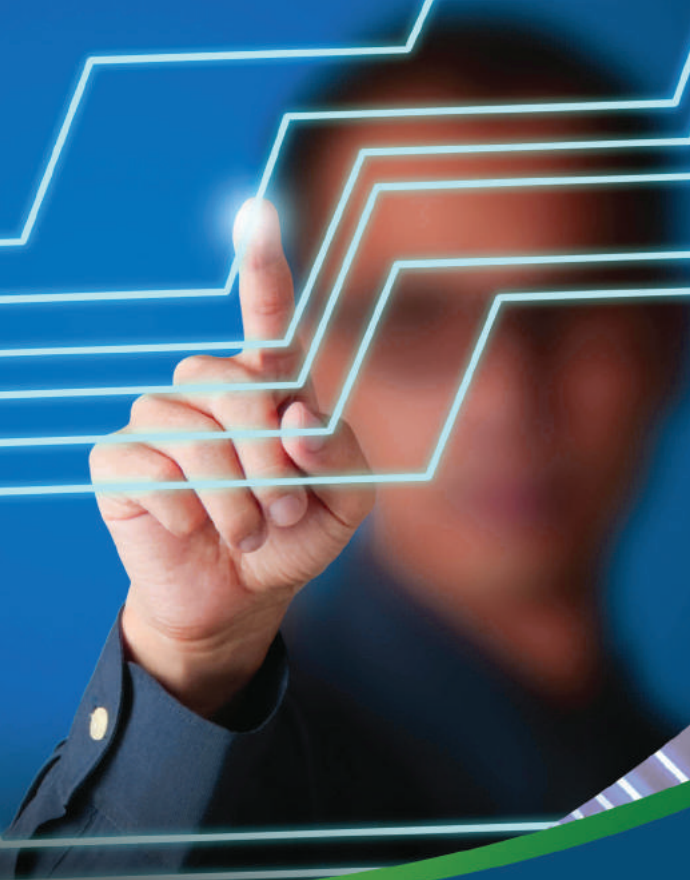


Automät

Engineering Revived

Industrial Automation Solutions



DRIVES PLC HMI INDUSTRIAL CPU SERVO MOTOR SERVO DRIVES
CNC CONTROLLERS PROCESS CONTROL SYSTEMS PCB & POWER SUPPLY

Introduction

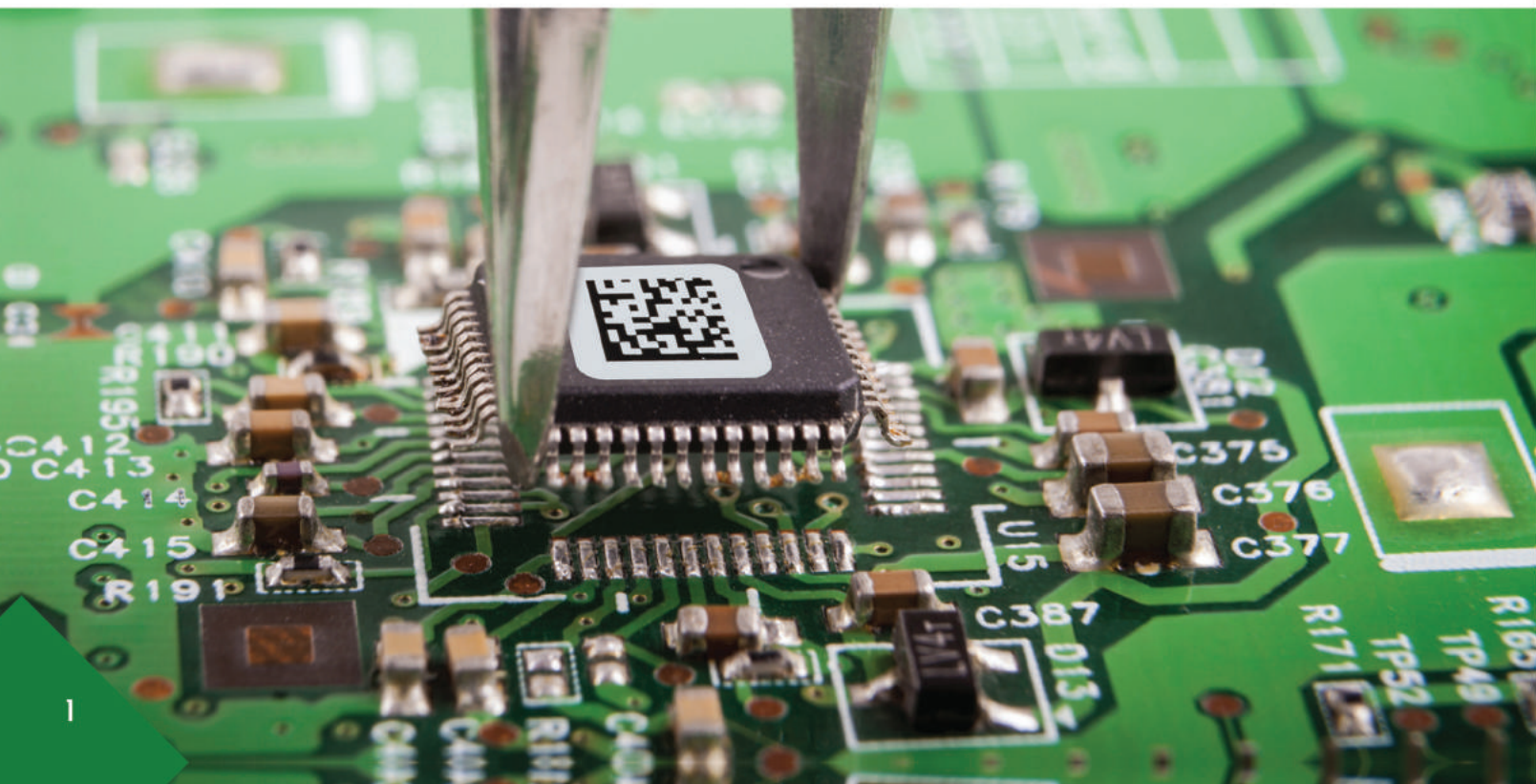
Pioneers in the field of Industrial Automation Services

