

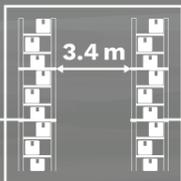


Bravo Electric Forklift 1.5 tonne - 2 tonne

Performance of Diesel, Savings of Electric

EXPERIENCE TWIN MOTOR TECHNOLOGY

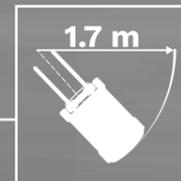
Each front wheel is driven by an independent motor and an integrated gearbox. Synchronised controllers create an electronic differential. Combined with a specially designed steer axle, the Bravo Electric forklift delivers class leading turning performance. Twin Motors deliver acceleration and speed similar to a diesel forklift.



Saves 11% aisle width allowing for more pallet positions compared to other 4 wheel forklifts



0 to 15 kmph in less than 5 seconds. High acceleration significantly improves productivity even while working over short distances



Class leading turning radius of 1.7m - perfect for working in tight spaces



10% faster operations compared to single motor electric forklifts



20% gradeability; matches diesel forklift

SAFER FORKLIFTS MAKE FOR A SAFER OPERATING ENVIRONMENT



EFFECTIVE AND SAFE WET DISC BRAKES

- Requires lower braking effort, decreasing operator fatigue during operations that require frequent braking
- More responsive, lessening stopping distance
- Faster heat dissipation with a sealed oil-cooled system and high quality friction material
- Longer service interval of 6000 to 8000 hours, improves equipment availability and productivity
- Godrej Material Handling is the only Indian manufacturer to offer wet disc brakes



OPERATOR PRESENCE SENSING (OPS)

- OPS system detects if the operator is seated correctly and the seatbelt is fastened properly; both, when starting the truck and during operations to prevent unmanned and unsafe operations
- Halts all hydraulic and driving operations, if the operator is incorrectly seated



AUTOMATIC SPEED REDUCTION WHILE TURNING

- Smart Curve Control technology automatically reduces the speed of the forklift by up to 30% around turns, enhancing stability and safety



ANTI-ROLLBACK SYSTEM

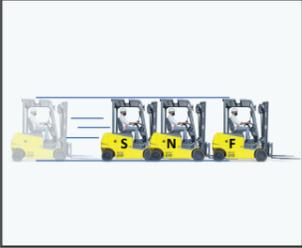
- Anti-Rollback system holds the truck on the slope for 3 secs, even after the operator has released the brake pedal. This gives the operator enough time to accelerate and climb the slope. If left alone, the forklift will gradually creep down the slope

EXPERIENCE THE UNMATCHED EFFICIENCY OF BRAVO



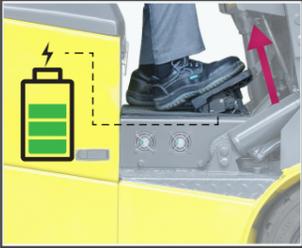
ENERGY EFFICIENT ELECTRIC MOTORS

Indigenous AC motors designed and developed for Indian operating conditions, requiring zero maintenance



3 MODES OF OPERATION

Choose between three different speed modes - Slow, Normal or Fast based on application and operator skill



SMART ENERGY USAGE

On release of the accelerator pedal, regenerative braking charges the battery, leading to more efficient energy performance



ONE BATTERY, TWO SHIFT OPERATIONS

With the highest battery option of 756Ah, the Bravo can operate for two shifts without requiring a change of battery



OPTIMISED COOLING SYSTEM

Thoughtfully placed cooling fans ensure heat removal from areas housing critical components like controllers and hydraulic pump/motor



ENERGY SAVING LED LIGHTS

Bright LED lights provide reliable and intense illumination of the working area with low energy consumption

BUILD OPERATOR CONFIDENCE WITH IMPROVED ERGONOMICS



ERGONOMICALLY DESIGNED DRIVER MODULE

Operating touch-points such as control levers, steering wheel and pedals are ergonomically positioned around the adjustable seat to make even long operating hours comfortable and fatigue free



IMPROVED VISIBILITY

Redesigned I - section mast and overhead guard improves visibility by 10% - safer operations



CUSHIONED LIFT CYLINDERS

Cushioned lift cylinders ensure smooth mast stage change while lifting and lowering of the load and thus ensuring safety of workspace



INTERACTIVE DISPLAY

Interactive LCD screen shows vital information of all key parameters like speed, temperature, steering position, battery life and fault codes- which assist in fault diagnostics, enabling informed decisions.



