



**NORTHLINE NC**

## TEST RIG OVERVIEW

**Northline NC, 262 Northstar Dr, Suite 122, Rural Hall, NC 27045**

# Fanuc RJ2 with S-420i Robot System

## Capabilities Include:

A16B-3200-0040 CPU

A16B-1212-0871 PSU

A06B-6076-H101 Servo Amp

A05B-2301-C300 Teach Pendant

A20B-1006-0290 Op Interface



# Fanuc Rj3iB Robot System

## Capabilities Include:

Teach Pendant  
A05B-2301-C370

CPU  
A16B-3200-0412

E Stop PCB  
A05B-2452-C473

Servo Amp  
A16B-2000-0062

Motors  
A860-2014-T301  
A06B-0267-B604  
A860-2010-T341



# Fanuc Rj3 with S430iW Robot System

## Capabilities Include:

Teach Pendant  
A05B-2301-C190  
Power Supply  
A16B-2203-B370  
Servo Amp  
A06B-6100-H001  
Boards  
A16B-2100-0200 Top  
A20B-2003-0131 CPU  
Ethernet Module  
A16B-3200-0330  
DeviceNet Module  
A16B-2203-0190  
Motors  
A06B-0136-B075  
A06B-0166-B875  
A06B-0163-B175



# Fanuc R30iA

## Capabilities Include:

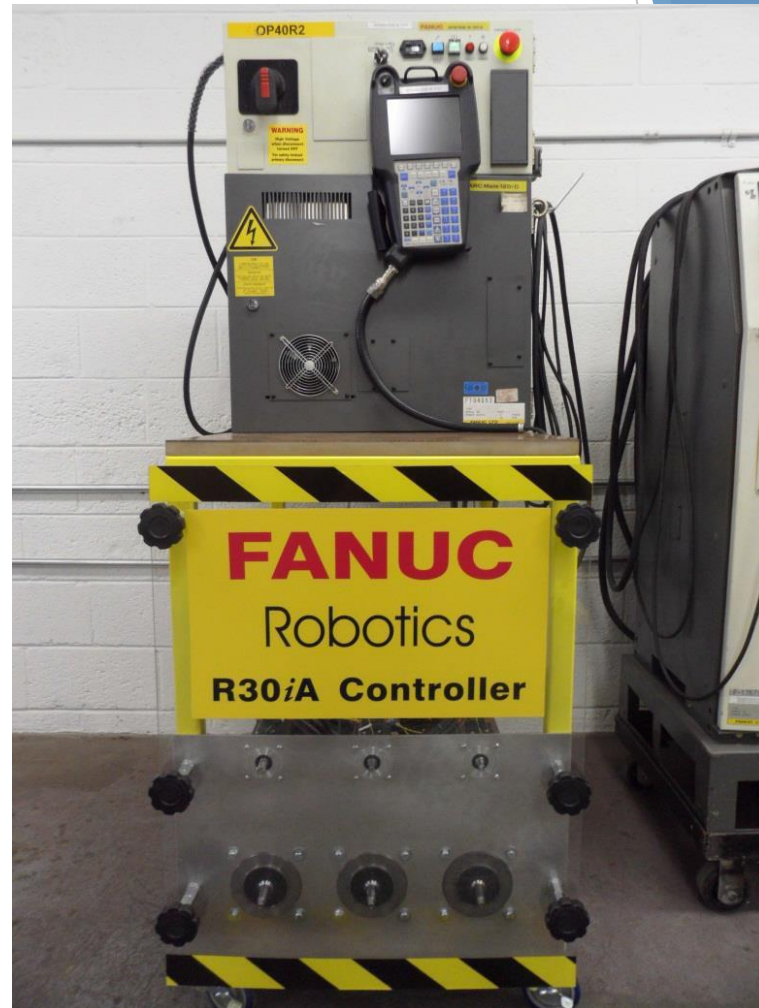
CPU Drive Board  
A16B-3200-0600

Devicenet PC Board  
A16B-2203-0910

Servo Drive  
A06B-6107-H002

Cooling Module  
A05B-2501-C312

Fanuc iPendant  
A05B-2518-C200



# Fanuc Powermate CNC

## Capabilities Include:

A06B-6057	A06B-6058
A06B-6066	A06B-6077
A06B-6078	A06B-6079
A06B-6080	A06B-6081
A06B-6082	A06B-6083
A06B-6085	A06B-6087
A06B-6088	A06B-6089
A06B-6090	A06B-6091
A06B-6092	A06B-6093
A06B-6096	A06B-6097
A06B-6098	A06B-6102
A06B-6110	A06B-6111
A06B-6114	A06B-6117
A06B-6120	A06B-6121
A06B-6124	A06B-6127
A06B-6140	A06B-6141
A06B-6150	A06B-6151



