

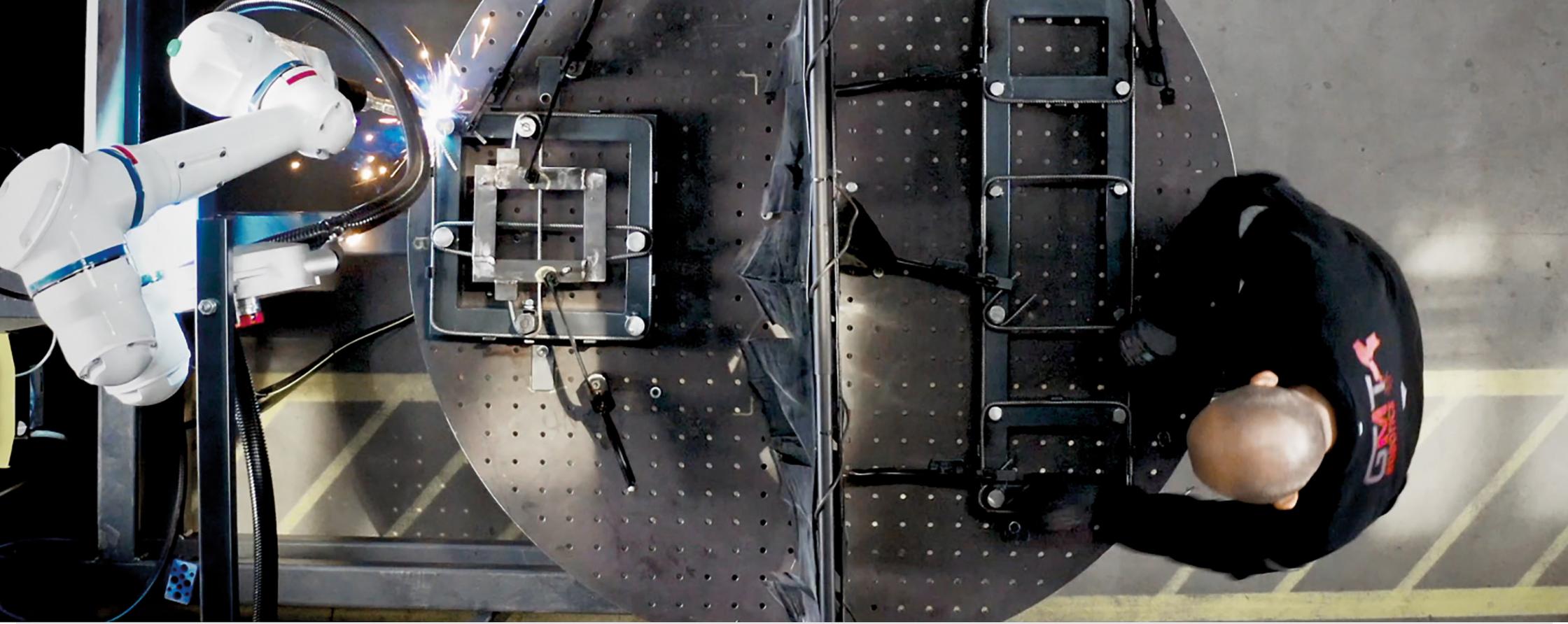
WELDMATE™

The safe collaborative or industrial welding solution for your production

