

Robotic Welding

Heavy Fabrication



Fit All Needs



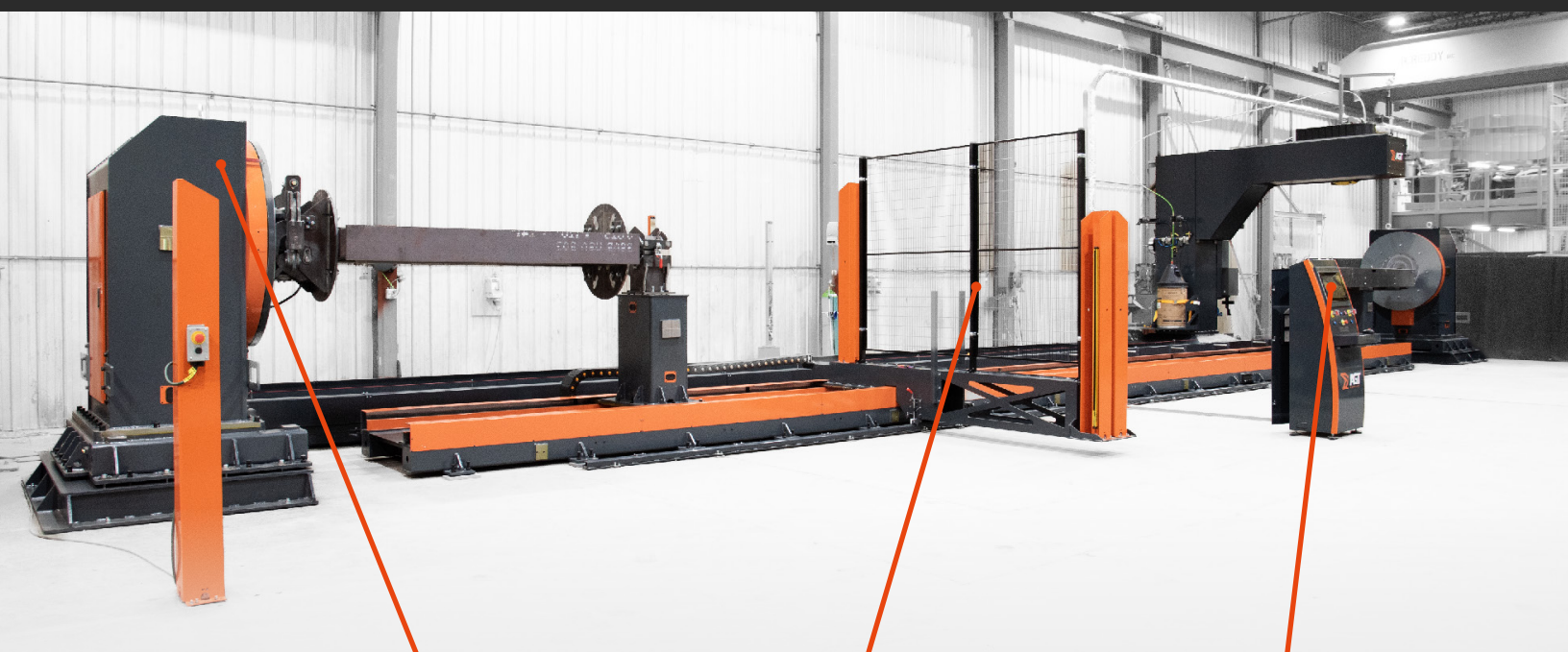
Load Program



Load Part



Run Sequence



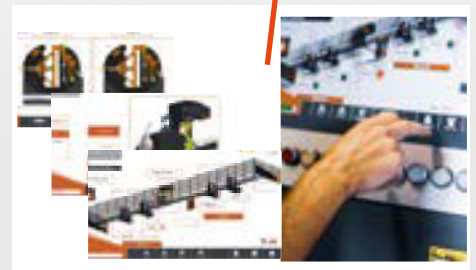
Positioners

A wide variety of positioners to choose from.



