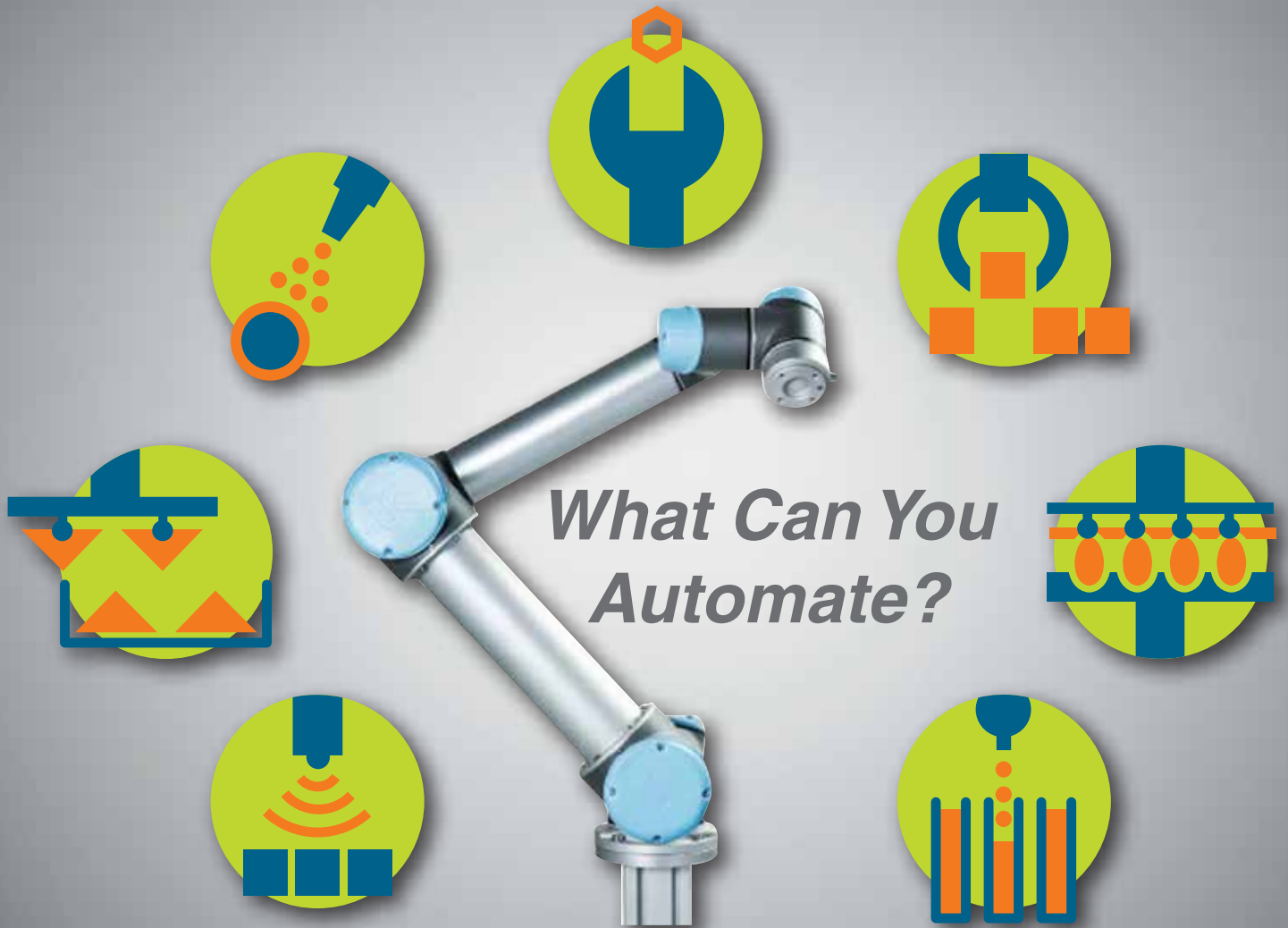


# **NUMATIC ENGINEERING**

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*Manufacturing Smarter - More Consistent - More Reliable*



