

# ROBOTIC SOLUTIONS

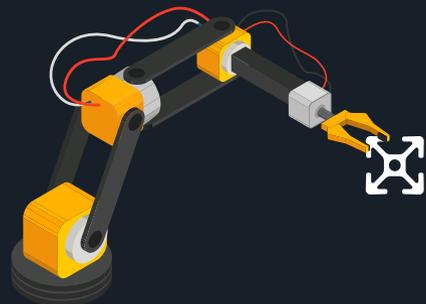
*Adaptable Framing for  
Evolving Robotic Systems*



BY BONNELL ALUMINUM



# INDUSTRIAL ROBOTIC AUTOMATION



## A Strong Foundation for Modern Robotics

Robotics systems require structures that are strong, adaptable, and easy to modify as needs change. **TSLOTS by Bonnell Aluminum** provides a modular, reliable foundation for building and evolving robot cells, vision systems, and cobot workstations. Its versatility helps engineers design, test, and scale their automation solutions with speed and confidence.

# BALANCING INNOVATION WITH PRACTICAL CONSIDERATIONS



Robots don't need downtime and can work around the clock. This increase in productivity saves time, money, and makes you more competitive allowing you to distribute shares of benefits to the labor force.

*Robots and cobots bring powerful benefits to modern manufacturing, and evaluating their trade-offs ensures the right fit for each application.*

# WHY ROBOTICS TEAMS CHOOSE TSLOTS

Modern robotics workflows depend on **modular systems** that grow and change with them.

## MODULAR AND RECONFIGURABLE:

- Change & expand quickly for fast-moving development cycles
- Adjust layouts and scale systems without heavy downtime
- Precision tolerances and durability suited for positioning systems
- No welding, grinding, or painting
- Light weight and corrosion-resistant
- Reuse extrusion and components for other applications



In fast-paced automation environments, teams need structures that can be **adjusted, or reconfigured** at a moment's notice. **TSLOTS** ensures teams can adapt!

# CUSTOM APPLICATIONS

## ROBOT WORKCELLS

- Safety Enclosures, Light Curtains, Guarding
- End-of-Line Systems
- Mounted Control Panels

## MATERIAL HANDLING

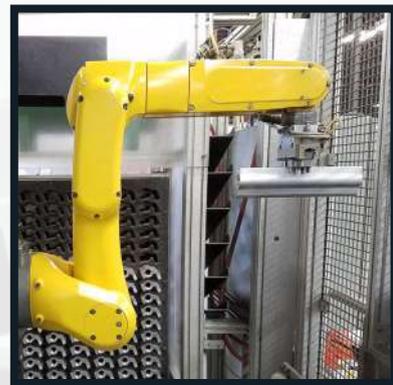
- Automated Conveyor Supports
- Cart Frames
- AGV/AMR Attachments or Docking Systems

## VISION FRAMES

- Adjustable Camera Mounts
- Lighting Structures
- Precision Positioning Stands

## MACHINE FRAMES

- Rigid Structural Bases
- Leveling and Vibration-Reducing Components





Robotics demands reliable safety measures, and TSLOTS simplifies building compliant guarding and enclosures. With modular profiles that integrate with panels, doors, and sensors, teams can create secure robot cells that adapt quickly as operations change—without extended downtime.

## SAFETY & COMPLIANCE

- Unmaintained guarding creates more hazards
- Unstable Guarding
- Incorrectly sized around machine
- Inadequate room for machine/operator to move

