

COMPANY PROFILE

IFB Industries limited originally known as Indian Fine Blanks Limited started their operations in India during 1974 in collaboration with Hienrich Schmid AG of Switzerland.

IFB motors are part of USD 600 million IFB Group of Companies with business interests in Automotive, Appliances & Agro products. We at IFB are pioneers in the design, development and manufacturing of Electric motors for various applications in Appliances & Automotive areas. For customers, suppliers and manufacturers, IFB stands for quality, innovation and foresight.

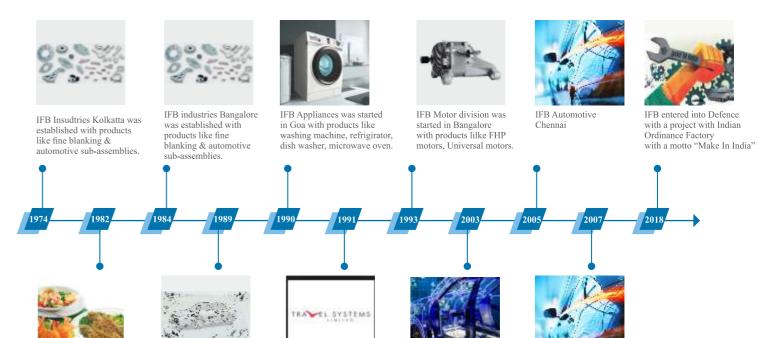
We are one of the largest manufacturers of universal motors for use in fully automated front load washing machines. We have developed BLDC motors for use in top loading & front loading washing machines & also for E-Vehicles. Our other electric drive products include Permanent Magnet DC Motors for Engine cooling (ECF / Radiator), Cabin cooling (Blower / HVAC Motor), & Window lift motor.

Our core competence lies in our dedicated Research and Development Centre, which strives to develop technologically advanced and superior products in pace with international innovations. All the products are designed keeping in mind the stringent energy regulations & safety requirements. Most of our products are successfully tested / used globally by various OEMs. Our products are at par with international quality standard, our price will be most competitive and our delivery and service will be at par or better than the best from other suppliers.

IFB has complete testing and validation facilities. IFB has the capability of performing the motor & system level testing. These facilities adhere to global standards. In addition to testing and validation during development, we also conduct planned COP testing and monitor product performance on a regular basis.

Our manufacturing facility is based out of Bangalore

IFB TIME LINE



► IFB GROUP BUSINESS VERTICALS

was started in Bangalore

with products like seat

mechanism, door mechanism, automotive



IFB Agro was started in

Kolkatta with products like

Aqua feed. Grsin alcohal etc

HOME APPLIANCES

Manufacturing home appliances for over three decades,

IFB designs machines focused on liberating the Indian woman from the hassle of household chores.

The Company is reputed for its forte in quality and technology.



AGRO

Our business operates in the areas of • International-Export

- of marine products

 Domestic-Ready to Cook
- Ready to Fry
- Aqua Feeds-Shrimp & Fish Feed and Aqua Shop



was started in

Bangalore.

AUTO

IFB expanded to hospitality

systems with a name called

Travel systems

Established in 1989, IFB Automotive pioneered the manufacture of fine blanked automotive components, seating systems, door systems and automotive motors.



With 40 years of core fine

blanking experience,

blanking presses and

supporting machineries

manned by highly skilled,

competent personnel, IFB

manufacturing fine blanked

is a leader in the field of

components for various

industries.

backed by a world class

tool room, advanced fine

Uttarakand, Binola

was started

FINE BLANKING TRAVEL SYSTEMS

Founded in 1991,

Travel Systems Ltd is an IATA accredited, travel solutions company with offices in Bangalore, Kolkata, Goa, Guwahati, and Delhi.

TRAVEL SYSTEMS

Our hospitality services include 4,000 domestic and 23,000 international hotels.



VISION

IFB will be synonymous with Innovation & Technology in its chosen fields of business activities. IFB will excel in Quality & Services to be in consonance with Global Standards.



