

DC & AC MOTORS FOR THE SUGAR INDUSTRY



Cane Leveler, Main Mill,
Continuous Centrifuge,
Batch Centrifuge,
GRPF, TRPF, Fiberizer, Feed Pump,
Fan and Auxiliary Motors



INTEGRATED ELECTRIC COMPANY PVT LTD



Main Drive DC Motors

- IEC's deep engagement with the Indian Sugar Industry for the last 30 years has helped it evolve rugged & reliable DC Motors for applications like the Mill, GRPF & TRPF
- The motors are available in a wide range between 0.37kW at 1500RPM and 2500kW at 250RPM
- A variety of ratings between 250 and 1800kW, in center heights ranging from 250 to 710 mm have been supplied to sugar mills with capacities between 2000 and 15000 TCD
- Both open type (IP23, IC06) and totally enclosed designs (IP55, ICW37A86) are prevalent
- The motors employ a Class H insulation scheme with the temperature rise restricted to Class F limits



Main Drive AC Motors

- IEC builds a range of high powered, dual air circuit, totally enclosed machines upto 1500kW, in center heights between 355 and 560 that are tailor made for the sugar industry
- They have been deployed in Main Mill, Cane Leveler, Kicker, Chopper, GRPF and TRPF applications and are extremely rugged and reliable
- The motors are designed for continuous use with variable frequency inverters
- VPI treatment is provided for the windings and the bearing assembly system is insulated against shaft leakage currents
- They are available in 415V as well as 690V variants





DC Motors for Batch Centrifuges

- IEC's DC Motors have been driving a substantial percentage of batch centrifuge machines produced in India in the last 25 years
- They help provide a reliable, high performance and cost effective solution
- The motors are specifically designed to meet the challenging specifications and arduous working conditions in the finishing area of the sugar mill
- They have been widely used in a large number of sugar factories in India and abroad
- The motors have been supplied for basket capacities ranging from 750 to 2250Kg
- Designs that provide upto 27 cycles per hour have been successfully commissioned
- The designs are tailor made for specific OEM requirements



AC Systems for Batch Centrifuges

- IEC produces high quality AC Motors and 4 quadrant AC Variable Frequency Drives for the batch centrifuge application
- The motors are totally enclosed and are specifically designed to provide an optimum performance for the batch centrifuge application
- The systems are suitable to drive baskets from any manufacturer
- The IGBT bidirectional convertors use a Sensorless Vector Control algorithm and contains an advanced PLC controller with a Graphical HMI
- Inbuilt harmonic filter helps maintain the quality of the grid inside the factory
- Special circuitry allows a quick start at the beginning of the season



AC Motors for Continuous Centrifuges

- IEC produces a range of AC Motors for the continuous centrifuge application suitable for equipment produced by all manufacturers
- Ratings are 55kW, 90kW and 110kW with a minimum of IE2 efficiency



AC Motors for Boiler House & Auxiliary Systems

- IEC produces AC Motors for a variety of auxiliary systems in a sugar mill
- These include motors for boiler feed pumps, ID and FD fans, pumps, cranes, etc



INTEGRATED ELECTRIC COMPANY PVT LTD

PB No. 5888, 497A, IV Phase, Peenya Industrial Area, Bangalore - 560 058. India

Tel: +91 80 4139 1425 / 26 / 27 / 28 / 55 / 92, Fax: +91 80 4139 1457

E-mail: mktbang@int-elec.com, acmmktg@int-elec.com, Web: www.int-elec.com



BRANCH OFFICE: AHMEDABAD Phone: 079 2664292, Fax: 079 26604297 Email: iecahmedabad@hotmail.com, **CHENNAI** Phone: 044 42107887 Email: iecche@int-elec.com, **GURGAON** Phone: 0124 2347039, 2455230 Fax: 0124 2455082 Email: iegur@int-elec.com, **HYDERABAD** Phone: 040 2330409, 23308781 Fax: 040 23302229 Email: iechyd@int-elec.com, **RANCHI** Phone: 0651 2252038, 2252085 Email: iecran@int-elec.com, **KOLKATA** Phone: 033 24630409 Fax: 033 24630409 Email: ieckol@int-elec.com, **PUNE** Phone: 09604273698 Email: abhijith@int-elec.com, **THANE** Phone: 022 25421355, 25424493 Fax: 022 25421356 Email: iecmum@int-elec.com, **UAE-Ras-Ai-Khaimah** Phone: +971 72660224 Email: iecrak@int-elec.com