

Stand-up Counterbalance Trucks

# BCS-9U Series

15/18/20BCS-9U

3,000-4,000 lbs. capacity



**HYUNDAI**  
MATERIAL HANDLING



# NEW STAND-UP COUNTERBALANCE TRUCK WITH A DRIVER-FRIENDLY INTERIOR DESIGN

Hyundai's new 9-Series battery forklifts raise the bar for stand-up counterbalanced trucks, delivering all-day operator comfort, higher productivity, and easier serviceability.



## ERGONOMICALLY DESIGNED OPERATOR COMPARTMENT

The ergonomic, user-friendly control panel design features increased knee, back, and hip padding to enhance operator comfort and support.



## ENHANCED DRIVER COMFORT & STABILITY

The ergonomically redesigned joystick includes a fully adjustable armrest to improve control, comfort, and operator posture.



## ADVANCED SAFETY

Stable. Precise. Confident. Advanced braking and control systems sharpen handling, and built-in safety features help protect operators through every task.



\* Some photos may include optional equipment.

# OPTIMIZED ERGONOMICS

Built around the operator, the ergonomic cabin reduces fatigue and keeps productivity high. With a spacious compartment and intuitive controls, operators enjoy comfortable, natural operation through long shifts.



Accessory Switches

12V Power Socket

Cup Holder

Document Storage Box



## Strong Overhead Guard

The overhead guard meets ISO 6055 and applicable ANSI standards, helping protect the operator during hazardous work.



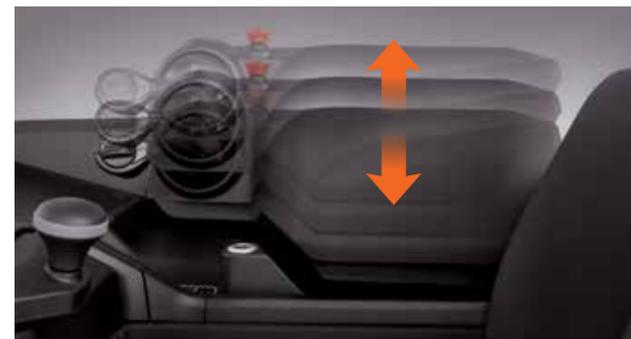
## Improved Cushion Pads

Built for constant in-and-out work: added front and side pads plus a refined 3-point support design improve protection and entry stability, delivering safer, more comfortable access all shift long.



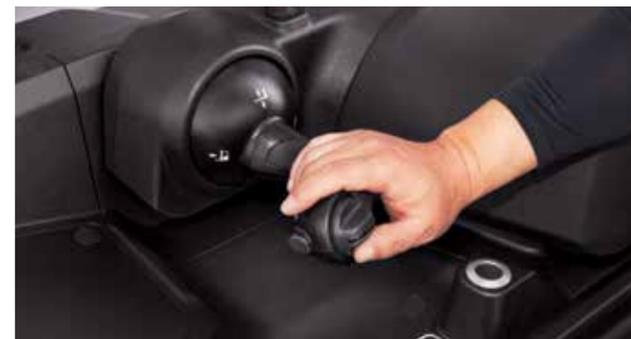
## Adjustable Armrest and Large Backrest

Comfort that lasts all shift: the ergonomically optimized, adjustable armrest pad provides secure support for operators of many sizes and driving styles.



## Joystick Lever

Work faster with less strain: the redesigned control handle delivers smooth, one-hand direction and speed control with minimal effort.



## Advanced LCD Monitor

The 3.5-inch color LCD monitor features a graphic smart display that provides real-time operating information to support efficient control and operation.



## Non-Slip Floormat

Sure footing all shift long: the anti-slip platform surface improves stability, reduces fatigue, and keeps operators comfortable.



## New Steering Wheel

A friction-based steering mechanism limits free play to improve control stability, reduce frequent corrections, and lessen arm strain over long shifts.



# SUPERIOR PERFORMANCE WITH ADVANCED SAFETY

Built for smooth, efficient performance, the 15/18/20BCS-9U Series combines reliable power, operator-focused ergonomics, and advanced safety features to keep work confident and precise in tough conditions.



### 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)

The 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.

### Dual Drive Motor & Auto Parking System

The 9-Series features a powerful, efficient dual drive motor for higher throughput and faster performance and electric disc brakes for emergency stopping and parking. The automatic parking brake engages when the pedal is released, and the pre-adjusted brake assemblies are designed for low maintenance.



### On-Demand Steering

The hydraulic steering motor activates only when the operator turns the steering, helping reduce steering noise and lower energy consumption.



### High Technology ZAPI Controller

The efficient, ultra-quiet 8 kHz high-frequency controller delivers smooth operation and includes built-in protections for low and high voltage, overheating, and fault logging.



### Drive Motor & Pump Motor

The AC motors are optimized for reliability, efficiency, and low noise while the temperature sensors monitor motor temperature to help protect components and extend service life.



### Travel Speed Limit (Optional)

The automatic speed limit above free-lift height (3.4 mph) helps improve stability and operator confidence when traveling with elevated loads.