MISSION

Our mission is to create and deliver high quality and innovative products that will contribute to our customer's success and deliver value to our shareholders.. We shall provide complete solutions through our system capabilities in design, analysis, development, testing and validation. We are committed to environmental preservation and social responsibility.



QUALITY POLICY

To supply products that will "Exceed Customer Expectation" due to excellence through perfection in quality & service. To maintain an environment for team work & continous improvement leading to total quality in all activities of the Organisation.



ENVIRONMENT POLICY

We at IFB are comitted to protect the environment & prevent pollution by adhering to all applicable environment legislations and regulations by adopting the following,

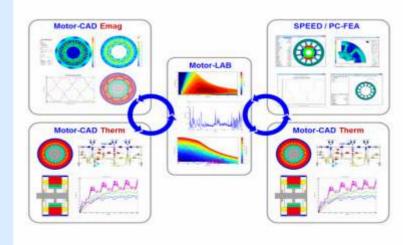
- $\bullet \quad \hbox{Pollution prevntion techniques in manufacturing}.$
- Conserving all natural resources & energy.
- Achieving continual improvement in environment performance.
- To provide a clean working environment to our employees.

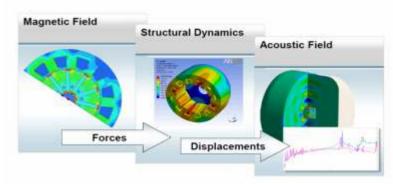
R&D INTRODUCTION

IFB Motor division R&D team continuously monitor existing portfolio against market requirements and identify new product streams to support future business growth. Our R&D is led by experienced and visionary professionals in the field of motor design & development.

Engineers at IFB Motors R&D are Experts in,

- · Conceptualisation.
- 3d modelling.
- Finite element analysis.
- · Electrical analysis.
- · Kinetic analysis.
- · Prototype development.
- Tools design & development.
- The Company's R&D centre is equipped with High-end Design software's like Iron CAD, Auto CAD, Pro e, CATIA, Hypermesh, ANSYS, ADAMS etc.
- For electrical design, simulations & FEA analysis, the team uses software's like SPEED (Siemens) & ANSYS.
- The R&D lab is well equipped with latest test instruments like Hysterisis Dynamometer, Inertial Dynamometer,
 Temperature Monitoring Systems etc.
- Other test facilities include Endurance test, Reliability test, Salt spray chamber, Motor life test fixture, Life test panel etc.







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WASHING MACHINE BLDC MOTORS





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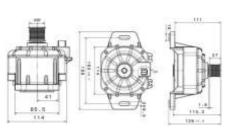
In 1993 Motor division started manufacturing of FHP Induction cum series motors for front load washing machines. Currently we are leading manufacturer of front load Universal motors in India. Our high efficient, energy saving BLDC motors prove our continual effort to develop new technology motors & adopt self-innovation.

BLDC Motors

Our BLDC motors are belt driven for both front & top load applications. The motor consume less energy & have efficiency above 85%. The motor can be both sensored/sensor less. The motor can be used up to 9kg washing machine & spin speed of up to 15000 RPM.

TOP LOAD BLDC MOTOR





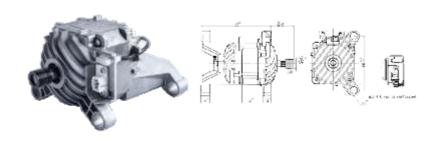
| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 270 Watts |
| Rated speed | 10000 RPM |
| Efficiency | 85% |
| Load Capacity | 6.5-10kg |

FRONT LOAD BLDC MOTOR



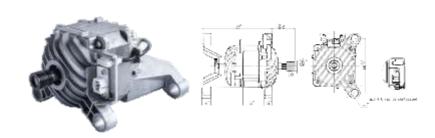
| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 300 Watts |
| Rated speed | 14000 RPM |
| Efficiency | 85% |
| Load Capacity | 6.5-7.5kg |

FRONT LOAD BLDC MOTOR



| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 350 Watts |
| Rated speed | 14500 RPM |
| Efficiency | 85% |
| Load Capacity | 7.5-8.5kg |

