	1748	20.9	531	48.9	1243	5	5	3000	1361	3000	1361	8366	3795
	* TF400	159.1	4040	72.8	1848	24.8	631	52.9	1343	5	5	3000	1361	3000	1361	8408	3814
	TF430	170.9	4340	76.7	1948	28.8	731	56.8	1443	5	5	3000	1361	3000	1361	8450	3833
	TF450	178.7	4540	80.6	2048	32.7	831	60.7	1543	5	5	3000	1361	3000	1361	8492	3852
	TF470	186.6	4740	82.6	2098	34.7	881	62.7	1593	5	5	3000	1361	3000	1361	8514	3862
	TF500	198.4	5040	86.5	2198	38.6	981	66.7	1693	5	5	3000	1361	2930	1330	8556	3881
	TF550	218.1	5540	94.4	2398	46.5	1181	74.5	1893	5	5	3000	1361	2820	1280	8640	3919
	TF600	237.8	6040	102.3	2598	54.4	1381	82.4	2093	5	5	2600	1180	2420	1100	8774	3980

Mast Specification (18BCS-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free Lift Height				Tilt Angle		Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Single Tire		Double Tire	
		in	mm	in	mm	in	mm	in	mm			lb	kg	lb	kg	lb	kg
3-Stage Full Free Lift	TF370	147.2	3740	68.8	1748	20.9	531	48.9	1243	5	5	3500	1587	3500	1587	8774	3980
	* TF400	159.1	4040	72.8	1848	24.8	631	52.9	1343	5	5	3500	1587	3480	1580	8816	3999
	TF430	170.9	4340	76.7	1948	28.8	731	56.8	1443	5	5	3500	1587	3410	1550	8858	4018
	TF450	178.7	4540	80.6	2048	32.7	831	60.7	1543	5	5	3500	1587	3350	1520	8900	4037
	TF470	186.6	4740	82.6	2098	34.7	881	62.7	1593	5	5	3500	1587	3300	1500	8922	4047
	TF500	198.4	5040	86.5	2198	38.6	981	66.7	1693	5	5	3440	1560	3240	1470	8964	4066
	TF550	218.1	5540	94.4	2398	46.5	1181	74.5	1893	5	5	3300	1500	3130	1420	9048	4104
	TF600	237.8	6040	102.3	2598	54.4	1381	82.4	2093	5	5	2770	1260	2770	1180	9182	4165

Mast Specification (20BCS-9)

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free Lift Height				Tilt Angle		Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Single Tire		Double Tire	
		in	mm	in	mm	in	mm	in	mm			lb	kg	lb	kg	lb	kg
3-Stage Full Free Lift	TF370	147.2	3740	68.8	1748	20.9	531	48.9	1243	5	5	4000	1814	4000	1814	9136	4144
	* TF400	159.1	4040	72.8	1848	24.8	631	52.9	1343	5	5	4000	1814	3960	1800	9178	4163
	TF430	170.9	4340	76.7	1948	28.8	731	56.8	1443	5	5	4000	1814	3880	1770	9220	4182
	TF450	178.7	4540	80.6	2048	32.7	831	60.7	1543	5	5	4000	1814	3830	1740	9261	4201
	TF470	186.6	4740	82.6	2098	34.7	881	62.7	1593	5	5	4000	1814	3790	1720	9284	4211
	TF500	198.4	5040	86.5	2198	38.6	981	66.7	1693	5	5	3920	1780	3725	1690	9325	4230
	TF550	218.1	5540	94.4	2398	46.5	1181	74.5	1893	5	5	3790	1720	3590	1630	9409	4268
	TF600	237.8	6040	102.3	2598	54.4	1381	82.4	2093	5	5	3130	1420	2950	1340	9544	4329