MOTOR OVERHEATING SENSORS

In the unlikely event of motors overheating, sensors detect the abnormal temperature rise beyond optimal value and halt all operations, preventing failures



EASY INGRESS AND EGRESS

The low entry step, high overhead guard clearance and three-point contact, ensures that the operator gets on and off the forklift truck safely



LIFT LOCKOUT

Lift lockout disables lifting function at 20% battery charge level, allowing truck to reach to the charging station. Prevents deep discharge of battery

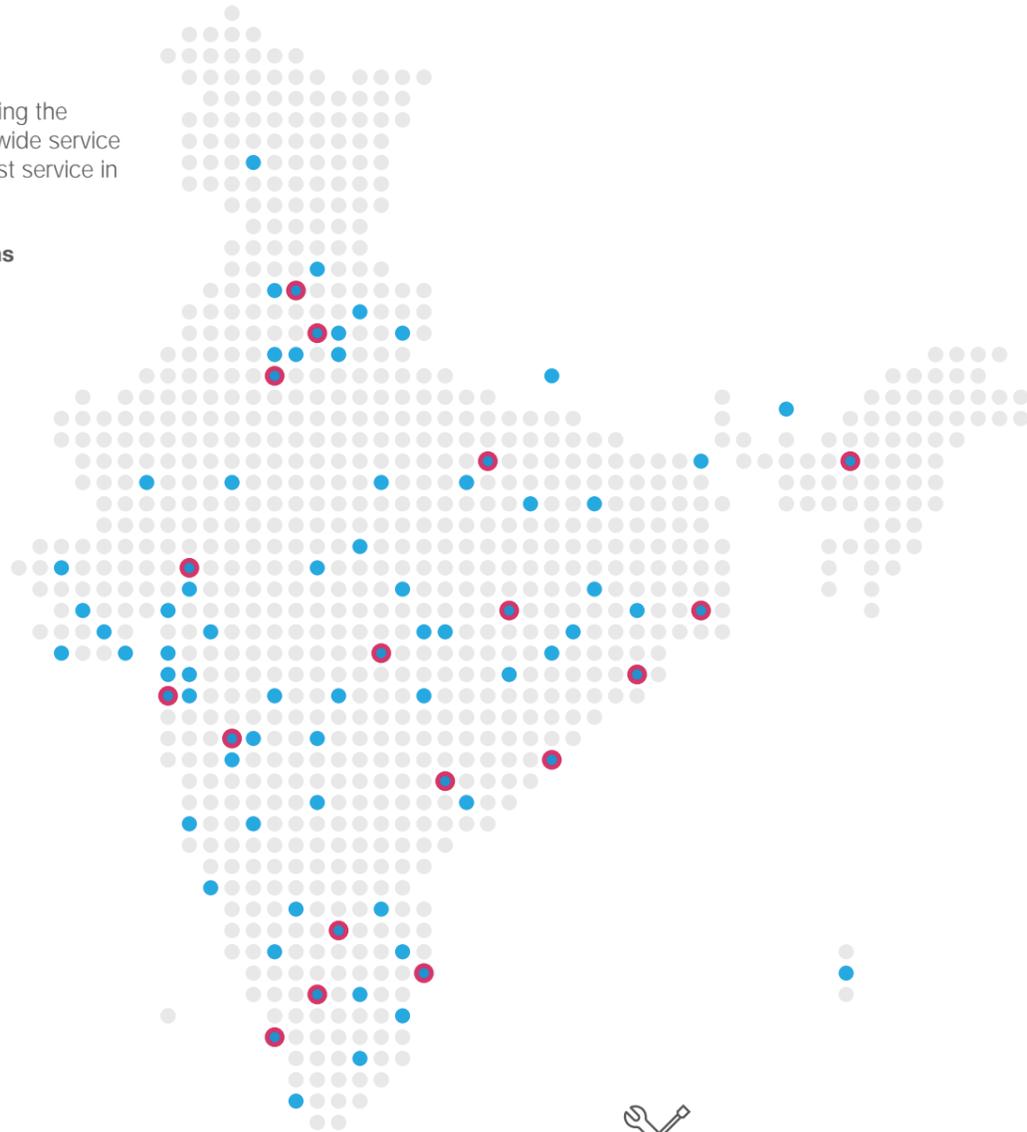
EASY SERVICEABILITY



LOCATION NO BAR

No matter where you are using the Bravo Electric Forklifts, our wide service network assures you the best service in the shortest possible time.

- Branch and Dealer locations
- Dealer locations



SPARE PARTS, ANYWHERE

Our extensive service network, of over 70 touch points, assure your business easy availability of quality spares.



SUPER EASY PREVENTIVE MAINTENANCE

Easy access to sub-assemblies and main aggregates for better serviceability.

OFFERINGS AND ACCESSORIES

STANDARD OFFERINGS

- 15kW AC Lift Motor; Twin 6.5kW AC Drive Motors with Electronic Differential
- Adjustable Steering Column
- Electronic controllers with Built-In Diagnostics
