

Warren, MI



Charlotte, NC



Henderson, NV



Ontario, Canada



Sint Lenaarts, Belgium



Capabilities Presentation

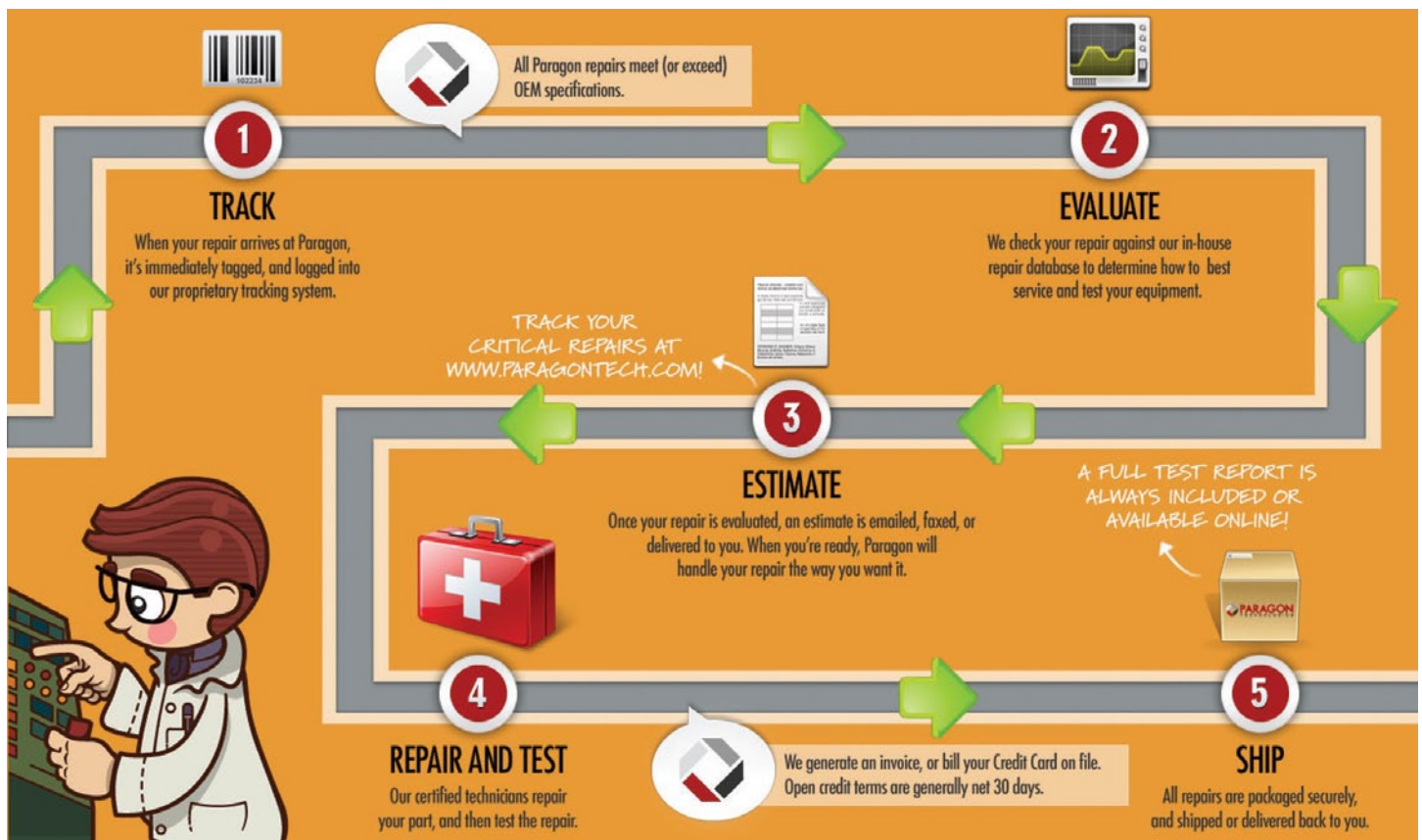


Full Industrial Service Providers

International Full Service Facilities



The Paragon Process



Why Choose Paragon?

Featured Brands



Don't See Your Brand?

Don't sweat it! Our service centers are constantly evolving to accommodate your needs. We remanufacture literally thousands of brands back to OEM performance.

Why Choose Paragon?

The Paragon Warehouse.....



Paragon's 125,000 square foot facility spans the full range of industrial repair needs.

Stocking of Parts.....

Our inventory is fully tracked and able to be viewed at any time, all from online!

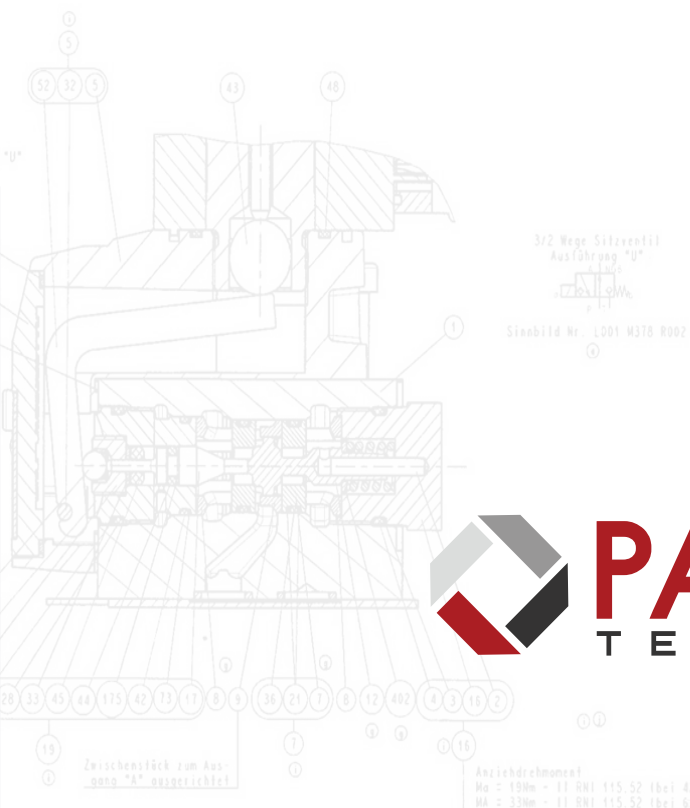
All parts are barcoded and tracked in our wireless system. Our streamlined inventory process and value stream mapping save our customers precious time and money.



World Class Inventory.....

