

> 2026-27

ENGINEERING
the Future of
AUTOMATION



PRODUCT PROFILE



MOTION TECHNOLOGIES
AUTOMATION | SOLAR | MECHATRONICS

✉ business@motionindia.com ☎ +91 89020 96626

🌐 www.motionindia.com

***AI-GENERATED VISUALIZATION

INDUSTRIAL AUTOMATION PRODUCT RANGE

DRIVE & MOTION

• AC DRIVE • AC SERVO SYSTEM • ENCODER • RESOLVER • CNC CONTROLLER •
AC GEAR MOTOR • MOTION CONTROLLER • STEP MOTOR & DRIVER • LINEAR MOTION
PRODUCTS • SOLAR PUMP CONTROLLER

PROCESS AUTOMATION

• PLC • HMI • TEMPERATURE CONTROLLER • COMMUNICATION MODULE • TIMER-COUNTER-
TACHOMETER • INDUSTRIAL PANEL PC • SCADA • EMBEDDED BOX PC • DISTRIBUTED I/O
MODULES & CONTROLLERS • DATA ACQUISITION CARD

SENSORS

• INDUCTIVE PROXIMITY SENSOR • PHOTOELECTRIC SENSOR • FIBER SENSOR • MARK
SENSOR • LASER SENSOR • AREA SENSOR • SAFETY LIGHT CURTAIN • PRESSURE / FLOW
SENSOR • MEASUREMENT SENSOR • ULTRASONIC SENSOR • CAPACITIVE SENSOR • LEVEL
MEASUREMENT • PRESSURE MEASUREMENT • CONDUCTIVITY SENSOR • FORCE & STRAIN
SENSOR

MECHATRONICS

• SPEED REDUCER • PRECISION GEAR HEAD FOR ROBOTICS & OTHER APPLICATIONS

APPLICATIONS

• PACKAGING (VFFS, FLOW WRAP, MULTI-HEAD, CUP, ETC) • FOOD & BEVERAGE
• NC CUTTER • CUT TO LENGTH • PET MOULDING • BOTTLE FILLING (LIQUID, SEMI LIQUID)
• MACHINE TOOL PLC & CNC BASED • WTP • STP • AUTO WATER PUMPING • SOLAR
PUMPING • CRANE • TRAVERSER • LATHE • ROUTER • PLASMA • SWEET MAKING MACHINES
• SERVO SPM • PHARMA • TEXTILE • MATERIAL HANDLING



OFFICE ADDRESS: NR. TARUN SANGHA CLUB, MC GARDEN ROAD, DUMDUM, KOLKATA- 700030
REGD. OFFICE: 7769/20, MAMUDPUR, NEAR SPORTINGS CLUB, NORTH 24 (P), 743166
MOBILE: +91 89020 96626 BUSINESS@MOTIONINDIA.COM WWW.MOTIONINDIA.COM



AUTOMATION | SOLAR | MECHATRONICS

With over 12 years of extensive experience in industrial automation, we deliver industry-driven factory and process automation solutions tailored to the evolving needs of modern industries. Our expertise spans across diverse automation segments, providing reliable, scalable, and future-ready systems that enhance operational efficiency and productivity.

We offer 24×7 service and technical support across a broad range of automation technologies, including VFDs, PLCs, SCADA systems, Servo drives, HMIs, process instruments, solar VFDs, and integrated control solutions. Our capabilities cover the complete automation lifecycle—from system design, control panel engineering, and programming to commissioning, service support, and sales—all executed in-house to ensure consistency, quality, and rapid execution.

Our team of highly skilled and experienced automation engineers specializes in breakdown support, rapid troubleshooting, retrofitting, system upgrades, and new automation development. We design and implement customized solutions such as MCC, PCC, PLC, VFD, and SCADA-based panels, developed in compliance with industry standards and customer-specific requirements.