FRONT LOAD BLDC MOTOR



| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 400 Watts |
| Rated speed | 15000 RPM |
| Efficiency | 85% |
| Load Capacity | 8.5kg & above |

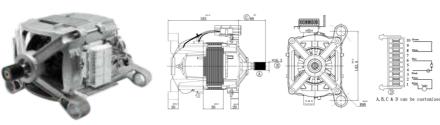
WASHING MACHINE UNIVERSAL MOTORS



Our universal motors are reliable & value for money. The motor can be used up to 10kg washing machine & spin speed of up to 16000 RPM with efficiency above 75%.

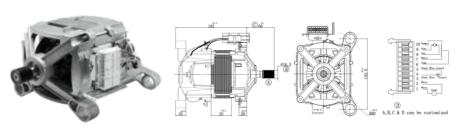


FRONT LOAD UNIVERSAL MOTORS



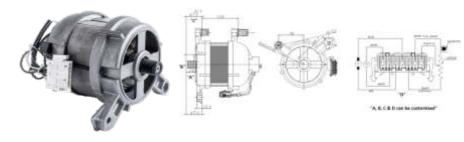
| | Specification | Values |
|----|------------------|-------------------------|
| | Rated Voltage | 220 / 240 V AC 50/60 Hz |
| | Rated power | 270 Watts |
| | Rated speed | 14000 RPM |
| | Efficiency | 75% |
| ed | Load Capacity | 6-7kg |

FRONT LOAD UNIVERSAL MOTORS



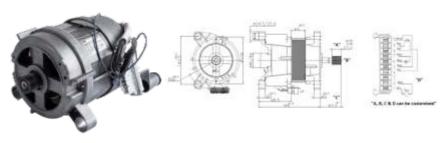
| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 340 Watts |
| Rated speed | 14500 RPM |
| Efficiency | 75% |
| Load Capacity | 7-8kg |

FRONT LOAD UNIVERSAL MOTORS



| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 400 Watts |
| Rated speed | 15000 RPM |
| Efficiency | 75% |
| Load Capacity | 8-9kg |

FRONT LOAD UNIVERSAL MOTORS

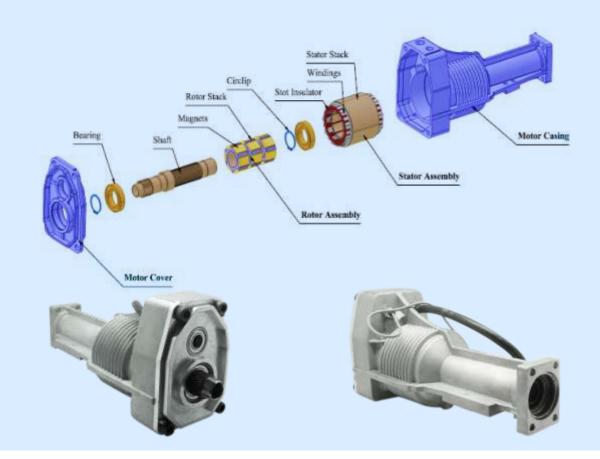


| Specification | Values |
|------------------|-------------------------|
| Rated Voltage | 220 / 240 V AC 50/60 Hz |
| Rated power | 450 Watts |
| Rated speed | 15500 RPM |
| Efficiency | 75% |
| Load Capacity | 9kg & above |

E-VEHICLE MOTOR



IFB motors has developed 3KW BLDC motor for electric vehicle and focusing on extending the range further to preoccupy the fast growing E-Vehicle market. Our R&D team is focussed to consider every possible technology in this segment to deliver higher efficiency, long operating life and low noise motors.



E-VEHICLE BLDC MOTOR – TECHNICAL SPECIFICATIONS

Recently IFB has developed a BLDC Motor for ATM Kit of E Vehicle Application with a joint Venture of Foreign company. As this is different from the other ATM drive where the motor is coupled directly with Shaft & gear Mechanism of ATM kit.