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

### Anti-Rollback

This feature reduces rollback on slopes to improve safety and starting control on ramps and inclines.



# EASY, CONVENIENT MAINTENANCE

The 9-Series features service-friendly access points, including fuse box, diagnostic port, and cluster update port all positioned for quick maintenance and reduced downtime.

**Battery Disconnecter**



**Grease Fittings**



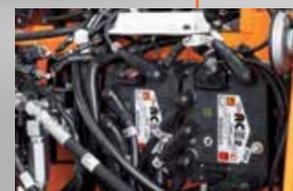
**Steering System**



**SBR Sensing Switch**



**Tank Filter**



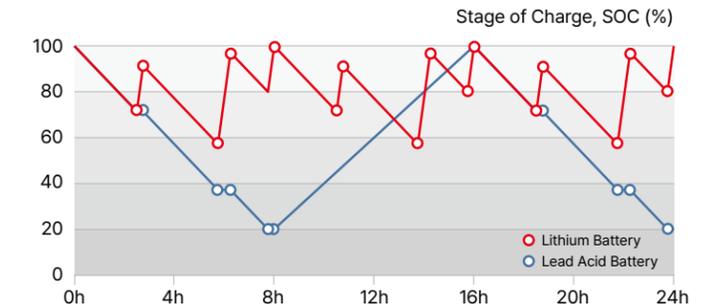
**Reliable ZAPI AC Controller**

The 9-Series offers options that can reduce maintenance and cut costs while increasing the productivity of your operation.

15/18/20BCS-9U

## Li-ion Battery (Optional)

The optional Li-ion battery offers rapid charging in as little as 2 hours, requires no watering, and its high energy efficiency can help reduce operating costs while delivering strong lift and travel performance.  
(Li-ion Battery Capacity : 36V/690Ah)



• Graph comparing the charge and discharge

## Easy Battery Replacement

The 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.

## SPECIFICATIONS (15/18/20BCS-9U)

IDENTIFICATION					
1.1	Manufacturer	Hyundai			
1.2	Manufacturer's type designation	15BCS-9U	18BCS-9U	20BCS-9U	
1.3	Drive: electric (battery or mains), diesel, gasoline, LPG, manual	Electric	Electric	Electric	
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker	Standing	Standing	Standing	
1.5	Load capacity / rated load	lb	3,000	3,500	4,000
1.6	Load distance, center of drive axle to fork	x (in)	18.0	18.0	18.4
1.9	Wheelbase	y (in)	45.35	45.35	48.11

WEIGHTS					
2.1	Service weight	lb	8,514	8,981	9,283
2.2	Axle loading, loaded front / rear	lb	9,823 / 1,691	11,003 / 1,552	11,636 / 1,646
2.3	Axle loading, unloaded front / rear	lb	4,380 / 4,133	4,411 / 4,510	4,554 / 4,729

WHEELS, CHASSIS					
3.1	Tires		Urethane	Urethane	Urethane
3.2	Tires size, front		18 x 7 x 12.2	18 x 7 x 12.2	18 x 7 x 12.2
3.3	Tires size, rear		10 x 5 x 6.5	10 x 5 x 6.5	10 x 5 x 6.5
3.5	Wheels, number front x rear (x=driven wheels)		2x / 1Dual	2x / 1Dual	2x / 1Dual
3.6	Track width, front	in	35	35	35
3.7	Track width, rear	in	7.12	7.12	7.12

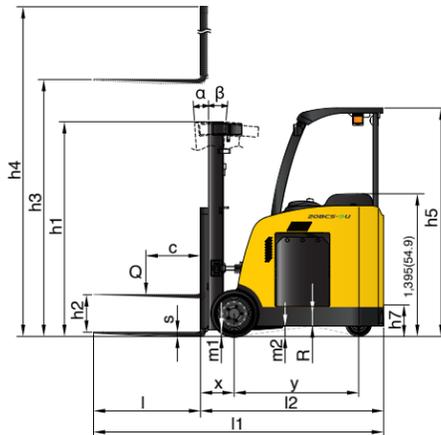
BASIC DIMENSIONS					
4.1	Mast/fork carriage tilt forward / backward	degrees	5 / 5	5 / 5	5 / 5
4.2	Lowered mast height	h1 (in)	83	83	83
4.3	Free lift	h2 (in)	34.6	34.6	34.6
4.4	Lift height	h3 (in)	186.6	186.6	186.6
4.5	Extended mast height	h4 (in)	234.5	234.5	234.5
4.7	Overhead load guard (low) height	h6 (in)	87.9	87.9	87.9
4.8	Seat height / standing height (SIP)	h7 (in)	7.87	7.87	7.87
4.19	Overall length	l1 (in)	109.33	109.33	112.08
4.20	Length to face of forks	l2 (in)	67.99	67.99	70.74
4.21	Overall width	b1 (in)	42	42	42
4.22	Fork dimension	H x W x L (in)	1.6 x 3.9 x 41.3	1.6 x 3.9 x 41.3	1.6 x 3.9 x 41.3
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)	37.4	37.4	37.4
4.31	Ground clearance, under mast	m1 (in)	2.48	2.48	2.48
4.32	Ground clearance, center of wheelbase	m2 (in)	3.94	3.94	3.94
4.35	Turning radius	wa (in)	55	55	57.75