Automat has established itself as a Single Source Service Point organization, catering to every requirement in the field of Industrial Automation. From High End OEM Repairs, to Supply of Spares, we at Automat ensure that all your maintenance issues are catered to.

We at Automat comprise of a team of highly skilled and qualified personnel in their respective areas of specialization. The core team comprises of the Engineering Department, the Operations Department, and Customer Service, well knitted together by the Management in a structured and transparent manner to provide our customers the highest standards of service.

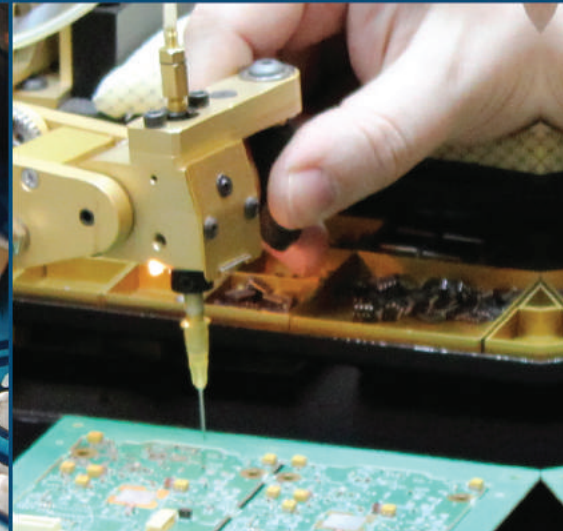
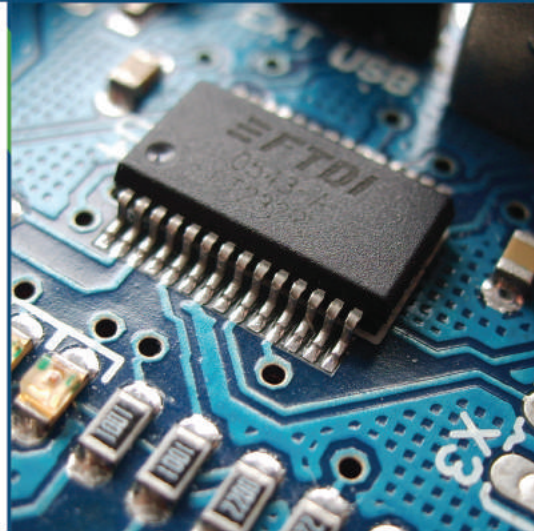
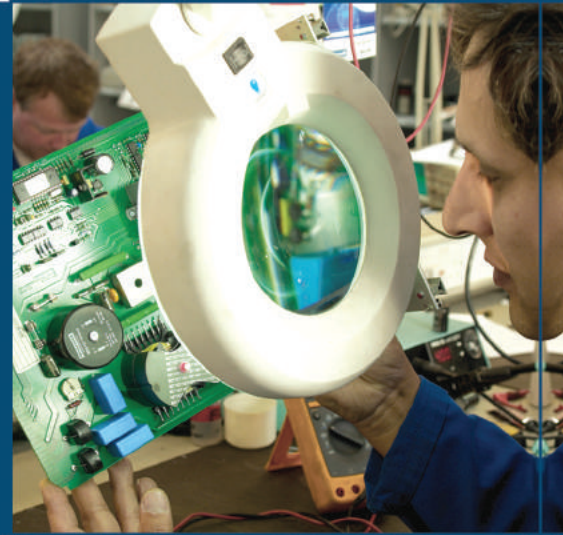
Being customer centric, we build strategic partnerships through our global suppliers and supply chain to provide Excellence in Service, Exceptional Quality, Affordable Pricing and Innovative Solutions. Our Network of OEM suppliers, sales offices and extensive distribution network, places us as one of the leading service providers, to all Automation requirements.

