



LINE CARDS

2018

K+S SERVICES INC.

**QUALITY REPAIR OF
MANUFACTURING EQUIPMENT**

**WWW.K-AND-S.GLOBAL
1-800-542-1331**

Quality Repair of Manufacturing Equipment

Don't see what you are looking for? Give Us A Call!

SOUTHGATE, MI ● TAYLOR, MI ● KOKOMO, IN ● LAWTON, OK ● ROCKY HILL, CT ● OAKVILLE, ON ● MONTREAL, QC ●
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GENERAL ELECTRONIC REPAIR

With over 30 years of experience, our highly skilled Technicians can repair a large variety of General Electronics. We have the ability to dynamically bench test items from Amplifiers, Heat Controllers, Light Curtains to Power Supplies & UPS devices. K+S has the experience to provide a quality repair at a competitive price.

AMPLIFIERS

Bogen
Crown
Fanuc
Indramat
Mitsubishi
Rauland-Borg Corp.
Sciaky
Yaskawa



ENCODERS

Absolute Accu-Coder - Allen
Bradley - Autotech - Baldwin
Balluff - BEI - CMC - Data
Tech - Durant - Dynamic
Research - Dynapar - Emerson
Encoder Products - Fanuc
Gemco - Guhley - Heidenhain
Henssler - Litton - Namco
Prab - Reliance - Sequential
Sumtak - T&R Electronics
Tamagawa Seiki - Unico -
Yaskawa



TEMPERATURE CONTROLLERS

Athena
Barber Colman
D.M.E.
Eurotherm
Fenwal
Gammaflux
Honeywell
Leeds & Northrup
L.F.E.
Love
Makon
Omegas
Omron
Partlow
Watlow
West



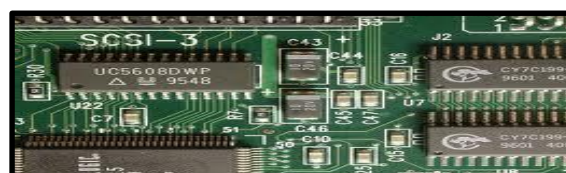
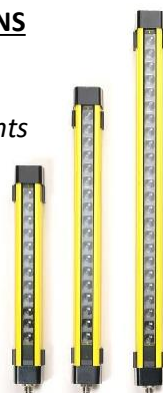
POWER SUPPLIES

Abbott
AC-DC
Acopian
B&K Precision
Cincinnati
DEC
Fanuc
General Electric
Hewlett Packard
Indramat
Lambda
LH Research
NCR
PMC
Powermate
Powertec
Siemens
Slo-syn
Sola
Sorenson
Standard
Unimate
Yaskawa



LIGHT CURTAINS

Allen Bradley
Banner
Data Instruments
Dolan Jenner
ISB
Safe Scan
Shadow
Sick
STI
Triad



ALL UNITS ARE SYSTEM TESTED

***12 MONTH IN-SERVICE WARRANTY**

Unless otherwise stated at time of quotation

***NO CHARGE EVALUATION**

An evaluation fee may apply for priority repairs



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AC / DC DRIVE CONTROL REPAIR

K+S has over 30 years of experience repairing all types of AC / DC frequency & servo drives. We have designed in our Engineering group, over 100 dedicated test stands to ensure a quality repair. In addition, we have also designed a special dynamometer that allows two motors to work against each other; this provides a dynamic load test allowing us to make performance and rating adjustments to exactly the right levels. Below is a list of the Manufacturers we are currently supporting globally within our repair labs.

ABB
AC TECHNOLOGIES
AEG

ALLEN BRADLEY

ALTIVAR

BALDOR

BAUMULLER

BODINE ELECTRIC

BOSCH

BOSTON GEAR

CAMCO

CMC

COMPUMOTOR

CONTRAVES

CONTROL TECHNIQUES

CUTLER HAMMER

DANFOSS

DART

DENSO



EATON/DYNAMIC
ELECTRO-CRAFT

EMERSON

FANUC

FATA AGV

FENNER

FINCOR

FUJI

GE FANUC

GE

GETTY'S

GOULD

ICC

INDRAMAT
INLAND
KEBCO
KOLLMORGEN

LENZE

LOVEJOY

LOUIS ALLIS

MAGNETEK

MINARIK

MITSUBISHI

MODICON

MOOG

MOTION CONTROL

NIKKI DENSO

NIPPON

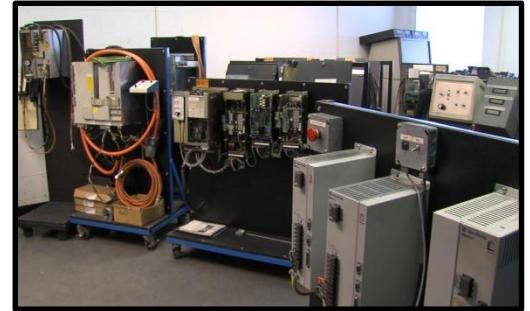
OMRON

PACIFIC SCIENTIFIC

PANASONIC

PARAJUST

PARAMETRICS



Dedicated Test Stands

PARKER

RAMSEY

RELIANCE

SANYO DENKI

SECO

SEIDEL

SERVO DYNAMICS

SEW EURODRIVE

SIEMENS

SLO-SYN

SQUARE-D

STROKONSULT

SUMITOMO

SUPERIOR ELECTRIC

SWEOW

TECHMOTIVE

TELEMECANIQUE

TOSHIBA

VEE-ARC

VICKERS

WARNER

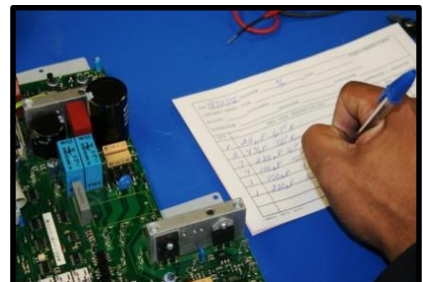
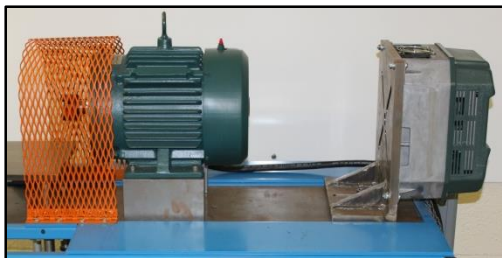
WESTINGHOUSE

