



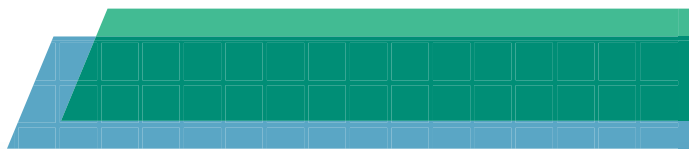
AMTECH

AMTECH ELECTRONICS (INDIA) LTD.

DRIVE FOR SUCCESS



DRIVE FOR SUCCESS





Our Growth Story

AMTECH, established in 1987 is a leader in Motor Control, Automation and Power Electronics products and customized solutions. Amtech has always been instrumental in driving success across the world.

At AMTECH the mission is to develop superior technology and provide total solutions to customers in the field of motor control, automation, power quality & energy conservation and industrial electronics. Amtech assists the most discerning clients across sectors to achieve their goals by providing custom-built engineering solutions and dedicating a competent team of professionals to implement projects of varying scales.

Our Specialisation

Motor Control



Automation



Our Forte – Research & Development

We are the pioneers in motor control and automation technology. Our experts continuously innovate and provide the finest automation and motor control systems at par with global standards. Fully equipped with design and development aids such as CAD tools, simulation softwares, DSP design, development tools and with experienced technical professionals, we are able to cater to customised requirements in power electronics and automation. Our in-house R&D department is recognized by DSIR - Department of Scientific & Industrial Research, Government of India.

Our Strength – Infrastructure & Human Resource

We have an expansive area of 25,000 sq.m. located at the Electronics Zone, Gandhinagar, with state-of-the-art infrastructure, hi-tech manufacturing and testing facilities. Our team of more than 300 highly qualified management professionals, engineers, R&D specialists, quality assurance and customer support professionals works round the clock to support our dealers and customers across the nation.

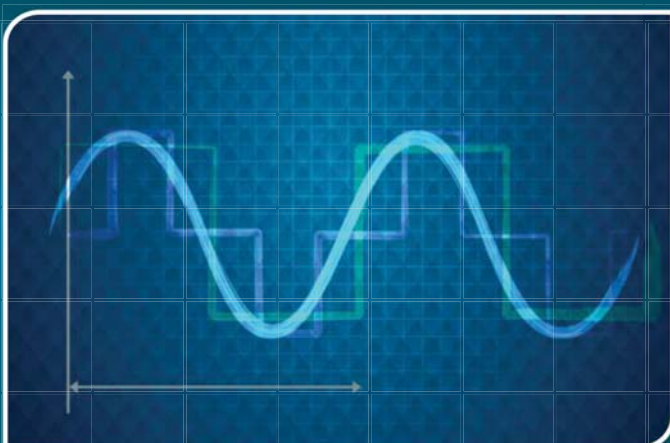
Our Advantage

- Innovative solutions designed, developed and manufactured by Indians for the world supporting **“Made In India”**
- Manufacturing excellence, fast turnaround and best uptime provider in the industry
- More than 35 years of experience, highly qualified and experienced professionals
- Prompt customer service network across the country
- Approval of renowned consultants in various industries
- Wide installation base covering major industries and applications, more than 100,000 installations
- Quality system certified as per ISO 9001:2015 standard
- Strong understanding of the Indian and global market
- Core competence in Power Electronics and customised solutions
- Competitive pricing
- Wide dealer/system house network in India

Our Aim

To provide solutions that are simple, customised, cost-effective, reliable and energy efficient.

Power Quality & Energy Conservation



Industrial Electronics



MOTOR CONTROL

Since 1987, we have designed and manufactured most effective motor control solutions for an array of industries around the world.

We have served a prestigious clientele from diverse sectors. With our perfectly engineered systems, we offer our clients a full range of services tailored to their specific needs.

Our Variable Frequency Drives, Electronic Soft Starters, Medium Voltage Drives and Customized Engineered Systems are widely used in industries like power, metal, oil & gas, sugar, cement, chemical & pharma, paper, food & beverages, mining, water & wastewater, textile, automobile on various applications.

