

Enabling Productivity, Precision and Energy Efficiency



75+
years of
experience



4 million
motors

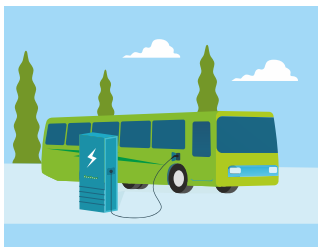


12,000+
servo solutions



35,000
gearless
machines
for elevators

KEB's T6 Drive for Electric Vehicles



Under its updated climate pledge under the 2015 Paris Agreement, India has committed to reduce the "emissions intensity" of its GDP to 45% below 2005 levels by 2030. One of the major steps taken by the Government of India towards bringing about this change is a policy emphasis on Electric Vehicles (EVs).

EVs are the future of sustainable transportation, and can help tackle both air and noise pollution while safeguarding against the volatility of crude oil prices and availability.

Through the implementation of FAMEII (Faster Adoption and Manufacturing of [Hybrid] and Electric Vehicles in India) scheme, along with the PLI (Production Linked Incentive) scheme, the Government plans to encourage a shift to electric mobility by narrowing the gap between prices of traditional internal combustion (IC) engine vehicles and EVs. With cost of ownership becoming less of a barrier, moving to electric mobility will make greater economic sense, and the Government hopes for faster adoption.

To support this initiative, Bharat Bijlee has recently introduced KEB's COMBIVERT T6 multi-inverter system, which is especially designed for auxiliary components in commercial vehicle applications. Rather than being coupled to the IC engine, auxiliary components such as air conditioning, air compressors, hydraulic pumps for steering and door operation, and ventilators are now managed by the T6. In conventional urban transport vehicles up to 30% of energy can be consumed purely by auxiliaries, and converting to electric auxiliary drives means improved energy efficiencies and greater controllability. All T6 drive components are automotive qualified in accordance with automotive thermal and vibration standards, environmental conditions, EMC, safety and service life.

Unique Features of T6:

- Compact – provides significant space, wiring and cost savings.
- Wide band of operating voltage (from 200-820 Vdc).
- IP67, IP6K9K protection for harsh environments.
- Each inverter axis supports the operation of a variety of motor types, including induction, synchronous PM, switched reluctance, or linear.
- Common-mode DC EMI filters are integrated internally to ensure high reliability in electronics systems environments.
- High voltage interlocks loop protection – a big requirement for the EV vehicle.
- An embedded main control unit (MCU) supports a CODESYS programming environment for intelligent system control.
- Closed-loop speed, torque, and positioning performance without encoder feedback using the SCL sensorless control algorithm.

To know more about this solution, write to us at drivesales@bharatbijlee.com or visit <https://tinyurl.com/2e7n3k3m>



DID YOU KNOW?

Our current range of elevator gearless machines has a long pedigree, going back to the elevator traction machines we manufactured for our Olympus elevators: geared single, two-speed, ACVV machines, and compact monobloc G140 machine (pictured below) that we developed jointly with Elecon Engineering 22 years ago.



Bharat Bijlee is synonymous with electrical engineering in India. Our key business lines are Power Systems (Power Transformers, EPC Projects) and Industrial Systems (Motors, Drives & Automation, Magnet Technology Machines). Headquartered in Mumbai, we have sales and service network across India. The company's manufacturing facilities are located in Airoli, Navi Mumbai on a 1,70,321 sqm. campus.

Partner Spotlight



R Srinivasa Murthy
Managing Director
M/S Lasa Engineers
Bangalore

Lasa Engineers was founded by R Srinivasa Murthy, the company's Managing Director, along with his wife Nagalakshmi S., in 1984 in Bangalore.

Catering to steel, cement and mining sectors, the company's focus area is the crane industry and OEMs specializing in material handling in Karnataka. The range of products they offer include crane duty motors, slip ring motors and brake motors. 60% of the company's business comes from large OEMs and 40% from retail.

Lasa Engineers' association with BB began in 2004. In the last decade, Srinivasa has seen BB go through many changes. He has witnessed our product development

efforts align as per market needs, with co-operation from the dealer network. Given his trust in the company, Srinivasa continuously takes guidance from the BB team on the roadmap for growth.

Lasa Engineers is an exclusive dealer in Karnataka for crane duty and brake motors, growing their business year on year with BB's support. To them, the BB team is easily approachable – providing technical support on documents, getting project approvals (NTPC), and conducting technical seminars at customer sites. Our regular updates on new product development helps Lasa give timely information to its OEM customers.