WESTAMP

WHEDCO

WOODS

YASKAWA



A Thorough Evaluation is Completed on Each Unit

Load Test Stands

ALL UNITS ARE SYSTEM TESTED

***12 MONTH IN-SERVICE WARRANTY**

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RF: FALL11



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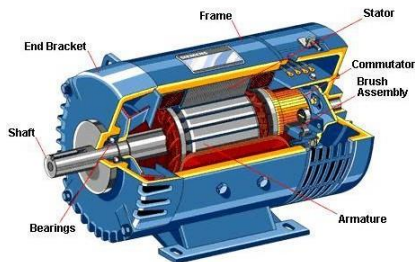
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AC / DC Motors

With over 30 years of experience, our highly skilled Technicians can repair and test your AC and DC motors. Whether it is a Drive Motor or a Blower, K+S has the experience to provide a quality repair at a competitive price.



DC Motor Breakdown



DC Drive Motor With Cooling Fan



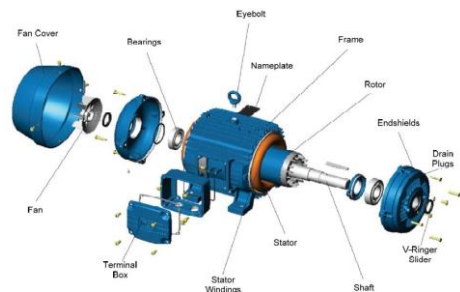
DC Hi - Lo Motor



All Types of AC Induction Motors Supported



Motor Rewind Department



AC Motor Breakdown

- **Most Major Brands Supported**
- **Full Rewind Capabilities In House**
- **Factory Trained Technicians**
- **Emergency Service Available**
- **Detailed Failure Analysis Reporting**

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SERVO MOTOR REPAIR



Robotic Servo Motors

With over 32 years of servo motor repair experience, our highly skilled servo motor technicians can repair, align and dynamically load test your robot axis and base motors.



Machine Tool Servo Motors

Our expert Servo Motor technicians can provide quick turn around and efficient repair for your machine tool servo motors and spindle drive motors.



DC Permanent Magnet Servo Motors



At K+S Services, we specialize in problem solving. If your equipment is utilizing Permanent Magnet DC servo motors, we can help. We support most major brands and can handle all types of feedback devices installed on DC permanent magnet servos.



Additional Benefits

- Full rewind capabilities in house
- AC induction motor repair and service
- DC wound field motor repair
- Fork Truck motor repair
- Factory trained technicians
- Emergency service available



Dynamic load testing on all servo repairs

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CNC MACHINE CONTROL REPAIR

K+S has over 30 years of experience repairing a wide selection of machine control manufacturers. We have designed in our Engineering group, dedicated test stands to ensure a quality repair. Our CNC control lab has the dedicated test stands to repair the entire CNC control from the operator interface, spindle drive, power supply, CPU modules and the system I / O cards regardless if they are analog or digital. Below is just a brief overview of the Manufacturers we are currently supporting along with some of the system model numbers.

Allen Bradley

System: 7100, 7300, 8000, 8200, 8600
9 Series

Fanuc

System: O, 15, 16, 18, 21
Alpha HVI, Powermate A, D, Di, E
Servo Motors - A06B-0032 through A06B-6059

General Electric

Systems: 1050 & 2000

Indramat

System: CLM, DDC, DDS, DEA, DKC, DKR, DKS
DLC, DSC, HDD, HDS, HVR, KDA, NAM, RAC, TAM,
Trans 01, TDA, TDM, TVD, TVM
Servo Motors: MAC, MDD, MHD, MKD, MKE, 1AD

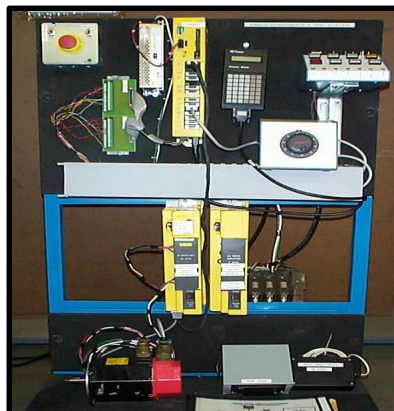


Siemens

System: Simodrive 611, 6RA, 6SC, 6SE
6SN, A1, 820, and 840D
Servo Motors: 1FT, 1HU, 1PH

Yaskawa

System: CACR, CDMR, CIMR, CMPC
CMPF, CPR, CPS, DR1, JANCD
Servo Motors: SGMGH, SGMP, SGMPH,
USAED, USAREM, USASEM



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INDUSTRIAL MONITORS / DISPLAYS / TERMINALS / HMI'S

ADVANTECH
ALLEN BRADLEY
AYDIN CONTROLS
BALL
CARDINAL
CINCINNATI MILACRON
CUTLER HAMMER
DAYTRONICS
DIGITEC
DIEC
DOTRONIX
EATON IDT
FANUC
GENERAL ELECTRIC
GIDDINGS & LEWIS



