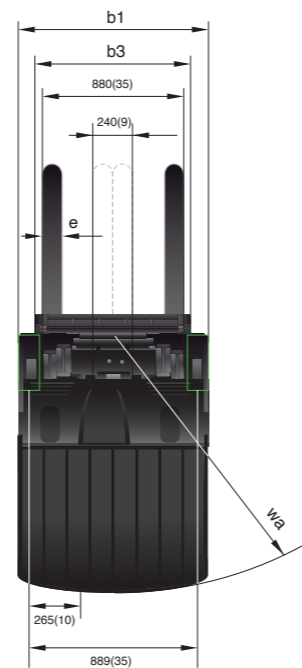
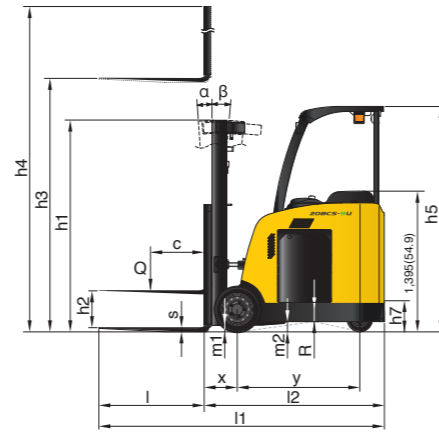