Safe Operations

Laser curtains ensure a safe working environment for the operators.



Be In Control

An easy-to-use interface is provided to build production lists and monitor the equipment performance.

Configure From Pre-Engineered Blocs

Tailor the ideal robotic welding solution for small batch production.

Weld Joint Detection

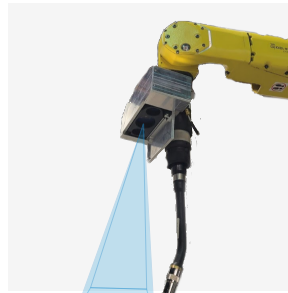
Find. Adapt. Weld.



Wire Touch



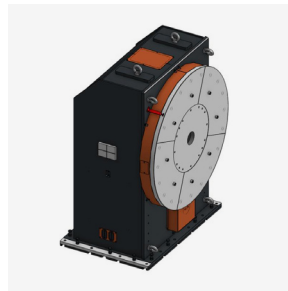
Laser Sense



SNAP
CAM
3D Camera

Positioners

A wide variety of positioners to choose from

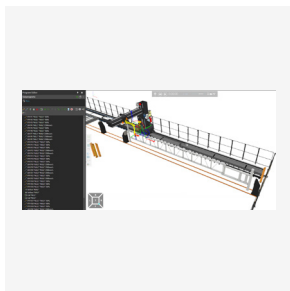


Programming

From basic point-to-point programming through full auto-programming, AGT has the right solution for your product volume and mix.



Teach Pendant

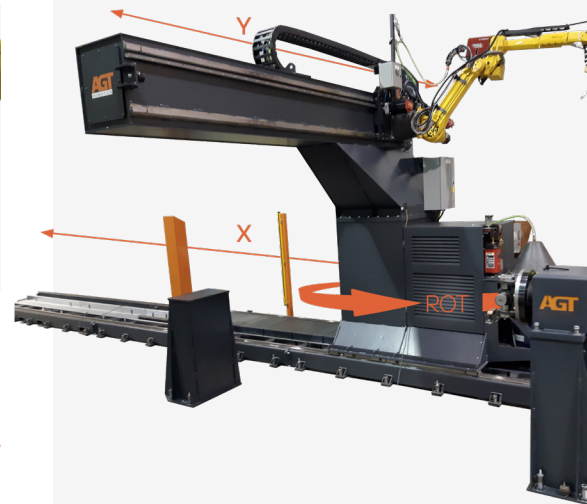


Offline



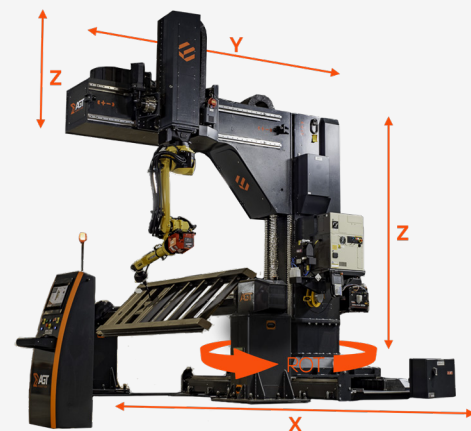
Auto-Programming

Configurations



BLOK-400

X + Y
(optional rotation)



BLOK-500

X + Y + Z Plunge
(optional rotation)

What Are BLOK Systems?

Autonomous Robotic Welding Systems For Heavy Fabrication and Large Assemblies.



Revolutionize Welding: Embrace BLOK Systems for Large Part Automation!

The world of metal fabrication is evolving, and we have a game-changing solution for you – BLOK Systems. Boost productivity, overcome labor shortages, and maximize profits with our cutting-edge automation technology.