HITACHI
HMW
IDEK
IDT
INDUSTRIAL COMUTERS
KME
LANDIS
MATSUSHITA

MITSUBISHI
MODICON
MONITECH
NEC
NEMATRON
OKUMA
PANASONIC
SIEMENS

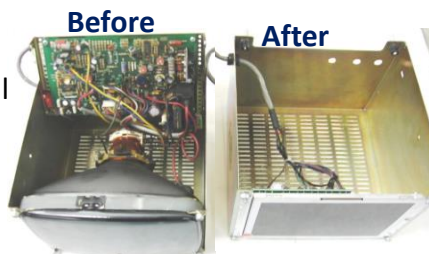
SQUARE D
STRUTHERS DUNN
TEXAS INSTRUMENT
TEXTRONIX
TOSHIBA
TOTAL CONTROL
PRODUCTS
TOYODA
UNIPO
USON
VIEWSONIC
WYSE
XYCOM
YASKAWA
MANY MORE...

THOUGHT ABOUT CONVERTING YOUR OLD CRT'S TO LCD TECHNOLOGY?

K+S offers a conversion that takes your old CRT monitors or NMI / HMI displays and replaces them with energy efficient LCD displays. Isn't it time to you thought about Going Green?

CRT Monitor – Disadvantages

- Lower Resolution
- Heavier to carry
- Requires special handling for disposal
- More parts than can fail
- Over 50% lower life expectancy
- Hazardous to our environment
- Requires more power



LCD Display – Advantages

- Uses original chasses
- Safe for landfills
- Cost effective conversion
- Requires less power
- Over 200% increase in life expectancy
- Over 80% lighter than CRT's
- No special disposal needed
- Higher resolution – brighter



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PROGRAMMABLE LOGIC CONTROLLERS

K+S has over 300 fully functional test stands which allows our Technicians the ability to fully system test every repair. This ability allows us to simulate how the unit will perform within a plant environment along with being able to check for elevated temperature faults.

Allen Bradley

PLC – 1774 Series

PLC-2 Family

PLC 2 Mini, 2/05, 2/15

2/16, 2/17, 2/20, 2/30

PLC 3 Family

PLC-3 & 3/10

PLC 4 Microtrol

PLC 5 Family

5/10, 5/11, 5/12

5/15, 5/20, 5/25, 5/30

5/40, 5/40L, 5/60,

5/60L, 5/80

PLC-5/250 Pyramid

SLC Family

100, 150 & 500

Micrologix Series

1000 & 1500

Peripheral Items

1791 Series I/O

1770-SA

1770-SB

2700 Series

2755 Barcode Family

2803 Vision System

All Starlinks

Advisor

Advisor 2

Advisor 2+

Intelligent Antenna

Intelligent Panel System

M-10 Mass Storage

M-11 Mass Storage

M-12 Mass Storage

AUTOMAX / RELIANCE

AMX 6010, 6011, 7010

DCS 5000

BAILEY

INFI 90

BARBER COLMAN

Edac

Maco IV

Maco V

Maco VI

Maco 8000

CINCINNATI-MILACRON

Apc-1 & 500

CUTLER HAMMER

D-100, 200 & 500

GENERAL ELECTRIC (FANUC)

90/20, 30 & 70 Series

Series One, One Jr., Three, Six,

Six Plus

PiC 409 / 49

HONEYWELL

620-10, 15, 16, 20, 25, 30 &
35 Series

621 Series I/O System

ICP 622

ISSC /IPC

90 & 300 Series

MITSUBISHI

F1 & F2 Series

Series "A", "Ann" & "Q"

MODICON

184, 384, 484, 584, 884 &

984 Family

Compact 984

Micro 84

Micro 984

PC0984

Quantum Series

OMRON

S6 Series

Symac

C20, C40K, C200H & C210

RELIANCE

Automate

15, 20, 30 & 40 Series

Automax

AMX – 6010, 6011, 7010

DCS 5000

SHARP

W51

W100

SIEMENS

525, 535, 545, & 555 Series

S5-110, 115 & 150

SQUARE D

100, 300, 400, 500,

700 & 8881 Series

TELEMACHNIQUE

TSX Series

TEXAS INSTRUMENTS

100 – 560 Series

5TI & PM-550

TOSHIBA

Ex-20 Plus

TOYOPUC

PC1, PC2 & PC3 Series

WESTINGHOUSE

PC 700, 900, 1100 & 1200

YASKAWA

Memocon

SC684

SCR84

SCU84



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ROBOT MANIPULATORS & CONTROLLERS

K+S has installed numerous robotic manipulators and control diagnostics systems to facilitate complete system verification for a wide range of robotic components. Electrical devices ranging from CPU's, amplifiers, communications devices, teach pendants, power supplies, servo drives, I/O modules and operator interfaces. Mechanical items such as gear boxes, balancers, wrist assemblies and servo motors are repaired and fully tested for functionality. The diagnostics ensure full load and repeatability testing of all robotic repairs. Manufacturers include Fanuc, Motoman, ABB, Kuka, Nachi, Kawasaki and others.