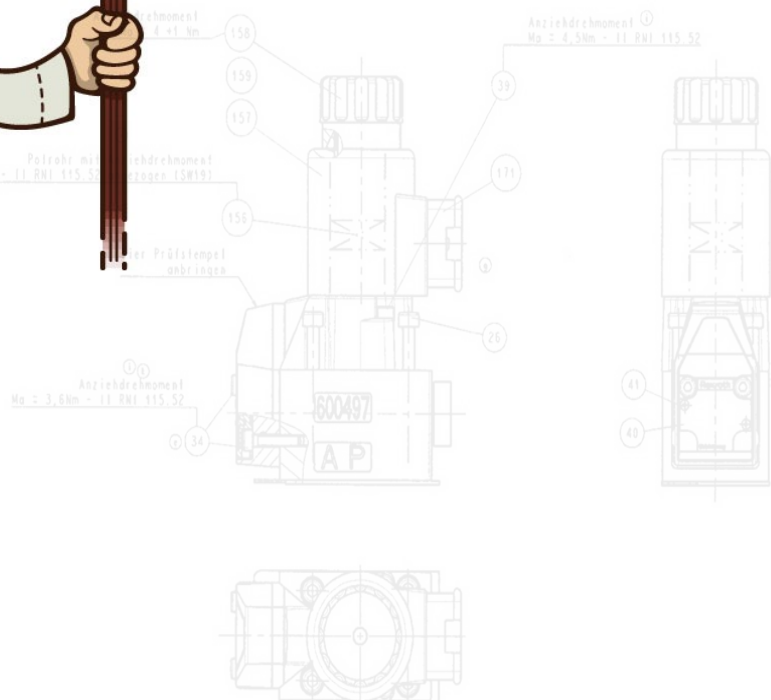
With two separate inventories, divided between our large part and small part crib, we are prepared and stocked to help you get fully operational again!





PARAGON

TECHNOLOGIES



Robotic Repair



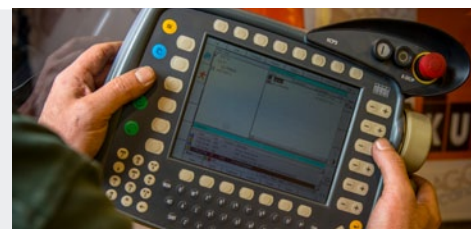
A Sample of the Robots We Service



ABB S2	Comau C3G	Fanuc RJ	Kawasaki FS Series	Kuka KR 150	Motoman ERC
ABB S3	Comau C5G	Fanuc RJ2	Kawasaki FD Series	Kuka KR 6	Motoman MRC
ABB S4	Comau Smart 3	Fanuc RJ 3	Kawasaki M Series	Kuka KR 15	Motoman XRC
ABB S4C	Comau Smart S2	Fanuc RJ 3iB	Kawasaki UT 150	Kuka KR 30	Motoman NX

Our Robotic Fleet is Dedicated to Test the Following:

CPU/Power Supplies and I/O Cards
Servo Drives/Multi Axis Amplifiers
Servo Motors
Teach Pendants



Electronic Repair

Electronic Laboratory

PLC'S

Industrial Computers/HMI's

Printed Circuit Boards

Servo/VFD Repair

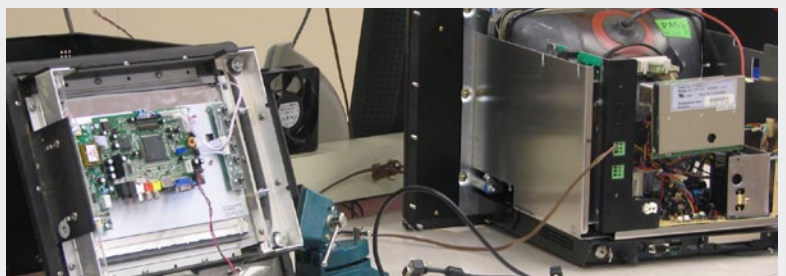
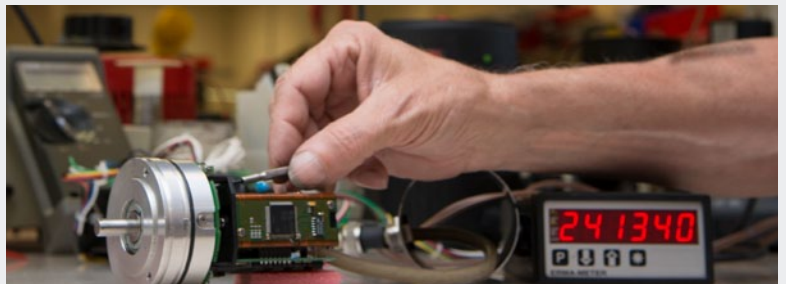
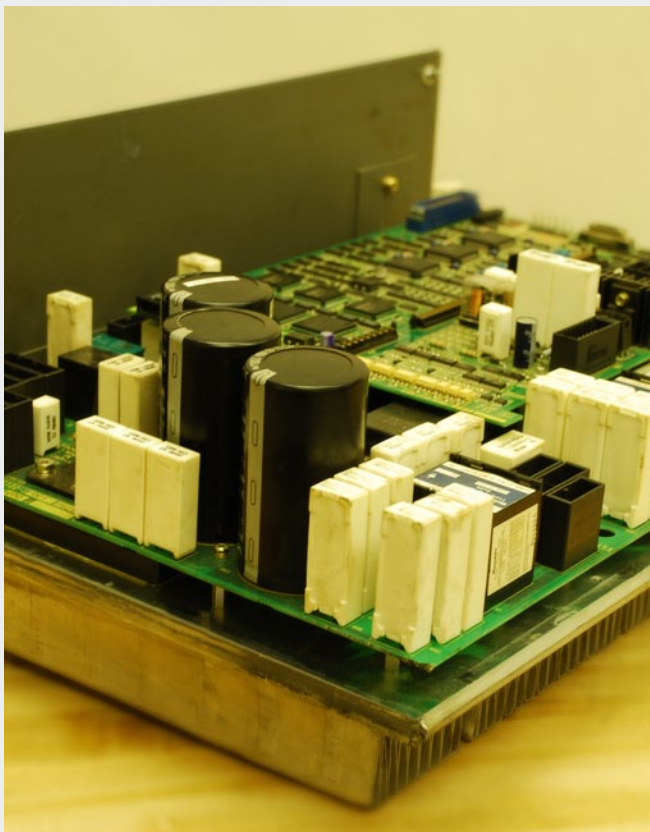
CRT To LCD Monitors