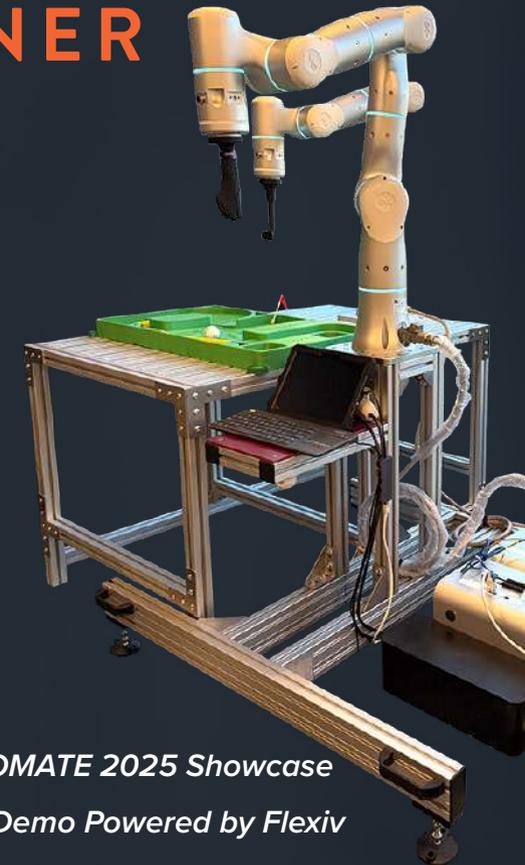
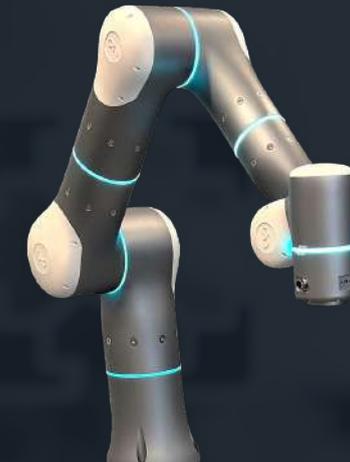
## OUR REFERRED ROBOTICS PARTNER



Working with FLEXIV allows a truly turnkey robotic systems. Whether it's a protective enclosure or a specialized pedestal, our partnership ensures your robotic solution meets your exact specifications.

### RIZON 7-AXIS ARM

Flexiv's 7-axis robotic arm makes complex, human-like movements effortless, especially in tight or congested spaces. This unlocks tasks across multiple industries!



*AUTOMATE 2025 Showcase  
Golf Demo Powered by Flexiv*

# COBOTS ARE CHANGING THE GAME!

Collaborative robots share all the great benefits as industrial robotic automation, except the extra costs, extensive programming, ability to share space with humans.

## WHY COBOTS?

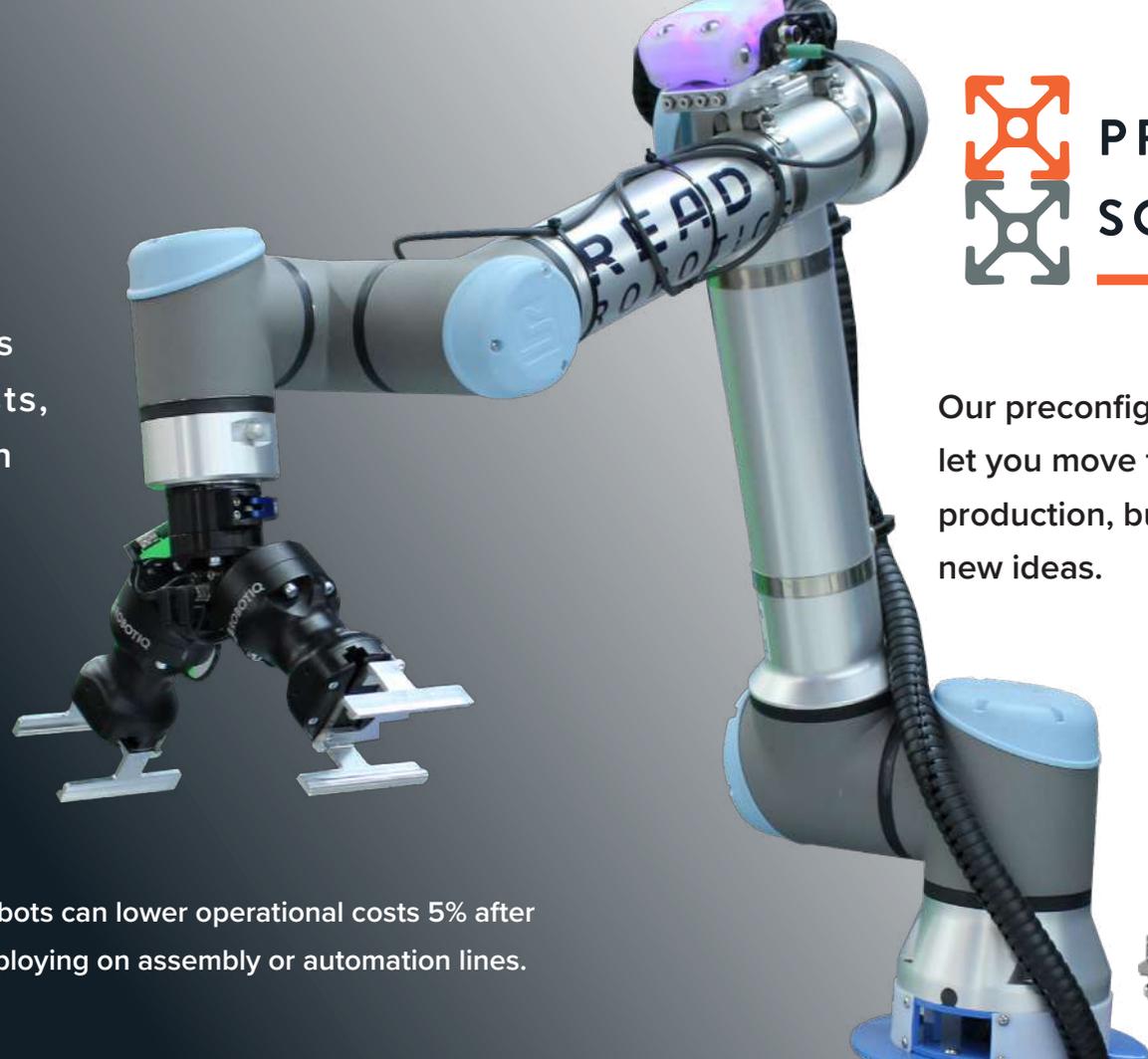
- Easy programming
- Fast setup time
- Flexible Automation
- Safety