Fanuc Control/Manipulator

RH/A200
RJ2/S420iF
RJ3/S430iF
RJ3iB/R2000iA
RJ3/Arcmate 120i
R30iA/R2000iA
R30iB/R2000iB

ABB Control/Manipulator

S4C+/IRB6600
S4C/IRB6400
IRC5/IRB7600
S4/IRB6400
IRB/IRB1400

Motoman Control/Manipulator

MRC/K100
ERC/YR6
MRC/K30
XRC/UP6
NX100/HP175
DX100/HP175
XRCmini/S1M005

Comau Control/Manipulator

C3G+/Smart M1

Kawasaki Control/Manipulator

AD/UX150
C32/ZX165U
C52/ZX165U

Nachi Control/Manipulator

AX/SH200
AR/SA160
AW/SH166

Kuka Control/Manipulator

KRC2/KRC4/KR210



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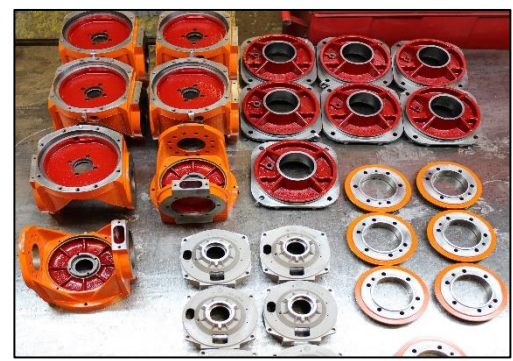
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FANUC AND ABB WRIST REBUILDING

At our Hydraulic / Mechanical Division, our trained technicians will rebuild your worn ABB or Fanuc wrist assembly to like new condition for less than the OEM. Each wrist assembly is thoroughly inspected and rebuilt to OEM specifications. If your wrist includes servo motors, those too will be evaluated and repaired during the wrist repair. Each unit is fully tested to verify proper operation when installed in your robot.



Each wrist is completely disassembled. All components are cleaned and inspected. Each item is carefully prepped for reassembly. Each completed wrist assembly is fully tested prior to return to our customers.

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SERVO VALVE DEPARTMENT

The K+S Services Valve Department is well known for Servo valve and Proportional Valve support, with the capability to provide computer controlled dynamic and static testing. Our state of the art computerized load stands ensure that each valve meets OEM specifications. We also can handle your general purpose valves as well. Whether its Hydraulic or Pneumatic and controls Pressure, Flow, or Directional, please consider K+S Services your go-to valve support source for all of your valve needs.

Manufactures Supported

Atchley	Honeywell	Oil Gear	RVA	Vickers
Bosch	HPM	Olsen	Schenck	And Many More!
Bullard	HR Textron	STAR	SLI	
Cincinnati	Hunker	Moog	Textron	
Denison/Abex	Kawasaki	Parker	Tokyo Keiki	
Dowty	Konring	Pegasus	Tokyo Precision	
Dyval	MTS	Rexroth	Ultra	

Our Process

- Valve is disassembled and evaluated for wear and damage – FREE
- Failure analysis report generated and repair quote provided – FREE
- All components are thoroughly cleaned and damage components replaced
- Assembled units are load tested and test report created
- 12 month "In-Service" warranty provided with all repairs



Dedicated Run – In Stand



Torque Motor & Static Servo Testing



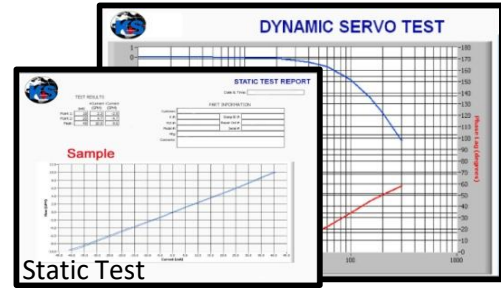
Dynamic Servo Testing



Clean Air Assembly Benches



**K+S is the ONLY USA Authorized
Distributor of STAR Valves**



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SERVO VALVE REPAIR

Our Servo Valve Repair Lab has the capability to provide computer controlled dynamic and static testing. Our state of the art computerized load stands ensure that each valve meets OEM specifications.



Dedicated Run – In Stand



Torque Motor & Static Servo Testing



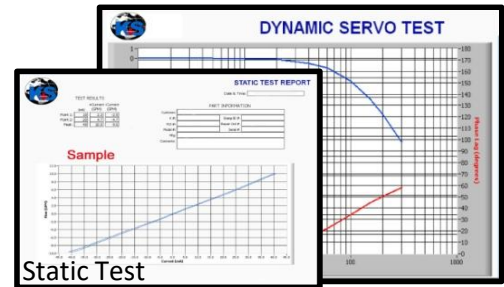
Dynamic Servo Testing



Clean Air Assembly Benches



**K+S is the ONLY USA Authorized
Distributor of STAR Valves**



MOOG

21, 22, 62, 72, 73, 76, 77,
78, 79, 760, A076, D631,
D641, D644, D645, D760,
D761, D765, E760, G761

PEGASUS

120, 121, 130, 131,
140, 141, 160, 161,
180, 1160, 1280, 1282

REXROTH

3DS, 4WR, 4WS,
WRA, WRE, WRZ

STAR Family Series

200, 454, 455, 456, 458, 500,
502, 507, 550, 550E, 552, 553,
557, 558, 590, 592, 597, 60FC,
650, 652, 750, 890, 892, 897,
900, 1650, 1652, 1653

ULTRA

4550, 4551, 4657,
4658, 4661, 4683

VICKERS

EHST, KAFDG, SA4-03,
SA4-06, SC4-03, SD4-03,
SF4-03, SH4, SM4

Additional Manufacturers Supported

Atchley	Konring
Bosch	Oil Gear
Bullard	Olsen
Cincinnati	Moog
Denison/Abex	Parker
Dowty	Rexroth
Dyval	RVA
Honeywell	Schenck
HPM	SLI
HR Textron	Textron
Hunker	Tokyo Keiki
Kawasaki	Tokyo Precision

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Star Servo Technology



K+S Services is the only authorized distributor and service center for Star Hydraulics, Ltd. in the USA.

