

# 16/20BRJ-9

3,200 - 4,000 lbs. capacities

Electric Moving Mast Reach Truck

# HYUNDAI

MATERIAL HANDLING

NO ONE DELIVERS MORE

MORE PRODUCTIVITY  
MORE PROFITABILITY  
MORE PERFORMANCE  
TO HELP YOU EARN  
MORE PROFITS



## Get more of what you're looking for: THE BRJ-9 FROM HYUNDAI

Greater operator comfort, superior performance, enhanced safety, simplified servicing—the BRJ-9 is a moving mast reach truck built to deliver greater productivity with lower costs. Highly versatile, the BRJ-9 is also highly maneuverable and is engineered to smoothly lift, lower, and carry heavy loads throughout your facilities. The BRJ-9 also offers greater reliability and rugged durability to withstand and excel in even the most demanding applications.

The BRJ-9 is a seated moving mast reach truck that offers a combination of proven performance and advanced features all designed to bring out the best in your operators and your operation.



### FAST, EASY MAINTENANCE

The BRJ-9 minimizes downtime with simplified maintenance including a side battery removal assembly that makes replacing a battery quick and easy. Other features include greater access to key maintenance points, an easily accessible and compact fuse box, and a hinged hood that provides ready access to the controller, AC motor, and other key components.



### MAXIMUM OPERATOR COMFORT

The spacious cab is designed to maximize operator efficiency and reduce stress and fatigue during long shifts. It includes a fully adjustable suspension seat for all-day comfort. There is also a non-slip floor mat that dampens vibration and a balanced brake pedal design for smooth braking. Other amenities include cushioned headrest, cupholder, and generous storage.



### TIGHT TURNING RADIUS

The BRJ-9 features a compact profile allowing it to achieve a tight turning radius allowing operators to efficiently and easily navigate even the tightest aisles and narrowest spaces. To help you move more loads more quickly over uneven or sloped surfaces, it also offers an outstanding gradeability range from 11-13% with a max speed of 8.7 mph.



### MULTIFUNCTION DASH DISPLAY OPTIMIZES PERFORMANCE

This advanced digital system displays essential operational information in real time. It includes buttons for easy setting of travel speed and most operating speeds to match work conditions. You'll find innovations everywhere:

- Onboard diagnostics, data logging, safety features, and maintenance tracking keep your operators and technicians fully informed
- Speed, direction, and operating hours are clearly shown
- Choose from High, Normal, Economic, and Turtle modes



### ERGONOMIC FINGERTIP HYDRAULIC CONTROL

The convenient control levers deliver precise lifting and lowering with minimal effort and offer control of the travel function and horn with just one hand. It's a system engineered for superior handling with less effort:

- The BRJ-9 offers a tight turning radius to navigate narrow aisles and maximize your space utilization
- To move loads over uneven or sloped surfaces, the BRJ offers excellent gradeability with fast travel speeds
- Optimized cylinder arrangement assures excellent visibility



### ERGONOMIC STEER HANDLE

The steer handle is coupled with a power steering system that provides smooth, precise steering for greater maneuverability.



### STRONG OVERHEAD GUARD

The durable guard meets ISO 6055 and ANSI regulations to help safeguard operators working in tough or hazardous environments.

## The BRJ-9 brings you even more advantages.

- Hill assist control prevents the machine from rolling back after coming to a stop on inclines or declines
- Efficient, optimized AC drive and pump motors ensure greater reliability with low noise levels
- Curve control reduces the risk of the operator exceeding the safe speed of the forklift while negotiating turns
- Electromagnetic load wheel brake provides enhanced brake torque and stability
- Optional load weight indicator includes an audible and visual alarm should the load exceed the rated capacity of the forklift
- High-tech ZAPI controller delivers smooth, quiet operation, with protection for low and high voltage and overheating
- Automatic center position returns the drive wheel to the center position when starting up the unit
- Optional fork camera with an LCD monitor can be installed to improve safety when working with tall racks
- Optional auto fork leveling system helps protect loads and improves productivity

# HiMATE



## ONLY HYUNDAI OFFERS YOU SUCH A COMPREHENSIVE, FULLY INTEGRATED TELEMATICS SYSTEM.

Hi-Mate works by collecting key data from sensors mounted to your equipment that track operation of the forklift, relaying that information to your computer or mobile device in real time. By monitoring key components, such as the engine, electric system, and hydraulics, Hi-Mate can help you evaluate machine and operator performance, create preventive maintenance programs, and help you minimize downtime as you maximize productivity.