Team of Amtech professionals help our customer to implement projects of varying scales, with our user-friendly and highly reliable motor control products, solutions and services.



AXPERT-EAZY+ SERIES VFD

“World’s Most Advanced User-friendly VFD”

The Low loss, High efficiency Industrial grade Next Generation Axpert-Eazy+ Series is designed to deliver highest performance, protection and energy saving without compromising the user friendliness.

It comes with fully configurable I/O and STO functions; Software functions like Commissioning mode, Debug mode, Diagnosis mode, Application & Function macros, Load analyzer, Peak load monitoring and many more.

Range: 0.75...2100 kW (1...2815 HP)

Voltage: 380...480 V, 500...600 V & 601...690 V

Key Features:

- IM as well as PM Motor control
- Open loop/close loop V/F and vector control
- Graphical LCD display with 8-key keypad and RTC (Real Time Clock)
- Multiple parameter monitoring at a time
- Fault history saves last 20 faults with date, time, status and 8 key parameters
- Wi-Fi and RS 485 Modbus – RTU communication as standard



AXPERT-VT240S / AXPERT-EAZY Mini SERIES VFD

“World’s Most Advanced VFD”

Range: 0.37...37 kW (0.5...50 HP)

Voltage: 200...240 V & 380...480 V

Multi-mode Control:

- V/F control Open & Close Loop
- IM motor vector control Open & Close Loop
- PM motor control Open & Close Loop



“General Purpose Advanced VFD”

Range: 0.75...7.5 kW (1...10 HP)

Voltage: 380...480 V

Multi-mode Control:

- V/F control
- IM open loop vector control
- Software functions like built-in PLC, PID control, Multi-pump Control



AXPERT-OPTI TORQUE SERIES SOFT STARTER

“The High Performance Electronic Soft Starter”

A high-end DSP based electronic soft starter with internal bypass arrangement is designed for superior performance, higher flexibility, advanced monitoring and better protection to provide highest up time and smooth starting of your induction motor.

Contact Amtech for continuous duty soft starter.

Range: 15...1065 A, 3.7...1000 kW (5...1340 HP)

Voltage: 200...690 V

Key Features:

- 3-Phase control
- Universal control supply 90...270 VAC, 50/60 Hz
- Integrated advance electronic motor protection, overload from Class 2 to Class 30
- Configurable for in-line (3-wire) / Inside delta (6-wire)
- True ground fault protection
- In-built display for kVA, V, I, kW, power factor, kWh



AXPERT-HIVERT SERIES MVD

"The motor friendly Medium Voltage Drive"

A widely used VFD for speed control, energy saving, soft start and intelligent control of medium voltage motors.

It adopts direct MV multi-pulse transformer at input and IGBT based multiple power cells connected in series at output.

Range: 200 kW (270 HP) to 12500 kW (16750 HP)

Voltage: 3.3 kV, 4.16 kV, 6.6 kV & 11 kV

Key Features:

- Multilevel PWM control for motor friendly output
- Built-in multipulse converter that meets IEEE 519-2014 standard for harmonics
- Draw out cell structure-series connected
- Networking through RS 485, Modbus, Profibus & Ethernet
- Regenerative feedback option available for applications like crane, hoist, etc.
- Optional manual/auto bypass system



BATTERY BACK UP SYSTEM FOR VFD

"The Uninterruptible Motive Power Supply"

Power interruptions are a major concern in the continuous process industries where down time results in poor quality products and heavy production losses.

Our proven battery back-up systems in variable frequency drives help smooth ride through power problems and are designed to meet backup time requirements as per given operating conditions. It serves the purpose of UPS plus VFD.

