



**LEADERSHIP
DRIVEN BY
PARTNERSHIP**

PRODUCT PROFILE

Industrial Automation & Solar Product Range

Drive & Motion

- AC Drive · AC Servo System · Encoder · Resolver · CNC Controller · AC Gear Motor · Motion Controller
- Step motor & Driver · Linear Motion Products

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

Application Specific

- Injection Molding Machine Controller · Energy Saving System for Injection Molding Machine · CNC Controller
- Laser Marking System · Vision Sensor · Machine Vision System · Barcode Reader · Digital Industrial Camera

Manufacturing Products

- Switching Power Supply · Control Panel · Communication Module · UPS · Geared Motor / Gear Box

Mechatronics

- Speed Reducer · Precision Gear Head For Robotics & other applications

Solar Products

- Solar Module · Solar Pump · Solar Inverter · Solar Power Projects

ONE CALL

ONE SUPPLIER

ONE SOLUTION





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SWITCHING POWER SUPPLY

- Fully Automated Production Line
- Single Output : 5V, 12V , 24V, 48V, Dual & Multi Output Series Available
- 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



INTERFACING MODULE (RELAY CARD)

- Relay Module with 8/4 miniature relays
- With Base (Relay-Pluggable)
- Coil Voltage 24VDC
- Jumpers are provided for selection between positive looping/negative looping
- Mounting DIN 35 carrier rail



INDUSTRIAL CONTROL PANEL

Types of 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



Key Strengths

- Complete Industrial Solution
- High Quality & Reliability
- Excellent workmanship
- Aesthetic & Ergonomic Design
- Innovative concepts
- Skill Engineering
- High Product Value
- Customer Satisfaction



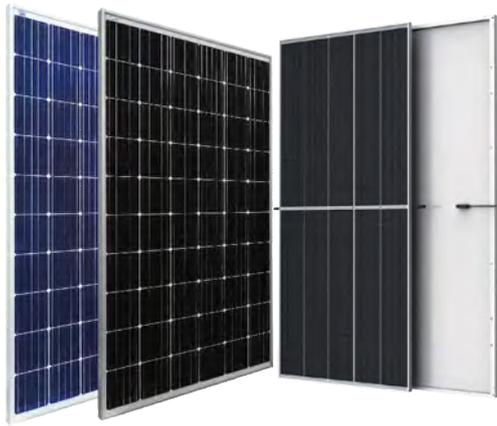
GEARED MOTOR / GEAR BOX

- Medium Gear Motor : 100W-7500W
- Micro Gear Motor : 6W-250W
- R-F-K-S Series Gear Motor : 0.12KW-11KW
- Spur & Planetary Gearbox for Servo
- Brake Available
- High Durability
- High Efficiency
- High Speed Ratio



PUMP STARTER PANEL

- Single Phase Starter Panel
- Direct On Line Starter
- Direct On Line Starter Panel
- Star Delta Starter Panel
- Auto Switch
- Auto Transformer Control Panel (ATS)



SOLAR MODULE

- 150MW Start-Of-Art Fully Automatic Manufacturing Facility
- High Power Module using Mono/Poly-crystal silicon solar cell
- Bypass diode to minimize power drop caused by shade
- Anti-Reflection coating and BSF (back surface field) Structure to improve cell conversion efficiency
- White Tempered Glass, EVA resin and weatherproof film along with AL frame for extended outdoor use
- 100% testing of all modules

LIMITED WARRANTIES - 25 YEARS

- 10 Years product warranty
- 90% of the specified minimum output of the module for a 10 years period
- 80% of the specified minimum output of the module for a 25 years period



High Performance Economical Drive

SOLAR PUMP DRIVE

- In-built auto MPPT
- V/F and SVC control
- Compatible with all 3-phase motor pumps
- Supports IM/PM/BLDC motors
- Solar and grid power compatible
- Dry run protection
- Support optional LCD display
- Support GPRS/ GSM modem
- MPPT efficiency up to 99%
- Overload capacity : 150% for 60 sec.

Internal EMC filter

Complies with EN61800-3 Category C3 3rd Environment

Enhanced reliability protection against humidity and pollution dust



SOLAR INVERTER - SOLAX

COMMERCIAL & INDUSTRIAL SOLUTION

- 16A DC input current per string, support high power solar panels
- Maximum efficiency : up to 99%
- Low startup voltage, Ultrawide MPPT voltage range
- IP66 protection
- Integrated SPD protection on both AC&DC
- Multiple monitoring methods, Pocket WiFi/LAN (Optional)/4G (Optional)



SOLAR PUMP

IN-HOUSE MANUFACTURING OF SOLAR PANEL, SOLAR CONTROLLER & SOLAR PUMP

- AC Pumps Range : 0.5 hp to 20 hp
- DC Pumps Range : 1 hp to 10 hp
- DC Helical Rotor Pumpset Range : 1 hp
- STC & MNRE Approved Solar Pump
- NABARD Registered Solar Pump



DRM RELAYS

2 CO & 4 CO Electromechanical Relays

- 1CO (DPDT) = 10A or 4CO (4PDT) = 5A
- 2.500 VA switching capacity
- Models with LED, diode and mechanical test avail.
- Available as kits or individual parts
- Models available with gold plated contacts
- International approvals: CE, UL, TUV
- Other voltages avail. (48, 110, 220 V DC & 48, 115 V AC)