Aggressive in our approach towards research and development, we ensure in providing solutions to Re-manufacturing, System migrations and Turn Key solutions using the latest in cutting edge technology. This is what we call...**Engineering Revived!!!**



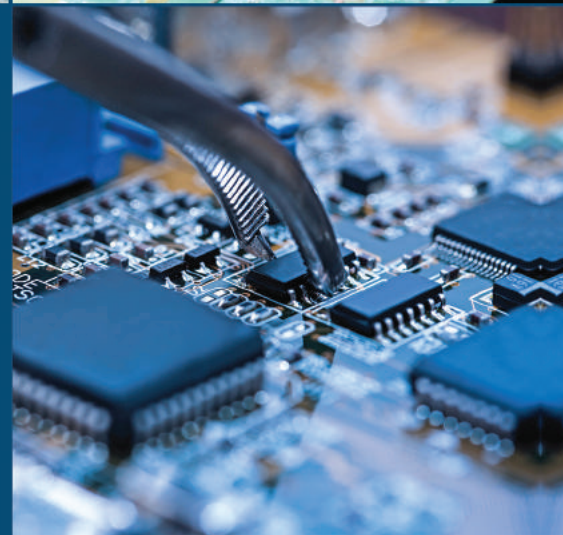
Our Services

- Automation Repairs
- Supply of Spares
- System Upgrades
- Industrial Training
- Turn Key Solutions



Why Choose Automat

- 24 X 7 Free Collection & Delivery
- Free Assessment & Quote
- Comprehensive Testing Facility
- Flexible Warranty Options
- Minimise Failure Cost
- Huge Spares Inventory
- Extensive Knowledge Base



Drives

AC / DC / Inverter / Soft Starter / VFD



ABB

- ACS Series
- Sami Start



Allen Bradley

- Power Flex 4, 40
- Power Flex 525
- Power Flex 700 Series
- 1336 Series



Parker SSD

- 605 Series
- 650 Series
- 690 Series



Emerson

- Unidrive
- Commander Series



Danfoss

- VLT Series
- FC Series



Lenze

- 7800 Series
- 8200 Series
- 9300 Series
- SMD Series



Schneider Electric

- Altivar Series
- Altistart Series
- S/E/M Flex Series
- Power Guard



SEW

- Movidyn
- Movitrac
- Movidrive



Siemens

- Micro Master
- Midi Master
- Simo Drive
- Simover
- Master Drive MV/VC/FI
- Sinamics
- Simoreg



Vacon

- Vacon 10, 20 Series
- NXL, NXS
- NXP Air Cooled



Yaskawa

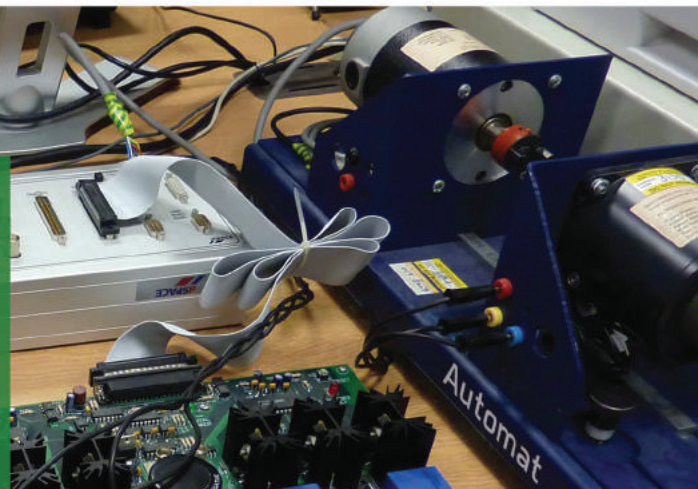
- CIMR Series
- A1000/V1000 Series
- L100A / L100V
- T1000

Expertise in repairing

- AC Drives
- DC Drives
- Soft Starters
- Inverters
- VFD

Testing

- Testing communication connections
- Testing operator panels, when installed
- Testing the control input (Digital and Analog)
- Testing under nominal power using three stage testing
- Test reports are available upon request.



Servo Drives



Siemens

- Sinamics
- Simodrive 610
- Simodrive 611
- Simodrive 650
- Simodrive 660
- Simodrive 690



Baumuller

- Bus 3
- Bus 6 VC
- Analog Drives
- Digital Drives



Indramat / Rexroth / Bosch

- ANAX
- DIAX 1/2/3/4
- DKR
- Ecodrive 01/03
- Indradrive
- RAC



Kollmorgen

- 60WKS
- AKD/AKD Basic
- AKD PDMM/N
- S 200-300/DLS
- S700
- MMC Smart Drives



Fanuc

- Alpha A
- Alpha I
- Alpha iS
- Spindle Drives



Lenze

- 9400 Highline
- Servo Inverter i700
- Servo Drives ECS



Allen Bradley

- Ultra Servo
- Kinetix Series



Parker

- Vix
- Compax 3 / 3M
- Aries Controller
- Gemini GV6/GV6K
- Compax OEM T10X

Expertise in repairing:

- Power Section
- Interface modules
- Positioning modules
- Industrial networks
- Feedback
- I/O

Testing:

- Testing of interface modules
- Testing of communication connections
- Testing nominal power, (if servo motor is available)
- Testing the feedback of the drive using an encoder simulator
- Testing of I/O (when installed)

PLC

Input / Output Module, CPU's



Siemens

- ET Series
- S5 - 100/110/115 U
- S5 - 90/95/130/135/155/150 U
- S7 - 200/300/400
- S7 1200 / Programmiers



ABB

- Ø7KR240
- Advant Controller 31
- Freelance 2000
- Procontic CS31
- T200



Allen Bradley

- 1756
- Micrologix 1500
- PLC5
- SLC500
- SLC5000



Telemecanique

- TSX Micro
- SX Quantum
- Schneider SR3
- Schneider TSX Premium
- Schneider TSX Compact
- Schneider TSX Quantum



Mitsubishi

- Alpha
- FX
- FX2
- Melsec A
- Melsec Q

Expertise in repair are:

- CPUs
- I/O modules
- Power supply
- Interface cards
- Programmer devices

Testing:

- Memory test by loading a program
- Memory test by disconnecting the power
- Controlling the input and output modules.
- Communication modules that are connected to the processor (when necessary).