Double or triple your output in your daily operation

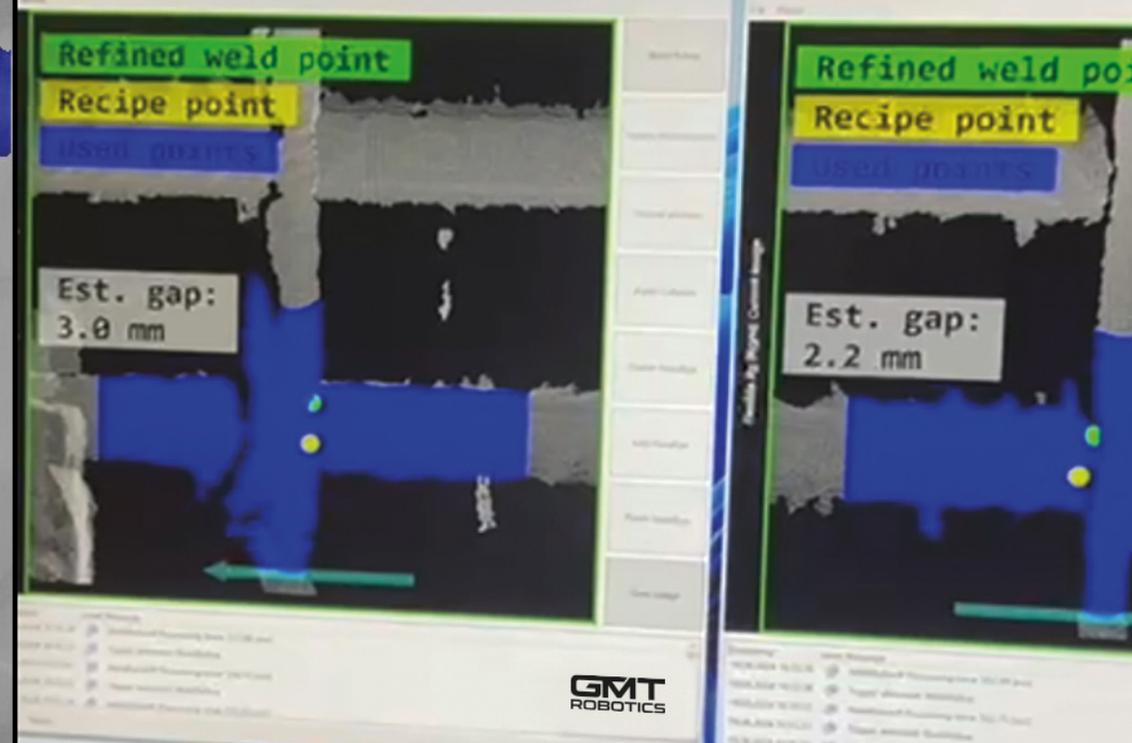
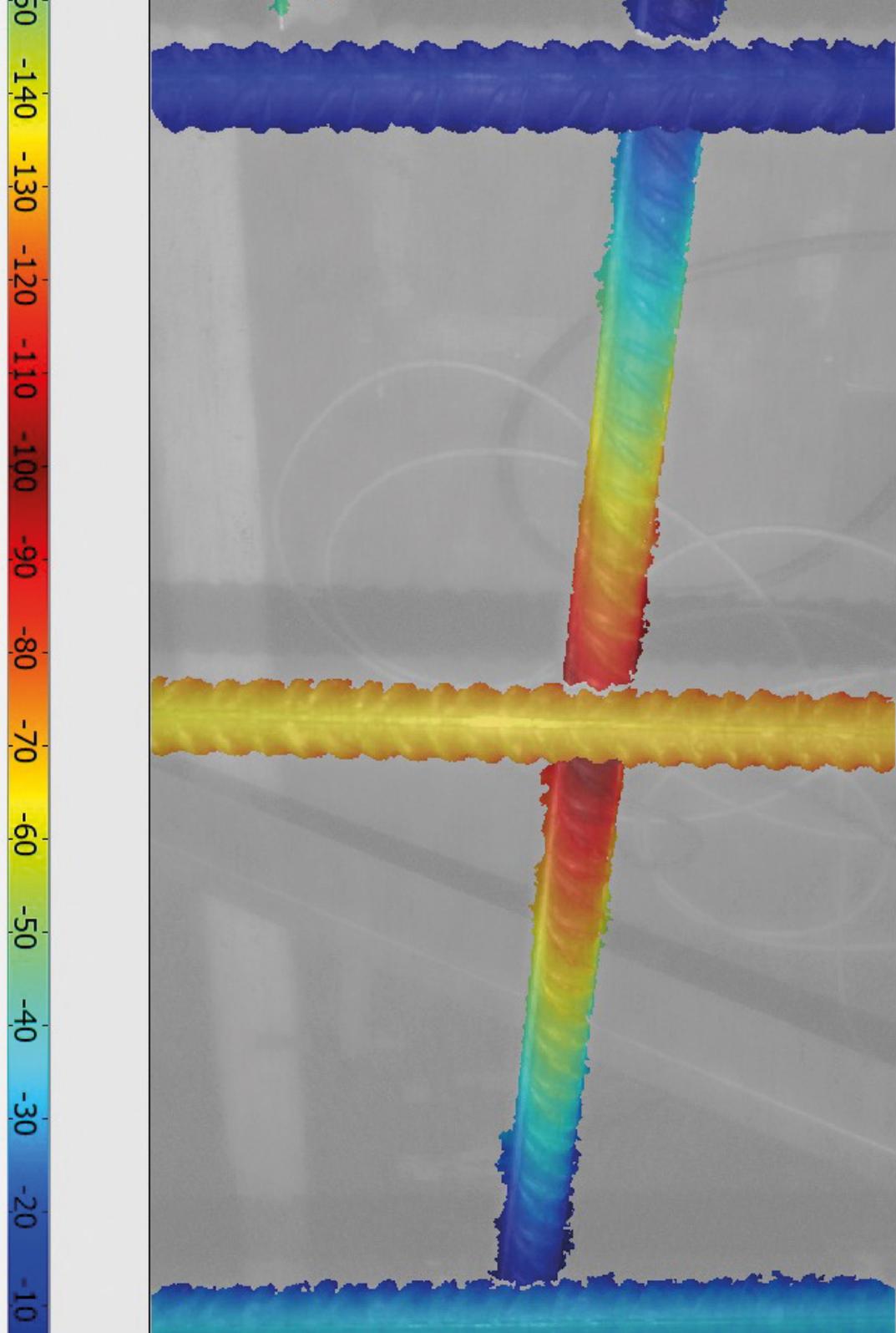
GMT
ROBOTICS