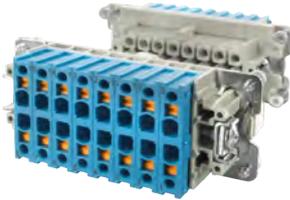
POWER SUPPLIES



SINGLE / THREE PHASE POWER SUPPLIES

- Single- and three-phase switched-mode power supply units
- Slim design
- Large temperature range from -25 °C to 70 °C
- Remote monitoring via integrated status relay
- Three-coloured LED indicators for simple error detection
- Advanced visual warning at 90 % rated output current
- International approvals

PCB CONNECTOR



- Mismatching protected
- Compact double row design
- Simple integration into front panel of device

TERMINAL BLOCK

- New push in contact
- Marshalling with up to 1700 signal connections

TOOL KITS



- Less lifetime costs due to long-lasting tools
- High process reliability

VARIABLE FREQUENCY AC DRIVE (VFD)



- Wide power range : 1 Phase / 230V : 0.25 HP to 3 HP
3 Phase / 415V : 0.5 HP to 860 HP
- V/F, Sensorless vector control of IM / PM / SynRM motors, Torque Control Modes
- Inbuilt PLC Function*
- Auto Energy Saving Function
- Built in EMI filter* & PID Feedback Control
- Supports various network protocols(EtherCAT, EtherNet/IP, DeviceNet, PROFINET, PROFIBUS DP, Modbus TCP, CANopen)
- Wide range of models to fit different industries
- Industry specific Drive for Elevator, Elevator Door, Textile
- Crane, CNC Spindle, Solar water Pump, Fan & Pump Application

PLC



- PLC supports 256 DI/DO / 512 DI/DO /1024 DI/DO
- Supports Modbus ASCII/RTU : RS232/RS485 & Modbus TCP/IP / Ethernet I/P : Ethernet
- Support 200KHz HSC & 200KHz : PTO
- RTC, Floating instruction & PID auto tuning function
- Special Module of Analog, Temperature, Position, Communication port, BAC net, Load cell & Remote IO modules (Devicenet and Ethernet)
- Pulse type motion controller (2/3 axes) & CANOpen/EtherCAT motion controller module

MODULARIZED MID RANGE PLC FOR PROCESS INDUSTRIES

- Highly integrated software ISPSOft : 5 languages (IEC-61131-3)
- Enhanced flexibility : Max. 100m between 2 local extension racks
- Improved maintainability : Hot-swapping function keeps the system running
- Utilizes dual-core multi-tasking processor Execution Speed:0.3ms/1k step
- Max DIO : 4,352 points, 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
- AIO modules, DIO modules, Temperature modules, Network modules, Pulse-train, DMCNET/EtherCAT motion control modules, Devicenet & Ethernet based RIO modules
- CPU, Backplane, Powersupply, Communication Redundancy supported



HMI



- 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) & Ethernet port
- Non editable history file & PDF writer
- Support USB Client for High speed download/upload
- Support 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 Inbuilt PLC

AC SERVO SYSTEM



- Rated Output : 10 W to 22.0 kW
- Rated Torque : 0.032 Nm to 140.0 Nm
- 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 Communication

TEMPERATURE CONTROLLER



- PID, ON/OFF, Manual & PID Program control modes (Ramp/Soak)
- Universal Input · Relay / Voltage pulse / Linear Voltage & Current Output
- Various Panel size LCD & 7 segment display option
- Dual Loop Output Control (Heating/Cooling Control)
- Auto tuning function · Blind Temp. Controller with dual O/P
- Special module for Valve Control · Retransmission Output
- Parameters down load via PC software
- RS-485 MODBUS communication · Password Protection & Key lock function

COUNTER/TIMER/TACHOMETER



- 3 IN 1 · Mixed Timer + Counter Function
- Decimal Point setup available · 6 digit LCD display
- Max.speed of the counter : 10kbps · DIP switch for quick setup change
- "Reset" & "Lock" key available for convenient use
- 12V power supply for internal & external sensor
- NPN & PNP input signal available · Relay & Transistor based output
- Pre-scale function displays input concrete function
- Optional RS485 communication

COMMUNICATION MODULE



- Convert RS-232 signals to RS-485/RS-422 differential voltage lines
- DeviceNet to RS-485 Converter · CANopen to RS-485 Converter
- Ethernet IP Gateway Converter · MODBUS IP Gateway Converter
- USB to RS-485 Converter · Support RS-485/RS-422 communication
- Various installation ways · Handle & isolate signal well
- Maintain data transmission correctly
- To decrease damage by using transmission wire
- Power & Shortage protection
- Compact size with easy to Install

BRUSHLESS MOTOR



- Power Range : GV 50W to 130W & KV 50W to 750W, GP 50W to 130W
- Rated speed : 3000 RPM & Max 4000RPM
- Standard and high torque gear head can be use
- Full time sine-wave drive with original CS sensor
- Speed control (0-5V DC)
 - 4 Internal speeds available
- Programmable DI / DO
 - Constant torque at 0-3000 RPM
- Low vibration, Low noise
 - Compact size
- Highly precise speed control with no slip

SENSORS



- Photoelectric Sensor
- Micro Photoelectric Sensor
- Digital Color Mark Sensor
- Inductive Proximity Sensor
- Digital Laser Sensor
- Digital Fiber Sensor
- Area Sensor