Star designs and manufactures high quality electro-hydraulic servo valves and associated equipment, which are used in a wide variety of market sectors. The key to the success of the company is the many years of servo engineering development which enables customers to gain consistent operational life capacity. With Stars Sapphire Technology, we are undertaking upgrades of Simulator, Industrial, Aerospace and Military applications around the world. K+S and Star see this appointment as a key development for the improvement of operational life for this type of equipment utilizing Star products, features and benefits while providing many drop-in replacements in these key sectors.



Electronics: Servo Amplifiers,
Custom Built Controllers,
Hand Held Testers



Associated Equipment: Flushing
Blocks, Manifolds, Adapter
Plates, Override Modules



Many of Stars servo valves are manufactured with inlet orifices and feedback wire that include the Sapphire Technology. The benefit to the operator is that the traditional inlet and ball wear erosion problems that have been seen in the past are now just that, a thing of the past. These features enable Star servo valves to deliver and maintain higher performance for extended periods without failure. This extended operational life results in reduced costs for the end user.

K+S became part of history when a large aerospace company launched their rocket into space with a successful return back to earth by supplying & supporting the Star servo valves that are used on the gimbal controls for the nine engines...Has your repair partner been to Space and back? At K+S, our quality and performance is out of this World!



ALL UNITS ARE SYSTEM TESTED

***12 MONTH IN-SERVICE WARRANTY**

Unless otherwise stated at time of quotation

***NO CHARGE EVALUATION**

An evaluation fee may apply for priority repairs



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HYDRAULIC COMPONENT REPAIR

With over 30 years of experience, our highly trained technical specialists are dedicated to providing our Customers with quality repairs on hydraulic pumps, motors, cylinders, rotary actuators, proportional valves, servo valves and other industrial hydraulic items. K+S has developed and constructed test systems designed to properly test repair components under load. Once the repair has been completed, each item is rigorously tested on specially designed test stands to verify proper operation and that it meets or exceeds OEM specifications.

MOTORS / ROTARY ACTUATORS

Major Manufacturers

• CINCINNATI

.59 CU.IN., 1.03 CU.IN., 10 CU.IN.

10.5 CU.IN., 1 CU.IN., 22 CU.IN.

• DENISON

M1C, M1C1, M1D, M1E

M4C, M4C-1, M4D

MF Series

Gold Cup Series

World Cup Series

• FUJITSU

EHPM-1/5, EHPM-1/2, EHPM-1-SSS(L)

EHPM-1-SSSSS, EHPM-2, EHPM-3

• REXROTH

Contact us for more info

• STAFFA

B-30, B-40, B-80, B-200, B270, B-S

GB-525-S, GB-800-S, GB-1000-S, GB-1400-S

• SUNDSTRAND

20 - 27 Series

• VICKERS

MFA, MFB, MFI, MF, MHT

HYDRA-STATIC DRIVES

•Eaton

•Sundstrand

•Kubick

•Vickers

HYDRAULIC PUMPS

Major Manufacturers

• DENISON

46, 500, 600, 700, 800, 900

All DFC-Series

Gold Cup Series

P1F, P1V, P2F-V P3F-V, PA,

PF PV, PXX, TDC, TED, TE, TS,

TME TMG

World Cup Series

• OILGEAR

A, AN, BD, C, D, DN, F, HG, H

Hydura PVAK, PVLK, PVK, PVT

• RACINE

20-L, 80-L, C-11

PSV, PVB, PVF, PVK, PVQ, PVR

PVS, PVT

• REXROTH

Contact us for more info

• VICKERS

2520V, 3525V

4525

All PVB Series

All PVQ Series

All PVE Series

All PVV Series

PV 2003, PV 2008, PV 2012

PV 2020, PV 2032, PV 2050

PV 2125, PV 2200, V-108

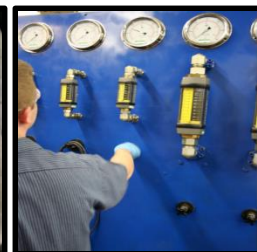
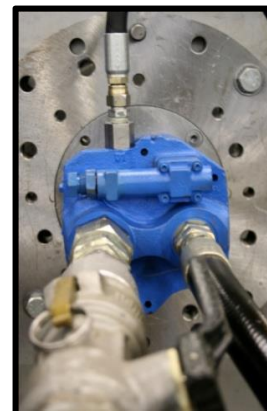
V-134, V-138, V-144, V-400

V-468, V-5230, VC-108

VC-138, VC-148



HYDRAULIC LOAD TEST STAND



CYLINDERS & SERVO ACTUATORS

• Anker-Holth

• Boxtel-Holland

• Caterpillar

• Graco

• Hanna

• Hydroline

• Instrom

• Kress

• Komatsu

• Lynair

• Miller

• Milwaukee

• Moog

• MTS

• Nopak

• OR164

• Parker

• Rexroth

• Pegasus

• Strippet

• Sheffer

• Team

• Tomkins

ALL UNITS ARE SYSTEM TESTED

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RF: FALL11

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MECHANICAL COMPONENT REPAIR

With over 30 years of experience, our highly trained technical specialists are dedicated to providing our Customers with quality repairs on gear boxes, gear reducers, brake assemblies, hydraulic turntables, vacuum pumps & blowers, air pumps and many other types of fluid pumps & assemblies. After the repair has been completed, each item is system tested to ensure proper operation and that it meets or exceeds OEM specifications and extended operation under load.