Light Curtains

Robotics

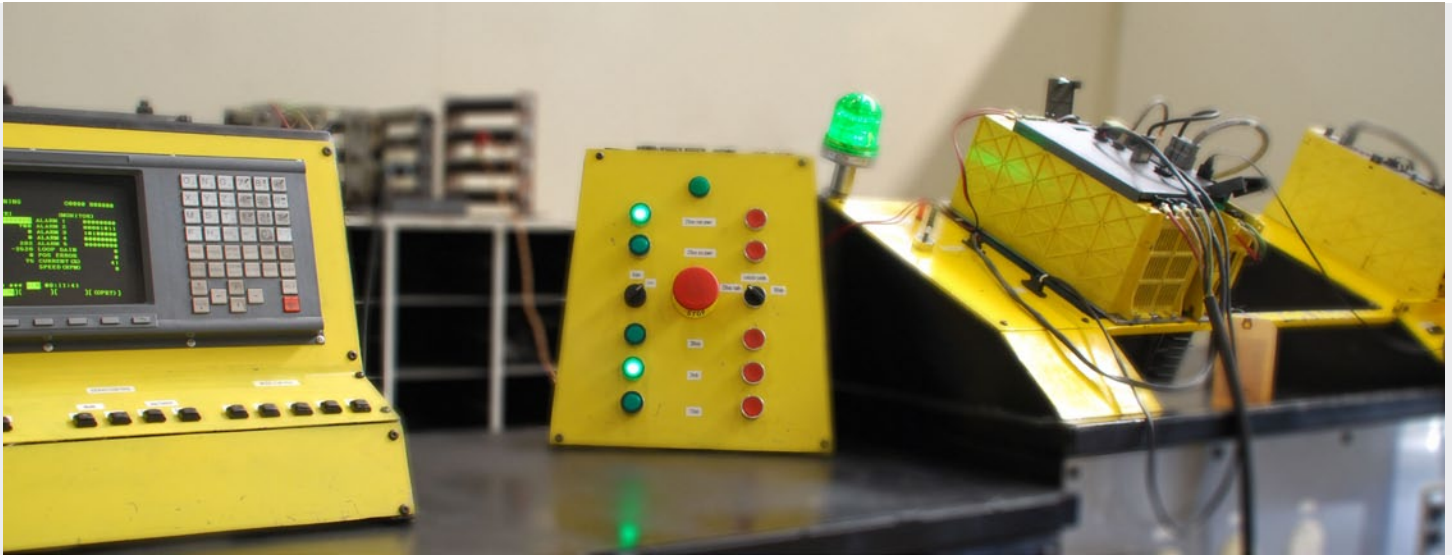
Pinpoint

Teach Pendants



Electronic Repair

Servo and VFD Test Stands



One Stop Service

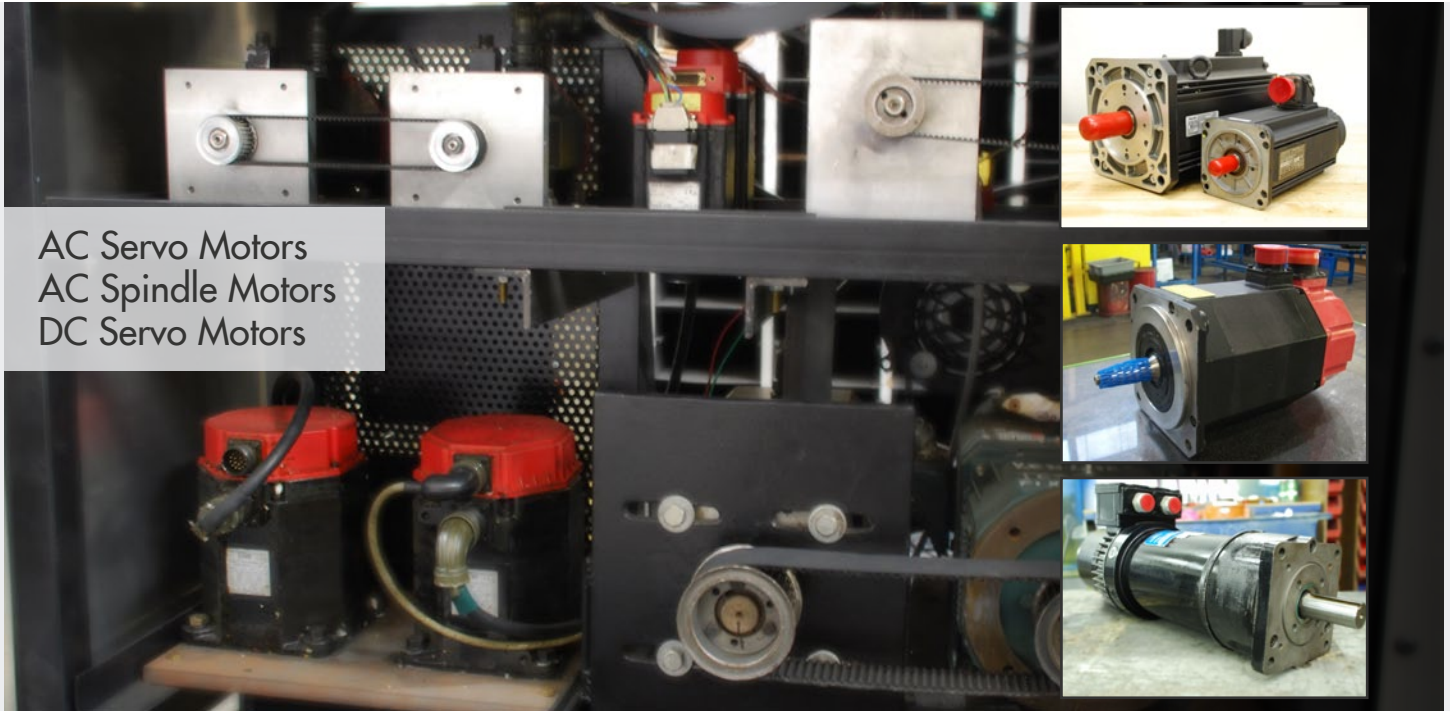
This is what sets Paragon apart from the rest. Our test stands specifically feature:

- 15 HP, 25 HP and 75 VFD Dynamometers
- Load Testing Up To 200 HP
- Allen Bradley Test Station
- Dedicated Fanuc Dynamometer Test Stations
- Indramat DIAX Series Test Station
- Mitsubishi 500 MELDAS Series Test Station
- Yaskawa Test Station
- Siemens 840D Test Station

With our ISO certification, and our Quality and Engineering Department performing final testing on your repair, you can be sure that the service provided to you will be top notch.

Electronic Repair

Servo Motor Repair



Featured Service

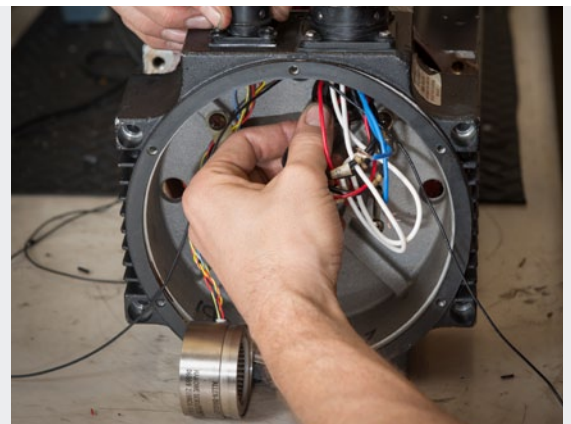
ABB	Baumuller	Fanuc	Lenze	Nikki Denso
Allen Bradley	Bosch	Indramat	Mitsubishi	Siemens
Baldor	Emerson	Kollmorgen	Moog	Yaskawa

What Sets Paragon Apart?