Lasa Engineers' goal is to continue its strong association with BB by providing prompt supply and service to their customers. With BB's support, Srinivasa looks forward to expanding business operations with standard and non-standard crane duty motors in and around Karnataka.



Snehav Gupta
Proprietor
M/S Magna Metal
Chandigarh

Magna Metal is one of the recent additions to our dealer partner list, having joined our network in 2020. The company was incorporated in 1992, with the objective of becoming a one-stop shop in the Maintenance, Repair and Operations (MRO) space. Headed by its customer-centric proprietor, Snehav Gupta, the company has become one of the fastest growing dealers in Punjab.

Magna Metal is involved in the distributorship of hardware for sanitary pipes, pumps and motor components. The company boasts of an extensive network of 1200 sub dealers/users in Chandigarh, Baddi (an industrial town in Himachal Pradesh), up to

Karnal. The company's key customers belong to the Pharmaceutical, Chemical, Manufacturing, Power and Cement industries. With a primary focus on mechanical items used extensively in manufacturing industries such as pipes, pumps, valves, fasteners, etc., the company stocks more than 20,000 items to provide customers with an order-to-dispatch time of less than 24 hours on all products.

Through their association with us, Magna Metal has seen a growth of over 50% YOY. They have been a part of some key strategic projects such as Smart City initiatives, which focus on IE3/IE4 motors, high efficiency pumps, LED lighting and street lighting. They have also introduced our super-efficient SynchroVERT® IE4 motors in the Punjab territory.

Magna Metal's future plans include growing their sales in partnership with us, by servicing more customers and introducing them to our innovative energy efficient products.

News & Events



Mr Mistry cutting the inaugural ribbon at the Aslali warehouse



View of our Bhiwandi warehouse

In the month of May 2022, we inaugurated our new warehouse in Aslali, Gujarat. Around 30 dealer partners, along with our Ahmedabad employees, attended the inauguration ceremony. The conveniently-located fully modern warehouse is spread over 21,677 sq. ft. and can stock over 7000 motors.

We also inaugurated a new 80,000 sq ft. motor warehouse in Bhiwandi-Vadape, Maharashtra in the month of July 2022. This is a consolidated warehouse for both our motors plant and regions. The warehouse has six operating docks with staging area, each earmarked for stock transfers to various regions.



Bhadresh Dani, VP - Drives & Automation, recently attended our customer Shibaura Machine India's 'Vendor Meet 2022' in Chennai. We have been associated with Shibaura for more than a decade, providing our drives and servo motors for their plastic injection moulding machines.

To commemorate our long standing association, Mr Dani presented a plaque to Mr Kumar Mathrubootham, Managing Director and Mr Vaidhayanathan, VP at Shibaura Machine.

In August 2022, Anil Naik, AVP - Motors, presented at the GreenCo Forum meetings held in Mumbai and Delhi respectively. GreenCo Forum is a joint initiative of Confederation of Indian Industries (CII) and Sohrabji Godrej Green Business Centre, to further consolidate India's thought leadership in promoting ecologically sustainable business growth models. At both events, Mr Naik presented our energy efficient SynchroVERT® IE5 motor technology and its benefits, which received wide appreciation from the audience.

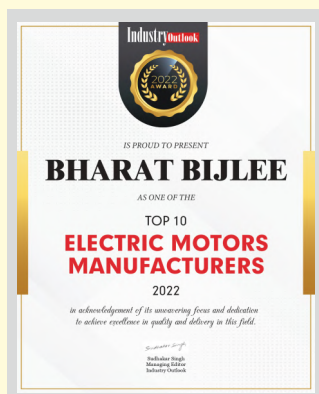


News & Events



We executed three prestigious orders for different industries in the last quarter:

- Through Metso Outotech and PCTL, we supplied 84 nos. of both LV and MV motors to a mining customer at their Odisha plant. The motors will be installed on blowers and centrifugal fans, chain conveyor and agitator applications.
- We executed an order of eight motors for a prominent customer belonging to the steel sector, through our contractor Vinar Systems. Our motors will power the customer's conveyors.
- We executed a huge order of 330 nos. LV range motors for one of India's largest sugar refinery and ethanol producer at two of their plants sites in Karnataka. Our motors will power critical applications such as ID, FD fan, centrifugal pump, agitator and mixer.



Industry Outlook magazine has adjudged us as one of India's top 10 electric motors manufacturers of 2022. We received this honour for our proven excellence in quality and delivery of motors. The September issue of the magazine also features an article on our quality systems, service capability and new initiatives. [Click here](#) to read the full article.