- Hydrostatic Power Steering
- LED Lights Module (Head Lights, Tail Lights, Signal Lights and Spot Light), Reverse Alarm, Rear View Mirrors and Retractable Seat Belt
- Multifunctional LCD Display
- One Pair of Standard 1000mm Hook-On Forks
- Operator Presence Sensing (OPS)
- Solid Cushion tyres
- Toolkit, Tarpaulin canopy on overhead guard roof
- Lead Acid Battery – 48V/460Ah
- Wet Disc Brakes with Regenerative Braking

OPTIONAL OFFERINGS

- Auto Refill System
- Battery Changing Trolley
- Battery Options – 48V/560Ah; 48V/648Ah; 48V/756Ah
- Bolt-On, Epoxy Coated Battery Container with Blinky
- Load Back Rest
- Long Forks – 1200mm or 1600mm
- Non-Marking Solid Tyres

ADDITIONAL SAFETY ACCESSORIES

1. All-In-One Access Control
 - Electronic Pin Access
 - Biometric Access Control
 - Key Card Access
2. Overload Alarm
3. Safety Lights
 - Red Halo Safety Lights
 - Blue Safety Lights
 - Reverse Spotlight
 - Emergency Flashing Light

ATTACHMENTS

- Paper Roll Clamp
- 1200mm Coil Handling Ram
- Bale Clamp
- Push/Pull Attachment
- Fork Mounted Crane
- Carriage Mounted Crane
- Parrot Beak Attachment
- Prong Attachment for Drum Handling
- Rotating Fork Attachment
- Side Shifter
- Fork Positioner
- Fork Extensions