Our servo drive and servo motor teams work in direct collaboration on every rebuild

We are the experts in proper orientation and alignment of feedback devices. If your brand is listed above, typically our servo drive department has a full system test.

We digitally align feedback, then perform final burnout test with a matched servo drive. Our Quality and Engineering department signs off on every rebuild.



Electronic Repair

Servo Motor Repair



High Performance Motor Rewinding

Paragon reconditions and rewinds servo/spindle stators in house

Our dedicated department specializes in reconditioning and rewinding of your servo and spindle motors. This allows us to control in house turn-around time and limits bottom line cost to our customers.

Ask us about our IP-67 harsh environment coating for your AC/DC servo motor needs.

Paragon Extended Testing Procedures

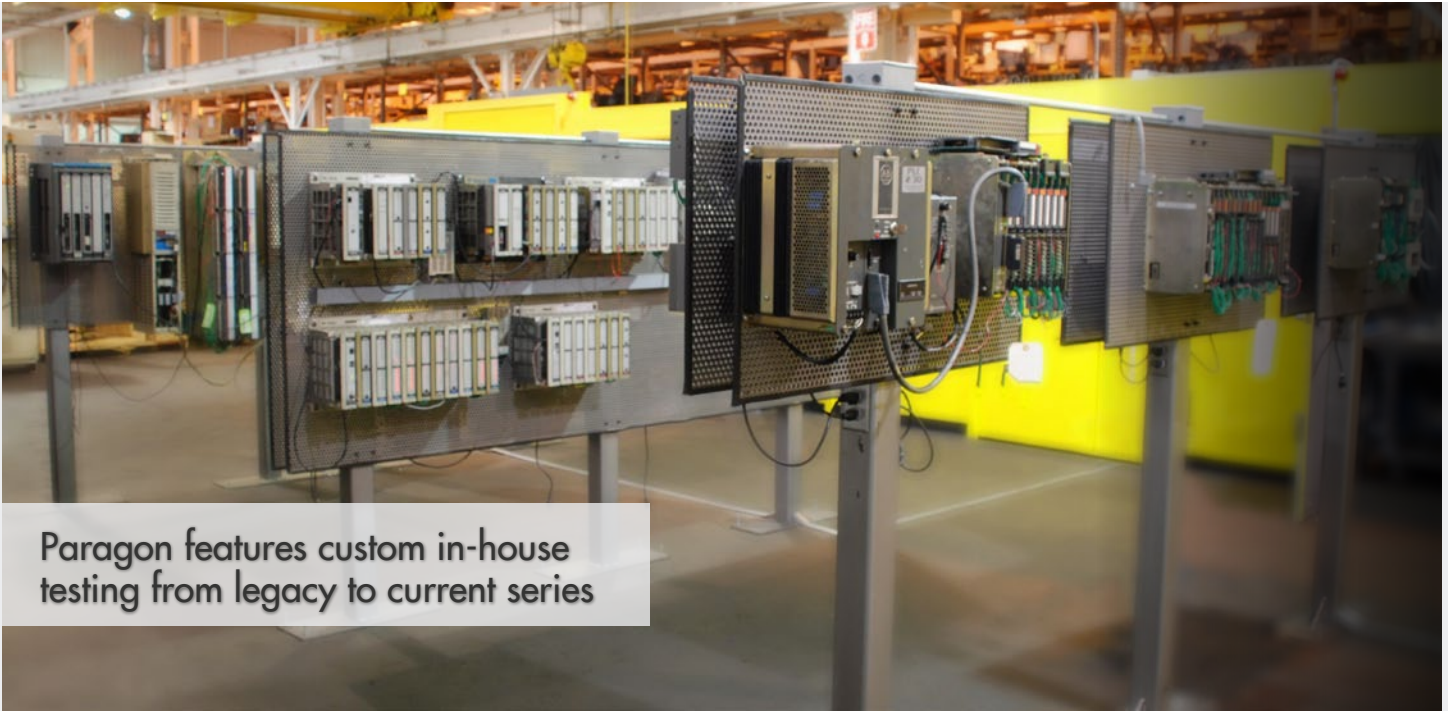
Our purpose-driven machine allows us to perform phase to phase testing for short circuits, surge testing, and hi-pot testing consecutively.

Additional testing ensures marginal issues with your motor windings are not overlooked. Results are charted, saved and available upon request.



Electronic Repair

PLC Repair Family Load System



Paragon features custom in-house testing from legacy to current series

PLC Load Testing

With Paragon, your PLC will perform at OEM performance again.

- Detailed 12 point inspection process
- 23 point checklist performed after testing
- Load tested in family system
- 'Trap' style test programs run 24 hours
- Extensive experience with hundreds of rebuilt models



Featured Brands

ALLEN-BRADLEY



HITACHI
Inspire the Next



MODICON

OMRON

SIEMENS



Electronic Repair

Light Curtains



What Sets Paragon Apart?

Light curtains are rigorously evaluated and tested by our most experienced technicians.

- Family system testing
- Housings replaced*
- Connectors replaced*
- Lenses replaced*
- Painted to factory colors
- Performed only if necessary*