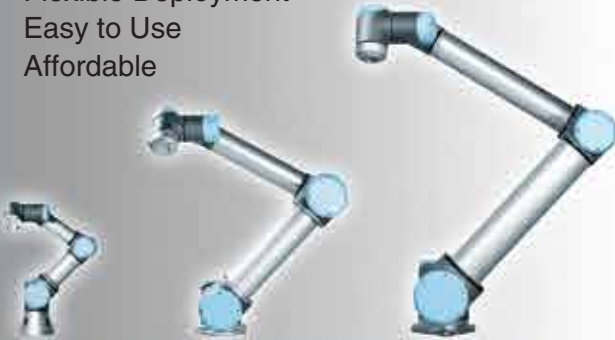
# ROBOTIC PRODUCTS

## Collaborative Robots



### UNIVERSAL ROBOTS

Safe & Collaborative  
Flexible Deployment  
Easy to Use  
Affordable



## Robot Bases



### Heavy Steel Base

Universal Robot Base  
Portable & Fixed Mount Options  
UR3, UR5, and UR10 Compatible

## Linear Motion Systems



### Rollon

Linear Actuators  
Linear Guide Rail  
Telescoping Guide Rail  
7<sup>th</sup> Axis Robot System

## SCARA Robots



### Yamaha

120MM-1200MM reach  
1kg – 50kg Pay Load  
360 Degree SCARA  
Wall/Celing Mount  
Clean Room Series

## Automation Conveyors



### QC Industries

Low profile conveyors w/quick change belt feature  
Automation Series (aluminum)  
Industrial Series (steel)  
Wash Down Series (stainless steel)

## Cartesian Robots



### Yamaha

Single or Multi Axis  
Ball Screw and Belt Drive  
Stepper, AC Servo,  
Linear Motor  
1kg – 90kg payload

## Flexible Feeding Systems



### Asyrl

Flexible 3-Axis Vibration Feeders  
Compatible with all part geometries  
Systematic part orientation  
High Precision 150MM Delta Robot

## Adaptive Robot Gripper



### Robotiq

Gripper Conforms to Part  
Force Sensing  
Vision – Vision Guidance  
Plug N Play Connectivity  
Designed Specifically for  
Universal Robot

## Grippers



### SMC & Bimba

Pneumatic - Electric  
Parallel  
Angular

## End of Arm Tooling



### Zimmer

Grippers  
Rotary  
Indexers  
Tool Changers

## Magnetic Grippers



### Magswitch

Magnetic Grippers;  
Simple and Reliable  
Lifts; Irregular & Perforated  
Materials

# ELECTRONIC AUTOMATION

## Variable Frequency Drives



### Yaskawa & LS

Low and Medium Voltage Drives  
Vector Control  
IP66/NEMA 4X  
HVAC  
Fan and Pump

## Motion Control



### Yaskawa Servo Motion Control

Rotary Servo  
Direct Drive  
Linear Motors

## PLC's



### LS & Phoenix Contact

Micro-Series  
Modular-Series  
Ethernet  
Motion  
Analog

## HMI-Displays



### LS & Phoenix Contact

Graphic Color Touch Screens  
Industrial PC's  
Text Displays  
Multi Language

## Sensors



### Balluff

Industrial RFID Systems,  
Network & Distributed I/O,  
Magnetic, Inductive,  
Capacitive, Ultrasonic,  
Laser & Optical Sensors,  
Linear Transducers

## Vision



### Balluff

Presence Verification  
Conformance / Presence  
Pattern Matching  
Position Detection  
Dimensional Gauging

## Safety Controls



### Phoenix Contact & Leuze

Safety PLC's  
Safety Relays  
Safety Switches  
Light Curtains  
Area Scanners

## Electric Actuators



### Bimba, SMC & Yamaha

Single & Multi-Axis  
Belt & Screw Drive  
Slider & Rod Type  
Linear, Rotary & Gripping Functions  
Servo and Stepper Models

## Industrial Connections



### Phoenix Contact

Terminal Blocks  
Fuse Blocks  
Circuit Breakers  
Industrial Connection Systems

## Power Supplies & Surge Suppression



### Phoenix Contact

Power Supplies  
Power Supply Protection  
Surge Protection  
Data Protection

## Automation



### Phoenix Contact

Industrial Ethernet  
I/O Systems  
Industrial PC's  
Software

## Signal Conditioners



### Phoenix Contact

Industrial Wireless  
Fieldbus I/O  
Signal Conditioners  
Safety Relays & Barriers