# Fanuc Powermate D

## Capabilities Include:

A06B-6057	A06B-6058
A06B-6066	A06B-6077
A06B-6078	A06B-6079
A06B-6080	A06B-6081
A06B-6082	A06B-6083
A06B-6085	A06B-6087
A06B-6088	A06B-6089
A06B-6090	A06B-6091
A06B-6092	A06B-6093
A06B-6098	A06B-6102



# Fanuc Powermate Di

## Capabilities Include:

- A06B-6077
- A06B-6078
- A06B-6081
- A06B-6082
- A06B-6083
- A06B-6087
- A06B-6088
- A06B-6091
- A06B-6092
- A06B-6093
- A06B-6096
- A06B-6097
- A06B-6098
- A06B-6102





# ABB S4 IRB1400 Robot System

## Capabilities' Include:

3HNE00312-1 Teach Pendant  
DSCQ-236D Servo Amp  
DSQC-314A Servo Supply  
DSQC-258 Logic Supply

## Control Cards

DSQC-239  
DSQC-223  
DSQC-315  
DSQC-256  
DSQC-325  
DSQC-323  
DSQC-335



# ABB S4C IRB2400 Robot System

## **Capabilities Include:**

3HNE-00313-1 Teach Pendant  
DSQC-345B Power Supply  
DSQC-346C Servo Amp  
DSQC-346E Servo Amp  
DSQC-374 Logic Supply

## **Control Cards**

DSQC-373  
DSQC-323  
DSQC-361



# ABB IRC5 IRB2400 Robot System

## Capabilities Include:

Flex Teach Pendant

3HAC023195-001/04

Main Servo Drive

3HAC025338

Servo Supply

3HAC026289-001 : DSQC626A

Control Power Supply

3HAC12928-1 : DSQC604

Rectifier

3HAC14549-3

SMU Board

3HAC16014-1/07 : DSQC562

Capacitor Unit

3HAC14551-2

Computer Unit

3HAC020929-006

Drive Power Supply

3HAC020466-001 : DSQC627

Motors

3HAC17346-1 3HAC17326-1/02 3HAC15ARA-AB11

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# ABB S4C+ Robot System

## Capabilities Include:

Teach Pendants:  
3HNE Series

Power supplies:  
3HAC Series  
DSQC Series

Drive Boards:  
3HAB Series  
DSQC Series



# ABB S4C IRB6400 Robot System

## Capabilities Include:

Teach Pendants:

3HNE00313-1

Servo Supply:

3HAB8101-3 : DSQC-345B

Logic Supply:

3HAC3462-1 : DSQC-374

Servo Amp:

3HAB8101-8/10 : DSQC-346G

Safety Board:

3HAB7215-1/07 : DSQC-331

Comm Interface Board:

3HAC2424-1 : DSQC-369

Control Cards:

3HAC3180-1 : DSQC-373

3HAB5956 : DSQC-323

3HAC0373-1 : DSQC-361

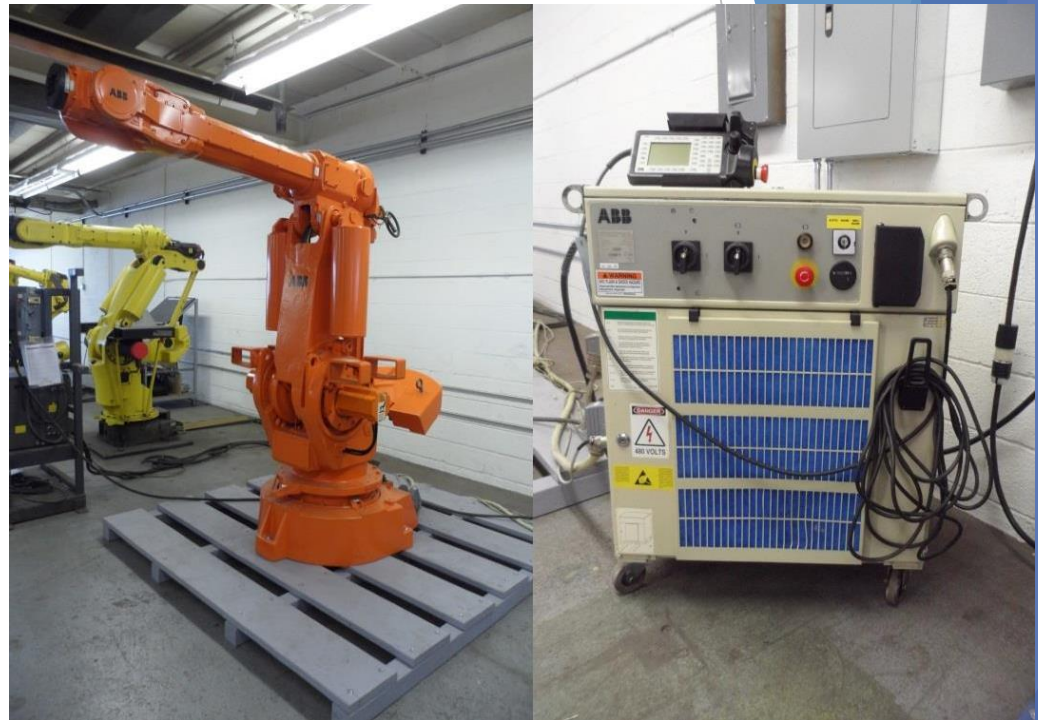
Motors:

3HAB5760-1

3HAB0200-1/04

3HAB822-1/05

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# ABB S4C+PC IRB6600 Robot System

## Capabilities Include:

Teach Pendants:

3HNE00313-1

Power supplies:

3HAC14265-1 : DSQC539

Drive Controller Module

3HAB8101-19/07D : DSQC545A

Drive Module

3HAB8101-18/9 : DSQC546A

Motors

3HAC020208-001

3HAC17484-6

3HAC17484-9

3HAC17484-10

Safety Board

3HAC5687-1 : DSQC509

Comm Interface Board

3HAC5689-1 : DSQC504

Computer

3HAC020914-001

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# Motoman NX with EA1400N Robot System