- Static Control Device (Static Remover/Ionizer)
- Safety Light Curtain
- Laser Scanner
- Digital Pressure Sensor
- Measurement Sensor



- Inductive Proximity Sensor
- Photoelectric Sensor
- Ultrasonic Sensor
- Capacitive Proximity Sensor
- Laser Sensor
- My-Com Switch

OPTICAL FORK SENSOR

- Detection of opaque labels
- Fork width of 3 mm for precise sensing
- Fork depth of 40 mm to accommodate wide range of labels
- 4 - wire function for NPN/PNP + NO/NC outputs
- User friendly and easy settings



ULTRASONIC FORK SENSOR

- Detection of transparent labels
- Fork width of 3 mm for precise sensing
- Fork depth of 69 mm to accommodate wide range of labels
- 4 - wire function for NPN/PNP + NO/NC outputs
- User friendly and easy settings
- Metal housing for sturdy operations



PROCESS SENSORS

PRESSURE TRANSMITTERS

- Suitable for Air/ Industrial Gases / Liquid (Water, Oil) & Hygienic Applications.
- Standard analog output 0 -10V or 2 wire 4 - 20mA
- Different process connections. 1/2 & 1/4 BSP, NPT, TC End
- Wide pressure range. Vacuum, 0 Up to 1000 Bar, mili bar ranges
- FDA, 3A & EHEDG approvals, Suitable for CIP & SIP

LEVEL SENSORS

- Suitable for level detection of Liquid / Powder / Sticky Material etc...
- Alternate solution of fork type level sensor
- Small Immersion length, Point level detection and contact type

CONDUCTIVITY TRANSMITTER

- Suitable for Dairy & F&B Applications
- Available in compact and cable version (Split Version)
- Built in graphical display with touch screen, All hygienic design
- Suitable for CIP, 3A & EHEDG approvals

FLOW SENSORS

- Measures flow velocity of liquid materials only
- Wide measuring range from 10 to 400 Cm / Sec
- Measures flow and temperature at same time
- Suitable for CIP & SIP
- Flexible outputs (2 Switching O/P, one switching O/P & one Analog output, 2 Analog outputs)

TEMPERATURE SENSOR & TRANSMITTERS

- PT100 2 wire sensor with built in transmitter
- Head mounted type temperature transmitter





VISION SYSTEM

- Advanced vision system with high end performance
- 0.3M, 2M, 4M gray / color camera options
- Dedicated stand-alone controller with upto 4 camera connection
- All major inspection functions / checkers available with pre-processing analysis
- Reading and verification of 1D, 2D, Pharmacode etc...
- Advance OCR/OCV tool for reading and verification of text
- Connects to a variety of PLCs
- Ultra high-speed data transfer by gigabit Ethernet



BARCODE READERS

- Variety of Options available for Fixed-Mount, Handheld and Mobile Solution
- Can Read any Symbolologies of 1-D Codes, 2-D Codes, Postal Codes, DPM
- Patented Technology for Optimal Performance and Tractability
- Advance Functions like 1D Max, Hotbars, 2D Max, PowerGrid, HDR, HDR+, 1-D/2-D Auto-Discrimination, Multi-code
- Modular Design for Maximum Flexibility, Liquid lens & Easy Setup Tools & Operation



BARCODE VERIFIERS

- High-performance code quality verifier
- Generate reports to demonstrate compliance within industry standardization guidelines
- Packed with powerful lighting options, robust grading algorithms, a high-speed processing engine, and a high-resolution camera
- Only DPM verifier on the market with 30, 45, and 90 degree lighting options
- Fast, accurate algorithms provide reliable and repeatable results



VISION SENSOR

- Proven, reliable Cognex In-Sight vision tools
- Compact, modular design with field changeable, integrated optics and lighting
- Autofocus lens eliminates the need to manually refocus or adjust the mounting height of the sensor during line changeovers
- Single-cable Power over Ethernet (PoE) models simplify installation
- Monochrome and color image models with Flexible Mounting Configurations



2D & 3D VISION SYSTEM

- Provide reliable, repeatable performance for the most challenging applications
- Industrial grade with a library of advanced vision tools
- High speed image acquisition and processing
- Exceptional application and integration flexibility
- Industry-leading Vision Technology includes Deep Learning, PatMax RedLine™, PatMax® 3D, HDR+, SurfaceFX™
- Vision System with upto 12M monochrome and color options



MASS FLOW METERS & CONTROLLERS

- Pressure Controllers
- Liquid Flow meters and Controllers
- CORIOLIS Based flow meters and controllers
- Fast, Accurate and Configurable
- Laminar Flow -DP based measurement technology
- Analog & Digital Communication in same instrument
- Fastest response time 10ms for meters and 100 ms for controllers
- No warm up time · Built-in 98 gases
- Widest operating range / Turn down ratio 10000:1



DIGITAL INDUSTRIAL CAMERA

- Excellent image quality and high frame rates, a camera design which enables rapid and flexible integration
- Wide variety of cameras in color and monochrome versions as well as resolution ranging from VGA to 25 megapixel
- The cameras are based on innovative technologies such as CCD & CMOS and include all relevant standard interfaces (GigE Vision®, USB3 Vision™ and Camera Link®)