**Equipment operation management**

Real-time monitoring and follow-up management of individual pieces of equipment or equipment fleet deliver essential operational status and information, including:

- Key-on time, travel hours, work hours, and GPS location

**Equipment status management**

Vital diagnostic and maintenance data is relayed as alerts, while Hi-Mate Premium provides tracking of pre-shift checklists to help reduce downtime and ensure OSHA compliance:

- Alerts are sent for DTCs, system warning, and required maintenance

**Safe traveling control**

An impact monitor provides alerts, accountability, and follow-up management of safety incidents involving equipment during operation:

- The system logs the number and severity of impacts as well as the operator who was logged into the unit at the time of the incident

**Human resource management**

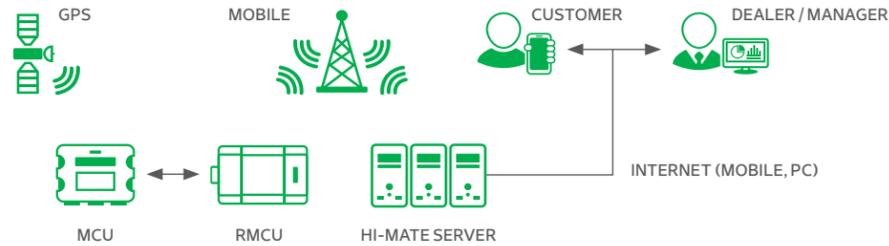
Hi-Mate Premium can control who operates equipment via a pin pad and RFID reader:

- Provided information can be used to evaluate productivity, efficiency, and workforce safety
- Tracking the weight load indicator captures operator productivity