Applications

- Textile machines
- Clean room air handling systems
- Cooling water systems
- Turbine lubrication pumps
- Oilfield extraction pumps

Benefits

- Maintains speed and torque during power sag or outage
- Simple retrofit or initial installation as it uses drive's existing DC bus connection
- Increased efficiency due to negligible losses during normal conditions as the system remains idle during normal conditions and becomes active only during power interruptions
- Backup up to 30 minutes



ENGINEERED SYSTEMS

“Engineered with efficiency & affordability in focus”

AMTECH's vertically integrated engineered systems assure total solutions tailored to clients' needs. After recognising the present requirements and future goals of our customers, we integrate all the essential peripherals into one system.

Each of these engineered systems is as unique as our customers. With every new requirement we design a completely customised system adhering to the highest quality standards.

Various options include input protective devices ACB, MCCB / SFU, EMI/RFI filter, Line Reactor (ACL), DC Reactor (DCL), Dynamic Braking Unit (DBU), Dynamic Braking Resistor (DBR), Load Reactor, dV/dt Filter, Output Sine Filter, IP/NEMA rated enclosures and accessories.



Key Features:

- Pre-engineered solutions to minimise downstream problems
- Designed according to customers' unique requirements
- Minimal installation time
- Reduced risk while adding peripherals
- Solutions are provided in simple and easy to use packages
- Door mounted keypad
- Range of options to choose from
- CSA / UL listed panel shop



AUTOMATION

“Automation made easy” is our core philosophy to simplify the growing complexities of modern production systems with AMTECH JETTER PROCESS PLC.

We offer 'TOTAL SOLUTION' for complete process automation.



Machine Automation



Line Automation



Plant Automation



Data Management & SCADA

We provide whole range of I/O modules, PLC, HMI/SCADA software, Servo/Stepper motor & controller and customise them too.

We also offer **NextGen Turnkey Electrical & Automation solutions** for Green field projects of any size of plant and type of paper. Our portfolio includes **Emerging IIoT / Industry 4.0 Solutions** for Smart Factory.



Machine Automation

- Centrifuges
- Compressor
- Packaging
- Cutter
- Winder-Rewinder
- Capsule Machine
- EOT Grabbing Crane
- Injection Moulding
- Ring frame
- Boiler



Line Automation

- Sectional Paper
- Hot/Cold Rolling Mill
- Feeder table
- Conveyor
- Wire Drawing
- Tape Line
- Bottling Line
- Chip Conveying
- Rubber Batching System



Plant Automation

- Pulp & Paper
- Sugar Mill
- Ware House
- Power Plant
- Water & wastewater
- Dairy
- Cement & Aggregates
- Oil & Gas



Networking Automation

- Ethernet & Fiber network
- Telemetry
- Energy Management system
- Third party device integration
- Machine Monitoring and Controlling
- Power Plant Monitoring
- Report Generation
- MIS/MES
- Data logging

POWER QUALITY

The increased use of non-linear loads in the industry poses a big challenge for power quality.

Amtech offers range of products and services for the energy conservation, enhanced operational efficiency and reliability improvement.

Products:

- Active Harmonic Filter (AHF)
- Wideband Harmonic Filter (WHF)
- Active Front-end Converter (AFC)
- Static Harmonic Converter
- Harmonic Reactor
- STATCON - Active Static VAR Compensator
- EMI/RFI Filter
- Sinus Filter

Services:

- Harmonic audit and solutions to comply with global standards IEEE – 519:2014, G5/4-1, GB/T 14549, IEC 61000-3-2, IEC 61000-3-4
- System design, optimisation and pay-back analysis
- Consultancy for power quality improvement
- Installation and commissioning of harmonic filters
- Training in power quality and energy management
- Energy audit and solutions by experienced BEE certified professionals



INDUSTRIAL ELECTRONICS

We offer superior technology solutions to industrial segments like oil & gas, traction and renewable energy sources (wind, solar, etc.), thereby minimizing time to commercialisation.

Heater Controller / AC Power Controller

Customized Products

AXPERT - OPTI power



Range: 20...1300 A

Voltage: 200...480 V, 200...690 V

Key Features:

- DSP based fully digital 3-phase control
- Universal control supply 90...270 VAC, 50/60 Hz
- Four firing modes
- Six operation modes
- Supports four type of load connections

Products:

- Traction drive
- Specialized High voltage power supplies up to 100 kVdc, and 200 A
- Wind power converter

Services:

- Retrofit solutions
- Customised solutions
- Power Electronics product development

Our Testimony

We take pride in serving a prestigious clientele across the country since 1987.