# PNEUMATIC AUTOMATION

## Directional Valves



### SMC

Directional Control Valves

- 2 / 3 & 4 Way Valves
- Manifold & Line Mounted
- Serial Interface; Supporting open and closed fieldbus protocols

## Proportional Control



### Proportion-Air SMC

Proportional Control Valves

- Position & Pressure Control
- Tensioning
- Torque Control

## Cylinders



### Bimba

Stainless Round Body (the original), Compact, Custom Specials, NFPA Air and Hydraulic

### SMC

Compact, ISO, Metric, Guided, Low Friction, Locking

## Rodless Cylinders



### Bimba

Magnetically Coupled & Band Style

### SMC

Magnetically Coupled & Band Style

## Rotary Actuators



### Bimba

Rack & Pinion Actuators

### SMC

Vane Type Rack & Pinion Actuators

## Slides & Grippers



### Bimba

Slides, Multi-Position, Pick & Place

### SMC

Slides, Grippers, Pick & Place

## Air Line Preparation



### SMC

FRL's & Accessories  
Lock Out & Soft Start Valves  
Coalescing Filters

## Aluminum Extrusions



### 80 / 20 Inc.

...“The Industrial Erector Set”  
T Slot Extrusions  
Work Benches - Carts  
Displays - Guarding  
What do you need to build?

## Shock & Vibration



### ITT - Endine

Industrial Shock Absorbers  
Air Bags  
Gas Springs & Dampeners  
Wire-Rope Isolators

## Vacuum Components



### SMC

Generators, Cups,  
Switches & Regulators

### Vaccon

Air Powered Vacuum  
Generators

## Air Dryers / Ionizers / Chillers



### SMC

Refrigerated  
Regenerative  
Desiccant  
Membrane  
Chillers

## Life Sciences



### SMC

Liquid Pumps  
Regulators  
Chillers  
Flow Sensor

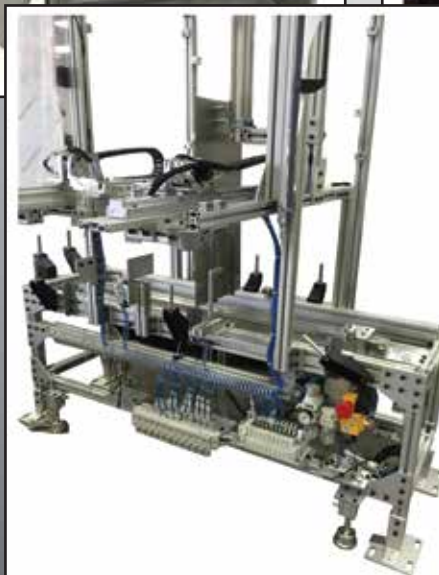
# VALUE ADDED SERVICES

## Assembly Manufacturing

Outsourcing sub-assemblies to NE will streamline your operations allowing you to re-allocate resources, reduce overhead costs, inventory, and better define your costs. Outsourcing is an important decision for a company to make. Our pledge to you is that your business will receive the attention to detail it deserves.

### Examples of Services:

- Robot – Basic Integration
  - End of Arm Tooling
  - Custom Gripper Fingers
  - Mounting to base or table
  - Conveyors
- Control Panel Design, Build including UL508
- Pneumatic Valve and Component Assembly



## MANUFACTURERS REPRESENTED



**UNIVERSAL ROBOTS**

**80/20<sup>®</sup> Inc.**  
*The Industrial Erector Set<sup>®</sup>*



**YASKAWA**



**BALLUFF**  
*sensors worldwide*

**PROPORTION-AIR**  
Electro-Pneumatic Pressure Regulators & Flow Controllers



**LS** Industrial Systems  
Formerly LG Industrial Systems

ASSOCIATION FOR  
HIGH TECHNOLOGY  
DISTRIBUTION **AHTD**



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CREATING JOBS THROUGH AUTOMATION