In today's fiercely competitive environment, many fabricators are seeking ways to integrate robots and automation. BLOK Systems are the answer, offering fully modular solutions tailored to your welding applications. Adapt and scale as your business grows, ensuring a seamless fit with your evolving needs.

Customization and adaptability are at the core of BLOK Systems. We have extensive experience in crafting bespoke systems for diverse industries, leading to the creation of our exceptional catalog.

Explore our range of configurations, perfectly designed for welding large parts like bridge cross-frames, trailer frames, metal skids, and more. Whether you require robots on rails or a versatile Column & Boom setup with 10 axes, our BLOK Systems seamlessly integrate into your welding processes.

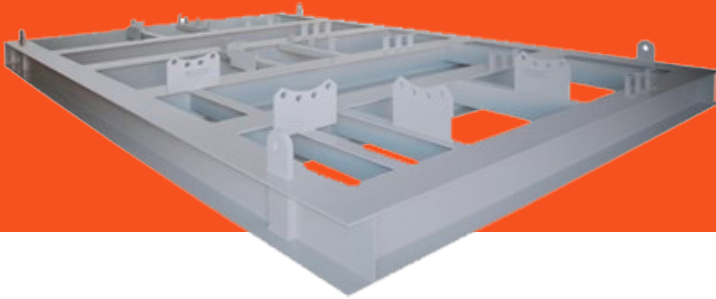
Step into the future of metal fabrication and elevate your welding capabilities with BLOK Systems. Join successful fabricators who have harnessed the transformative power of robotic automation.

For further details and to explore the perfect BLOK solution for your business, our team of experts is at your service. Unlock the true potential of your metal fabrication shop today!

Application

Some Application Examples

BLOK systems are very flexible robotic solutions that can be programmed to match your production requirements.

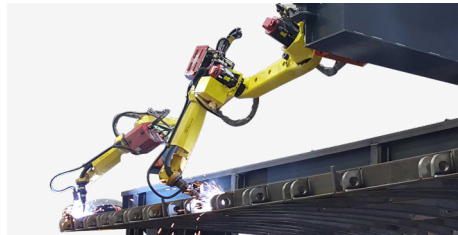


Key Benefits



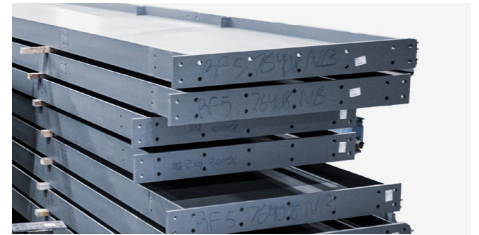
Tailored for Large Parts

Achieve precision and quality in welding large parts effortlessly.



Skilled Welding Expertise

Leverage our years of experience in crafting custom welding systems for various industries.