CNC CONTROLLER

LNC

- 1-9 Axes Controller · Dual Channel Option available
- Type - 2+1 Turning or 3+1 Milling Controller · Display - 7" Or 8" Colour
- EtherCAT Digital or Pulse type System · Ethernet, RS485 Port
- Inbuilt I/O (161 X 160) x 2, Expansion I/O Possible
- Absolute Encoder Connectivity · 256MB SD or 1GB CF Card, USB Port
- Macro Command, Background Editing · Gantry function for Axis pair
- Linear or Rotary Axis Selection · WebAccess / Industry 4.0 / Cloud Monitoring



HUST

- 1 - 9 Axes Controller · Pulse and Analog Command
- 5.7", 8.0" & 10.4" Display · Graphical simulation & MPG Function
- 48/32 I/O Inbuilt and 192/128 Expansion I/O
- Program memory up to 512 KB (USB 2GB optional)
- RS232 Communication, Gantry Function
- User can design PLC & Screen program
- User can design program by CAD / CAM
- Macro Command, NPN - Input type



PLASMA CONTROLLER

- Dedicated for plasma & gas cutting
- 2-3 Axes Controller · 7" / 10.4" / 15" Colour Display
- Plasma, Gas cutting & Dusting Draw machine
- 48 categories different graphics ready to use
- Support FastCAM, FreeNEST & SmartNEST IBE Software
- 64 MB CF card, USB supported · Torch height control interface possible
- Easy to download new graphics · Supported XY Mirror, Angle adjustment
- Zoom In / Zoom out, Lead In & Lead Out
- Brake point recovery, Backward & forward Function



ENGRAVING CONTROLLER

- Dedicated Controller for Woodworking & Stone Carving
- User Friendly Remote Unit · 3+1 & 5+1 - Axes Control
- Precision High Speed machining · 5.6 Inch Color Display
- 0-10V Spindle Command · Arc Machining – Smooth and Fast
- Backlash Compensation
- USB Supported, Inbuilt SD Card, EMG-Stop Switch on remote
- Manual pulse Generator with 1, 10, 100 Micron selection
- Break Point Resume, Own Screen Design
- I/O can be modified, User Define Alarm
- ATC Configuration is possible · Touch Probe, 10 Work Offset
- All Type Tool path program supported



INJECTION MOLDING MACHINE CONTROLLER

- Dual CPU : ARM or X86 industrial CPU is used in Human-Machine Interface unit and microprocessor with RISC is used in the system unit
- The product is equipped with USB interface, so that molding parameters can be backed up and the updated program can be download
- An Ethernet cable is connected between the HMI unit and the system control unit. Its speed is 10 times faster than the traditional RS232
- Human-machine operating system uses Linux-OS, which not only improves the stability but also supports many kinds of peripheral devices
- HMI with 7.4" , 8.4" , 10.1" TFT LCD panel, full color screen display, vivid colors, and sharp images. The status animation can be displayed



ENERGY SAVING SYSTEM FOR IMM

- Significant result of Energy Saving (Up to 87%)
- Reliable IMM Control Experience
- High Quality Servo Motor Drive Technology
- Most Energy Saved with Servo Motor
- Safety and Protection is the top priority
- Precise pressure control
- Computer control units Integration



POSITION TRANSDUCER

- LTM Series, ROD type Linear Scale, Stroke Length : 50 ~ 900mm
- PKM Series, Slider type, Linear Scale, Stroke Length : 100 ~ 2000mm
- Repeatability : <0.01mm
- Shift speed : 10 m/sec.
- Operating Temp. : -30° ~ +100°C



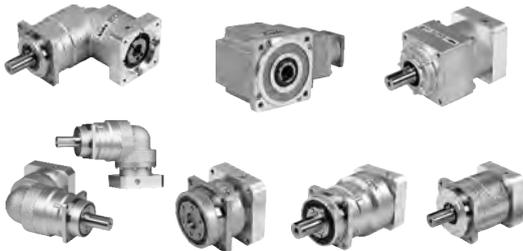
PT - PRESSURE TRANSDUCER

- 0 - 250 Bar & 0 ~ 1000 Bar
- 0-10VDC, 0.1~10.1VDC, 4~20mA analog output
- Process Temp. : -40° ~ +125°C



HYDRAULIC PUMP

- Helical & Internal Gear Pump With Axial & Radial Gap Compensation
- Range : 25cc ~ 160cc
- Suction & Pressure Port Radial · Low Noise
- Low Pulsation (Pressure Pulsation ~ 2%)
- Fast Reverse RPM Allowed : Max < 400
- Intermittent Operation At High Pressure & Low Speed



SPEED REDUCER

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

Application

- Packaging Machines
- Machine Tools & Metal Forming
- Plasma CNC Cutting Machine
- Medicine MFG, Pharma Machines
- General Automation & Testing
- Printing Machines & Conveyors
- Semiconductor & Circuit MFG



FLEXWAVE

Latest Technology development - Strain Wave Gear Technology - consist of Flexible drum and Elastic Bearing

- Near Zero backlash (lost motion < 1 arc min)
- High efficiency ratings
- High reduction ratios in a compact footprint
- Exceptional repeatability and torsional stiffness
- Extremely light weight with superior torque density

Application

- Robotics, Medical Equipment, Semiconductor & Circuit Mfg. Machine Tools or Any Assembly Automation



CORONEX

Technology Development - Epitrochoidal or Cycloidal

- Original tooth profile by Nidec-Shimpo
- High accuracy with zero backlash (<1 arc min)
- Compact Size
- High Rigidity & Torque
- Low Noise
- High Efficiency
- Hollow Input