PERFORMANCE					
5.1	Travel speed, loaded / unloaded	mph	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5
5.2	Lift speed, loaded / unloaded	ft / min	70.9 / 110.2	66.9 / 110.2	65 / 110.2
5.3	Lowering speed, loaded / unloaded	ft / min	94.5 / 84.6	94.5 / 84.6	94.5 / 84.6
5.6	Max. drawbar pull, loaded / unloaded	lb	2,866	2,866	2,866
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	5.7 x 2	5.7 x 2	5.7 x 2
6.2	Lift Motor Rating at S3 15%	hp	18.8	18.8	18.8
6.4	Battery Voltage, Nominal Capacity K5	V / Ah	36 / 700	36 / 700	36 / 700
6.5	Battery Weight	lb	2,381	2,381	2,712
6.7	Battery Compartment Dimensions L/W/H	in	38.7 x 18 x 32	38.7 x 18 x 32	38.7 / 20.7 / 32

ADDITIONAL DATA					
8.3	Sound Level at the Driver's Ear (DIN 12053)	db	70	70	70

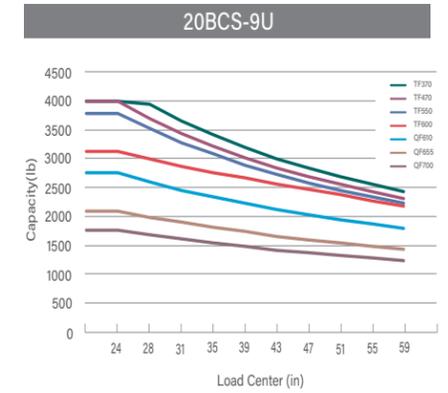
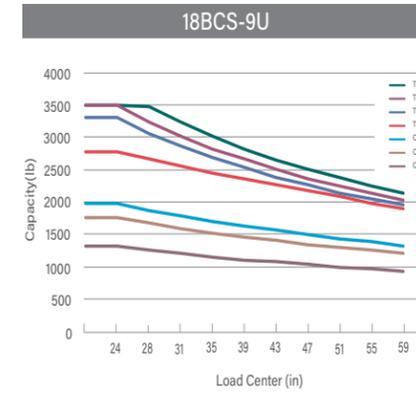
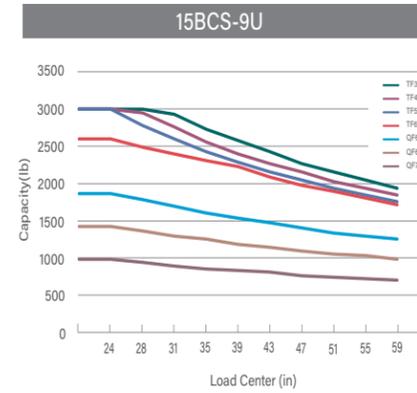
## DIMENSIONS



■ The Specifications in this brochure are subject to change for options.

■ The options in this brochure are subject to change to improve the performance of the forklift.

## LOAD CAPACITY



## STANDARD & OPTIONAL FEATURES

● STD / ○ OPT / - N/A

Model	Details	15BCS-9U	18BCS-9U	20BCS-9U
Battery	Lead-acid battery	36V 700Ah	36V 700Ah	-
	Lithium battery	36V 690Ah	36V 690Ah	36V 800Ah
	Side battery removal	●	●	●
Hydraulic	3 Spool	●	●	●
	4 Spool	○	○	○
	Tiltng - 5F/5B	●	●	●
Fork	Tiltng - 10F/5B, 5F/3B	○	○	○
	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	○	○	○
	Red Zone (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	○	○	○
	Alarm-travel	○	○	○
Tire	Hi MATE (Remote Management System)	○	○	○
	Solid urethane	●	●	●
Certification	Vulkollan®	○	○	○
	UL-E	●	●	●
Oil	UL-EE, ES	○	○	○
	VG46	●	●	●
	VG68 for tropical	○	○	○
Other	VG15, VG32 for cold area	○	○	○
	Part toolkit	○	○	○

## MAST SPECIFICATIONS (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)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC		
		in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
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
	TF600	237.8	6,040	102.3	2,598	54.4	1,381	82.4	2,093	5	5	2,600	1,180	2,420	1,100	8,774	3,980
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 SPECIFICATIONS (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)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC		
		in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
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
	TF600	237.8	6,040	102.3	2,598	54.4	1,381	82.4	2,093	5	5	2,770	1,260	2,770	1,180	9,182	4,165
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 SPECIFICATIONS (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)	
						With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC		
		in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
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
	TF600	237.8	6,040	102.3	2,598	54.4	1,381	82.4	2,093	5	5	3,130	1,420	2,950	1,340	9,544	4,329
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