Featured Service

ALLEN-BRADLEY

BANNER

OMRON

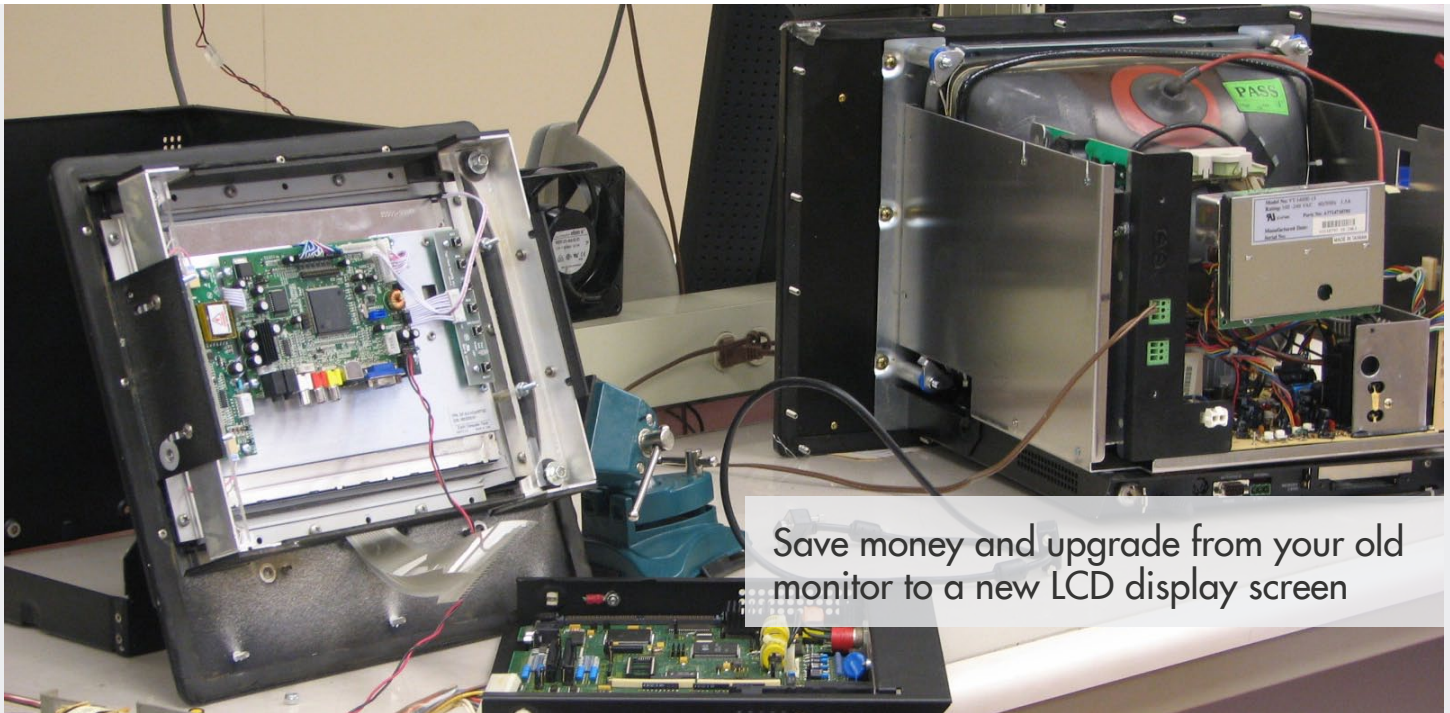
Sti

SICK

Dolan-Jenner
Industries

Electronic Repair

CRT to LCD Upgrades



LCD Upgrades

Paragon has been repairing displays and interfaces for 25 years

From CRT tube screens to integrated touch screens,
we have your needs covered!

We provide expert service to the following brands:

Allen Bradley
Eaton

Fanuc
Siemens

Toshiba
Xycom



Industrial Computer/HMI's/Touch Screens

Paragon rebuilds many configurations of these common displays

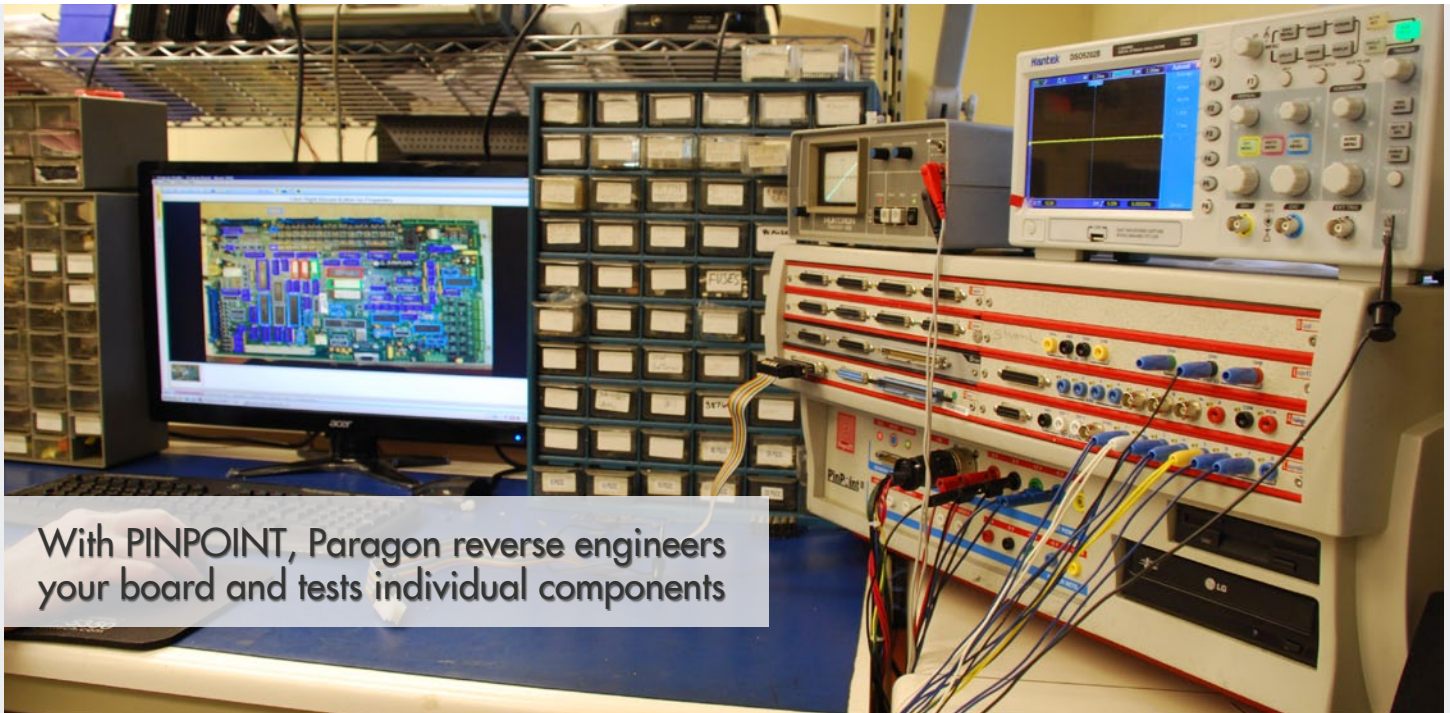
Panelview
Panelview Plus

VersaView
Panelmate



Electronic Repair

PinPoint System



With PINPOINT, Paragon reverse engineers your board and tests individual components

Circuit Board Repair

Paragon has invested in expanding our PinPoint capabilities

Paragon has a multitude of circuit testing programs designed for digital and analog boards

We have written over 1,200 programs to test any range of parts, written by our in house engineer staff which is constantly expanding

Our machines are designed to diagnose and perform circuit testing that is impossible to perform with normal bench tools



Servo and Proportional Repair

World Class Servo and Proportional Facilities.....



Second to None Testing Procedures

Our proprietary test stands were designed and built in house by our own engineers

Bringing your parts back to OEM specifications is our goal. Our expert staff, coupled with our state of the art facilities provides the premium service that sets Paragon apart!