Our automation solutions support machine control, process monitoring, batch processing, energy optimization, remote monitoring, data acquisition, and predictive maintenance using advanced PLC and SCADA platforms.

At the core of our philosophy, we believe that success is not measured by sales volume alone. After-sales support, responsiveness, and long-term reliability are equally—if not more—important to us. We focus on building trust-based, long-term partnerships by ensuring consistent performance, quick service response, and complete customer satisfaction throughout the system's lifecycle.

Driven by innovation, reliability, and a customer-first approach, we deliver end-to-end automation solutions that minimize downtime, maximize efficiency, and create lasting value for our customers.

.....From director's desk

MOTION TECHNOLOGIES

Office Address: Nr. Tarun Sangha Club, MC Garden Road, Dumdum, Kolkata- 700030
Regd. Office: 7769/20, Mamudpur, Near Sportings club, North 24 (P), 743166
business@motionindia.com www.motionindia.com Mobile: +91 89020 96626

PRODUCT INTRODUCTION



SWITCHING POWER SUPPLY



CONTROL PANEL



MICRO & MINI GEAR MOTOR



VFD/ INVERTER DRIVER



PROGRAMMING LOGIC CONTROLLER



HUMAN MACHINE INTERFACE



AC SERVO SYSTEM



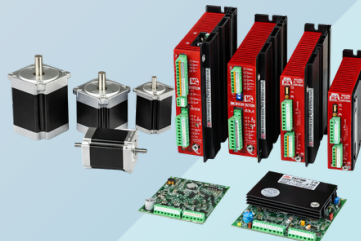
TEMPERATURE CONTROLLER



PROXIMITY / PROCESS SENSOR



SPEED REDUCER/ SERVO GEAR



STEPPER MOTOR/ DRIVER



RELAY, ETH. SWITCHES & COMM. MODULES

OMRON

Panasonic

Nidec

DELTA

TRIO
ACTION TECHNOLOGY

invvt

FE

Samagawa

Schneider
Electric

ADVANTECH

Baumer
Passion for Sensors

COGNEX

Lenze

Lubi

INOVANCE

Weidmüller

MOXA

RTA

HUST

G

MITSUBISHI
ELECTRIC

➤ SWITCH MODE POWER SUPPLY



- Single Output : 5V, 12V , 24V, 48V, Dual & Multi Output
- Panel & Din-rail mount Series available
- Overload & Short circuit protection
- 100% full load Burn-in test
- High Efficiency
- Low Ripple & Noise
- High Quality & Reliability
- All Models available Ex-stock
- **MAKE: LUBI, MEAN WELL, OMRON, DELTA, etc.**

➤ VARIABLE FREQUENCY DRIVER



- Micro Drive : 200W to 400W
- 1 Ph / 230V : 0.05 HP to 3 HP
- 3 Ph / 415V : 0.5 HP to 600 HP
- V/F, Sensorless Vector, Torque Control
- FOC Control Mode for IM & PM motor
- Supports various network protocols
- Built-in EMI filter & PID Feedback Control
- In-built PLC Function
- Auto Energy Saving Function
- Wide range of models to fit different industries
- Special Drive for Elevator, Elevator Door, Treadmill, Textile, Crane, CNC Spindle, Fan & Pump Application
- **MAKE: DELTA, LENZE, INVT, CG, FUJI, ABB, etc.**

➤ CONTROL PANEL



- Design & Build as per customer requirement
- Automation control panel with system integration of PLC, HMI, VFD, AC Servo
- Instrumentation panel
- Starter Panels DOL/STAR-DELTA/ATS
- Automation Panel for Pressure Boosting Application
- Power distribution panel, PCC, MCC, APFC, Bus Duct Panel, Feeder Panel, Synchronizing Panel
- Design with proper cooling arrangement
- High quality switch gears & automation components
- MS/SS/ABS plastic enclosure with different industrial IP ratings IP44, IP55, IP65