AUTOMOBILE



CEMENT



CHEMICAL & FERTILIZER



CONSULTANTS



FOOD & BEVERAGES



MANUFACTURING



METAL



OIL AND GAS



PAPER



PHARMACEUTICALS



GOVERNMENT UNDERTAKING & PUBLIC SECTOR UNITS



SUGAR



TEXTILES

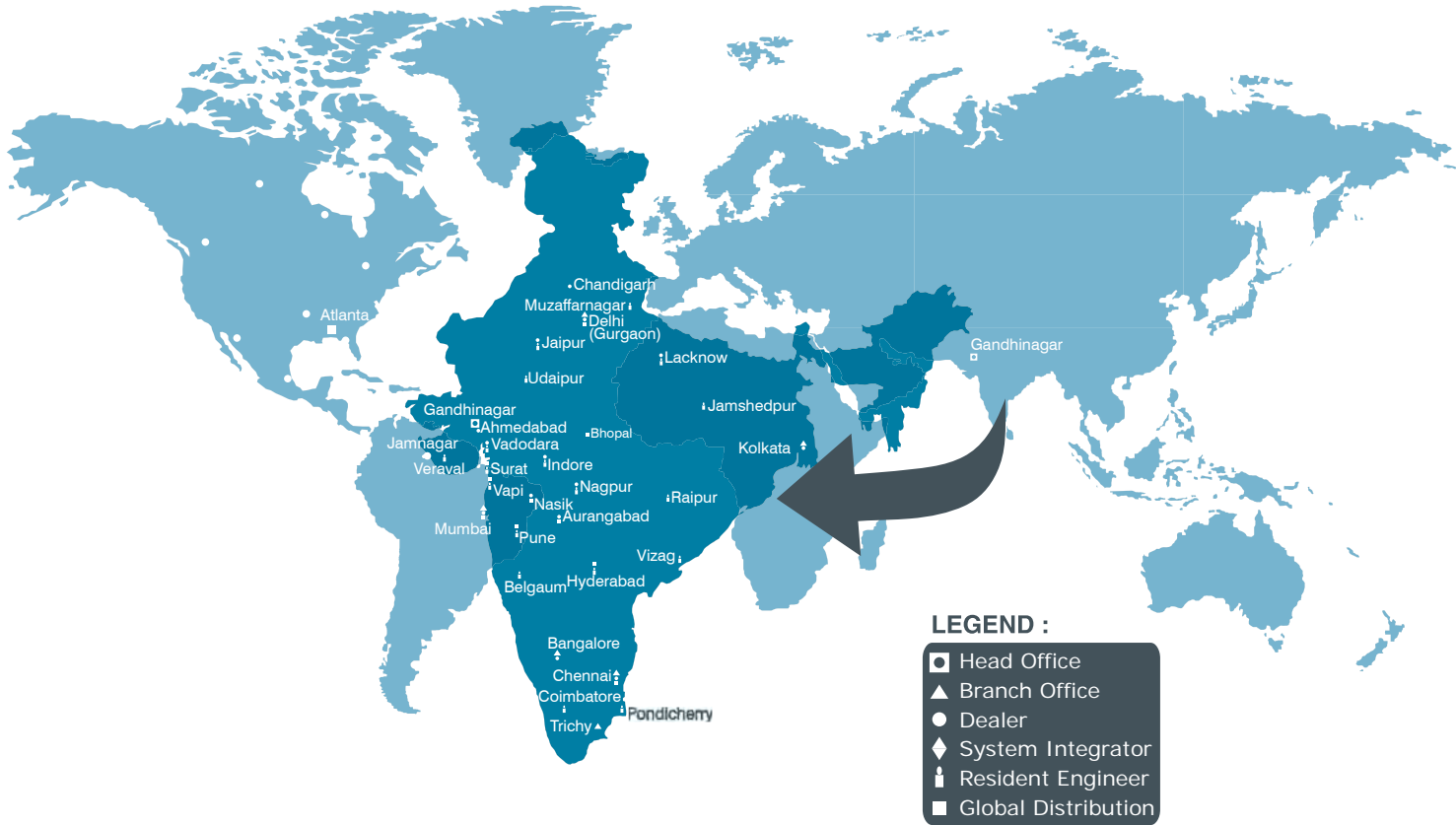


Our Success Story

Continuous innovation, strong human capital and intensive R&D have earned us numerous recognitions in the corporate world.

- 2025** Executed 2700 kVAR Active Static VAR Compensator (STATCON) project to an Integrated Cement Plant for maintaining PF at HT Side.
- 2024 Successfully commissioned High Power VFD on 2.7 km long On Land Belt Conveyor in Cement Industry. 5x710 kW Axpert-Eazy+ VFDs running five motors in synchronization.
- 2023** Successfully supplied & installed two systems of 1600 A AHF in Dairy Industry.
- 2022 Expanded Power Quality product portfolio, commercialized Hybrid Static VAR Compensation system for LT/HT system.
- 2021** Launch of Axpert-Eazy mini Series Advanced General Purpose VFD and Next Generation Axpert-Opti power AC Power Controller.
- 2020 Launched Next Generation Axpert-Opti torque-iB Series Soft Starter and Axpert-Eazy+ 4Q Series Regenerative VFD.
- 2019** UL 61800-5-1 / CSA C22.2 No. 274-17 Certification of Axpert-Eazy+ Series VFD.
- 2018 Launched Next Generation Axpert-Eazy+ Series 400 V, 500 V and 690 V VFD; Quality System upgraded to ISO 9001:2015 Standard.
- 2017** Successful installation of 710 kW, 690 V, 4-Quadrant Axpert-Eazy VFD (AFC+VFD), Supplied largest engineered system 690 V, 1800 kW VFD for Cement industry in India.
- 2016 Launched Axpert-i-Sine Series Active Static VAR Compensator (STATCON).
- 2015** Supplied largest engineered system 415 V, 1800 kW VFD for Steel industry in India.