Technical Data for 15/18/20BCS-9U

Distinguishing marks					
1.1	Manufacturer		HYUNDAI	HYUNDAI	HYUNDAI
1.2	Manufacturer's model designation		15BCS-9U	18BCS-9U	20BCS-9U
1.3	Drive		Electric	Electric	Electric
1.4	Type of operation		Standing	Standing	Standing
1.5	Load Capacity	Q lb(kg)	3,000(1,360)	3,500(1,588)	4,000(1,814)
1.6	Load Center	c in(mm)	24(600)	24(600)	24(600)
1.9	Wheel Base	y in(mm)	45.35(1,152)	45.35(1,152)	48.11(1,222)
Weights					
2.1	Service Weight	lb(kg)	8,514(3,862)	8,981(4,074)	9,283(4,211)
2.2	Axle Loading, Loaded Front/Rear	lb(kg)	9,823/1,691(4,456/767)	11,003/1,552(4,991/704)	11,636/1,646(5,278/747)
2.3	Axle Loading, Unloaded Front/Rear	lb(kg)	4,380/4,133(1,987/1,875)	4,411/4,510(2,001/2,046)	4,554/4,729(2,066/2,145)
Tire					
3.2	Tire Size, Front		18×7×12.12	18×7×12.12	18×7×12.12
3.3	Tire Size, Rear		10×5×6.5	10×5×6.5	10×5×6.5
3.5	Wheels, Number Front / Rear (X=Driven Wheels)		2x/1Dual	2x/1Dual	2x/1Dual
3.6	Tread, Front	in(mm)	35(889)	35(889)	35(889)
3.7	Tread, Rear	in(mm)	712(181)	712(181)	712(181)
General Specifications					
4.1	Tilt of Mast	α/β degrees	5/5	5/5	5/5
4.2	Height, Mast Lowered	h1 in(mm)	83(2,110)	83(2,110)	83(2,110)
4.3	Free Lift	h2 in(mm)	34.6(881)	34.6(881)	34.6(881)
4.4	Lift Height	h3 in(mm)	186.6(4,740)	186.6(4,740)	186.6(4,740)
4.5	Height, Mast Extended	h4 in(mm)	234.5(5,957)	234.5(5,957)	234.5(5,957)
4.7	Height of Overhead Guard	h5 in(mm)	87.9(2,235)	87.9(2,235)	87.9(2,235)
4.8	Seat Height/Step Height	h7 in(mm)	787(200)	787(200)	787(200)
4.19	Overall Length	l1 in(mm)	109.33(2,777)	109.33(2,777)	112.08(2,847)
4.20	Length to Face of Forks	l2 in(mm)	67.99(1,727)	67.99(1,727)	70.74(1,797)
4.21	Overall Width	b1 in(mm)	42(1,067)	42(1,067)	42(1,067)
4.22	Fork Dimensions	l/e/s in(mm)	1.6×3.9×41.3(40×100×1,050)	1.6×3.9×41.3(40×100×1,050)	1.6×3.9×41.3(40×100×1,050)
4.23	Fork Carriage ISO 2328, Class / Type A,B		II/A	II/A	II/A
4.24	Fork-Carriage Width (with backrest)	b3 in(mm)	37.4(950)	37.4(950)	37.4(950)
4.31	Ground Clearance, Under Mast	m1 in(mm)	2.48(63)	2.48(63)	2.48(63)
4.32	Ground Clearance, Center of Wheelbase	m2 in(mm)	3.94(100)	3.94(100)	3.94(100)
4.35	Turning Radius	Wa in(mm)	55(1,397)	55(1,397)	57.75(1,467)
Performance					
5.1	Travel Speed, Loaded / Unloaded	mph(km/h)	7.5/7.5(12.1/12.1)	7.5/7.5(12.1/12.1)	7.5/7.5(12.1/12.1)
5.2	Lift Speed, Loaded / Unloaded	ft/min(mm/s)	70.9/110.2(360/560)	66.9/110.2(340/560)	65/110.2(330/560)
5.3	Lowering Speed, Loaded / Unloaded	ft/min(mm/s)	94.5/84.6(480/430)	94.5/84.6(480/430)	94.5/84.6(480/430)
5.6	Max. Drawbar Pull, Loaded / Unloaded	lbf(N)	2,866/(12,748)	2,866/(12,748)	2,866/(12,748)
5.8	Max. Gradeability, Loaded / Unloaded	%	15/15	15/15	15/15
5.10	Service Brake		Electric release	Electric release	Electric release
Motor/Battery					
6.1	Drive Motor Rating S2 60 Min	hp(kW)	5.7(4.3) x 2	5.7(4.3) x 2	5.7(4.3) x 2
6.2	Lift Motor Rating at S3 15%	hp(kW)	18.8(14)	18.8(14)	18.8(14)
6.4	Battery Voltage, Nominal Capacity K5	V/Ah	36/700	36/700	36/800
6.5	Battery Weight	lb(kg)	2,381(1,080)	2,381(1,080)	2,712(1,230)
6.7	Battery Compartment Dimensions L/W/H	in(mm)	38.7×18×32(984×456×814)	38.7×18×32(984×456×814)	38.7/20.7/32(984/526/814)
Other					
8.4	Sound Level at the Driver's Ear (DIN 12053)	dB (A)	70	70	70



- 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.

Stand up Counterbalance Trucks

15/18/20BCS-9U





New stand-up counterbalance truck with a driver-friendly interior design

Hyundai introduces a new line of 9-series battery forklift trucks. The newly designed stand up counter balanced trucks provide every operator with comfortable driving, increased productivity and easy maintenance.



ERGONOMICALLY DESIGNED OPERATOR COMPARTMENT

User-friendly control panel. Knee, back, and hip padding increased for operator comfort



ENHANCED DRIVER COMFORT & STABILITY

New joystick designed for driver-friendly operation, with the adjustable armrest.



ADVANCED SAFETY

Advanced braking and control systems provide stable, precise operation, while built-in safety functions enhance operator protection and confidence in every task.



Optimized Ergonomics

An ergonomically designed driver space reduces operator fatigue and boosts efficiency. The spacious operator compartment combined with intuitive controls and delivers superior comfort and natural operation throughout extended shifts.



Accessory Switches



12V Power Socket



Cup Holder



Document Storage Box



Some of the photos may include optional equipment.