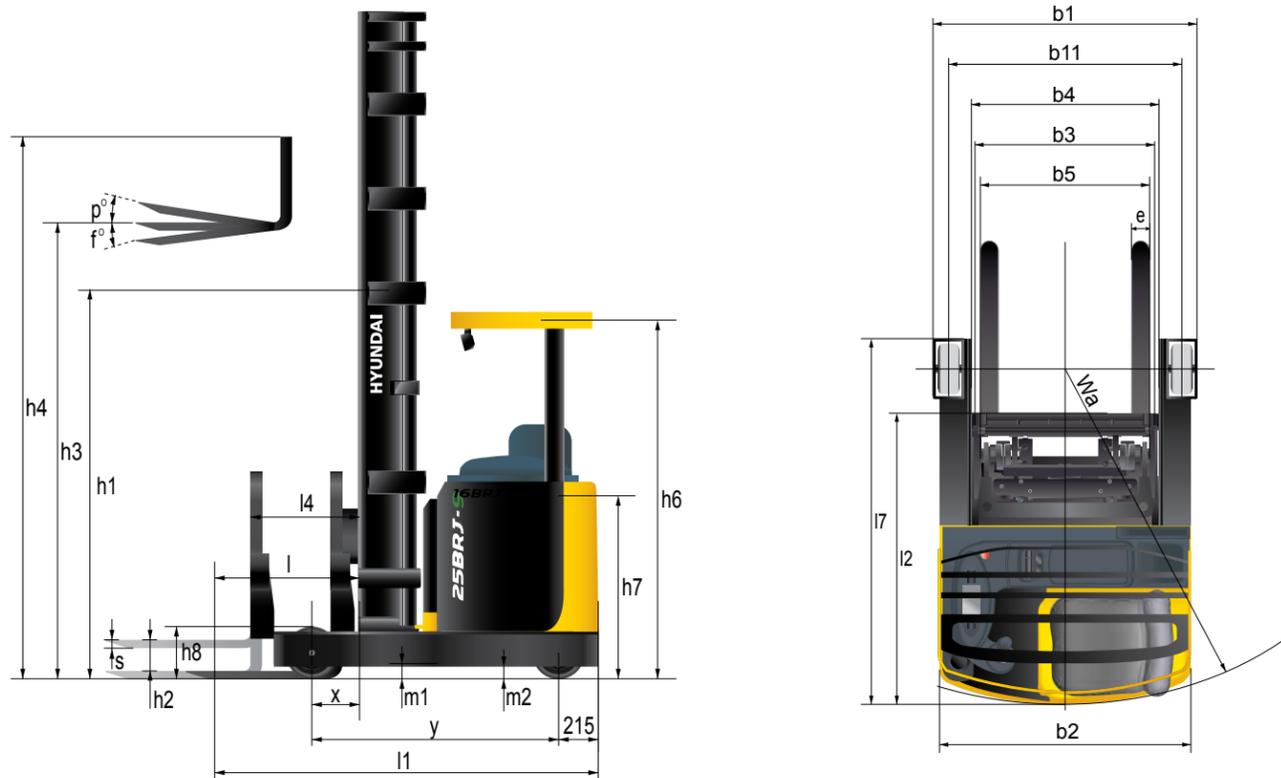
### HI-MATE MANAGEMENT SYSTEM

Hi-Mate is one of the industry's most advanced remote management system. With continuous data collection, Hi-Mate delivers more communication, control, and ability to track, monitor, maintain, and manage your forklift fleet. It is the proven way to efficiently coordinate both your equipment and human resources.

#### Data Flow



### Dimensions



### Specifications

Identification					
1.1	Manufacturer				
1.2	Model: Manufacturer's Designation			16BRJ-9	20BRJ-9
1.3	Power supply: electric, diesel, gas, LPG, manual			Electric	Electric
1.4	Load Capacity / Rated Load		lb	3,200	4,000
1.5	Load Center Distance		Q	in	24
1.6	Load Distance, Center of Drive Axle (loadwheel) to Fork		c	in	14.3
1.8	Operator Type		x	Seated	Seated
1.9	Wheelbase		y	57.5	59.8
Weights					
2.1	Service weight (including battery)		lb	7,185	8,375
2.3	Axle loading, reach in, unloaded front (drive)/rear (load)		lb	4,442 / 2,743	4,954 / 3,421
2.4	Axle loading, reach out, loaded front (drive)/rear (load)		lb	1,345 / 9,367	1,391 / 11,394
2.5	Axle loading, reach in, loaded front (drive)/rear (load)		lb	3,871 / 6,841	4,200 / 8,587
Wheels, Chassis					
3.1	Tires (solid rubber, superelastic, pneumatic, polyurethane)		in	PE	PE
3.2	Tire size, front		in	13.6 x 5.5	13.6 x 5.5
3.3	Tire size, rear		in	13 x 4	14 x 4.2
3.5	Wheels, numbers (x=driven wheels), front(drive)/rear(load)		in	1 x / 2	1 x / 2
3.6	Track width, front (drive)		b10	in	0
3.7	Track width, rear (load)		b11	in	45.2
Basic Dimensions					
4.1	Mast / fork carriage tilt forward / backward		deg	2 / 5	2 / 5
4.2	Lowered mast height		h1	in	93.3
4.3	Free lift (without backrest)		h2	in	69.3
4.4	Lift height		h3	in	208.9
4.5	Extended mast height (without backrest)		h4	in	228.8
4.7	Overhead load guard (cab) height		h6	in	83.3
4.8	Seat height / standing height		h7	in	40.9
4.10	Height of wheel arms		h8	in	12.8
4.19	Overall length (reach in, fork end)		l1	in	98.9
4.20	Length to face of forks (reach in)		l2	in	51.6
4.21	Overall width		b1 / b2	in	50.4 / 50
4.22	Fork dimensions (hook type)		L x W x H	in	47.2 x 3.9 x 1.6
4.23	Fork carriage ISO 2328, class / type A, B				2A
4.24	Fork-carriage width		b3	in	31.5
4.25	Overall fork width		b5	in	28.8
4.26	Distance between support arms		b4	in	37.5
4.28	Reach stroke		l4	in	22.2
4.31	Ground clearance, loaded, under mast		m1	in	4.2
4.32	Ground clearance, center of wheelbase		m2	in	3.4
4.33	Aisle width for pallets 1000 x 1200 crossways		Ast	in	108.7
4.34	Aisle width for pallets 800 x 1200 lengthways		Ast	in	111
4.35	Turning radius		Wa	in	66.3
4.37	Length across wheel arms		l7	in	73.2
Performance					
5.1	Travel speed, unloaded		mph	8.7	8.7
5.2	Lift speed, loaded / unloaded		fpm	73 / 114.2	59 / 92.5
5.3	Lowering speed, loaded / unloaded		fpm	99 / 89	99 / 89
5.6	Max. drawbar pull, loaded/ unloaded S2 5min		lb	570 / 600	710 / 750
5.8	Max. gradient performance, loaded/ unloaded S2 5min		%	12 / 18	12 / 19
5.10	Service brake			Electric	Electric
E-Motor					
6.1	Drive motor rating S2 60min		hp	10	10
6.2	Lift motor rating at S2 5min		hp	19	19
6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no			DIN43531	DIN43531
6.4	Battery voltage, nominal capacity K5		V / Ah	48 / 420	48 / 500
6.5	Battery weight (min)		lb	1,653.5	2,072.4
	Battery compartment dimensions		L x W x H	in	48.5 x 11.1 x 31
Additional Data					
8.1	Type of drive control			AC Mosfet	AC Mosfet
8.2	Operating pressure for attachments		psi	2,470 / 2,030	2,470 / 2,030
8.3	Oil volume for attachments		gpm	12	12
8.4	Sound level at driver's ear according to DIN 12 053		db	70	70