TECHNICAL SPECIFICATIONS

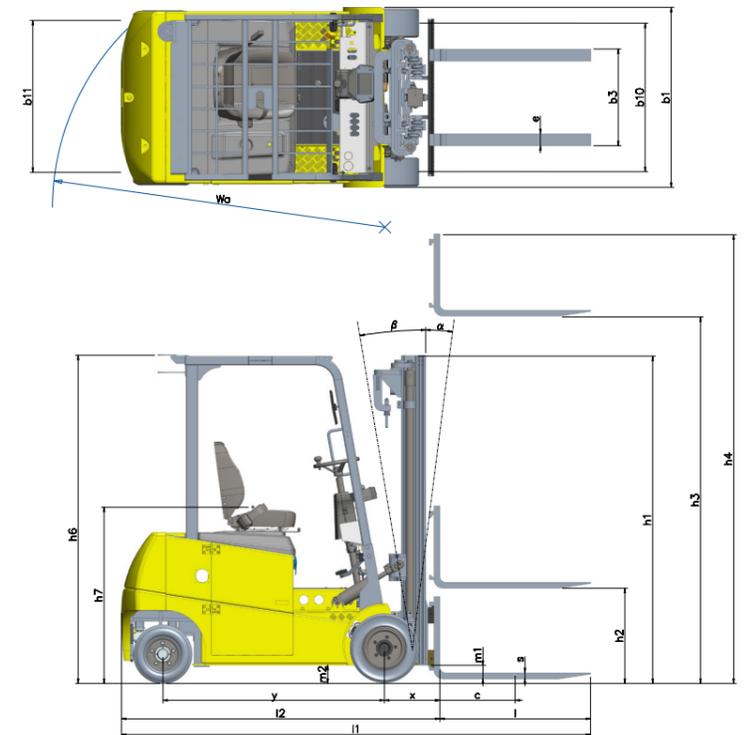
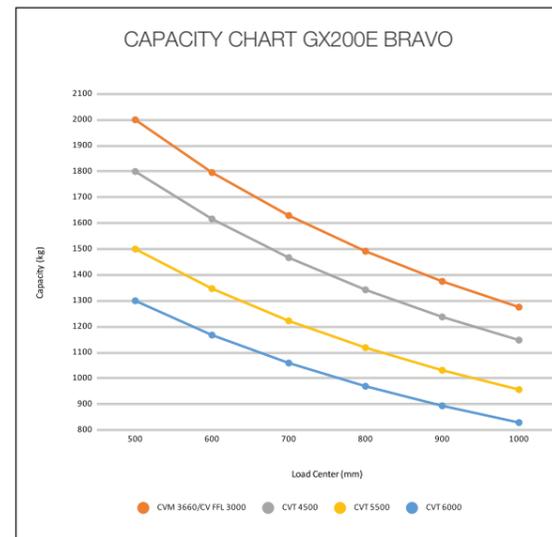
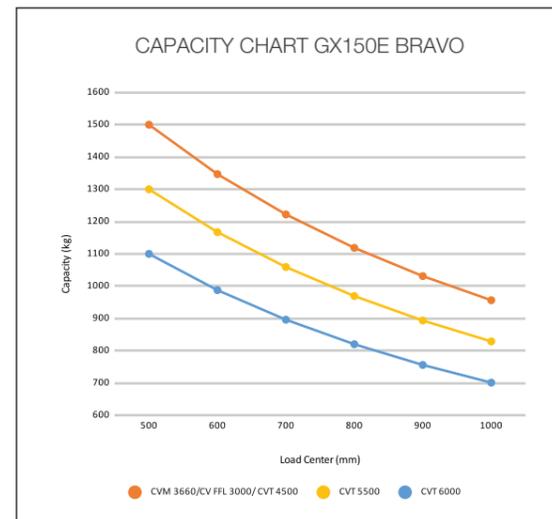
TECHNICAL SPECIFICATIONS					
DISTINGUISHING MARK	1.1	Manufacturer	-	Godrej	Godrej
	1.2	Model	-	GX150E BRAVO	GX200E BRAVO
	1.3	Drive (Battery, Diesel, Petrol)	-	Battery	Battery
	1.4	Operation (Manual, Pedestrian, Standing, Seated)	-	Seated	Seated
	1.5	Rated capacity/rated load	kg	1500	2000
	1.6	Load centre distance	c (mm)	500	500
	1.8	Load distance (Front overhang)	x (mm)	380	380
	1.9	Wheelbase	y (mm)	1470	1470
	WEIGHT	2.1	Service weight incl. battery	kg	3650
2.2		Axle loading, laden front/rear	kg	5075/575	5075/575
2.3		Axle loading, unladen front/rear	kg	1905/1745	1905/1745
TYRES, CHASSIS	3.1	Tyres	-	Solid	Solid
	3.2	Tyre size, front	mm	200/50-10	200/50-10
	3.3	Tyre size, rear	mm	140/55-9	140/55-9
	3.5	Wheels, number front/rear (x = driven wheels)	-	2x/	2x/
	3.6	Tread, front	b10 (mm)	984	984
	3.7	Tread, rear	b11 (mm)	1015	1015
	DIMENSIONS	4.1	Tilt of mast forward/backward	α/β (deg)	5/6
4.2		Height, mast lowered	h1 (mm)	2512	2512
4.3		Free lift	h2 (mm)	-	-
4.4		Lift	h3 (mm)	3660	3660
4.5		Height, mast extended*	h4 (mm)	4353	4353
4.7		Height of overhead guard (Cabin)	h6 (mm)	2150	2150
4.8		Seat height (SIP)	h7 (mm)	1153	1153
		Coupling height	h10 (mm)	575	575
4.19		Overall length	l1 (mm)	3120	3120
4.20		Length to face of forks	l2 (mm)	2120	2120
4.21		Overall width	b1 (mm)	1194	1194
4.22		Fork dimensions	s/e/l (mm)	40x80x1000	40x80x1000
4.23		Fork carriage DIN15173, class/type A, B	-	2A	2A
		Fork carriage width	b3 (mm)	1040	1040
4.31		Ground clearance, laden, below mast	m1 (mm)	115	115
4.32	Ground clearance, centre of wheelbase	m2 (mm)	105	105	
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3440	3440	