Intelligent welding made simple

The WELDMATE system is designed for maximum flexibility, capable of welding links, cages, and meshes within its operational reach. To enhance efficiency, a jig system can be set up manually or with robotic assistance, ensuring precise positioning of rebar elements.

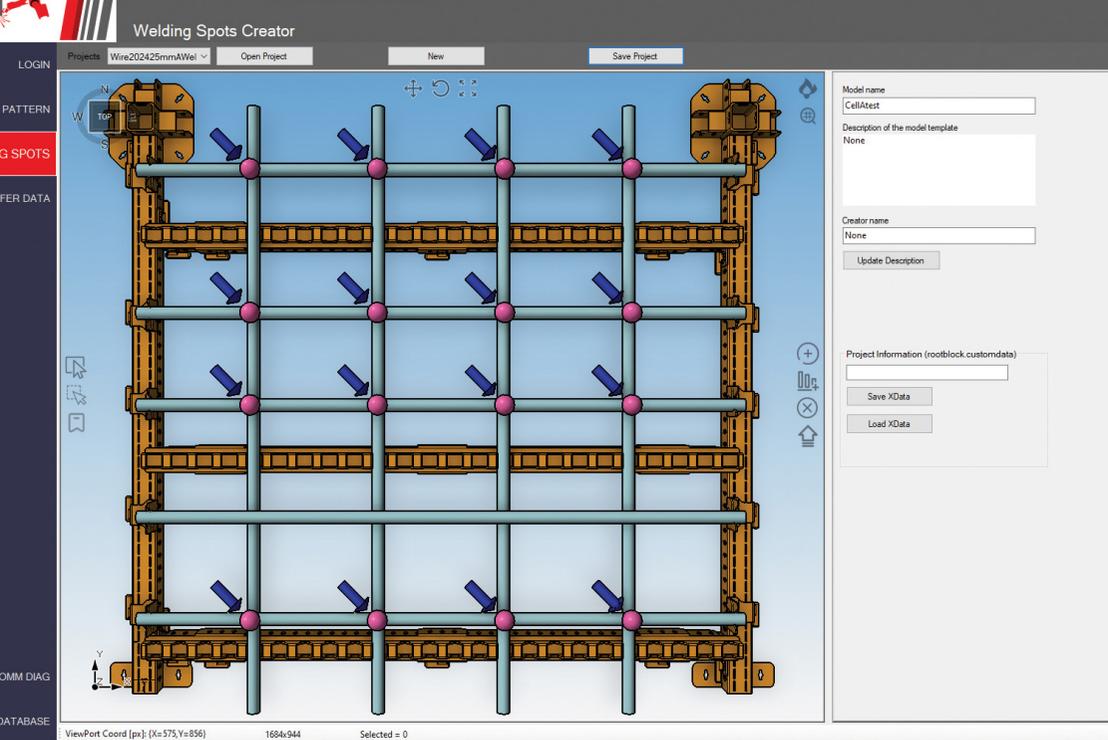


Seamless execution & quality control

The WELDMATE seamlessly integrates quality control into your daily production process.

With 3D vision, it automatically identifies gaps between rebar and selects the most optimal welding recipe.

All data is automatically collected and compiled into a comprehensive report, serving as quality assurance for your end customer.



Effortless programming

With WELDMATE, programming is simple and efficient. Once a program is created, it is stored permanently for instant recall. You can easily guide the robot by hand or use the teach pad for precise adjustments. When ready, simply select the saved program and press start - it's that easy.