16BRJ-9										
Mast Type		Maximum Fork Height	Overall Height (Lowered)	Overall Height Lifted		Tilt Angle Fwd/Rev		Tilt Angle Fwd / Bwd		Truck weight Unloaded
				w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	Fwd	Bwd	
				16BRJ-9						
		in	in	in	in	in	in	deg	deg	lbs
3-Stage Full Free Lift	TF430	107.9	79.1	244.4	190.8	38.5	56.0	2	5	6,991
	TF470	186.6	85.0	227.2	206.5	44.4	61.9	2	5	7,083
	*TF530	208.9	92.4	249.4	228.8	51.9	69.3	2	5	7,185
	TF550	218.1	96.8	258.7	238.0	56.3	73.7	2	5	7,273
	TF600	237.8	104.7	278.3	257.7	64.1	81.6	2	5	7,401
	TF650	257.5	112.6	298.0	277.4	72.0	89.4	2	5	7,811
	TF700	275.8	118.7	316.4	295.7	78.1	95.5	2	5	7,875
	TF750	295.5	122.3	336.1	315.4	81.7	99.2	2	5	7,932
	TF800	315.2	130.2	355.7	335.1	89.6	107.0	2	5	8,069
	TF850	334.9	136.7	375.4	354.8	96.2	113.6	2	5	8,265
	TF900	354.6	143.3	395.1	374.5	102.8	120.2	2	5	8,377
	TF950	374.3	149.9	414.8	394.2	109.3	126.8	2	5	8,490
	TF1000	393.9	157.8	434.5	413.9	117.2	134.6	2	5	8,680
TF1050	413.6	164.3	454.2	433.5	123.8	141.2	2	5	8,792	