Omron

- CPM1A
- CQM1
- CQM1H
- Sysmac C200 HE
- Sysmac C20



B&R

- X20 System
- MA 170 System



GE Fanuc

- GE Series 3/5/6
- GE Series 90-30
- GE RX7i PAC System
- Genius I/O



Honeywell

- IPC 620-30
- IPC 620-20
- IPC 620-25
- IPC 620-35

Human Machine Interface

Touch Screens / Operator Panels / Interface Embedded Industrial CPU's



Siemens

- Basic Panel Series
- Comfort Panel Series
- Mobile Panel Series
- Key Panel Series
- Industrial Panels



Beckhoff

- Built in Panel PC
- CP22/26/27 XX
- CP62/65/66 XX
- CP6606/67XX/C33XX
- Panel PC
- CP 32/37/72/77 XX



Allen Bradley

- Panel View



Telemecanique

- Magelis
- XBT GT Advanced Series

Expertise in repair are:

- Touch screen monitors
- Key pad monitors
- CRT monitors
- Industrial CPU

Testing:

- Testing of the button or touch screen
- Testing of the monitor
- Testing the communication connections
- Testing I/O modules, when installed



Proface

- Quickpanel
- SP 5000 Series
- GP 4000 Series
- LT 4000 Series
- FP 5000 Series



Omron

- M7 Series
- H7 Series
- NA/NB/ NV Series
- NS/ NT Series



B & R

- Panel PC 900 Series
- Panel PC 2100 Series



PILZ

- PiTouch



Advantech

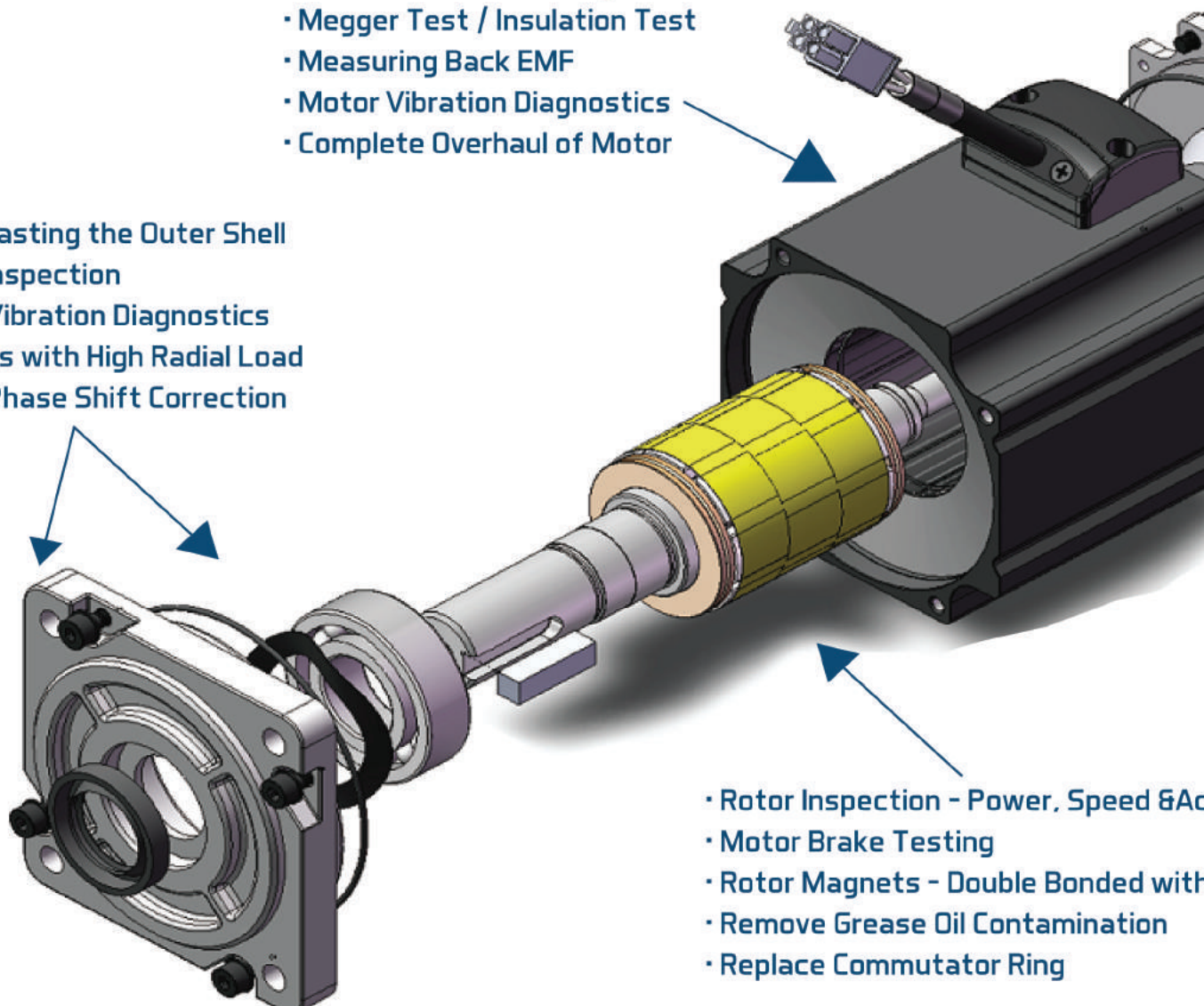
- AWS 8129/8248/8259
- IPPC 4001D/
- IPPC 6152/6172/6192 A
- IPPC 9151/9171