- 2013 Designed, Developed & Supplied 695 V, 190 A SPS modules for ITER (International Thermonuclear Experimental Reactor), INDIA.
- 2012** Successfully Provided Complete Automation Solution for High Speed Multilayer 350 TPD Paper Mill.
- 2011 Amtech became an UL listed panel shop.
- 2010** Installed one of the largest of its kind in Asia Medium Voltage Drive of 7.7 MW, 11 kV for blower application in metal industry; Became the 1st Indian manufacturer to get UL 508 listing & CE marking of Axpert-Opti torque Series Electronics Soft Starter.
- 2009 Developed & Commercialized Wind Power Converter for variable speed synchronous generator, Launched Axpert-Eazy Series 690 V AC Drive and Axpert-Hivert Series Medium Voltage Drive (3.3 kV, 4.16 kV, 6.6 kV & 11 kV).
- 2007** Became the 1st Indian manufacturer to get UL 508C listing & CE marking of Axpert-Eazy Series AC Drive.
- 2006 Developed DSP based Axpert-Eazy Series AC Drive with vector control.
- 2005** Designed, Developed & Exported IGBT based Digital Traction Drive to USA
- 2003 Designed & Developed 80 kV, 130 A Switched Power Supply
- 1999** Quality System ISO 9001:1994 Certification.
- 1995 Designed and Installed 500 HP Drive on Fermentor application.
- 1991** First to Launch IGBT and Microprocessor based Digital Drive in India.

Our Network:



INNOVATIVE

- Products
- People
- Solutions
- Services

For the Industry

With over 37 years of field experience, our team of technical experts can help design custom solutions that will make your equipment more efficient, reliable and cost effective. And that's the bottom-line!



AMTECH ELECTRONICS (INDIA) LTD.

DRIVE FOR SUCCESS

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