Application

- Robotics, Indexing Table, Machine Tools, Pipe Bending, Wire Forming, Welding Positioner, Automobile Automations, Solar Tracker, Medical Equipment,

AGV (Automatic Guided Vehicle) S-CART



- Perfect for Material movement - Towing, Lifting & Conveying
- Payload capacity - 100, 500, 1000 Kg
- 8 Hour continuous operation (1 Hour charging time)
- Normal Speed 30 m/min, Max Speed up to 60 m/min
- Autonomous and guide less Navigation without the need for magnetic tape tracks
- Obstacle detecting sensor, Emergency stop, LED status, JIS (Japanese Industrial standard) approved
- Controlled remotely from a Tablet or PC
- Perfect for Food Industries, Pharma industries, Automotive, Logistics, E-Commerce, Warehouses and Mass Manufacturing set-ups

PRECISION WORM GEARBOXES



- Preloaded input taper bearings
- Maintenance free
- Oversized taper roller bearings
- Single piece housing
- Output torsional backlash available in 3 ranges
- Optimized contact pattern
- Special bronze alloy
- Gearheads can run up to 6000 RPM
- Servomotor mounted within 5 minutes

COMPONENT TYPE



RV Series

- RV Original (No main bearing) · RV N
- RV C (Hollow shaft) · RV E

Application

- Industrial Robots, Welding Positioner, Turn Table & Indexers, Automated Gantry, Machine Tool, Pipe Bending Machine

GEARHEAD TYPE



RD Series

- RDS-E/RDS-C (Hollow shaft)
Right angle input type
- RDR-E/RDR-C (Hollow shaft)
Pulley input type
- RDP-E/RDP-C (Hollow shaft)

RS Series

- RS - 900A
- RS-320A

GH Series

- Flange Output
- Shaft Output

Application

- Industrial Robots, Welding Positioner, Turn Table & Indexers, Automated Gantry, Machine Tool, Pipe Bending Machine

SERVO ACTUATOR - RV AF

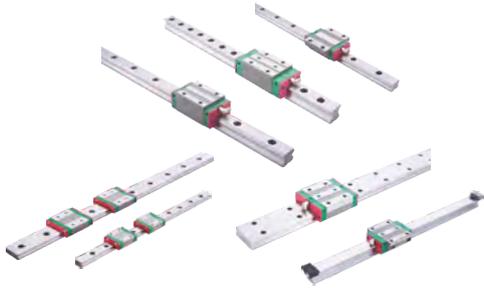


Integrated Nabtesco precision gear & Servo Motors from Panasonic Corporation

- Simple, Compact, Worry-free Actuator
- Unified drive ensures safety, Comfort & a sense of security

Application

- Industrial Robots, Welding Positioner, Turn Table & Indexers, Automated Gantry, Machine Tool, Pipe Bending Machine



LM GUIDE

Linear guideways provides linear motion by re-circulating rolling elements between a profiled rail and a bearing block. Hiwin Corporation offers multiple linear guideway series, each featuring different options for sizes, loading capabilities, accuracies and more.

PRODUCT RANGE

- HG - Machine Tools
- EG - Automation Industry
- WE - Single Axes Equipment
- RG - High Rigidity Application
- MGN - Medical & Semiconductor
- QE - Highspeed Requirement
- CG - Cover Strip for Dustproof



BALL SCREW

- Ballscrews convert rotary motion into linear motion and are most commonly used in industrial machinery & precision machines
- Hiwin Corporation has the capability of producing JIS C0 class ground ballscrews, & DIN 5 class for precision rolled ballscrews. Ballscrew O.D. ranging from 4mm to 120mm & with Dm-N values up to 220,000

PRECISION GROUND / ROLLED

- Super S series
- Super T series
- Mini Roller
- Rotating Nut (R1)
- Heavy Load Series (RD)



LINEAR MOTOR

- Max. acceleration 100 m/s²
- Max. speed 5 m/s
- Length up to 4,000 mm
- Equipped with coreless linear motors
- Slight inertia and fast acceleration
- No cogging
- Simple assembly
- Especially rigid aluminum frame with low profile



INDUSTRIAL ROBOT - SINGLE-AXIS ROBOT

- Complete selection of single-axis robots and accessories
 - Drive type : Ballscrew, Tooth belt
 - AC motor output : 30W-750W servo motor or stepper motor
 - Motor connection type (depends on available space):
 - Direct, Bottom, Internal, Left, Right
- Max stroke : 100mm
- Easy installation
- Customized designs available
- Easy transformation multi-axis robot



TORQUE MOTOR & DIRECT DRIVE MOTOR

- No backlash
- Hollow shaft
- No gear transmission losses
- Max Torque : 450Nm
- Repeatability : ±3 arc/sec.
- Max. Speed : 700RPM
- Resolution : 4320000 p/rev



TORQUE MOTOR ROTARY TABLE

- Zero backlash provide stable accuracy
- Compact structure design
- Using axial/radial bearing
- Provide high dynamic accuracy
- High rotation speed



LINEAR ACTUATOR

- Offering an electricity elevating platform
- Simple installation
- Light Weight & compact structure
- High rigidity