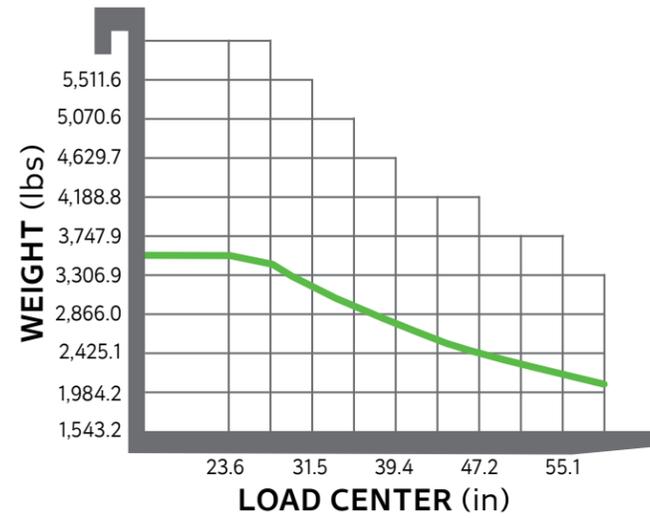
\* Standard

20BRJ-9										
Mast Type		Maximum Fork Height	Overall Height (Lowered)	Overall Height Lifted		Tilt Angle Fwd/Rev		Tilt Angle Fwd / Bwd		Truck weight Unloaded
				w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	Fwd	Bwd	
				20BRJ-9						
		in	in	in	in	in	in	deg	deg	lbs
3-Stage Full Free Lift	TF430	169.5	80.2	212.8	195.8	36.8	53.8	2	5	8,190
	TF470	185.2	86.1	228.6	211.6	42.7	59.7	2	5	8,280
	*TF530	208.9	93.9	252.2	235.2	50.6	67.9	2	5	8,375
	TF550	224.6	99.2	268.0	250.9	55.8	72.8	2	5	8,472
	TF600	248.2	108.0	291.6	274.6	64.7	81.7	2	5	8,607
	TF650	264.0	113.3	307.3	290.3	69.9	86.9	2	5	9,039
	TF700	275.8	117.2	319.1	302.1	73.9	90.9	2	5	9,112
	TF750	295.5	123.8	338.8	321.8	80.4	97.4	2	5	9,233
	TF800	315.2	131.3	358.5	341.5	88.0	105.0	2	5	9,372
	TF850	334.9	137.9	378.3	361.3	94.6	111.6	2	5	9,594
	TF900	354.6	144.5	398.0	380.9	101.1	118.1	2	5	9,716
	TF950	374.4	151.1	417.7	400.7	107.7	124.7	2	5	9,839
	TF1000	394.0	158.6	437.3	420.3	115.3	132.3	2	5	9,978
	TF1050	413.7	165.2	457.0	440.0	121.9	138.9	2	5	10,203
	TF1100	433.3	171.8	476.7	459.7	128.4	145.4	2	5	10,318
	TF1150	453.0	179.3	496.4	479.4	136.0	153.0	2	5	10,456
TF1200	472.7	185.9	516.1	499.1	142.6	159.6	2	5	10,578	

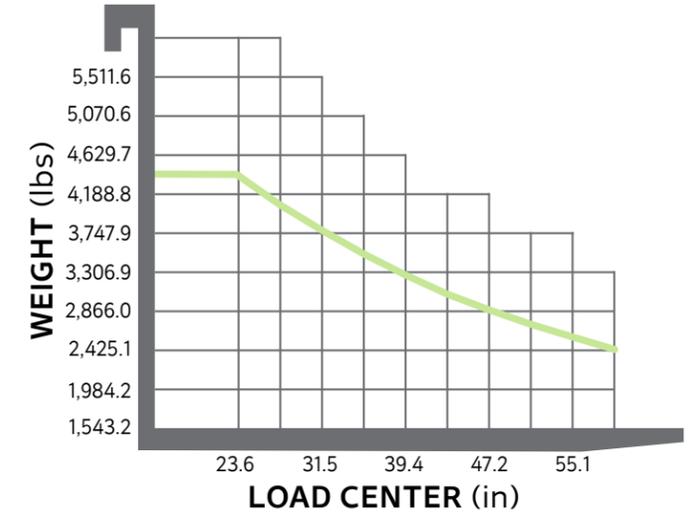
\* Standard

### Load Capacity

16BRJ-9



20BRJ-9



### Battery Weight

MODEL	MAST	BATTERY WEIGHT
16BRJ-9	TF530	1,653.5 lbs
20BRJ-9	TF530	2,072.3 lbs



### 16/20BRJ-9 COMES WITH OUR BEST-IN-CLASS WARRANTY

When you build better equipment, you can back them better. That's why Hyundai forklifts come with a 3-year, 4,000-hour warranty that sets a new standard for overall lowest cost of ownership.

## Options

### Sideshift — Max 5.5 in

#### Fork Length (in)

14/16BRJ-9	20/25BRJ-9
• 35.4	• 39.4
• 37.4	• 41.3
• 39.4	• 47.2
• 41.3	• 53.1
• 45.3	• 59.1
• 47.2	• 65.0
• 53.1	• 70.9
• 59.1	
• 63.0	

### Fork Height Indicator and Preselector

#### Auto Tilt Leveling

#### Load Indicator

#### Tire

- Urethane (STD)
- Vulkollan (OPT)

#### Battery Charger

- 3 phases: 220 / 380V, 410V, 440V

### Joystick Lever

#### Seat:

- Fabric (STD),
- PVC (OPT)

### Cold Storage Conditioning

#### UL

- ESRating

### Beacon Lamp (LED / Bulb)

- Amber
- Blue
- Red

### Work Lamp (LED)

### Rear Lamp (LED / Bulb)

### Fork Camera, Carriage Camera

### Safety Speed Lock

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