Servo Motor Repair



- Stator Motor Rewinding
- Megger Test / Insulation Test
- Measuring Back EMF
- Motor Vibration Diagnostics
- Complete Overhaul of Motor

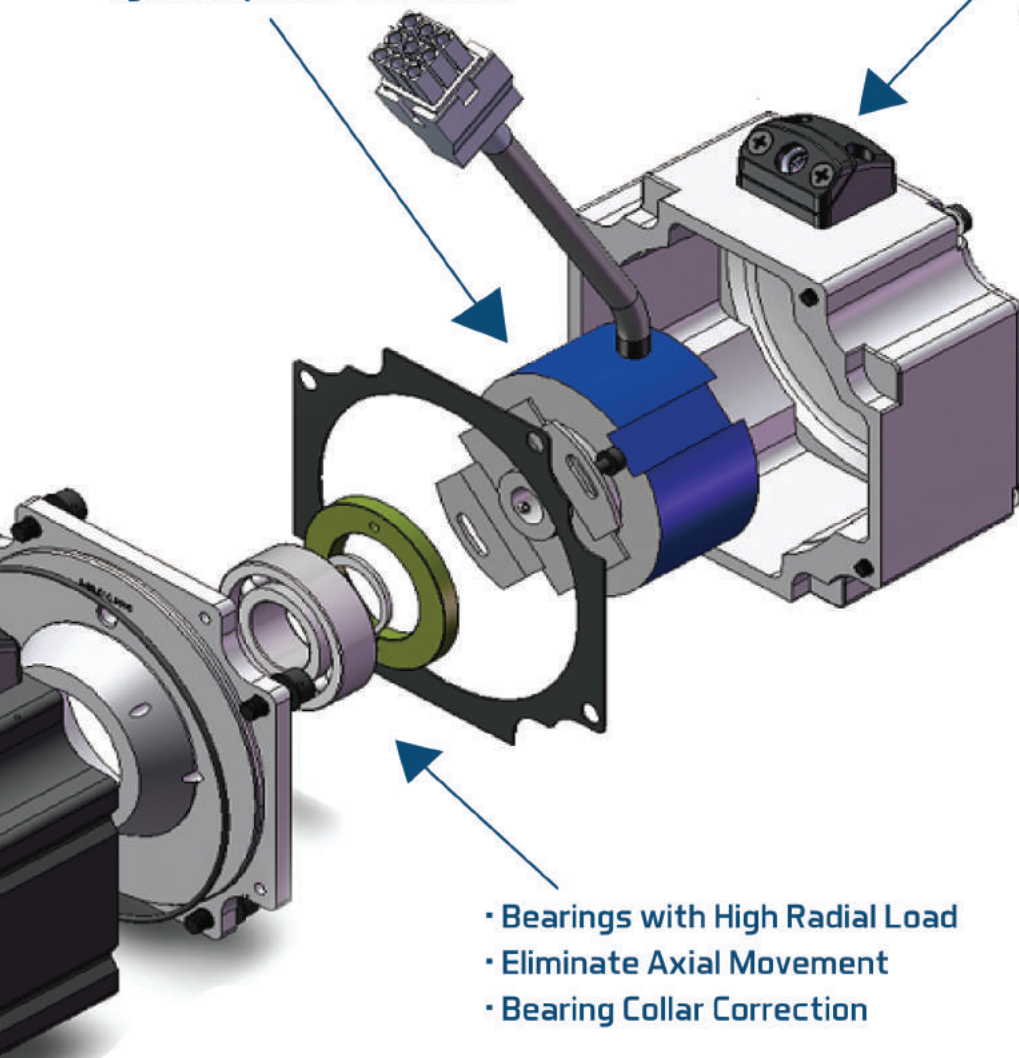
- Sand Blasting the Outer Shell
- Shaft Inspection
- Motor Vibration Diagnostics
- Bearings with High Radial Load
- Signal Phase Shift Correction