Our Laboratory is Designed to Feature:

- Full Pressure and Flow Testing
- Internal Leakage Testing
- Dedicated Torque Motor Test Stand
- Load and Visual Testing
- High Pressure Testing
- Brand Specific Processes

 **BOSCH**

MOOG

 **Parker**

Rexroth

VICKERS

Remanufactured Inventory Available

Our exchange inventory is constantly evolving, please contact us today for more details!

Servo and Proportional Repair

What Sets Paragon Apart?



Electronic Cards

Cards stocked in house to test and calibrate proportional valves
Our dedicated test inventory features Bosch, Moog, Rexroth and Vickers

Dedicated OEM Test Simulators

We've invested in Bosch, Moog, Rexroth factory test equipment to calibrate and fully test many series of servo and proportional controls.



On Board Electronic's (OBE's)

Our electronics capabilities extend to our servo and proportional department. We provide preventive maintenance (replace capacitors, opto's, re-solder connections) and may perform a rebuild of your OBE if it is not in stock.

This is just one example of the Paragon advantage that our competition does not match!

Servo and Proportional Repair

What Sets Paragon Apart?



Paragon has manifolds even for cartridge valves! We build our manifolds in house!

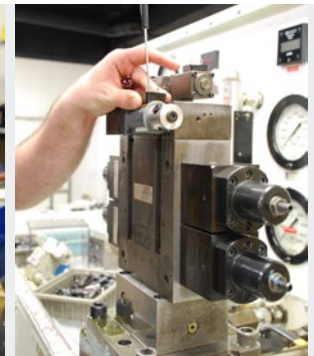
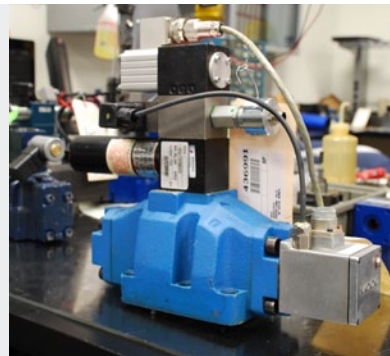
Manifolds

Paragon designs and manufactures test manifolds in our facility! We engineer and produce our own manifolds for testing various mounting styles, helping us adapt to our customers ever changing needs.

Husky/Moog/Hydrolux

World-renowned injection molding equipment remanufacturing

We rigorously inspect and evaluate on our test stands for comparison to manufacturer's specifications. Flow and pressure are tested after rebuild to ensure your part performs in the clutch.



Hydraulic Repair

Premium Hydraulic Service.....

 **BOSCH**

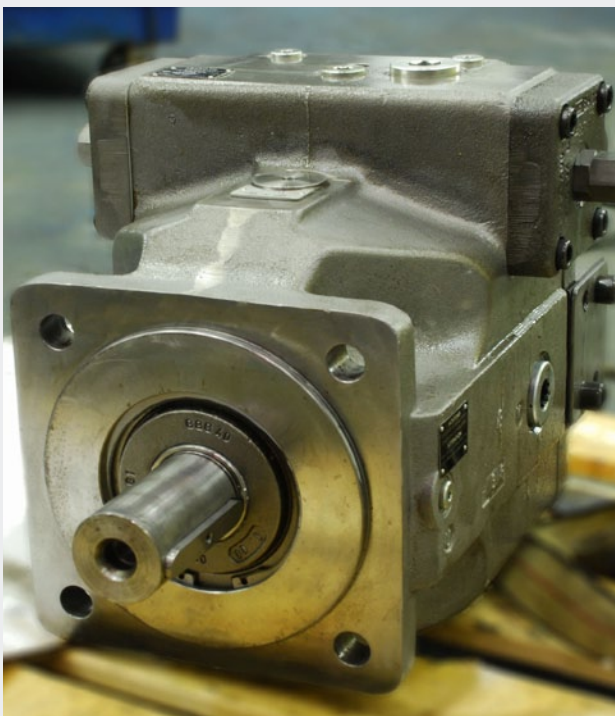
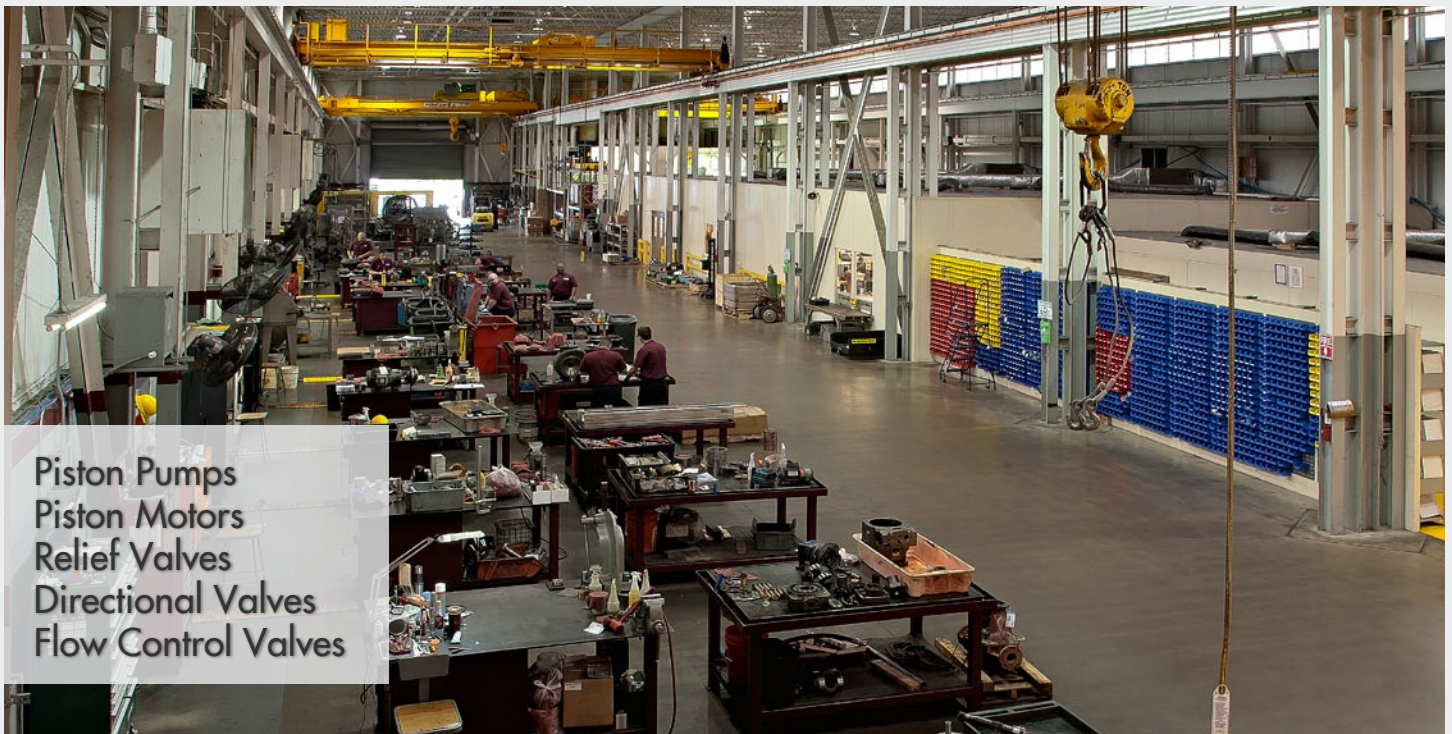
 **CALZONI**

