Global®
ELECTRONIC SERVICES INC.
INDUSTRIAL REPAIR & SALES

**SIEMENS**
Industrial Repair



# Manufacturing's #1 Source for Repair, Sales & Service of All Industrial Electronics, Servo Motors, AC & DC Motors, Hydraulics & Pneumatics

## THE GLOBAL ADVANTAGE

- Repair Price Guarantee
- Risk Free Evaluations
- Fast 3-5 Day Turnaround
- Rush Service Available
- 2 Year In-Service Warranty
- 24/7/365 Maintenance Support

Siemens 22CP320A81 Motors and Motor Control | gesrepair.com

Global® ELECTRONIC SERVICES INC.
INDUSTRIAL REPAIR & SALES

INDUSTRIAL REPAIR & SALES
AVAILABLE 24/7

# SIEMENS

## Industrial Automation & Control Repair

Keep your operation moving with repair support from Global Electronic Services. Get help with Siemens equipment repairs, troubleshooting and surplus parts.




### SIEMENS EQUIPMENT SUPPORT

Industrial controls • AC drives • Frequency converters

Motor control • Motor starters • Servo motors

Meters • Surge suppressors • Breakers • Load centers

### THE GLOBAL ADVANTAGE

Free repair evaluations
3–5 day turnaround; rush available
2 Year In-Service Warranty
Repair price guarantee

### SERVICE THROUGHOUT THE REPAIR CYCLE

Speak with knowledgeable staff, have your equipment repaired by a trained technician, and receive component testing before return shipment.

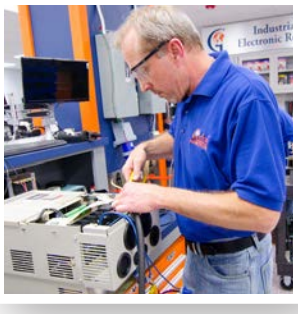
**REQUEST YOUR SIEMENS REPAIR QUOTE**

**877-249-1701** gesrepair.com

Global Electronic Services is an independent repair provider. Siemens names and trademarks belong to their respective owners; no affiliation or endorsement is implied.

# We Repair, Sell & Service All Industrial Electronics, Servo Motors, AC & DC Motors, Hydraulics & Pneumatics

- AC Drives
- AC Motors
- Amplifiers
- Chart Recorders
- Circuit Breakers
- CNC Controls
- Contactors
- Controllers
- Counters
- DC Drives
- DC Motors
- Encoders
- Flow Meters
- HMIs
- Hydraulics
- Industrial Controls
- Industrial Monitors
- Inverters
- I/O Modules
- Linear Motors
- Manifolds
- Monitors
- Motor Controllers
- Operator Interfaces
- Photo Electronics
- PLC Modules
- Power Supplies
- Pneumatics
- Pressure Controls
- Printed Circuit Boards
- Process Controls
- Programmable Logic Controllers
- Push Buttons
- Pumps
- Relays
- Robotics
- Safety Equipment
- Sensors
- Servo Drives
- Servo Motors
- Servo Valves
- Soft Starters
- Stepper Motors
- Switches
- Temperature Controllers
- Test Equipment
- Timers
- Touchscreens
- Transducers
- Transformers
- Ultrasonics
- Uninterruptible Power Supplies
- Valves
- Variable Frequency Drives
- Vector Drives
- & Many More









# Over 100,000 Square Foot State-of-the-Art Facilities

At Global Electronic Services, our world-class facilities are stocked with thousands of new, refurbished and surplus equipment. All our repair services are performed in-house. Whether it's repairing and replacing components or machining and fabricating parts, we deliver the most effective repair services in the industry. We maintain a comprehensive inventory of repair parts for over 3,000 OEM's all under one roof.

