

# Automated Gas Welding Systems

For Gas Metal Arc Welding



# MESH Automation has the experience and skill to automate your welding process



## Common features of MESH designed systems

### Welding Expertise

- AWS-certified engineers on staff and a member of the Robotic Industries Association (RIA)

### Part Fixturing

- Fixture design and construction that is rugged, ergonomically friendly, and repeatable
- Quick-change tooling
- Anti-splatter coatings in critical areas
- Cell design with Poka-yoke error proofing options

### Welding Power Supply

- Flexible, feature-laden power supplies and torches by Fronius for unrivaled gap bridging, spatter-free applications, and the highest welding speeds

### Robot and Control System

- Certified robotic integrator using only the best full-line robot suppliers and industry welding robot leaders – ABB and Motoman/Yaskawa
- Hardened industrial controls from AB or Siemens
- Software systems for simple stand-alone or complex MES integration; many options for data gathering and recipe control

### Welding Quality and Cell Maintenance

- Bullseye, torch cleaners, wire straighteners, Smartac and other process improvement features
- Seam tracking systems
- Vision inspection, character reading, and other
- Easy to clean cell design

### Safety

- Safety systems comply with the new ISO12100 and 13849-1 regulations

### Service, Support and Training

- Dedicated service department that is involved with your project from the start and available for emergency service or to provide regular pre-arranged service or preventative maintenance
- Dedicated training staff that provides comprehensive training and operations manuals - the key to any automation project's success





## Semi-Automatic Welding Systems by MESH

MESH's semi-automatic systems – or lean systems – address key areas for the success of any MIG welding process:

- Pre-engineered safety systems
- Pre-engineered torch cleaning and tool center point locating module
- Pre-engineered part positioner solutions
- Several skid mounted size formats for easy installation and commissioning
- Optional fume hood and exhaust system (by Kemper) integration package

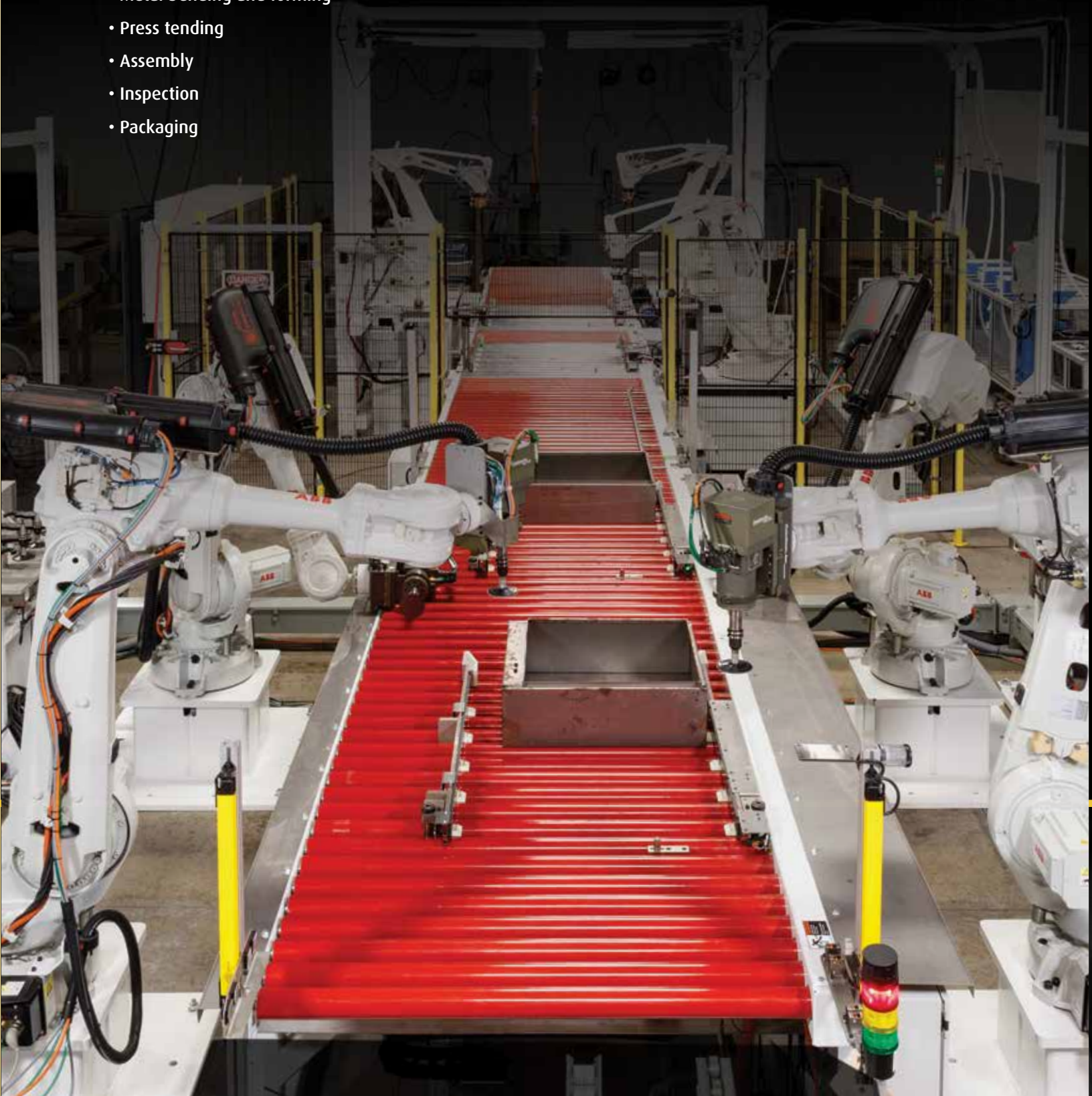


We pull it all together with our proven system designs, pre-engineered solutions and software expertise.

# Our Specialty is Turnkey Lines

With MESH's proven experience in assembly, fixturing, metal processing, and material handling it's a natural fit to use MESH for your complete production line. Our turnkey lines incorporate automated welding processes with other automation processes, including:

- Grinding, deflashing, polishing and deburring
- Metal bending and forming
- Press tending
- Assembly
- Inspection
- Packaging





## MESH Partners With The Best

Good system design incorporates products from the best robot, welding equipment and controls suppliers in the industry. MESH partners with, and is a certified integrator of, the following industry leaders:

### Fronius - Perfect Welding

- Power supplies, wire feeders and torch systems
- The most advanced welding technologies, such as cold metal transfer

### ABB Robotics

- All size robots with the IRC5 controller
- RobotWare Arc, Production Manager, Bullseye, Safemove, Collision Detection

### Motoman/Yaskawa Robotics

### Kemper America

- Fume hoods
- Exhaust systems



**ABB**

**Fronius**

**YASKAWA**

**KEMPER®**



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