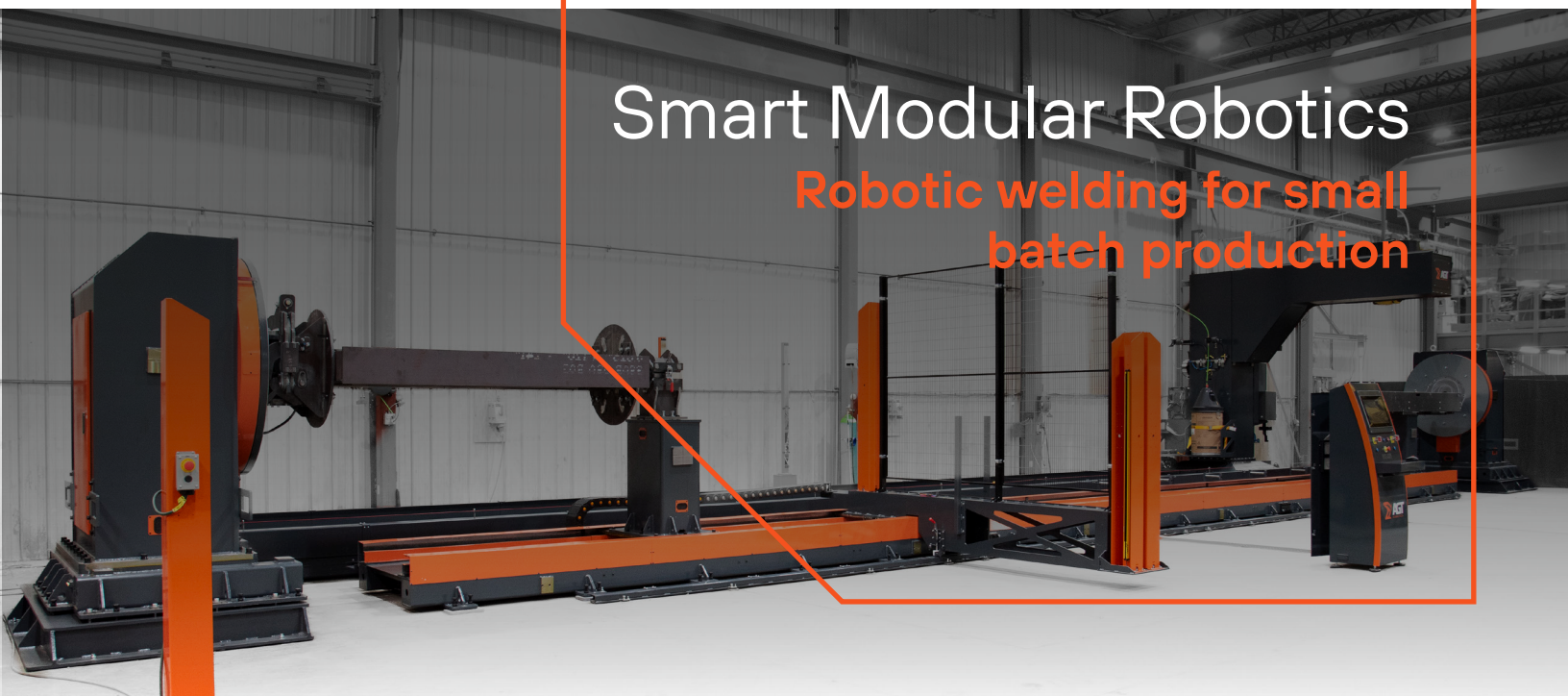


Cost-Effective Solution

Benefit from an affordable and scalable automation option, ensuring a higher return on investment.

Smart Modular Robotics

Robotic welding for small batch production





CORTEX

Creating A Robot Program Has Never Been That Easy.

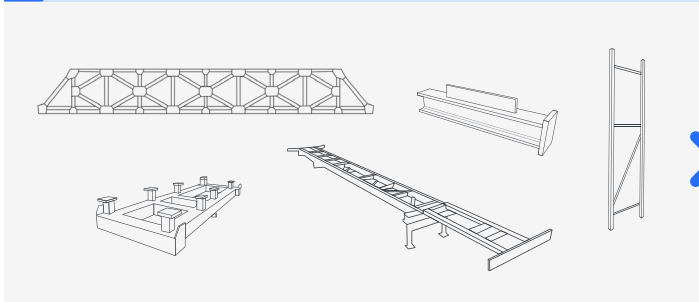
No Programming = No Human Intervention

**The Only True No-Programming
Solution For Robotic Welding!**

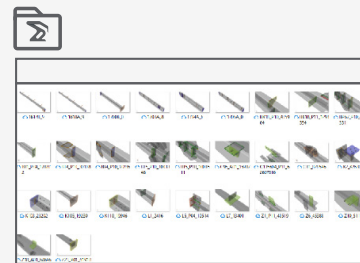
That's why BLOK systems are quickly becoming the go-to solution for heavy fabrication. In heavy fabrication, many parts are similar but rarely identical, making automation impossible with conventional robotic programming methods.