Strong Overhead Guard

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



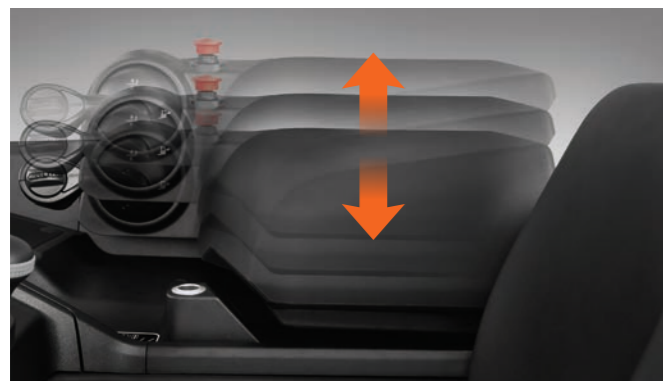
Improved cushion pads

Enhanced operator protection and improved access stability through added front and side pads and a refined 3-point support structure, delivering greater comfort, safety, and ease of access for frequent on-and-off operation.



Adjustable Armrest and Large Backrest

The ergonomically optimized armrest pad enhances operator comfort, even during long working hours. Its adjustable design provides convenient support for a wide range of operators.



Joystick Lever

The redesigned control handle enables one-hand control of direction and speed with minimal effort, enhancing productivity while reducing operator fatigue.



Advanced LCD Monitor

The LCD color monitor with 3.5 inch graphic smart display allows the operator to easily and efficiently control the machine.



Non Slip Floor Mat

An anti-slip surface design provides a stable working platform while reducing operator fatigue and enhancing overall comfort.



New Steering Wheel

The friction-based steering system prevents excessive free movement, requiring less continuous correction and reducing strain on the operator's arms.



Superior Performance with Advanced Safety

Designed for smooth, efficient operation, the 15/18/20BCS-9U series delivers reliable power, ergonomic comfort, and enhanced safety—ensuring confident, precise performance in demanding work environments.



15/18/20BCS-9U

Dual Drive Motor & Auto Parking System

Powerful and efficient dual drive motor enables superior throughput with faster speed. Electric disc brakes provide emergency stopping and parking for the truck. Parking brake actuated automatically when the pedal released. The pre-adjusted brake assemblies require no maintenance.



On Demand Steering

Whenever operator use the steering, hydraulic motor is activated it reduce steering noise and energy consumption.



High Technology ZAPI Controller

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





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.



Travel Speed Limit (Optional)

When the forks are raised above the free-lift height, travel speed is automatically limited to 3.4 mph. This ensures safer and more confident operation when handling elevated loads.

Normal	When the forks are lifted
	
Max. travel speed 7.5 mph (12.1 km/h)	Max. travel speed 3.4 mph (5.5 km/h)

Anti Roll Back

Prevents unintended rollback on slopes when starting on an incline, enhancing safety and providing smoother, more confident ramp starts.



Blue spot & Red zone (Optional)

Blue spot projects a blue light in front of or behind the forklift, warning pedestrians ahead of approaching equipment. Red zone creates a visual safety boundary around the forklift using red lighting to help prevent accidents and protect everyone in the workplace.



Pedestrian detection system (Optional)

A smart safety-assist system is designed to prevent collisions between pedestrians and forklifts. When the camera detects a person nearby, the system highlights the surrounding area in yellow on the monitor, providing a clear visual warning to the operator.

Best Convenience & Easy Maintenance

The fuse box, diagnostic port, and cluster update port are strategically positioned for easy accessibility. This layout allows quick and convenient access during maintenance, minimizing service time and effort.

