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
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
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
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
- 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:
DIA-X-03 Family
DIA-X-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!