## Capabilities Include:

Teach Pendant

Yasnac NX JZRCR

PC Servo Control

JZNC

Motors

SGMRS

SGMPH

Power Supply

JZNC

JZRCR

Yaskawa I/O

JZNC

Servo Packs

SGDR Type CNP6 CNP4

Converter

SDGR



# Motoman MRC w/SK16

## Capabilities' Include:

### System Components

Teach Pendant, MRC JZCN

Amplifier, CACR

Motors, SGMP

Power Supply, CPS

### System Modules/PCB

JANCD-MCP01

JANCD-MIF01

JANCD-MI004

JANCD-MSV01B

JANCD-MRY01B-1

JANCD-MEW02-1





# Motoman XRC Robot System

## Capabilities Include:

Teach Pendant

JZNC-XPP02B

Power Supply

JUSP01AAC

Servo Amplifier

JZRCRX-XSU02

Yaskawa I/O

JZNC-XIU01-1

CPU Board

JANCD-XCP01

Boards

JANCD-XSP01

JARCR-XFB01B

JARCR-XFB04

JANCD-XCP01C-1

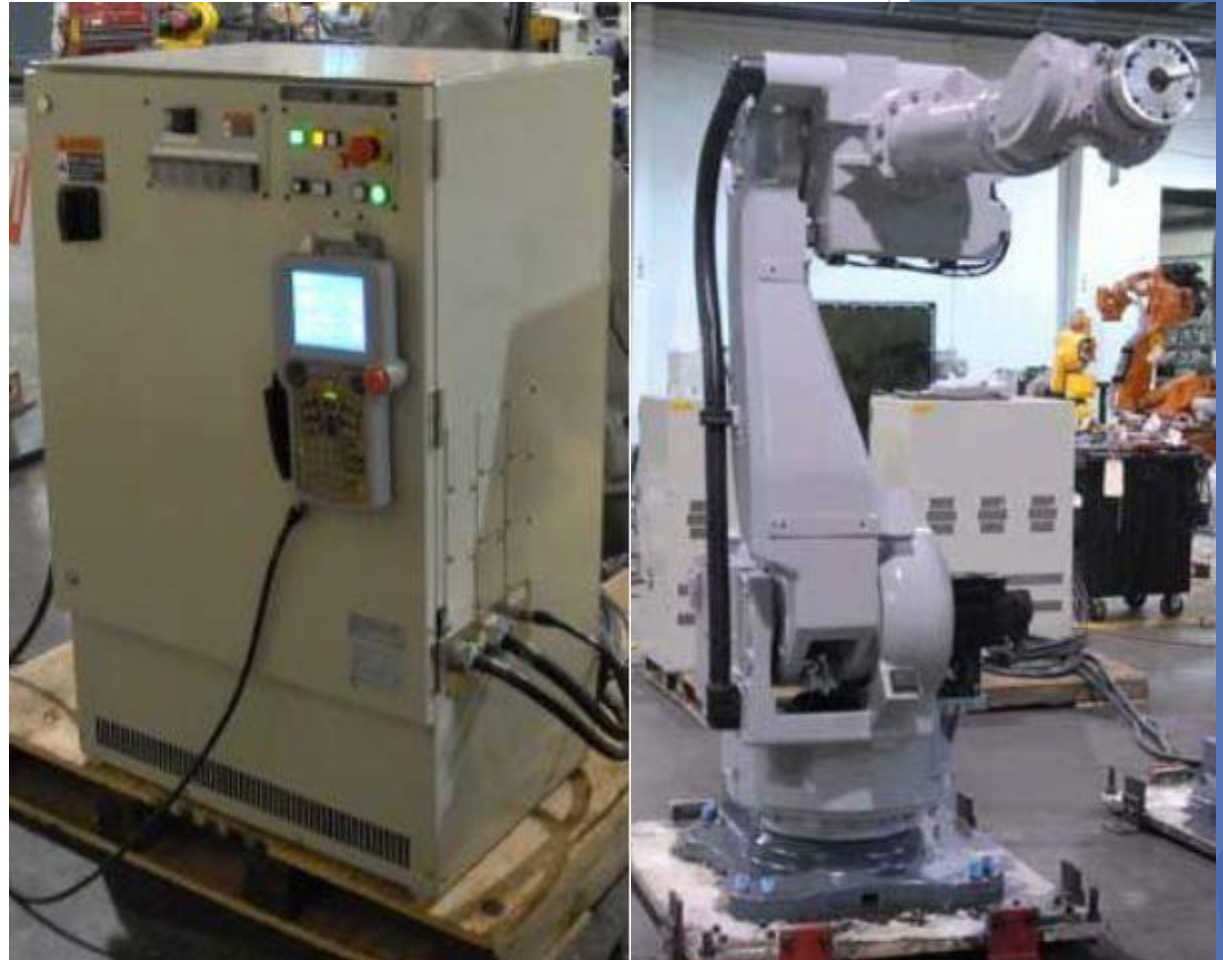
JANCD-XCP02B

Motors

SDMDH-45A2B-YR15

SGMGH-44A2A-YR15

SGMGH-13A2A-YR13



# Yaskawa Motoweld EL-350

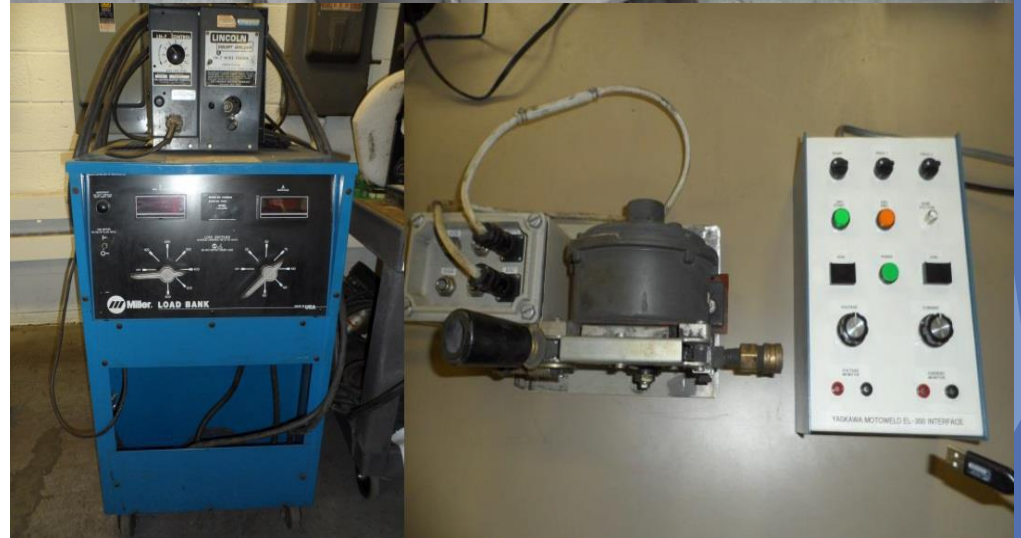
## Capabilities Include:

Motoman EA1400N Manipulator

Yaskawa NX100 Controller

Motoweld EL-350

Inverter



# Yaskawa Sigma II Servo Motor Repair (200V Class)

## Capabilities Include:

SGMAH  
SGMPH  
SGMGH  
SGMSH  
SGMUH  
SGMBH



# Nachi AR52/SA160F Robot System

## Capabilities' Include:

AR-52-Kunit Power Unit  
RAX11 19-98030041 Drive  
R0P501 Teach Pendant  
MFM552HIV Motor  
MDM212HIV Motor  
FJK2005A Logic Supply



# Nachi AX-C / AX-MV6 Robot System

## Capabilities' Include:

L8800J Servo Drive  
L8811 Power Supply  
L8810 Logic Supply  
L8800F Weld Process  
L9110C I/O Board  
Teach Pendant  
AXTP-DDON-UC08R



# Allen Bradley 1394 Digital Servo Module

## Capabilities Include:

### Main Controllers

1394-SJT05-A/C/T-XX

1394-SJT10-A/C/T-XX

1394-SJT22-A/C/T-XX

1394C-SJT05-A/C/T-XX

1394C-SJT10-A/C/T-XX

1394C-SJT22-A/C/T-XX

### Axis Modules

1394AM-XX

1394CAM-XX

### AC Servo Motors

1326AS-XXXX

1326AB-XXXX



# Siemens 611 AC Servo Control System

## Capabilities' Include:

Infeed Power Module  
6SN1145 (Entire Series)

Power Amplifier Module  
6SN1123(Entire Series)

611 Capacitor Module  
6SN1112 (Entire Series)

Control Card Modules  
6SN1118 (Analog and Universal Series OD  
and OG series)



# Mitsubishi CNC Diagnostic Test System

## Capabilities Include:

MDS-B-V1-XX

MDS-B-V2-XXXX

MDS-C1-V1-XX

MDS-C1-V2-XXXX

Currently setting up for the:

MDS-CH-V1-XX

MDS-CH-V2-XXXX

MR-J2S-XXXXA Melservo Amplifier Series

HC-SFSXXXX AC Servo Motor





# Indramat DIAX04/IndraDrive

## Capabilities Include:

System Components  
Teach Pendant, MRC JZCN  
Amplifier, CACR  
Motors, SGMP  
Power Supply, CPS  
System Modules/PCB  
JANCD-MCP01  
JANCD-MIF01  
JANCD-MI004  
JANCD-MSV01B  
JANCD-MRY01B-1  
JANCD-MEW02-1



# Indramat Multiseries Test System

## Capabilities Include:

TVM  
TDM  
TDA  
TVR  
TVD  
DDS  
DKC  
DKS  
KDA  
KDS  
KDV  
KDR



# Indramat TRANS01 / DSC Diagnostic Test System

## Capabilities Include:

Controllers  
TRANS01  
Servo Drive Modules  
DSC1  
DSC3



# Indramat SERCOS Interface System

## **Capabilities Include:**

Sercos Indramat Testing for:  
DIAX-03 Family  
DIAX-04 Family  
IndraDrive Family



# Berger Lahr Power Drive

## Capabilities Include:

Drive

WD6 Series

WD5 Series

WD3 Series

Motor

VRDM Series

Encoder

50-500



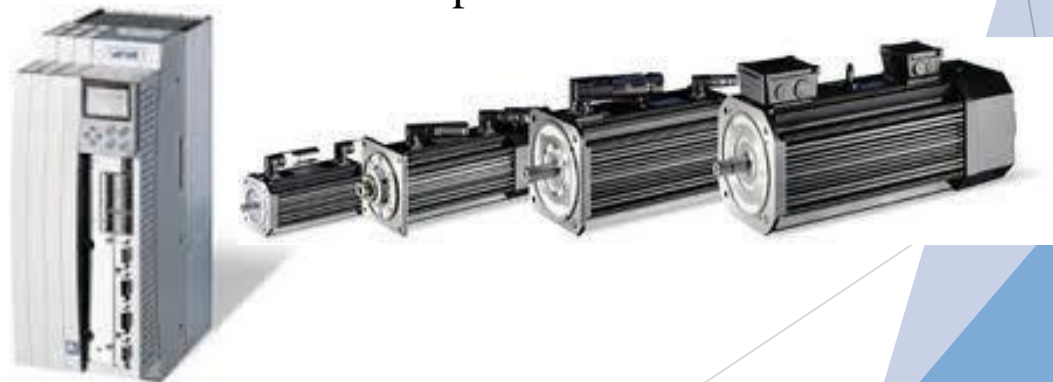
# Allen Bradley/Electro Craft DDM-019 Ultra 100 Brushless Servo