➤ PROGRAMMABLE LOGIC CONTROLLER



- PLC supports 256 / 512 / 1024 DI/DO
- Supports Modbus ASCII/RTU : RS232/RS485 & Modbus TCP/IP / Ethernet I/P
- Support 200KHz HSC & 200KHz : PTO
- Utilizes dual-core multi-tasking processor Execution Speed:0.3ms/1k step
- Max DIO : 4,352, AIO : 544 & RIO : Max. 125, 440 DIO / 3,920 AIO
- CPU built-in with fully isolated RS-232/422/485, Mini-USB, Ethernet, SD Card 1.0
- **MAKE: DELTA, INVT, etc.**

➤ TEMPERATURE CONTROLLER/ COUNTER/ TIMER



- PID, ON/OFF, Manual & PID Program control modes
- Universal Input
- Relay / Voltage pulse / Linear Voltage & Current Output
- Dual Loop Output Control (Heating/Cooling Control)
- RS-485 MODBUS communication

COUNTER / TIMER / TACHOMETER

- 3 IN 1 Mixed Timer + Counter Function
- Max.speed of the counter : 10kbps • DIP switch for quick setup change
- 12V power supply for internal & external sensor
- **MAKE: DELTA, MULTISPAN, SELEC, etc.**

> HUMAN MACHINE INTERFACE



- Text Panel with 2/4/8 line with max.24 Function keys
- Touch screen available in 4.3", 5.7", 7", 10.1" 12" & 15" with TFT LED display
- High resolution with 65536 color
- 3-communication port (RS232/RS485/RS422) & Eth. port
- Non-editable history file & PDF writer
- Supports USB Client for High speed download/upload
- Supports USB Host for USB flash drive, Printer, Mouse and Barcode reader
- VNC viewer software (PC + Android application) for remote communication
- E-Server software for Data logging application
- Supports Operation Log Viewer / user-level password setting
- Ethernet Model supports FTP & Alarm Email Function (SSL security)
- Supports Text Panel with In-built PLC
- **MAKE: DELTA, INVT, WECON, etc.**

> AC SERVO SYSTEM



- Rated Output : 50 W to 22.0 kW
- Rated Torque : 0.16 Nm to 140.0 Nm
- 17 / 23-bit Absolute / Incremental Encoder
- Position / Internal Position / Speed and Torque Control Modes
- 3.2KHz Velocity Response Frequency
- Maximum 6500 RPM
- 8Mpps Exclusive Interface for Line driver Pulses
- Fit gain tuning function
- Full Close control with linear scale or external encoder
- Quadrant projection suppression function
- With / Without Holding Brake
- Built-in Electronic cam (E-Cam) function
- Modbus, EtherCAT, R-TEX, CANopen Communication
- **MAKE: DELTA, PANASONIC, INVT, ECONOMIC SERVO, etc.**



> PROXIMITY/ PROCESS & OTHER SENSORS

- Photoelectric Sensor
- Micro Photoelectric Sensors
- Digital Color Mark Sensor
- Digital Laser Sensor
- Area Sensor
- Cap. / ind. Proximity Sensor
- Pressure Transmitters (-1 to 400 Bar)
- Level Sensors (O/P 4-20mA, NPN, PNP etc.)
- Pressure Transducers (0-600 Bar, 0-10V)
- Digital Industrial Camera
- Mark Sensor
- Linear Transducers 75mm - 1500mm
- **MAKE: PANASONIC, BAUMER, P&F, GEFAN, etc.**

> SOLAR PUMP CONTROLLER (AC/DC)



High Performance Economical Drive

- V/F and SVC control
- Supports IM/PM/BLDC motors
- Solar and grid power compatible
- Supports GPRS/ GSM modem
- MPPT efficiency up to 99%
- Overload capacity : 150% for 60 sec.
- 0.75kW(1Hp) ~2.2kW(3Hp), 230V series.
Input DC Voltage Range : 150 - 450V DC
- 4kW(5Hp)~37kW(50Hp), 415V series.
Input DC Voltage Range : 250 - 800V DC