DENISON Hydraulics

MOOG

Rexroth

VICKERS



Hydraulic Repair

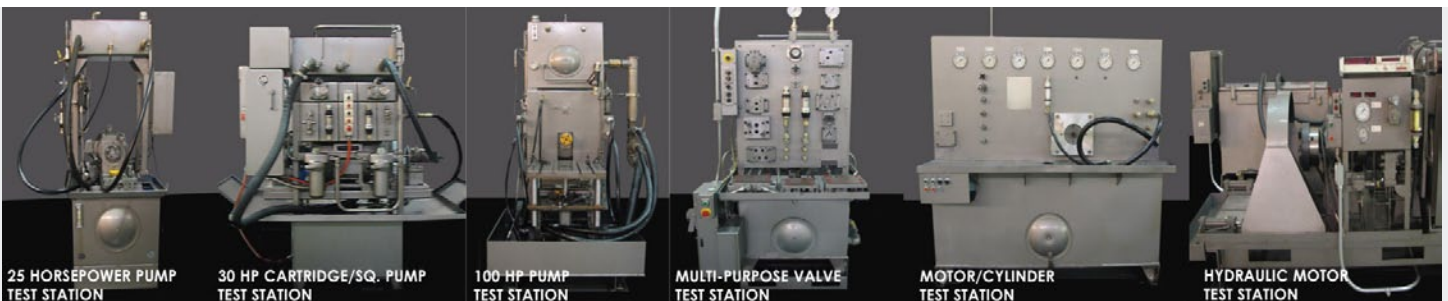
Hydraulic Test Stands



What Sets Paragon Apart?

Unmatched testing equipment and procedures include:

- Custom designed test stands ensure your hydraulic part performs at its OEM specifications
- Purpose built stations simulate any range of working conditions
- Our procedures test up to 5,000 PSI
- With our ISO certification, our hydraulic line meets the most demanding of standards
- Our Quality and Engineering Department performs final testing to ensure your part performs how you need it, when you need it most



Hydraulic Repair

Hydraulic Exchanges



With our large inventory, our exchange availability is constantly growing and improving

A sample of some of our common hydraulic exchanges

Vickers PVB

- PVB 5
- PVB 6
- PVB 10
- PVB 15
- PVB 20
- PVB 29
- PVB 45A
- PVB 45
- PVB 90

Vickers PVH

- PVH 57
- PVH 74
- PVH 98
- PVH 131

Vickers PVE

- PVE 12
- PVE 19
- PVE 21
- PVE 27
- PVE 35
- PVE 47
- PVE 62

Vickers PVQ

- PVQ 10
- PVQ 13
- PVQ 20

Vickers VHO and VQ

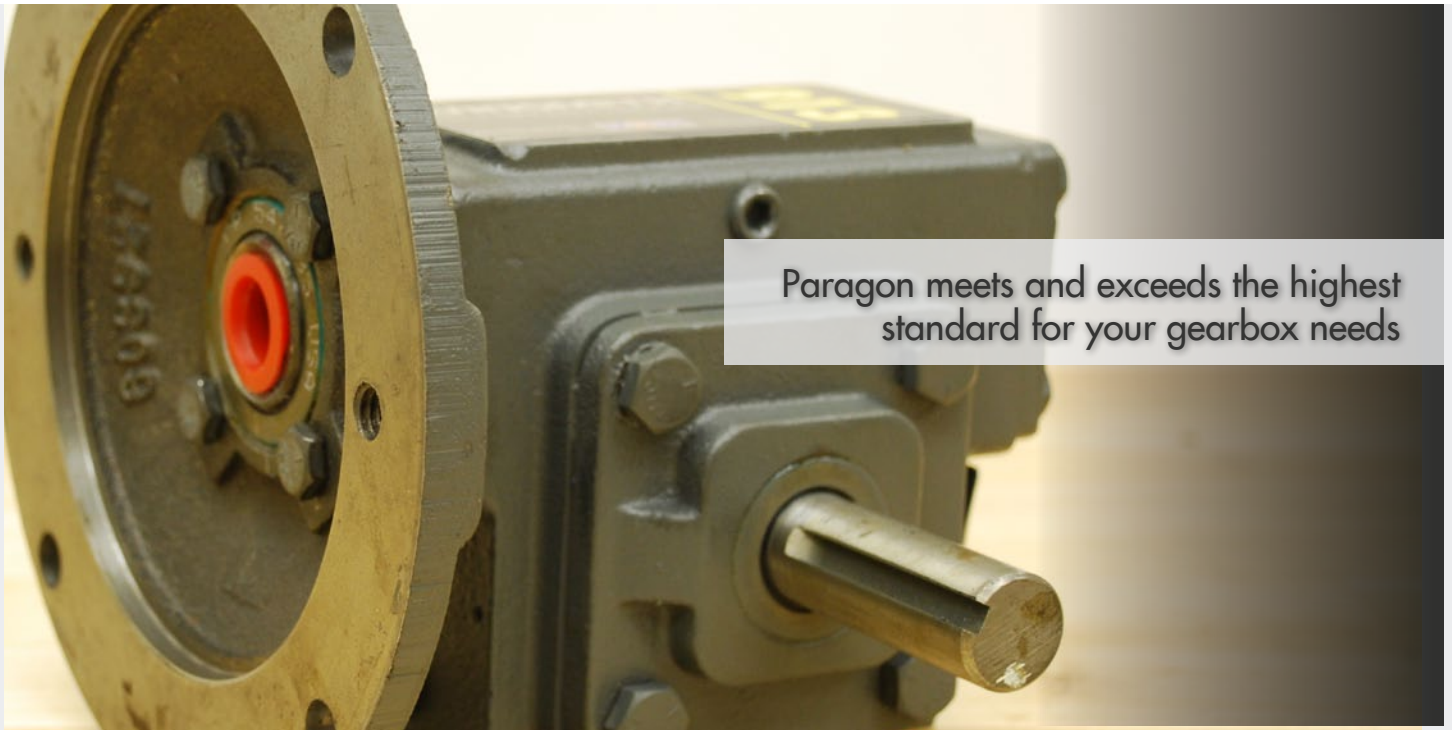
- 20V 2
- 20V 5
- 20V 11
- 20V 12
- 20V 14
- 25V 12
- 25V 14
- 25V 17
- 2520 V
- 25V 21
- 25V 25
- 35V 25
- 35V 30
- 35V 35
- 35V 38
- 45V 42
- 45V 60
- 45V 70
- 50V 72
- 50V 96
- 50V 100
- 50V 109
- 3520 V
- 3525 V
- 4520 V
- 4525 V
- 4535 V