Kollmorgen Servo Star 603 Series



Lenze EVS93xx  
Servo Amplifiers/Servo Motors



# Compumotor Microstepping Zeta57 Drive System

## Capabilities Include:

Drive  
Zeta57-XX

Motors  
Zeta 57-51-MO  
Zeta S57-83-MO



# Allen Bradley ArmorStart280/281D DeviceNet Motor Control

## Capabilities Include:

280/281D Base Modules

280/281D Control Modules

There are many different models of 280D that can be tested with this system. Many different control voltages such as 24VDC, 120VAC and 240VAC power can all be tested.





# Yamaha SRCX-05 Single Axis Robot

## Capabilities Include:

Teach Pendants:

TPB

Robot Actuator :

F10-20-1050

Brake:

MCN 15-18

Motor:

90K92-61000001

Robot Controller:

SRCX 05



# Tregaskiss TT Reamer

## **Capabilities Include:**

Tregaskiss TT Reamer



# Servo Motors

## Capabilities Include:

- AC Servo Motors
- Brushless DC Servomotors
- AC Spindle Motors
- Induction Motors
- DC Motors
- Robotic Wrists

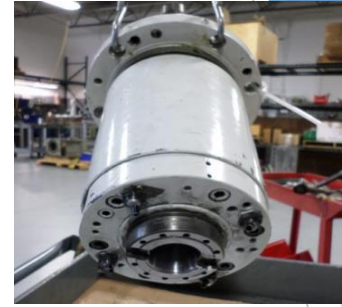
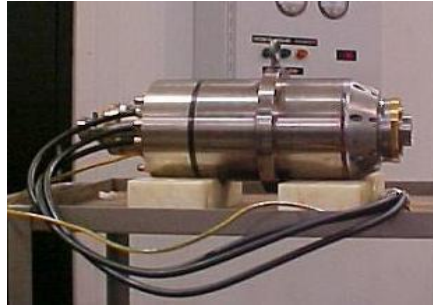


- Allen Bradley • ABB • Fanuc • Emerson • Indramat • Fanuc • Pacific Scientific • Siemens
  - Panasonic • ABB • Baumuller • AEG • Fuji • Bautz • Mitsubishi • Cincinnati Milicron • Yaskawa
  - Emerson • Gettys • Giddings & Lewis • Gould • Industrial Drive • Kollmorgen • Lenze • Moog
  - MTS • Parker • Whedco
-

# Precision Spindle Repair

## Capabilities Include:

Blanchard \* Browne & Sharpe \*  
Bryant \* Chiron \* Cincinnati \*  
Doall \* Dumore \* Excel \* Excello \*  
Fanuc \* Franz Kessler \* GMN \*  
Gros-ite \* Heald \* Ingersoll \*  
Kingsbury \* Landis \* Makino \*  
Mori-Seiki \* Pratt & Whitney \*  
Parker \* Majestic \* Pope \* Precise  
Rigid \* Rockwell \* Setco \* Taft  
Pierce \* Voumard



# STI Opto Shield OS3101

## Capabilities Include:

OS3101  
RM-2AC Safety  
Interface



# Square D EQ5300 Resistance Weld Control

## Capabilities Include:

EQ5300 Timer  
52046-124-50 SCR Firing PCB  
52046-117-51 SCR Power  
ASSY  
RT-108 I/O  
DN-108 I/O  
C1600 Panel  
C1700 Panel



# Allen Bradley PLC

## Capabilities Include:

CPU Processor

I/O

PLC Modules

Power supply

CNC

Multilayer PCB

Relay Logic



# LCD CONVERSIONS

## Capabilities Include:

CRT-to-LCD Retrofit  
LCD Integration  
Slow-Scan  
Auto-Sync

The benefits to a conversion are as follows:

- Less energy required to run (lower operating cost).
- Converted units weigh less (easier installation).
- LCDs emit less heat (extending component life).
- Cost-effective solution (compared to new).

*No panel modifications are required to mount a converted unit. No supply voltage, communications port, or cable modifications are required. Just plug the cables from your existing system into the unit and you're up-and-running!*

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