Motor Specification:

Stack Width : 85mmstack

Slot / Pole : 10 slot / 6 pole & 12 slot/10pole

Rated Voltage : 48/72 V DC

Drive : Direct Drive

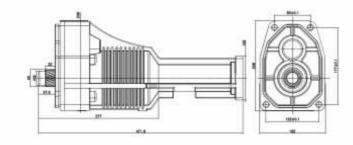
Speed : 3000-6000rpm

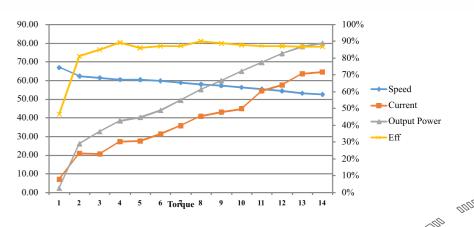
Feedback Mechanism : With Hall Sensor Assy

Insulation : Class H

Field winding : Aluminum Winding

Weight : 16-25 KgRated Power : 2-3 KWRated Torque : 6-10 Nm





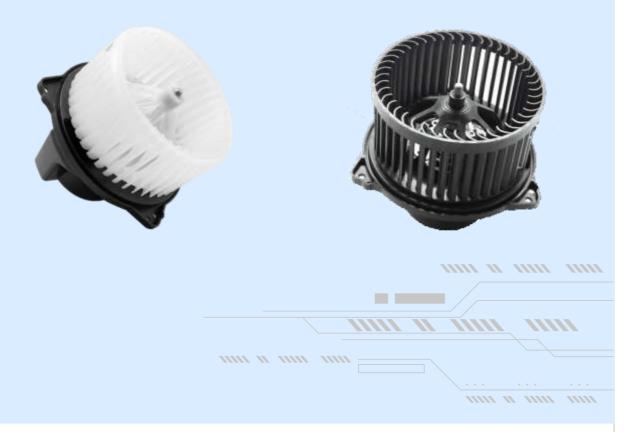
AUTOMOTIVE MOTORS

IFB design and manufacture various HVAC blower motors, condenser motors for air conditioning. Engine cooling fan motors and power window motors for automotive applications.

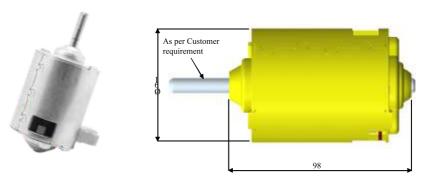
In order to diversify our product portfolio we have started developing PMDC motors for other applications such as vacuum pump for Air Braking systems and rear wiper motors. IFB also developing compact window lift motors with lower weight to cater to various applications. IFB also in the process of developing electronically controlled (BLDC) motors for ECF applications in order to become the preferred choice for OEM's.

BLOWER MOTORS

We have a long standing experience of developing PMDC motors for HVAC applications having started supplying in 1999. We have developed complete blower assemblies with motor, impeller and cover for the leading HVAC assembly supplies.

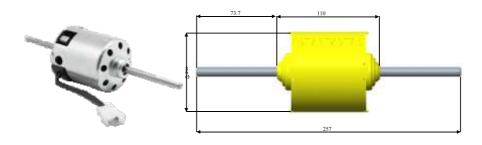


X3 BLOWER MOTOR



| Specification | Values |
|---------------|------------|
| Voltage | 13.5V |
| Torque | 0.26 Nm |
| Speed | 3800±8 RPM |
| Current | 14A max |

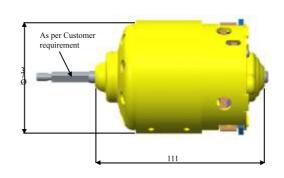
TWIN SHAFT BLOWER MOTOR



| Specification | Values | Values |
|---------------|-------------|-------------|
| Voltage | 24V | 13.5V |
| Torque | 0.25 Nm | 0.24Nm |
| Speed | 3900±10 RPM | 4500±10 RPM |
| Current | 7A max | 12A max |