MOTION CONTROLLER

- 1.5 Axis to 128 Axis controller
- Multi-tasking programming using Trio basic software
- Supports IEC 61131-3 programming
- Supports Analog Servo close-loop and Pulse O/P control
- Support digital drives on RTEK, EtherCAT, SERCOS, SLM
- Anybus CC device supports : Devicenet, CANopen, CCLink, Profibus, Profinet IO, Modbus-RTU & TCP
- Digital & Analog I/O Expansion module available
- Built-in Ethernet, CAN, RS232 & RS485 port
- SD card for memory data transfer

WebAccess



SCADA

- Client view support for mobile & PC
- Open real-time data connectivity : OPC, Modbus, BACnet, DDE Server
- Open offline data connectivity : SQL Server, Oracle, MySQL, MS Access Database
- Redundant SCADA & Communication Ports
- Google Maps and GPS Location Tracking · Support Customize Report
- Remote access to alarms, Data and E-mail alarms, SMS alarm notification
- Support LonWorks LNS and BACnet IP
- Ample Driver Support - Web Access support hundreds of devices
- Multi-touch gesture support
- Web-enabled video and audio integration
- Special Tools for Scheduler and EMS System



INDUSTRIAL PANEL PC

- Embedded Industrial Touch Panel PC (TPC), Automation Panel PC(PPC), Rack mount chassis PC which can be used for widerange of industrial application
- Slim and compact 6 cm depth fanless design, Easy for space limited installation
- Varieties of Sizes available: 5.7",6.5",10",12",15",17",18.5" & 21.5"
- Varieties of Motherboard : SBC, Mini-ITX / Mirco ATX, ATX
- Varieties of Intel processors: Intel Atom, Dual core, Core2 Duo, Core2 Quad, Intel core i3, i5, i7, Celeron mobile
- Variety of OS support including : WES7, WinXP/XPe, WinCE and Linux
- Extremely rugged design with die-casting bezel & Aluminium housing
- Wide temperature range -20deg ~ 60deg for harsh environment
- Front panel: NEMA4, IP65 certified & 2KV Isolation protection



INDUSTRIAL EMBEDDED BOX PCS

- Varieties of Intel processors: Intel Atom, Dual core,Core2 Duo, Core2 Quad, Intel core i3, i5, i7, Celeron mobile
- 4 x GbE support IEEE 1588, 2 x USB 3.0 super-speed ports
- 4 x DI, 4 x DO, 1 x RS-232, 2 x RS-422/ 485
- DP + VGA dual display outputs
- Dual Power Inputs and Wide Temperature
- iDoor technology support with PCI Slot
- Extremely rugged design with die-casting bezel & Aluminium housing
- 2KV Isolation protection prevents damage from accidental shock, Surge or ground loops
- Front panel: NEMA4, IP65 certified
- IEC 61850-3 and IEEE 1613 Certified Substation computers
- Class I, Division 2 Certification for Oil & Gas



ADAM SERIES



DISTRIBUTED I/O MODULES & CONTROLLERS

- Support 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
- Isolated Repeaters & converters range (Rs232 to Rs485, USB toRS232/RS485/RS422, Fiberoptic to RS232/RS485/Rs422)
- Multiple protocol support : Modbus TCP, TCP/IP, UDP, HTTP, DHCP, Ethernet/IP, Profinet
- Intelligent control ability by Peer-to-Peer and GCL function
- Web language support: XML, HTML 5, Java Script
- Support Wide communication distance range upto 15Km
- Wide Temperature & Power Input Range
- Over Current and Temperature Shutdown
- Surge, EFT and ESD Protection

DATA ACQUISITION AND CONTROL CARDS



PCI/PCIE SERIES DAQ MODULES :

- Support PCI/PCIE/USB based DAQ card
- Max.96ch isolated DI/DO modules
- Max.250Ks/s high speed AI/AO modules
- 8-port PCI/PCIE Serial Communication Card(RS232/RS485/RS422) with Surge Protection
- Support PCI/PCIE based Motion card for machine automation

USB DAQ MODULES :

- Portable, Robust & Versatile
- Max. 200 kS/s, 16-bit, 16-ch Multifunction USB Module
- Max.48/24 TTL digital I/O modules
- Support DIN-rail/Wall/Panel/Vesa mount

Software Support



INDUSTRIAL COMMUNICATION



WLAN DEVICE SERVERS

- 1/2-port RS232/422/485 to 802.11b/g/n WLAN Serial Device Servers modules
- 1/2-port RS-232/422/485 to GPRS IP Gateways modules
- Dual SIM slots for connection redundancy

SERIAL DEVICE SERVER/MODBUS GATEWAY

- 1-port/2-port/4-port RS-232/422/485 Serial Device Server
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy

INDUSTRIAL ETHERNET SWITCHES

- Max.16 High speed port Ethernet managed/unmanaged switches
- Redundant Dual 12 ~ 48 VDC power input and 1 relay output
- Class-1 Div-2 certified & IPv6 support

ROTARY ENCODERS



- Compact & Rugged Design
- **Resolution** : 100 ~ 480000 PPR
- **Operating Voltage** : 5V, 4.75-30V, 8-30V DC
- Available in **Shaft diameter** : 6mm, 8mm, 10mm
Hollow Shaft diameter : 8mm, 10mm, 12mm, 14mm, 15mm, 20mm, 25mm, 30mm...115mm
- **Output Type** : Open Collector, Push-pull, Line Driver, Programmable Encoder, Communication Encoder, Sin-Cosin Encoder
- Available with different communications CANopen, PROFIBUS, Device Net, SSI, Parallel Interface, EtherCAT
- Linear Encoder, Magnetic Encoder, Heavy duty Encoder, Cable-Pull Encoders
 Bearingless Encoders with 16-740mm Hollow Shaft diameter