GEAR BOXES, REDUCERS, CYCLO DRIVES

- Alpha
- American
- Belt
- Boston
- Camco
- Cleveland
- Cone Drive
- Diequa
- Dodge
- Falk
- Ferguson
- K. E. Fisher
- Kawasaki
- Link-Morse
- Nachi
- Ohio
- Regal Beloit
- Remold
- Scotland
- SEW Eurodrive
- Shimpco
- Stober
- Sumitomo
- Thompson Micron



VACUUM PUMPS

- Alcatel
- Busch
- Dresser
- Dresser Rand
- Edwards
- Gast
- Haug
- Kinney
- Leybold
- Nash
- Roots
- Stokes
- Varian
- Welch



BRAKES

- Force Control
- Midwest
- Posidyne
- Rueland
- Sterns



AIR PUMPS

- Cooper
- Gardner Denver
- Hoists
- Hoist Tractors
- Ingersol
- Most Manufacturers



BLOWERS

- Dresser
- EG&G
- Leybold
- Siemens
- Stokes
- Roots



FLUID PUMPS

- Bell & Gossett
- Gorman/Rupp
- Gould
- Gusher
- Hydra-Cell
- ITT
- Kerr
- Knoll
- Kobe
- Morris
- Obara
- Peerless
- Sandpiper
- Waukesha
- Worthington

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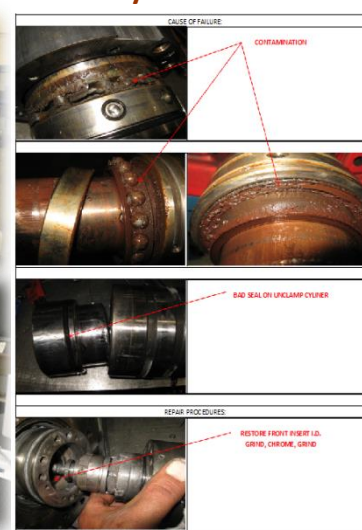
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PRECISION SPINDLE & PARABOLIC ROLL REPAIR

With over 30 years of experience along with our state of the art spindle repair lab allows our technicians the ability to perform all aspects of spindle remanufacturing to guarantee Quality repairs. Our in-house capabilities to perform machining, motor rewinding and feedback repair ensures the highest quality while controlling costs and delivery time. Upon receipt of your spindle, it will go under an extensive evaluation process to determine exact cause of failure. Each quote will have a detailed failure analysis report for your review and upon your approval, your spindle will be completely rebuilt & recalibrated in one of our class 10,000 HEPA climate controlled clean rooms. Every spindle will be dynamically balanced and tested to allow for proper run in.

Top Manufacturers We Support Bryant, Chiron, Colonial, Cincinnati, Gamfior, GMN, Heald, Hessap, Hurco, Makino, Mazak, Mitsubishi, Mori Seiki, OKK, Okuma/Howa, Omlat, Pope, Setco, Studer, Toyoda and many more!

Teardown & Evaluation Are Fully Documented



Spindles are Balanced on CEMB Precision Balancers to a GO.4 Standard



All aspects of the spindle are monitored for critical run out with vibration & temperature measured at maximum RPM's. Videos are taken for each spindle during final test.

Micro-Finishing Parabolic Rolls



We also have the capabilities to restore and build new Parabolic Rolls used in micro-polishing machines made by Thielenhouse, Supfina/Taft, Pierce & Impco. Our unique grinding fixtures enables us to restore/build the rolls' parabolic forms to factory specifications.

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SIMULATION EQUIPMENT

With over 30 years of expertise in the Hydraulic and Mechanical Repair field, K+S provides Repair / Remanufacturing Service of Simulation equipment and systems. K+S supports the Industrial, Commercial, Military and Amusement industries. Our trained technicians understand the importance of meeting the exacting requirements and the operational demands of simulation equipment. K+S uses only OEM manufactured parts in the rebuild process. When original parts or components are no longer available, K+S will either manufacture or have manufactured, the required components to the exact specifications of the OEM drawings.



Hydraulic Power Units



Hydraulic Motion Legs



Closed Loop Testing

Industry Leading Warranty

10 Year Warranty:

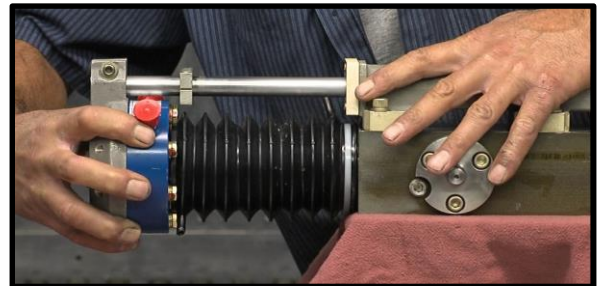
Leg Jacks; Actuators; Control Loaders

5 Year Warranty:

All Servo Valves; Pumps; Power Units

Professional Services Include

- Knuckle repair
- Complete motion base rebuild / remanufacture
- Individual actuator repair/rebuild
- Individual leg repair/rebuild
- Power unit design and rebuild
- Servo valve repair/service
- Abort valve repair/service
- Control loading actuator rebuild
- Hydraulic pump and motor repair/rebuild
- Detailed failure analysis report for each unit
- Final test information/reporting
- Power supply and circuit card repair



Hydraulic Position Actuator

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Torque Tool & Controller Repair

K+S has the ability to repair and test DC torque tools (nut runners) and their associated controllers. Each tool is completely rebuilt and tested with the matching controller. Calibration and repair reports are supplied with each unit upon successful closed-loop testing. The controllers are each dynamically tested with the nut runner tool and measured / calibrated on a torque angle stand. All documentation is traceable to NIST standards.