## Industries We Support

- Agriculture
- Automotive
- Beverage
- Chemical
- Food Processing
- Glass Container
- Machine Tool
- Mining
- Oil & Gas
- Pharmaceutical
- Plastics
- Power Generation
- Printing
- Paper & Wood
- Renewable Energy
- Rubber & Tire
- Steel
- Textiles
- Waste Water
- Wind Energy



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# Industrial Electronics

## INDUSTRIAL ELECTRONICS WE REPAIR

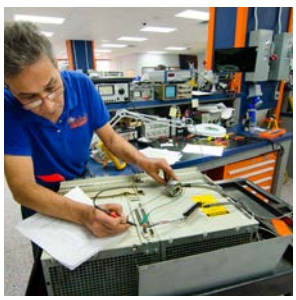
- CIRCUIT BOARDS
- DRIVES
- INVERTERS
- HMI'S / TOUCHSCREENS
- MONITORS
- PLC'S
- POWER SUPPLIES
- PROCESS CONTROLS
- SAFETY EQUIPMENT
- SOFTSTARTS
- TEMPERATURE CONTROLS
- TIMERS & COUNTERS
- & MANY MORE

## FULL TESTING / CAPABILITIES

- 100% TRUE Load Testing
- Analog & Digital Oscilloscopes
- Curve Trace Signature Devices
- Custom Engineered Test Stands
- Dynamometers
- OEM Test Stands
- Simulation Test Stations













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Manufacturing Loses
**≈ $600 Billion**
Annually Due to Equipment Downtime

Our
**Fast 3-5 Day Turnaround**
and Our **Rush Service**
Keeps Your Production Moving



## DRIVES

Our final test includes 100% TRUE Load Testing using Dynamometers which provide full resistance testing to identify weak or faulty components on motors and drives.



- AC Drives
- Adjustable Speed Drives
- Amplifiers
- DC Drives
- Inverters
- Liquid Cooled Drives
- Motor Controllers
- Soft Starters
- Regenerative Drives
- Servo Drives
- Spindle Drives
- Starters
- Stepper Drives
- Variable Frequency Drives
- Vector Drives
- & Many More

## HMI'S



- Touchscreens, Keypads, Monitors, Teach Pendants, Displays
- CRT to LCD Upgrade
- LED
- LCD
- Membrane Replacement
- Plasma
- Touchglass Replacement
- & Many More

## SAFETY EQUIPMENT



- Light Curtains
- Safety Scanners
- Photo Eyes
- E-Stops
- Metal Detectors
- LiDar Sensors
- & Many More

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# Servo Motors



## MAIN TYPES OF SERVO MOTORS WE REPAIR

- AC
- DC
- CONTINUOUS ROTATIONAL
- LINEAR
- POSITIONAL ROTATION
- & MANY MORE

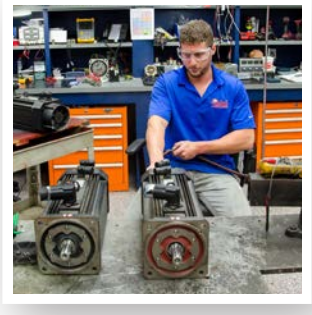
## IN HOUSE TESTING / CAPABILITIES

- Mitchell Electronics
  - Specialized To Test & Run Servo Motors
  - Aligns / Realigns Feedback Devices
- Bearing Replacement
- Brake Repair / Replace
- Machine Work
- Wind / Rewind
- Electrical / Wiring
- Drive Simulation

**99%**
of Factory Automation
Uses Servo Motors

Our
**2 Year In-Service Warranty**
Guarantees Reliability &
Peace of Mind for Every Repair





## MITCHELL ELECTRONICS

- TEST EQUIPMENT SYSTEM SPECIALIZING IN SERVO MOTOR REPAIR & MAINTENANCE
- SPECIFICALLY DESIGNED FOR DIAGNOSING & REPAIRING SERVO MOTORS
- TESTS & ALIGNS ENCODERS & OTHER FEEDBACK DEVICES