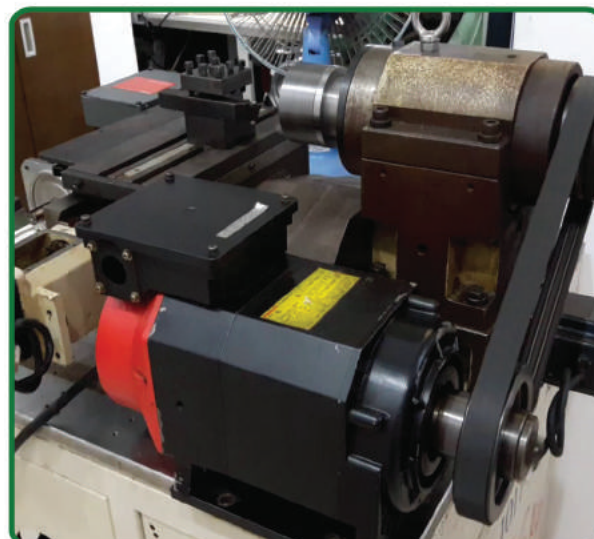
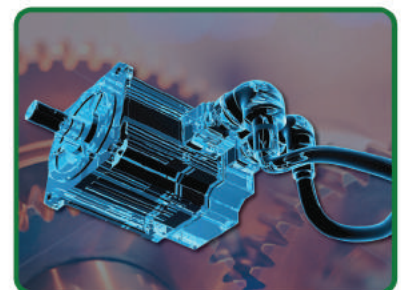
- Rotor Inspection - Power, Speed & Accuracy
- Motor Brake Testing
- Rotor Magnets - Double Bonded with Epoxy
- Remove Grease Oil Contamination
- Replace Commutator Ring

- Encoder Alignment - Incremental Absolute
- Feedback Devices - Resolver, Tacho, Hall Sensor
- Recovery of Detached Code Wheels
- Optical System Positioning
- Setup of Encoder / Resolver Locking Angles
- Detect Signal Distortion - sin/cos, TTI, EnDat, BISS&SSI
- Signal Amplitude Correction

- Refurbishing Damaged Housing
- Painting of Rugged Metal Cover
- Preparation of Encoder and Power Connectors



- Bearings with High Radial Load
- Eliminate Axial Movement
- Bearing Collar Correction



Accuracy

with Precision Balance

Comprehensive Testing

Warranty

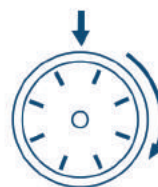
Encoder

We repair Encoders and other Feedback devices by :
Heidenhain, Hengstler, SICK, Fanuc, Siemens, Tamagawa,
LTN and many more.

OPTICAL SYSTEM DIAGNOSTICS



SETUP OF RESOLVER & ENCODER POSITIONS



CLEANING & MAINTENANCE OF OPTICS



REPLACEMENT OF ENCODER & RESOLVER BEARINGS



TESTING USING MOTOR & DRIVE



SIGNAL LEVEL MEASUREMENT



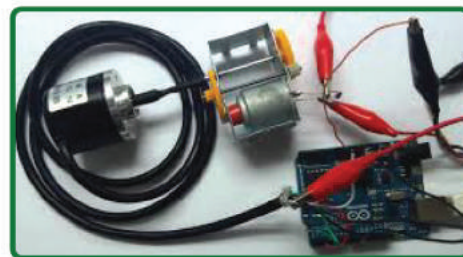
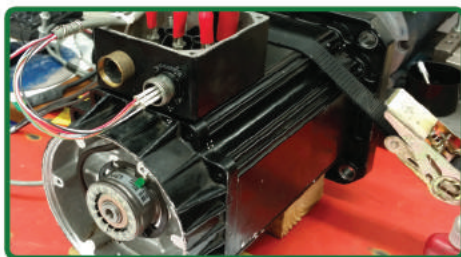
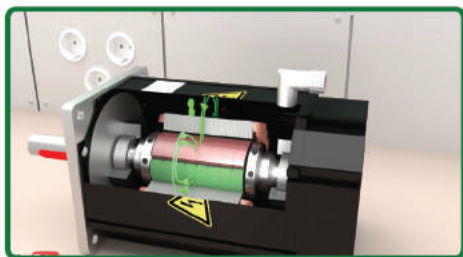
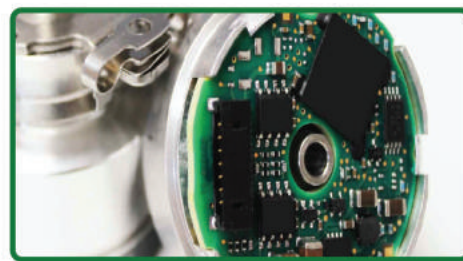
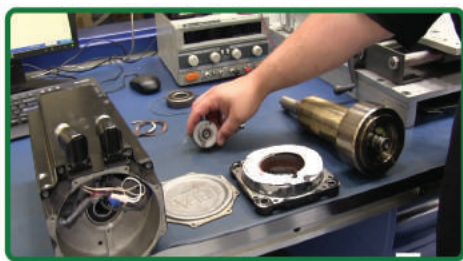
ENCODER PROGRAMMING



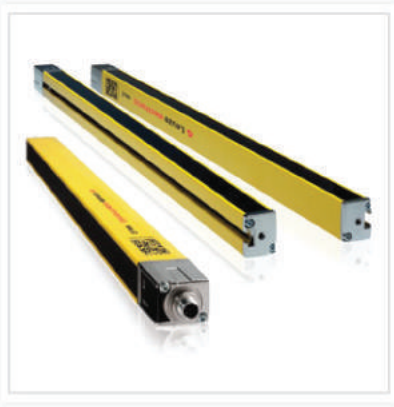
CORRECTION OF SIGNAL DISTORTIONS



TROUBLESHOOTING WITH MANUFACTURER'S SOFTWARE



Sensors



- Diagnostic Test
- Inspect PLS scanner
- Check communication section
- Check for PCB fault
- Mechanical damage
- Align optical sensors
- Verify with Laser programming.