Atlas Copco

EBL, ETD, DS, ETO DS, ETP SL, ETV, ST, EP, ETDS, ETO S, ETP ST, ETX, ETC DS, ETD ST, ETP DL, ETV DL, IRTT, ETC S, ETF DL, ETP DS, ETV, DS, LMD, ETD DL, ETF SL, ETP S, ETV S, LMK, LMP, LMV, LTC, LTD, LTO, LTP, LTPV, LTV, LUD, LUF, LUM, QRTT, QMX

Controllers

All Power Focus controllers

Tensor S / DS / ST / SL / DL
PF2101, PF3000, PF3100, PF4000

All Power Macs

TC52P, TC54P, TC52S, TC54S, PBU

Testing Equipment

ACTA 3000 & 4000, IRTT, TT10

GSE (CP Tech-Motive)

277, 104, 111, 116, 37, 46, 50, 52, 54, 55, 56, 57, 66, SD25, ECA, ECD, ECL, ECLA, ECP, EM, EML, ER, ERA, ERD, ERP, CVIP, MC, MCL

Controllers

CS4746, CS4700, CS7000, CVI II, CVIP - Plug & Tighten, CVIC, CS2700, CS4000, CS400, CS40, CS50, CS2000

Testing Equipment

Data-Stat 290

FEC

Tool Series

EFT, NFT, DFT, HFT, GT, SA

Controllers

HFC, AFC1500, AFC1200, AFC1150, AFC1100, AFC820



Cooper Cleco

17EA, 47EA, 67EA, 17EP, 47EP, 17ES, 47ES, 67ES, B17ES, B17EA, 47EC, 47ET 17B, 47B, TCM, 2, 14, 8, 88, 35, 5, 24, 34, 45, 55, 75, 64, PH, PTH, STH, 11, 120, 135, 136DL, 14

Controllers

TMEB, TMEM, TME, TMEC, TMEI

Test Equipment

P2 & P-15 Torque Analyzers
TVP-100 Series Torque Verifier
TA4 Torque Analyzer
DA Dial Indicating Torque Wrenches

Ingersoll-Rand

QE, QM, DEA, DEF, 1, Q2, 20, 41, 50, 0, 000, 5, 7, QA4, QA6, QA8, 9, ETW, VersaTec,

Controllers

IC1G, IC2G, IC1D, IC1M, PD, PFSI, TMAD

Test Equipment

QC Qualifier
YETC-200
ETA2 Torque Analyzer
ETA5 Torque Analyzer
ETT Torque Tester



Rotor Tool

AR, BS, EM, EMR, ES, ER, M100, M101, M52, M54, MT, N100, N101, N52, N54, NSW, S100, S22, SE, SW, TA

Controllers

Tork-Trak
R-Tec



Stanley Tool

A30, A32, A33, A40, A50, F50, D30, F3, PE, A30M, A3MFCT, A32MFOCT, A40M, E20, E24, E30, E40, EF, M30, M40, W30, W40, QPM, **Pistol** - E02PB-E34PB

Lever - E12LB - E55LB, EA23LB - EA34LB
E12LA - E55LA, EA23LA - EA34LA

Crowfoot - E12LC - E45LC, EA23LC - EA34LC

Tubenut - E12LT - E44LT, EA23LT - EA34LT

Hold & Drive - E34LH - E55LH

Straight Motors - E12LP, E23MB-E55MB, E23MBF - E55MB5F

Offset Motors E23MDF - 55MD3F

Angle Motors E33MA18 - 55MA32

E33MA18F - E55MA32F

Controllers

Alpha, Gamma, Delta, Sigma, Kappa, Omega, T8000, Beta Tech

Gardner-Denver

H16, H30, 41, 60, 1B, 2B, 3B, EDA, EDR 16, 42, 46, 35, 22, 20, 55, 90, 130, 50

Controllers

M-PRO 91, 92, 93, BLS



Estic/Cinetic/Taylo

Tool Series

TU, EH, ENRZ, ENRH

Controllers

AU
DU
Trutight
EH (Handy 1000, 2000)





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Weld Gun & Component Repair

INNOVATION AT WORK

Now you have an alternative to your current weld gun component refurbish/repair program!

START SAVING MONEY TODAY!

Significantly reduce your spending with our extensive and innovative rebuild and repair program for resistance weld guns, arms, tip holders, cylinders, and more!

Components Normally Discarded CAN BE REPAIRED!

As an industry leader in repair service, K+S will support all manufacturers and brands of resistance weld guns. Take advantage of this cost saving opportunity today!

Weld Gun BEFORE Rebuild



Weld Gun AFTER Rebuild

Design Style

Pinch

X-Type

J-Type

Scissors

C-Type

Equalizing

Nut Welding

Dual Gun

Strip Clearance

Cylinder Gun

Trans Gun



Major Manufacturers Supported

Inoue, CMW, Obara, Milco, Savair, Centerline & Denyo Kogyo...



We Are Authorized!!!

We are the Authorized Repair Center for Inoue & Denyo Kogyo

Installation Type

Robotized

Fixture

Pedestal

Portable



Before & After Weld Tip Rebuild



30 Day Warranty



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WELDER CONTROL REPAIR

K+S has full service capabilities to repair MIG, TIG and resistance welding controls. At K+S our Weld systems lab leads the industry in repair and testing capabilities. K+S has the experience to analyze and repair a wide variety of weld system components and performs system testing under load to verify functionality and durability. The systems utilized in the repair process are designed to simulate operation conditions in a plant environment.

K+S Services is an authorized service center for Lincoln, Miller, Hitachi and Nippon.