## REPAIR PROCESS

- Visual Inspection of Shaft, Keyway, Endbells, Terminals & Connectors
- Rotate Shaft & Meg the Motor
- Perform Surge & Hipot Test
- Check Alignment & Feedback with Mitchell Electronics Testing System
- Perform KE Test to Check Function of Feedback: Resolver Angles, Encoder Count & Tach Voltages
- Servo Motor is Disassembled, Cleaned & Baked
- Perform Any Necessary Machine Work: Endbells, Keyways, Shafts & More
- Install New Bearings & Seals
- Repair Motor & Reassemble, Bench Test, Verify Encoder Alignment & RPM's
- Paint Station
- Quality Control Check & Ship

## POPULAR MANUFACTURERS

- ABB
- ALLEN-BRADLEY
- BALDOR
- BOSCH
- ELWOOD
- INDRAMAT
- FANUC
- MITSUBISHI
- REXROTH
- SIEMENS
- YASKAWA
- & MANY MORE






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# AC & DC Motors

## TYPES OF AC & DC MOTORS WE REPAIR

- 3-PHASE MOTORS
- AC MOTORS
- BRUSHLESS MOTORS
- DC MOTORS
- GEAR MOTORS
- PERMANENT MAGNET MOTORS
- SINGLE-PHASE MOTORS
- SPINDLE MOTORS
- STEPPER MOTORS
- & MANY MORE

AC & DC Motors **Power Over 70%** of Industrial Machinery **Worldwide**

Our **24/7/365 Maintenance Support** Can **Reduce Downtime** by up to **50%**



Dynamic Balancing



Heated Pressure Washer



## IN HOUSE TESTING / CAPABILITIES



Dip Tank



Dynamometer Testing



Full Motor Rebuilds / Rewinds



Machine Shop



Media Blaster



Paint Station

## *FAST 3-5 DAY TURNAROUND*

All of our services are truly done in our state-of-the-art facilities. All repairs, component replacements, machining and fabricating parts are completed under our roof. We completely control quality and turnaround!

## POPULAR MANUFACTURERS

- ABB
- ALLEN-BRADLEY
- BALDOR ELECTRIC COMPANY
- BROOK CROMPTON
- GENERAL ELECTRIC
- MITSUBISHI ELECTRIC
- NIDEC CORPORATION
- SCHNEIDER ELECTRIC
- SIEMENS
- TOSHIBA
- WEG
- & MANY MORE

# Hydraulics & Pneumatics

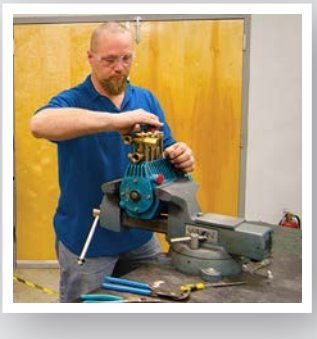


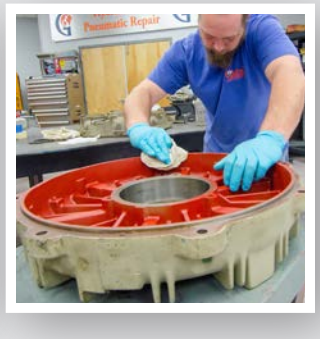
## TYPES OF HYDRAULICS & PNEUMATICS WE REPAIR

- ACTUATORS
- CYLINDERS
- GEARBOXES
- MANIFOLDS
- PUMPS
- SERVO VALVES
- VALVES
- & MANY MORE

## TESTING / CAPABILITIES

- Flow Testing
- Hydrostatic Pressure Testing
- Pressure Testing Up to 10,000 PSI
- Tolerance Testing





Hydraulic & Pneumatic System Failures Cost Various Industries **Over $20 Billion** Annually

Our **Repair Price Guarantee** Ensures You Get the Best Price Possible

## POPULAR MANUFACTURERS

- ASCO
- BOSCH
- DANFOSS
- EATON
- ENERPAC
- FESTO
- HYDAC
- MAC
- MANNESMANN
- MOOG
- NORGREN
- PARKER HANNIFIN
- REXROTH
- ROSS
- SMC CORP.
- VICKERS
- YUKEN
- & MANY MORE