AGT's Cortex software is specifically designed for large and complex assemblies, automatically generating welding programs for each unique part—eliminating manual programming and maximizing efficiency.

1 Export Model



2 Automatically Generate Programs



Let Cortex automatically create custom-tailored robotic welding programs for every unique beam.

Compatible With Popular CAD Softwares

 **Tekla**
Structures

SDS/2
DESIGN DATA

 **AUTODESK**
ADVANCE STEEL

bocad[®]
Software GmbH

 **AUTODESK**
INVENTOR

 **SOLIDWORKS**

 **CATIA**

 **SOLID EDGE**

Automatically, Cortex :

- Reads welding information from CAD or creates welds according to your specifications.
- Generate welding paths.
- Associate welds with the correct weld schedule.
- Generate the joint laser finding paths.
- Coordinates movements between welding sequences.
- Prepares torch maintenance routines.
- Organizes welding to minimize heat-induced deformation.
- Rotates assemblies for full access.
- Converts long longitudinal welds into stitch welds and much more!

No Programmer Needed

Don't be fooled by claims from other manufacturers.

If the user has to tell the robot which welds to perform, click on the joints, specify dimensions, or position the beam in the system... that's programming!

It may seem simpler than writing code, but it still requires a qualified user and adds time and costs to your process!

Only Cortex is a true no-programming solution. With Cortex, a few clicks are enough to start the program creation process for an entire assembly.

The result: hundreds of unique robot programs created automatically.



SNAPCAM

Lightning-Fast Robotic 3D Vision Camera

Unmatched Precision

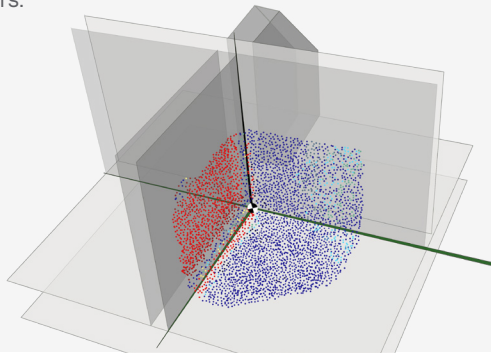
SnapCam revolutionizes seam finding with its advanced 3D point clouds, offering thousands of precise data points. This allows SnapCam to locate welding positions with exceptional accuracy, ensuring welds meet the highest quality standards.

Versatility

SnapCam supports various types of weld joints, such as T-joints and lap joints. This flexibility allows you to handle a wide range of projects and create custom solutions.

Effortless 3D Volume Coverage

SnapCam simplifies your workflow with single-click 3D volume coverage. Fewer steps to locate weld joints mean valuable time savings and reduced errors.



Just Do More

More Productivity

SnapCam enhances welding efficiency, increasing arc-on time and deposit rates. This boosts your productivity and revenue.

More Welds

SnapCam's advanced features, like extended working distances and single-click 3D volume coverage, let you weld more without constant repositioning.

Auto-Programming Enabled

SnapCam simplifies path planning with real-time corrections, optimizing the path to improve the efficiency of your welding processes.

Made For The Real World

SnapCam delivers reliable and robust performance even in the toughest welding environments, protecting your valuable investment.

Redefining Robot Vision For Metal Fabrication

SnapCam is more than a typical 3D camera. Optimized to meet your business needs, it evolves with you. With its modular design, SnapCam is highly adaptable. As your business grows, you can integrate SnapCam without losing performance. It's a durable investment, designed to adapt to your changing needs.

SnapCam doesn't just scan efficiently. With instant and detailed reports, remote troubleshooting becomes easy and quick. You can identify and resolve issues swiftly, ensuring continuous production in your workshop.

Higher Throughput



Your Vision. Our Technology.





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Autonomous Robotic Welding For Heavy Fabrication.

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Authorized Agent



Worldwide Support