LINCOLN

Authorized:

Southgate, MI

Lawton, OK

All Lincoln Power Sources
NA-3S, NA4, LN-9, Power Wave
450

NIPPON

NGRALF 6x20

SENSARC

All Models

THERMAL ARC

Ultima 150 GTS & 300 GTS
PAK SXR
PS30A
WC100B
185TSW

KOBELCO

All Models

MILLER

Authorized:

Southgate, MI

All Wire Feeders
All Miller Power Sources
Arc Pac 350

OTC (DAIHEN)

350 & 500 Series
DT-300

NADEX

All Models

PANASONIC

AAII 350/500
AE-350/500
KF-350/500BC300
YC-200BC1, YC-300BC1
YD-350AE1, YD-350HM2
YD-500HM2

NADESCO

All Models

WTC / MEDAR

GEN 5 Inverters / Timers
Cosmos
Decade 5 Series
Technitron
V-50, V-60 & T95 Timers
U60T-90A, U60T-91A
U60T-92A, U60T-95A
U60T-96A, TB90-P02A
1000 & 3000 Series

ESAB

PCM-625I, PCM-750
PCM-875, PCM-1000
SVI-450I

FRONIUS

Power Units
Controllers
Wire Feeders
Pendants
Foot Pedals

MOTOMAN

Arc Master 501 Series:

All Models

Motoweld Series:

All Models

HOBART

70L Series
All Hobart Power
Sources
Megacon 110

DENGENSHA

Decomstar 20, 30 & 70
RWC-9000-Ty-18
RWI-9100-Ty-13/14
FuW-IRWC-GT2

HYPER THERM

POWERMAX 800, 900
& 1000

HITACHI

All Models

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BALLSCREW REPAIR & MANUFACTURING

K+S has the repair capabilities to repair & remanufacture all types of ballscrews. Whether it is an Acme, Rolled Thread or a Precision Ground assembly, K+S has the ability to provide precision repairs. We also have the ability to reverse engineer each ballscrew to provide new units while saving you time and money.

Machine Tool Manufacturers

ACROLOC
AMADA
AMERICAN LATHE
BRIDGEPORT
BROWN & SHARPE
BRYANT
BULLARD
CINCINNATI MILACRON
CROSS
DAEWOO
DOOSAN
DEVLIEG
EX-CELL-O
EXCELLON
F. JOSEPH LAMB
GIDDINGS & LEWIS
GLEASON
HARDINGE
HEALD
HUFFMAN
INGERSOLL
JONES & LAMSON
KEARNEY & TRECKER
KINGSBURY
LANDIS
LEBLOND MAKINO
LEYBOLD-HERAEUS
LODGE & SHIPLEY
LUCAS
MAG
MAKINO
LEYBOLD - HERAEUS
LODGE & SHIPLEY
LUCAS
MAG

MAKINO
MAZAK
MITSUBISHI
MONARCH
MOOG
MORI-SEIKI
NSK
OERLIKON
OKUMA
OLOFSSON
ONSRUD
PRATT & WHITNEY
SCIAY
STRIPPIT
SUNDSTRAND
THK
TOSHIBA
TOYODA
TRUMPF AMERICAN
WARNER & SWASEY
Many More.....



Ballscrew Manufacturers

BARNES
BEAVER PRECISION
COSMO
GAMFIOR
HO-FONG
IBL
MODERN AMERICA
NACHI
NSK
ROCKFORD
SAGINAW
SARGENT
SHUTON
SKF
THOMPSON SAGINAW
TSUBAKI
20TH CENTURY
WARNER ELECTRIC



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REMANUFACTURED EQUIPMENT

K+S Services has over 40,000 remanufactured spare parts ready for immediate sale or exchange. Our philosophy for all Remanufactured spare parts is that each unit is fully system tested in a "closed loop" environment to ensure proper operation. We also provide a full One Year Warranty on all remanufactured spare part purchases. In addition, if you have any excess equipment that you are wondering what to do with it besides paying a company to haul it away, K+S is interested in buying those items, send us your list today and take a Green Approach!



ABB
Allen Bradley
Bailey
Bosch
Cutler Hammer
Fanuc
General Electric



All Units Are System Tested

Omron
Parker
Reliance
Robotron
Sanyo Denki
Sick
Siemens
Square D
STI
Texas Instruments
Westinghouse
Yaskawa
Many More!



Getty's
Honeywell
Indramat
Kawasaki
Kollmorgen
Kuka
Lambda
Medar
Mitsubishi
Modicon
Nachi
Nematron



**WE PURCHASE INVENTORY,
SEND US YOUR LIST TODAY!**

We Accept:



Over \$5M In Inventory



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APODACA, MX

TAMWORTH, UK

NAPAJEDLA, CZ

SINT - TRUIDEN, BE

OŚWIĘCIM, PL

SIEMENS

K+S Services, Inc. Canada and Mexico facilities are factory authorized to provide both warranty and non-warranty repair services on your Siemens servo motors. Our technicians have been factory trained in all aspects of troubleshooting and repair for the 1FT5, 1FT6, 1FK6/7, and 1PH6/7 series servo motors.



We use only factory components in our repair process ensuring you the same operational performance as a new motor.

All repaired motors are tested in a "closed loop" system utilizing the same test simulators and specifications as the Siemens Factory to maintain quality and consistency.



Our repair warranty is for One Year In-service for both Siemens Warranty and normal repairs. Give us a call to learn more or visit our website at www.k-and-s.global



ALL UNITS ARE SYSTEM TESTED

***12 MONTH IN-SERVICE WARRANTY**

Unless otherwise stated at time of quotation

***NO CHARGE EVALUATION**

An evaluation fee may apply for priority repairs

RF: FALL18



LINE CARDS

2018

K+S GLOBAL LOCATIONS

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FAX: +1 765-454-0051

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FAX: +1 905-465-0412

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