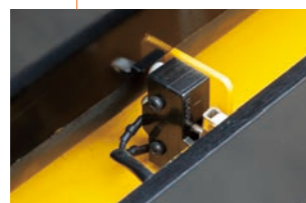
Battery Disconnecter



Grease Fillings



Steering System



SBR Sensing Switch



Tank Filter



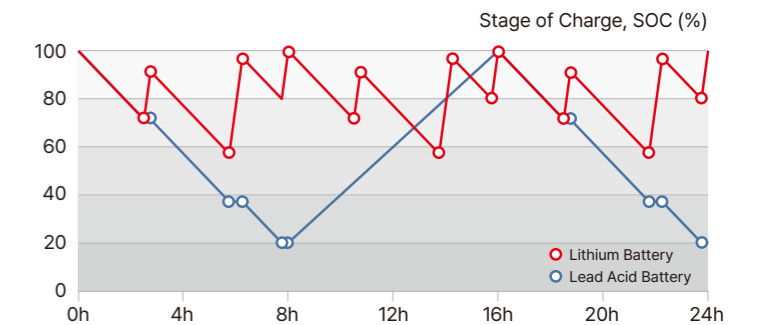
Reliable ZAPI AC Controller

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

15/18/20BCS-9U

Li-ion Battery (Optional)

The demand for Li-ion batteries is increasing due to their high energy conversion efficiency and fast charging capability within the 2-hour range. (Li-ion Battery Capacity : 36V/690Ah)



• Graph comparing the charge and discharge

Easy battery replacement

New BCS-9U is designed to prevent operation if the battery compartment side cover is not securely fastened. This safety feature helps prevent accidents caused by battery box detachment, reducing the risk of forklift damage and ensuring safe operation.



Hyundai Material Handling's Next-Tech Innovation - New Hi MATE

New Hi MATE is Hyundai Material Handling's integrated operational platform, bringing together the full power of connectivity technology. It goes beyond simple remote management to support data-driven decision-making across operations, maintenance, and safety.



Fleet Integration Management

Seamlessly connect your forklifts and operating system into one smart platform and manage your entire site at a glance, anytime, anywhere.



Smart Operations Analysis

Optimize your operations with monitoring of forklift activity and performance metrics.



Preventive Maintenance & Inspection

Stay ahead of downtime with real-time alerts on parts status, keeping your operation running without interruption.



Real-Time Safety Monitoring

Safeguard operators and equipment with proactive worksite monitoring and detailed safety records.



Remote Configuration Support

Stay up to date with remotely updated software and features that keep your forklifts performing at their best.

Specification

15/18/20BCS-9U

Mast Specification (15BCS-9U)

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)		
	in	mm	in	mm	With Load Backrest		Without Load Backrest		Fwd deg	Bwd deg	24 in LC lb	600mm LC kg	24 in LC lb	600mm LC kg	lb	kg	
					in	mm	in	mm									
3-Stage Full Free Lift	TF370	147.2	3,740	68.8	1,748	20.9	531	48.9	1,243	5	5	3,000	1,360	3,000	1,360	8,366	3,795
	TF400	159.1	4,040	72.8	1,848	24.8	631	52.9	1,343	5	5	3,000	1,360	3,000	1,360	8,408	3,814
	TF430	170.9	4,340	76.7	1,948	28.8	731	56.8	1,443	5	5	3,000	1,360	3,000	1,360	8,450	3,833
	TF450	178.7	4,540	80.6	2,048	32.7	831	60.7	1,543	5	5	3,000	1,360	3,000	1,360	8,492	3,852
	TF470	186.6	4,740	82.6	2,098	34.7	881	62.7	1,593	5	5	3,000	1,360	3,000	1,360	8,514	3,862
	TF500	198.4	5,040	86.5	2,198	38.6	981	66.7	1,693	5	5	3,000	1,360	2,930	1,330	8,556	3,881
	TF550	218.1	5,540	94.4	2,398	46.5	1,181	74.5	1,893	5	5	3,000	1,360	2,820	1,280	8,640	3,919
4-Stage Full Free Lift	QF610	240.2	6,100	82.7	2,100	32.9	835	57.5	1,460	5	3	-	-	1,870	850	9,300	4,216
	QF655	258.3	6,560	89.7	2,278	39.9	1,013	64.5	1,638	5	3	-	-	1,430	650	9,400	4,261
	QF700	275.6	7,000	94.7	2,405	44.9	1,140	69.5	1,765	5	3	-	-	990	450	9,460	4,288