> ENCODERS & RESOLVERS

- Compact & Rugged Design Hollow & Solid Shaft Encoders
- Resolution : 100 ~ 16000 PPR
- Operating Voltage : 5V, 4.75~30V, 8~30V DC
- programmable encoder 1-16000ppr
- Angle Sensor that Converts Rotational Angles Into Electric Signals
- Input Voltage 4V, 5V, 7V, 10V AC rms
- Allowable rotating speed up to 40,000 RPM
- **MAKE: BAUMER, DELTA, POSITAL, FRABA, etc.**



> SERVO GEAR HEADS

- Rated Output : 6 Nm to 3000 Nm
- Ratio : 3:1 to 100:1
- Very precise performance
- Wide range of Applications in industries
- Inline - Right angle models available
- Easy to mount & assemble
- Lifetime lubrication free product
- Maintenance free product
- Freedom for 360 °mounting
- Smooth rotation even at very low speed.
- Low operating noise
- **MAKE: SHIMPO & reputed, etc.**



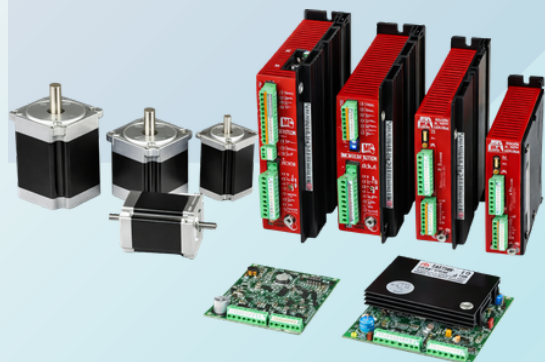
> MICRO & MINI IM MOTORS & REDUCERS

- 1 Ph / 220V : 6W to 250W
- 3 Ph / 200V : 25W to 250W
- Reduction ratio : 1/3 to 1/300
- Induction Gear Motor
- Reversible Gear Motor
- Variable Speed Gear Motor
- Compact Size with powerful output
- High torque with low speed
- High Braking & Load holding torque
- Continuous duty rating



> RELAY, ETH. SWITCHES & COMM. MODULES

- 2 CO & 4 CO Electromechanical Relays
- 1CO (DPDT) = 10A or 4CO (4PDT) = 5A
- 2,500 VA switching capacity
- Other voltages avail. (48, 110, 220 V DC & 48, 115 V AC)
- Supports RS485, Ethernet, Wireless connectivity
- 1/2/6/8/16 channel Analog I/O modules
- 2/4/8/12/15/16 channel Digital I/O modules
- Temperature/Humidity Input modules
- Managed & unmanaged Ethernet Switches (5/8/16 ports)
- **MAKE: DELTA, OMRON etc.**



> STEPPER MOTOR AND DRIVER

- 2 PHASE & 5 PHASE**
- Small driver and motor, high torque Fast response provides shorter system cycle time for repetitive operations
 - Range of Operating Voltage : 24~85V DC & 110~230V AC
 - Range of Current : 0.6~12.0 Amps
 - Microstepping Range : 400, 800, 1600, 3200, 6400, 12800 steps/revolution
 - Supports CANopen, EtherCAT communication
 - **MAKE: RTA and Reputed.**



INDUSTRIAL AUTOMATION PRODUCT RANGE



MOTION TECHNOLOGIES
AUTOMATION | SOLAR | MECHATRONICS

OFFICE ADDRESS: NR. TARUN SANGHA CLUB, MC GARDEN ROAD, DUMDUM, KOLKATA- 700030
REGD. OFFICE: 7769/20, MAMUDPUR, NEAR SPORTINGS CLUB, NORTH 24 (P), 743166
MOBILE: +91 89020 96626 BUSINESS@MOTIONINDIA.COM WWW.MOTIONINDIA.COM