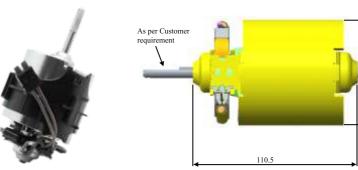
BBM BLOWER MOTOR





| Specification | Values |
|---------------|------------|
| Voltage | 12V |
| Torque | 0.4 Nm |
| Speed | 4000±8 RPM |
| Current | 22A max |

SIEMENS 1BB42



| Specification | Values |
|---------------|------------|
| Voltage | 12V |
| Torque | 0.4 Nm |
| Speed | 3600±8 RPM |
| Current | 22.8A max |







RADIATOR MOTORS

Having begun as a standalone motor supplier, we have now diversified into supplying cooling fan modules for commercial and passenger vehicles. Our fan modules are designed to keep in mind the growing requirement for compact low cost products across all OEM's. In the same module we can supply drives ranging from 80W to 500W. Low noise, high efficiency and long operating life are among the major advantages that we offer over other manufacturers.



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RADIATOR MOTOR



| Specification | Values |
|---------------|--------------|
| Voltage | 13 V |
| Torque | 0.6 Nm |
| Speed | 3000±150 RPM |
| Current | 27A max |

RADIATOR MOTOR 3 PIECE



| Specification | Values |
|---------------|--------------|
| Voltage | 13.5 V |
| Torque | 0.6 Nm |
| Speed | 3050±150 RPM |
| Current | 24A max |
| | |

XH5 RADIATOR MOTOR

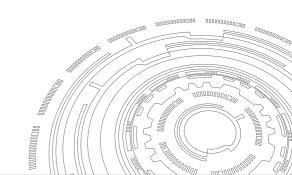


| Specification | Values |
|---------------|--------------|
| Voltage | 13.5 V |
| Torque | 0.3 Nm |
| Speed | 2600±150 RPM |
| Current | 11.5A max |

▶ IFB RADIATOR MOTOR



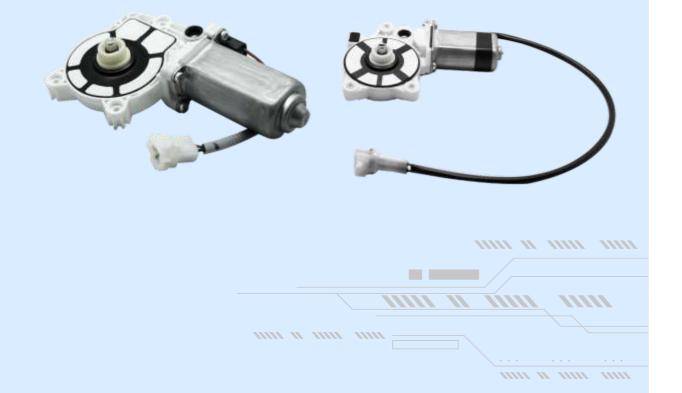
| Specification | Values |
|---------------|-----------|
| Voltage | 13.5 V |
| Torque | 0.47 Nm |
| Speed | 1980 RPM |
| Current | 13.8A max |





POWER WINDOW MOTORS

We have motors with a wide power range (5.5Nm to 16Nm), catering to both commercial and passenger vehicles. We have developed compact motors that provide weight and packaging advantage to the customer.



HIGH TORQUE



| Specification | Values |
|---------------|---------|
| Voltage | 24 V |
| Torque | 15 Nm |
| Current | 15A max |
| Weight | 540 gms |

MEDIUM TORQUE



| Specification | Values |
|---------------|---------|
| Voltage | 12 V |
| Torque | 14 Nm |
| Current | 27A max |
| Weight | 575 gms |

HIGH TORQUE



| Specification | Values |
|---------------|---------|
| Voltage | 12 V |
| Torque | 11.5 Nm |
| Current | 25A max |
| Weight | 440 gms |

MEDIUM TORQUE



| Specification | Values |
|---------------|---------|
| Voltage | 12 V |
| Torque | 10 Nm |
| Current | 25A max |
| Weight | 540 gms |

CERTIFICATES









OUR CLIENTS















MOTHERSON Bergstrom
HVAC Solutions Private Limited



www.ifbappliances.com