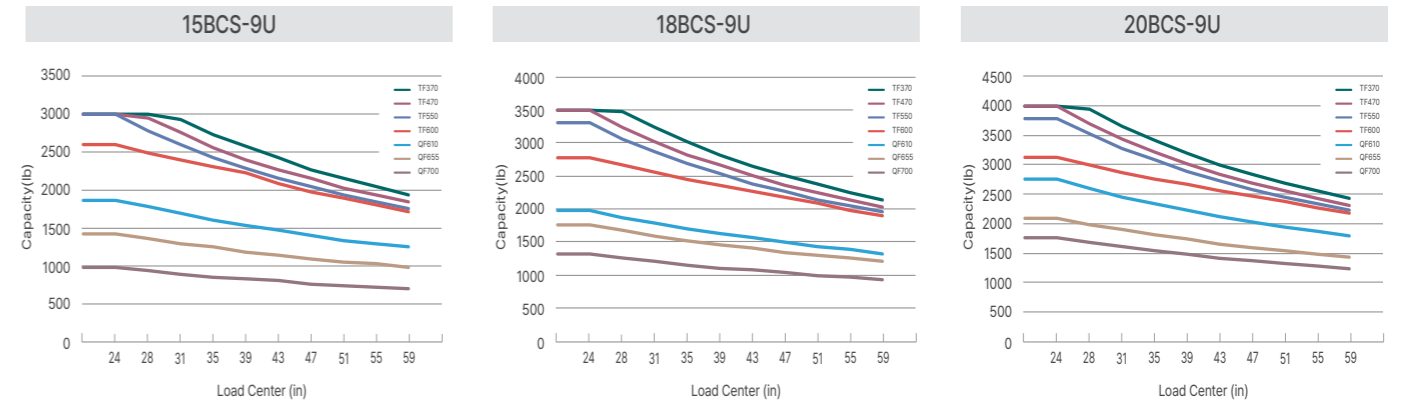
Mast Specification (18BCS-9U)

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)		
	in	mm	in	mm	With Load Backrest		Without Load Backrest		Fwd deg	Bwd deg	24 in LC lb	600mm LC kg	24 in LC lb	600mm LC kg	lb	kg	
					in	mm	in	mm									
3-Stage Full Free Lift	TF370	147.2	3,740	68.8	1,748	20.9	531	48.9	1,243	5	5	3,500	1,590	3,500	1,590	8,774	3,980
	TF400	159.1	4,040	72.8	1,848	24.8	631	52.9	1,343	5	5	3,500	1,590	3,480	1,580	8,816	3,999
	TF430	170.9	4,340	76.7	1,948	28.8	731	56.8	1,443	5	5	3,500	1,590	3,410	1,550	8,858	4,018
	TF450	178.7	4,540	80.6	2,048	32.7	831	60.7	1,543	5	5	3,500	1,590	3,350	1,520	8,900	4,037
	TF470	186.6	4,740	82.6	2,098	34.7	881	62.7	1,593	5	5	3,500	1,590	3,300	1,500	8,922	4,047
	TF500	198.4	5,040	86.5	2,198	38.6	981	66.7	1,693	5	5	3,440	1,560	3,240	1,470	8,964	4,066
	TF550	218.1	5,540	94.4	2,398	46.5	1,181	74.5	1,893	5	5	3,300	1,500	3,130	1,420	9,048	4,104
4-Stage Full Free Lift	QF610	240.2	6,100	82.7	2,100	32.9	835	57.5	1,460	5	3	-	-	1,980	900	9,710	4,401
	QF655	258.3	6,560	89.7	2,278	39.9	1,013	64.5	1,638	5	3	-	-	1,760	800	9,810	4,446
	QF700	275.6	7,000	94.7	2,405	44.9	1,140	69.5	1,765	5	3	-	-	1,320	600	9,870	4,473