4.35	Turning radius	Wa (mm)	1770	1770	
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	15/15	15/15
	5.2	Lift speed, laden/unladen	m/s	0.36/0.50	0.36/0.50
	5.3	Lowering speed, laden/unladen	m/s	0.45/0.45	0.45/0.45
	5.5	Drawbar pull, laden/unladen S2 60 min	N	4800/5100	4800/5100
	5.6	Max. drawbar pull, laden/unladen S2 5min	N	9200/9200	9200/9200
	5.7	Gradeability, laden/unladen	%	15/21	15/21
	5.8	Max. gradient performance, laden/unladen S2 5min	%	20/23	20/23
	5.9	Acceleration time, laden/unladen	s	4.8/4.8	4.8/4.8
	ELECTRIC ENGINE	6	Drive motor rating S2 60min	kW	6.5x2
6		Lift motor rating at S3	kW	15	15
6.4		Battery voltage, nominal capacity K5	V/Ah	48/460	48/460
6.5		Battery weight	kg	745	745
OTHERS		8.1	Type of drive control	-	Twin AC
	8.11	Service brake	-	Wet Disc Brakes	Wet Disc Brakes
	8.12	Working pressure for attachment	bar	195	195

* Overall Height Raised with Load Back Rest = OAHF w/o LBR + 600mm

NOTE:

All dimensions and specifications indicated are subjected to a variation of $\pm 10\%$ without prior notice
The images shown in the brochure are representative, actual equipment may differ in colour and optional accessories

MAST SPECIFICATIONS								
Type of Mast	Maximum Fork Height (MFH)	Overall Height Lowered	Overall Height Raised*	Free Lift	Derated Capacity of MFH (kg)		Tilt Angles	
					h3 (mm)	h1 (mm)	h4 (mm)	h2 (mm)
					GX 150E	GX 200E		
2 Stage CV	3660	2512	4353	-	1500	2000	5	6
2 Stage with FFL	3000	2182	3612	1570	1500	2000	5	6
	4500	2155	5171	1484	1500	1800	5	6
3 Stage with FFL	5500	2485	6167	1818	1200	1500	5	6
	6000	2655	6671	1984	1000	1300	5	6





VARIOUS FINANCE OPTIONS AVAILABLE

- Equipment finance
- Lease finance
- Rentals



MATERIAL HANDLING

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