RESOLVERS



- Absolute Position & Velocity detection
- Angle Sensor that Converts Rotational Angles Into Electric Signals
- Input Voltage 4V, 5V, 7V, 10V AC rms
- Allowable rotating speed up to 40,000RPM
- Robustness against noise enables long-distance transmission
- Constant output against Moisture, Vibration, Dust, Temperature, Humidity

STEPPER MOTOR



2 PHASE & 5 PHASE

- Small driver and motor, yet high torque
- Fast response provides shorter system cycle time for repetitive operations
- Smooth drive is provided even with coarse resolution of one division (full-step) or two (half-step) settings
- Microstepping system
- Driving step angle is 1.8 degree/pulse. The dip switch enables changeover between full-step (1.8 deg) and half-step (0.9 deg) operation
- LED indication when a heatsink excessivel heats up

RTA STEPPER DRIVER



- **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
- Support CANopen, EtherCAT communication
- High Efficiency CHOPPER with MOSFET final stage output
- Electronic damping facility for further acoustic noise & mechanical vibrations reduction

TYPES OF STEPPING DRIVES



SCHNEIDER MAKE SWITCHGEAR PRODUCTS



- ACB
- MCCB
- SDFU
- MCB
- RCCB
- MPCB
- Power Contactor
- Control Contactor
- Thermal Overload Relay
- Capacitor Duty Contactor
- Power Factor Capacitor
- Push Button
- Selector Switches
- Indicating Led Lamp
- Digital Panel Meter

DC COOLING FAN



Wide Temperature Range DC Cooling Fan

- -40°C to 85°C
- 40,000 hrs
- 40 mm to 120 mm Fan size
- 12 Vdc or 24Vdc supply



ETHERNET SWITCH

- Unmanaged switches, managed switches, PoE switches, Rackmount switches and EN 50155 standard switch
- Up to 52 Port Option available
- Up to 10 G speed
- In-build fiber / SFP/ M12 / PoE / DSL / PTP connection option
- Suitable for Hazardous Location
- Industrial-grade reliability, Network redundancy, Strengthened security, Easy management
- Competitive price-to-performance ratios
- ATEX, Class I Division 2, ABS, DNV-GL, LR, NK, NEMA , EN 50121-4 , EN50155 Certified Product



SERIAL DEVICE SERVER

- General / Wireless and Secure terminal Server Option
- Up to 16 Serial Port Option with RS232/RS485/RS422 connectivity
- Inbuilt Remote I/O Option
- Ethernet redundancy with Turbo Ring/Chain and RSTP/STP supported
- IEC 61850-3, IEEE 1613 (power substations) compliant
- IEEE 1588V2 and IRIG-B time synchronization functions
- Supports IEC 61850 MMS protocol
- Security features based on IEC 62443/NERC CIP
- -40 to 85°C wide operating temperature



SERIAL CONVERTERS

- Serial to Serial , Serial To fiber, Fieldbus To Fiber Option
- Decreases signal interference
- Protects against electrical interference and chemical corrosion
- Supports baudrates up to 921.6 kbps
- Wide-temperature models available for -40 to 75°C environments
- CAN and Profibus protocol Supported



USB TO SERIAL CONVERTER

- Up to 16 Serial to USB option / Up to USB HUB Option
- Hi-Speed USB 2.0 for up to 480 Mbps USB data transmission rates
- 921.6 kbps maximum baudrate for fast data transmission
- Real COM and TTY drivers for Windows, Linux, and macOS
- Mini-DB9-female-to-terminal-block adapter for easy wiring
- LEDs for indicating USB and TxD/RxD activity
- 2 kV isolation protection (for "-I" models)



PROTOCOL GATEWAY

- DNP3/IEC 101/IEC 104/Modbus-to-IEC 61850 gateways
- Modbus RTU/ASCII/TCP-to-PROFINET / Ethernet IP / Bacnet IP gateways
- Modbus/PROFINET/EtherNet/IP to PROFIBUS slave gateways
- 8 and 16-port redundant Modbus gateways
- PROFIBUS to PROFINET gateway
- Easy and web configuration utility



MUTIPOINT SERIAL BOARD

- PCIe/UPCI/PCI Serial Cards
- Up to 16 Port Option on single board
- CAN communication option
- Onboard Isolation Option
- Software Selection for RS-232/422/485
- Low-profile form factor fits small-sized PCs
- Easy maintenance with built-in LEDs and management software



CONTROLLERS & I/O

- Multiple DI/DO/AI/AO option
- Serial / LAN and wireless Option
- Relay / Thermocouple and RTD option
- Control Logic through C/C++/IEC-61131-3
- Communication through Modbus Serial / Modbus TCP/IP / Ethernet IP / Restful API / SNMP
- Stand Alone and Moduler Option
- Rugged and compact design



ETHERNET MEDIA CONVERTERS

- 10/100/1000BaseT(X) and 1000BaseSFP slot supported
- Link Fault Pass-Through (LFPT)
- Power failure, port break alarm by relay output
- Redundant power inputs
- -40 to 75°C operating temperature range (-T models)
- Power failure alarm by relay output
- IEEE 802.3af and PoE standard compliance Option
- Hazardous locations (Class 1 Div. 2/Zone 2, IECEx) and EN61850-3 certified product