Rexroth A10SVO

- A10VSO 28
- A10VSO 45
- A10VSO 71
- A10VSO 100
- A10VSO 140

Mechanical Repair

Gearbox Remanufacturing



Paragon meets and exceeds the highest standard for your gearbox needs

Featured Gearbox Service

Dresser
Falk
Cleveland

Philadelphia
Foote Brothers
Eurodrive

Delroyd
Cone Drive Textron
Sumitomo

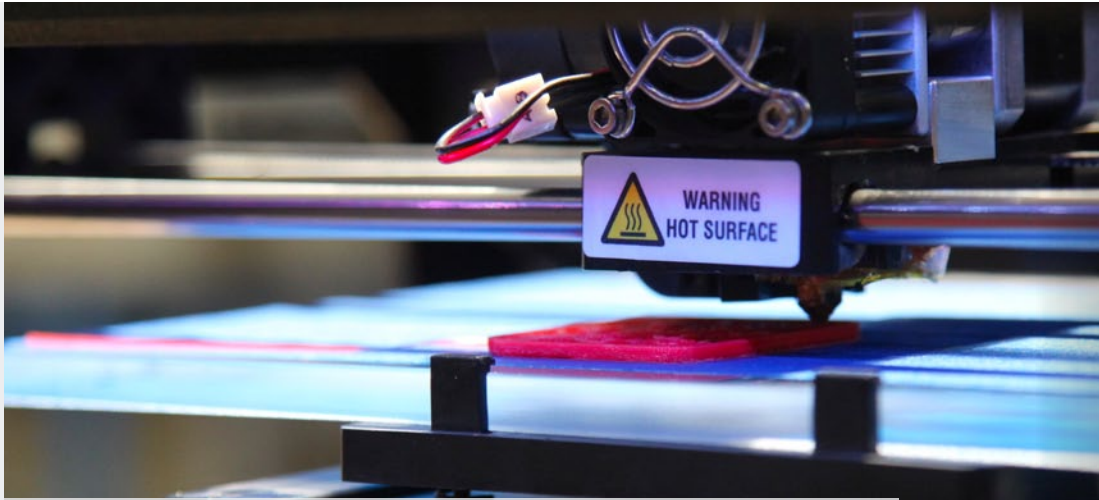
Vari-Master
Dorris
Westinghouse

SEW Gear Box/Reducer Authorized Service Center

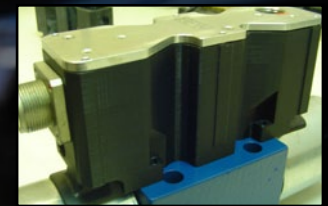
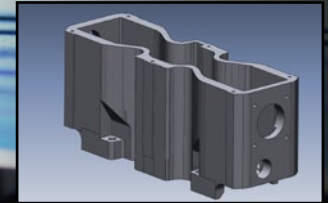


Extended Capabilities

3D Printer and Scanner



Actual customer work



If we can't buy it, we'll make it!
Paragon can recreate a vast array of designs to replace protective and functional plastic components

Paragon Seal Making

Replace damaged factory seals!

Damaged factory seals can be recreated in our facilities. Seals are performance tested along with the reconditioned part it belongs to, ensuring performance once returned to service.



Mazak Service

Paragon CNC capabilities

As part of our in house machining department, we include our Mazak machine to build replacement components. Paragon is your one stop shop for every repair need you may have.



Extended Capabilities

Custom Keypad/Touchscreen Membrane Overlays.....



Paragon and our vendors can engineer and produce from start to finish.



Keypad Membrane Overlays

We've heavily invested in our R&D, tooling and on-hand inventory

Replacement keypad overlays and touch membrane screens are just one small part of the superior Paragon experience! These overlays may not be available through OEM's, or through the competition.

Featured Overlay Brands:

ALLEN-BRADLEY


FANUC

SIEMENS

Paragon Process

The Paragon Difference

PARAGON TECHNOLOGIES		TEST REPORT	
5775 Ten Mile Road, Warren, MI 48091 1-800-229-5350 www.paragontech.com		Job#	Your Job #
		CUSTOMER	Your Customer Code
CUSTOMER INFORMATION		DATE EVALUATED: 2013-11-06	
Your Company		TELEPHONE:	
Your Road		CONTACT:	
Your Address			
JOB INFORMATION		PRODUCT TYPE: DRIVE CARD	
SHIP VIA: UPS		CUST PART #:	
BRAND: SIEMENS		PO#:	
MODEL: 1P6SN1118-0DH21-0AA0			
SERIAL#:			
Defects Observed:			
Intermittent Connection(s)			
Defective Components			
Cold solder joints			
Parts Affected:			
Capacitor(s)			
Contactor / Relay			
Solder joints			
Parts Replaced:			
[QUANTITY: 2]			
[QUANTITY: 1]			
[QUANTITY: 1]			
Root Cause:			
Component failure may have been caused by stress or fatigue.			
Unit may have been subjected to Voltage / Current Overload			
Tests Performed Successfully:			
The inputs have been simulated and the outputs monitored.			
Diagnostic and Readiness testing.			
Unit has been tested in a system with a motor			
Shipping Dependencies:			







800-229-5350 www.paragontech.com

CUSTOMER INFORMATION & ITEM DESCRIPTION

Cust:	Brand: SIEMENS
Solon	Model: 1P6SN1118-0DH21-0AA0
Ship: UPS COLLEC	Description: DRIVE CARD
S/N:	Cust Prt No:

REPAIR IDENTIFICATION LABELS

APPLY BEFORE RETURN TO CUSTOMER



ADDITIONAL INFORMATION FOR THIS REPAIR

This is an example of the barcode your part will be identified by

Evaluations and Test Reporting

Test Reports are included with every electronic servo and hydraulic repair

Reports are available to be downloaded for up to 5 years through your customer page

Warranty Coverage

Paragon offers a 1 year service and 2 years on the shelf warranty on the entire unit

Paragons full warranty policy is available upon request

Customer Specific Portal

As a Paragon customer, you will be assigned your very own personal web page within Paragon. Your web page will be tied directly to our website where you can:

- Easily log in any time
- See where your product is in repair process
- When your product arrived and who signed for it (If shipped via a UPS or FedEx)