**20%**

*Reduction in Cycle Times*



Cobots can lower operational costs 5% after deploying on assembly or automation lines.



## PRECONFIGURED SOLUTIONS

Our preconfigured solutions cut the complexity and let you move faster—whether you're streamlining production, building custom systems, or prototyping new ideas.



Choose and download one of our preconfigured stands or tables to mount your robot to or customize your own to fit your specific project need.



# NEED MORE INFORMATION?

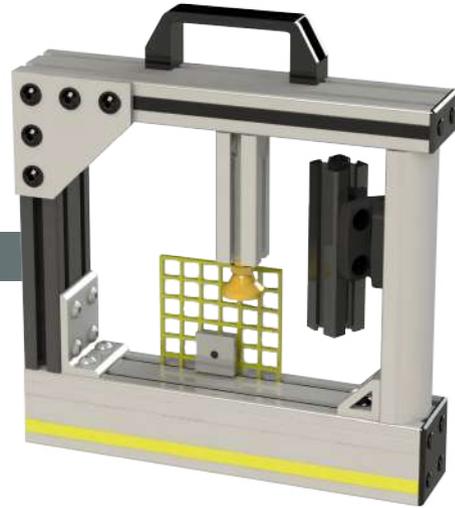
Our distributors want you to **succeed**.

To facilitate your success, we have developed a demo kit to establish how efficiently TSLOTS work, and how quickly it can fill a variety of your construction needs.

TO REQUEST A KIT, [CLICK HERE](#).

YOU CAN ALSO REQUEST A COMPLETE TSLOTS CATALOG [HERE](#).

TSLOTS DEMO KIT



# OUR PARTNERS MAKE US STRONGER

TSLOTS by Bonnell Aluminum is the only extrusion manufacturer that sells directly into the market through distribution. Our nationwide chain of suppliers can provide you with extrusions and components, and can assist you further with automation solution ideas. Our manufacturing facilities located in Clearfield UT, and Niles MI, allow us to be closer to our customers. With over 100 inventoried extrusion profiles, we've cut down on shipping costs, while reducing lead times, in order to keep our distributors well stocked.



MULTIPLE  
MANUFACTURING  
PLANTS

TO FIND A TSLOTS DISTRIBUTOR, [CLICK HERE](#).

# DREAM IT DESIGN IT BUILD IT



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