WIRELESS AP/BRIDGE/CLIENT

- IEEE 802.11a/b/g/n compliant client
- Comprehensive interfaces with one serial port and two Ethernet LAN ports
- Millisecond-level Client-based Turbo Roaming
- Easy setup and deployment with AeroMag
- Easy network setup with Network Address Translation (NAT)
- Integrated robust antenna and power isolation
- Anti-vibration design
- Compact size for your industrial applications



CELLULAR GATEWAYS/ROUTERS

- GuaranLink for reliable cellular connectivity
- Dual cellular operator backup with dual-SIM
- Cellular WAN and Ethernet WAN backup mechanism for a complete path redundancy
- Rugged hardware design well suited for hazardous locations (ATEX Zone 2/IECEx)
- VPN secure connection capability with IPsec, GRE, and OpenVPN protocols
- Primary and secondary power inputs for power source redundancy
- Cellular link redundancy with dual-SIM GuaranLink support
- DIN-rail housing and wall-mountable housing
- Centralized private IP management software with OnCell Central Manager



SECURE ROUTER

- All-in-one firewall/NAT/VPN/router/switch
- Secure remote access tunnel with VPN
- State full firewall protects critical assets
- Inspect industrial protocols with Packet Guard technology
- Easy network setup with Network Address Translation (NAT)
- RSTP/Turbo Ring redundant protocol enhances network redundancy
- -40 to 75°C operating temperature range (-T model)
- Security features based on IEC 62443/NERC CIP and EN50155 Product
- Check firewall settings with intelligent Setting Check feature



IOT GATEWAY

- Armv7 Cortex-A8 300/600/1000 MHz processor
- Dual auto-sensing 10/100 Mbps Ethernet ports
- Inbuilt DI/DO option
- Rich programmable LEDs & a programmable button for easy installation & maintenance
- Moxa Industrial Linux with 10-year superior long-term support
- Mini PCIe socket for Wi-Fi/cellular module
- SD slot for storage expansion
- -40 to 85°C wide temperature range and -40 to 70°C with LTE enabled
- IEC 61000-6-2/6-4 standards for harsh industrial environments
- Suitable for IoT application
- Microsoft Azure , AWS certified device

APPLICATION ENGINEERING / MARKETS

Our solutions can boost efficiency in a range of applications across industrial and commercial environment including plastic, textile, packaging, ceramics, pharma, manufacturing, automobile, machine tools, oil & gas, food & beverages, IOT, commercial establishments and others. We have capability to cater to startups, medium to small enterprises as well as large enterprises.

TEXTILE



AC Drive - Encoder - PLC
- Resolvers - SCADA - Industrial Panel PC

MACHINE TOOL



CNC Controller - Encoder - Resolvers
- SCADA - Industrial Panel PC

PLASTIC



AC Drive - PLC - Vision Sensor
- SCADA - Industrial Panel PC

OIL & GAS



SCADA - Industrial Panel PC

PHARMACEUTICAL



Ultrasonic Sensor - Inductive Proximity Sensor
- Vision Sensor - Photoelectric Sensor
- Digital Industrial Camera - Vision System - SCADA

ROBOTICS



- Vision Sensor
- Digital Industrial Camera
- Vision System

CERAMICS



SCADA - Industrial Panel PC
- AC Drive - PLC

AUTOMOBILE



Encoder - Resolvers - Vision Sensor
- Digital Industrial Camera
- Vision System - SCADA - Industrial Panel PC

PRINTING MACHINE



AC Drive - AC Servo - Sensor
- AC Gear Motor - PLC - Motion Controller

ELEVATOR



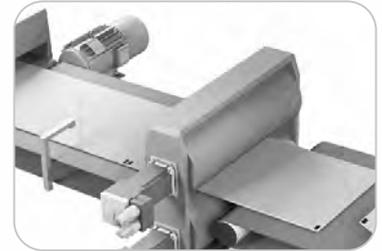
AC Drive - Encoder

FOOD & BEVERAGE



PLC - Speed Reducer - Encoder - Resolvers
- 2 & 5 Phase Step Motors - Motion Controller
- Sensors - Vision Sensor - Vision System
- Digital Industrial Camera - SCADA - Industrial Panel PC

PACKAGING MACHINE



AC Drive - PLC - AC Gear Motor
- AC Servo System - Speed Reducer
- Encoder - Resolvers - 2 & 5 Phase Step Motor
- Motion Controller - Sensors - SCADA
- Vision System - Industrial Panel PC

INJECTION MOLDING



Energy Saving Servo - Hydraulic Pump
- Dedicated Controller - Linear Scale

MACHINE TOOL/SPM



LM Guide - AC Servo - Ball Screw



- HEAD OFFICE
- BRANCH OFFICE

This map of INDIA does not reflect accurate boundaries. It is only for illustration purpose.



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MUMBAI

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Andheri [E], MUMBAI - 400 059.
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PUNE

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Opp. Breman Square, University Road, Aundh Pune - 411 007.
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LUDHIANA

BXX1/14436, Nr. Dada Motors, Besides HDFC Bank,
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Malagala, 2nd Stage, Nagarabavi, Bangalore-560072, Karnataka.
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#Plot No 24/1, Ground Floor, 1st Main Road,
Vaagai Nagar, Korattur North,
Chennai - 600 076.

COIMBATORE

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Selvapuram By-Pass Road, Coimbatore - 641026.
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