Mast Specification (20BCS-9U)

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)		
	in	mm	in	mm	With Load Backrest		Without Load Backrest		Fwd deg	Bwd deg	24 in LC lb	600mm LC kg	24 in LC lb	600mm LC kg	lb	kg	
					in	mm	in	mm									
3-Stage Full Free Lift	TF370	147.2	3,740	68.8	1,748	20.9	531	48.9	1,243	5	5	4,000	1,810	4,000	1,810	9,136	4,144
	TF400	159.1	4,040	72.8	1,848	24.8	631	52.9	1,343	5	5	4,000	1,810	3,960	1,800	9,178	4,163
	TF430	170.9	4,340	76.7	1,948	28.8	731	56.8	1,443	5	5	4,000	1,810	3,880	1,770	9,220	4,182
	TF450	178.7	4,540	80.6	2,048	32.7	831	60.7	1,543	5	5	4,000	1,810	3,830	1,740	9,261	4,201
	TF470	186.6	4,740	82.6	2,098	34.7	881	62.7	1,593	5	5	4,000	1,810	3,790	1,720	9,284	4,211
	TF500	198.4	5,040	86.5	2,198	38.6	981	66.7	1,693	5	5	3,920	1,780	3,725	1,690	9,325	4,230
	TF550	218.1	5,540	94.4	2,398	46.5	1,181	74.5	1,893	5	5	3,790	1,720	3,590	1,630	9,409	4,268
4-Stage Full Free Lift	QF610	240.2	6,100	82.7	2,100	32.9	835	57.5	1,460	5	3	-	-	2,750	1,250	10,070	4,565
	QF655	258.3	6,560	89.7	2,278	39.9	1,013	64.5	1,638	5	3	-	-	2,090	950	10,170	4,610
	QF700	275.6	7,000	94.7	2,405	44.9	1,140	69.5	1,765	5	3	-	-	1,760	800	10,230	4,637

Load Capacity



Optional Items

● STD, ○ OPT, - N/A

Model	Details	15BCS-9U	18BCS-9U	20BCS-9U
Battery	Lead-acid battery	36V 700Ah	36V 700Ah	-
	Lithium battery	-	-	36V 800Ah
	Side battery removal	36V 690Ah	36V 690Ah	36V 690Ah
Hydraulic	3 Spool	●	●	●
	4 Spool	○	○	○
	Tilting - 5F/5B	●	●	●
	Tilting - 10F/5B, 5F/3B	○	○	○
Fork	Fork length (in)	35"-63"	35"-63"	35"-41"
Attachment	Integral Sideshift	○	○	○
	Integral Sideshift & Fork positioner	○	○	○
Carriage	Carriage - Hook type	●	●	●
	Carriage - Integral hook type	○	○	○
Lamp	Front LED	●	●	●
	Front & Rear LED	○	○	○
Safety	LED beacon lamp	○	○	○
	Redzone (Red lights)	○	○	○
	Front / Rear blue light	○	○	○
	PDS (Pedestrian Detection System)	○	○	○
	Speed control (Travel speed limit)	○	○	○
Convenience	Room lamp with operator fan	○	○	○
	Authentication(AD)	○	○	○
	Auto tilt	○	○	○
	Load sensor	○	○	○
Tire	Alarm-travel	○	○	○
	Hi-MATE (Remote Management System)	○	○	○
	Solid uretan	●	●	●
Certification	Vulkollan	○	○	○
	UL-E	●	●	●
	UL-EE, ES	○	○	○
Oil	VG46	●	●	●
	VG68 for tropical	○	○	○
	VG15, VG32 for cold area	○	○	○
Other	Part toolkit	○	○	○