Gear Motor repair



- Check windings
- Megger test
- Check for shaft and bearings
- Lubrication
- Oil seal to be replaced
- Gear teeth to be refurbished
- Check for Mechanical failure

CNC Controllers

Expertise in repairing:

- Power supply
- Control units
- Operator panels
- Interface boards
- Positioning modules
- Industrial networks
- Feedback and I/O

Testing:

- Testing communication connections
- Testing parameter memory
- Testing I/O (when installed)
- Testing monitors in combination with the control unit
- Testing safety boards
- Endurance tests
- Testing extra encoder input connections with an encoder simulator



GE Fanuc

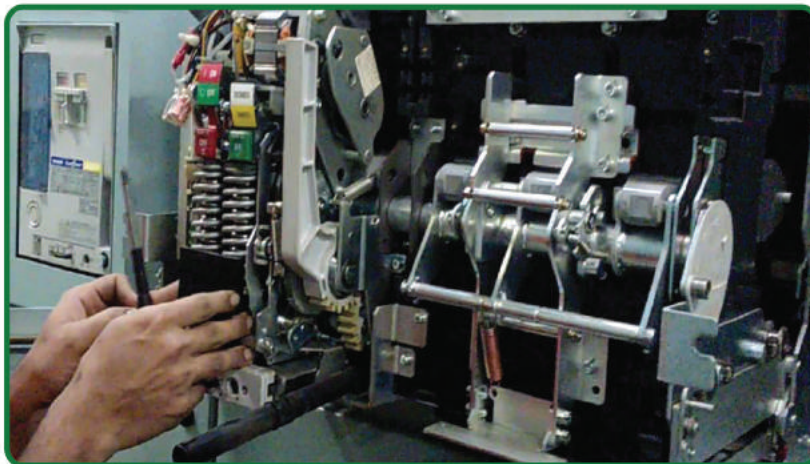
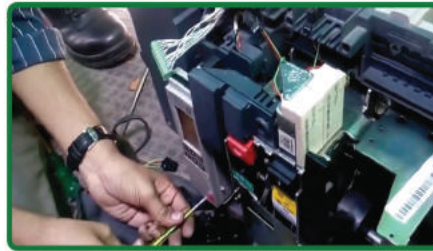
- Alpha 16/18/21
- Alpha Ail6i/18i/21i
- Series 0 / 15 / 6
- Series 16T
- Series 21I-TB



Siemens

- 802 D SL
- 840 C
- 840 D / D SL
- Sinumerik

Switch Gears



- Repairing Services and Testing of Air Circuit Breaker (ACB)
- Repairing Services and Testing of Vacuum Circuit Breaker (VCB)
- Retrofitting of Air Circuit Breaker (ACB)
- Control Circuit Modification & Upgrade
- Testing of Protection Relays
- Testing of Earth Pits

Industrial UPS



- Inspect / Replace Battery pack
- Refurbish charging circuit
- Inspect Standby mode
- Inspect Bypass mode
- Check overload capability
- Refurbish Inverter section

Comprehensive Testing

Warranty

Live Panel Cleaning

NWK99

Prevents economic loss and safety accidents caused by the dust and foreign substances generated during operation

Awarded multiple symbolic Certificates from Korean government



Performance Certification : 2011. 4. 5 (the Small & Medium Business Administration)

Eco Label Certification : 2006.11.6 (Ministry of Environment/Environmental Industry & Technology Institute)

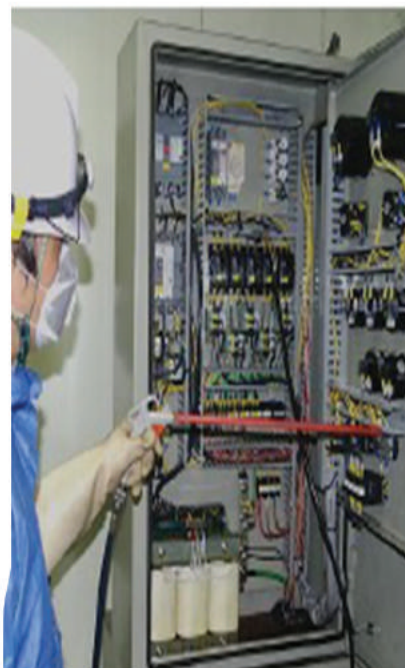
NEP Certification : 2008.3.13 (Ministry of Knowledge Economy/Agency for Technology and Standards)

Patent Certification : 2008. 2. 1 (Patent office)



NWK 99 Features

Effect



Prevention Maintenance | Live Panel Cleaning
Cleaning available while equipment in operation
Non conductive material to be used for 50kV

Stability | Non-corrosive material
No damage for PCB and electronic components

Economical | Cleaning in short time
Strong blowing force to remove the dust at critical point easily & quickly

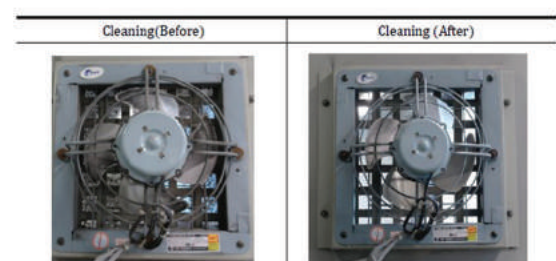
Technology | Prevent static and noise
Neutralize electrostatic ion to avoid harmful static and noise generated by the compressor or the vacuum cleaner

Environmental Friendly | Respiratory disease prevention (low-toxic)
Prevent respiratory diseases by not allowing fugitive dusts



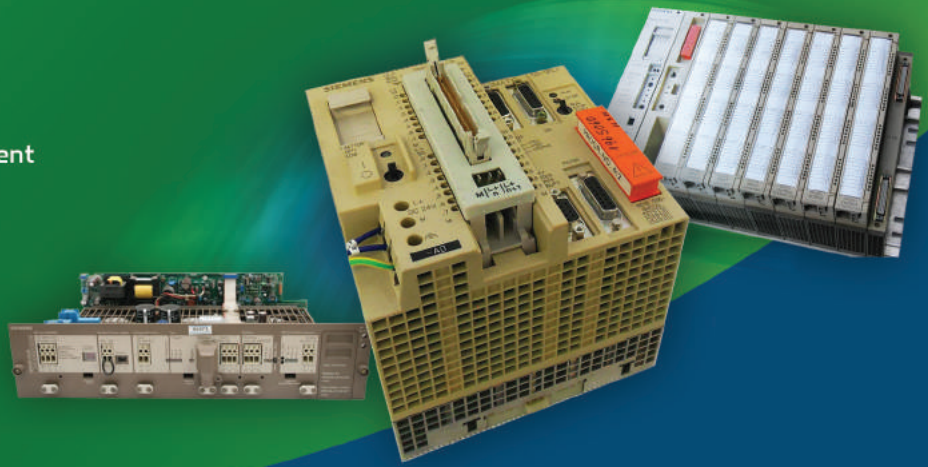
Application

- Factory, Manufacturing plant, Shipyard, Facilities and Malls
- Elevator (Inverter)
- National transportation network (railway, highway, tunnel signal & etc.)
- Domestic and overseas, where power supply cannot be switched off
- National power grids (substations, underground switches, ground switches, power stations & etc)
- National networks (repeaters, base stations, IDCs, military communications & etc)
- IDC Center (UPS, Server)
- Generator alternator



Electronic Repair

- Free Collection / Delivery / Assessment
- Component Level Repair
- Refurbishment of Industrial parts
- Warranty on all Repairs
- Reverse Engineering



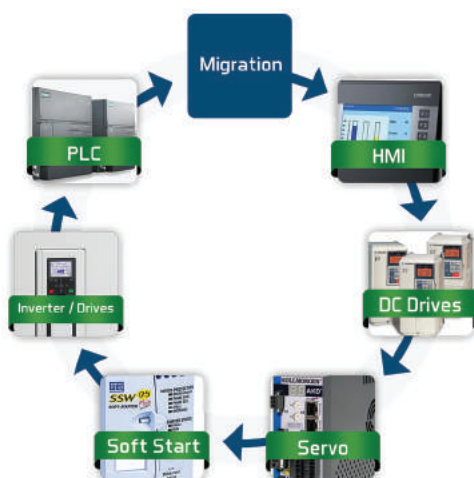
Supply of Spares



- Stockists of over 50,000 Spares of Major OEM
- Categories of Spares
 - > Brand NEW OEM
 - > New Surplus
 - > OEM Refurbished
 - > Used
 - > Obsolete
- Service Exchange offered
- Warranty offered on all Spares Supplied

System Upgrades

Migration



- Upgrade obsolete system
- Revive obsolete production lines
- Maximize manufacturing output
- Effectively manage / upgrade bottle-necks in production lines

Conversion



- Convert DC system to AC system
- Obsolete AC drives to current systems
- Improve production efficiency
- Better energy saving
- Maximize longevity of existing production lines

Industries & Brands



Food & Beverage



Textile



Pharma



Facility Management



Marine Automation



Paper & Pulp



Packaging



Waste Water Management



Plastics



Tunnelling



Construction & Cranes



Glass



Port & Harbour



Airports



CNC Machine



Cement

ABB



Allen-Bradley



**EUROTHERM
DRIVES**



Fuji Electric



SIEMENS



Lenze



**Schneider
Electric**



Honeywell

BALDOR



**SEW
EURODRIVE**



OMRON



VACON

TOSHIBA

HITACHI



**RELIANCE
ELECTRIC**



SICK
Sensor Intelligence.

Automat is neither the authorised distributor nor the authorised service agent for any of the brands mentioned.



Dredging



Metals



Theme Park



Utilities



Printing



Quarry



- Lowest turnaround time
- Efficient collection & delivery
- Quick assessment & quote
- Emergency service available



- Reliable, Flexible & Efficient
- Huge obsolete spares inventory
- Single source service provider
- Online job tracker



- No cure; No pay
- Reduce operation / maintenance cost
- Revive obsolete assets
- Maximize savings against OEM prices



- E-waste management
- Volume Reduction
- Inventory management
- Advocates "REDUCE-REUSE-RECYCLE"



ISO 9001:2008

Head Office

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Service Facility 2

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Tel: +971 4 325 0079

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Building 3922, Al Fayha
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Dammam
Tel: +966 13 802 0446

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Harbour, King Faisal Highway,
Manama, Kingdom of Bahrain
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KUWAIT
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BAHRAIN
MUSCAT
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