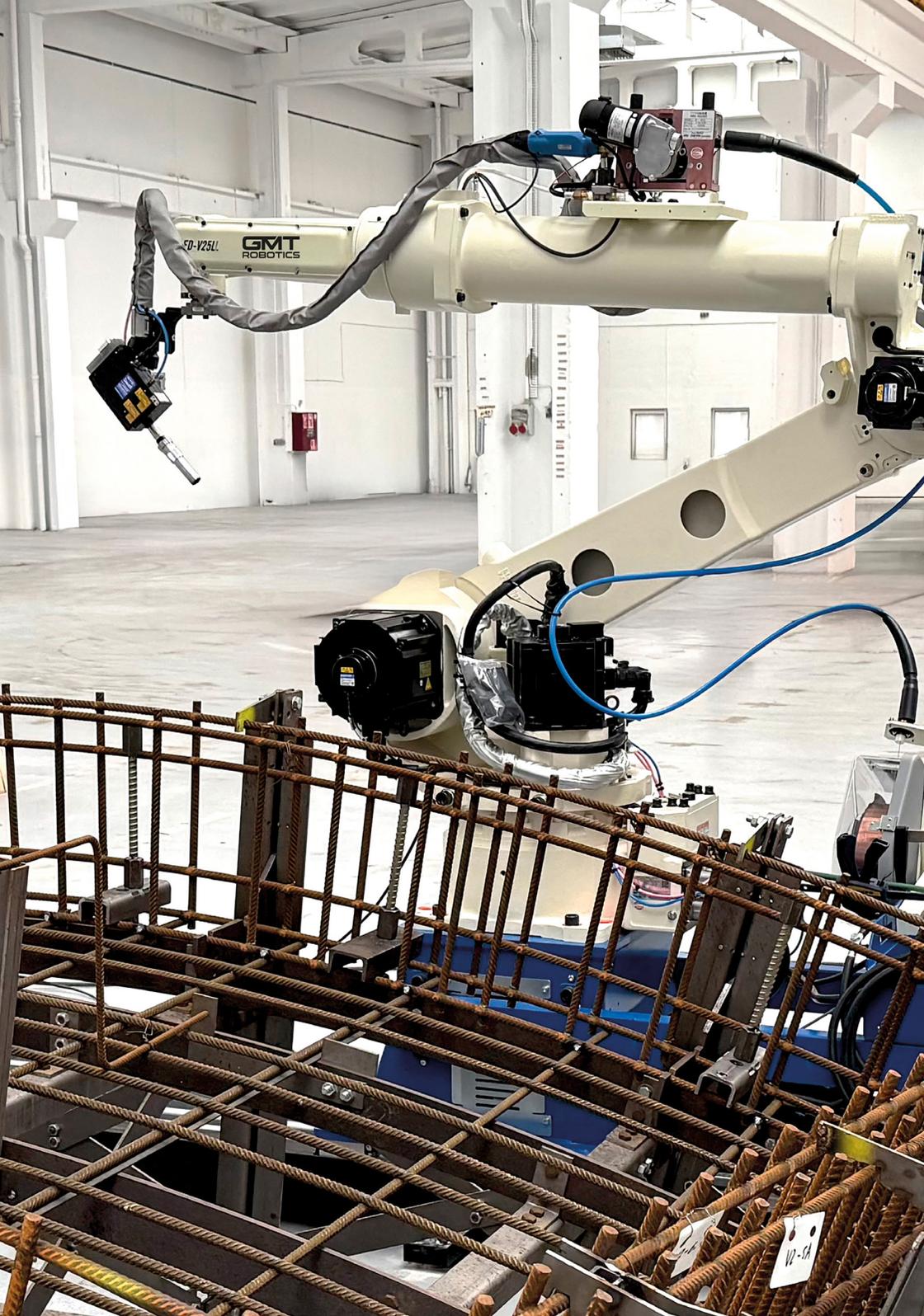
For even greater convenience, programming can be done through **the Robo Weld Planner**. Just upload your drawing or create your mesh directly within the software, then send the order to the robot. The system takes care of the rest, ensuring precise and automated execution with minimal operator input.



Photo-Teach

With our groundbreaking Photo-Teach technology, developed by GMT Robotics' innovative R&D team, programming has never been easier. Simply take a photo with an iPad, and the system automatically identifies optimal welding points.

Using a simple touch interface, you select where to weld - whether all points or just a few - before the program seamlessly converts your input into a welding sequence. The operator only needs to press start - everything is pre-configured for the most efficient production.



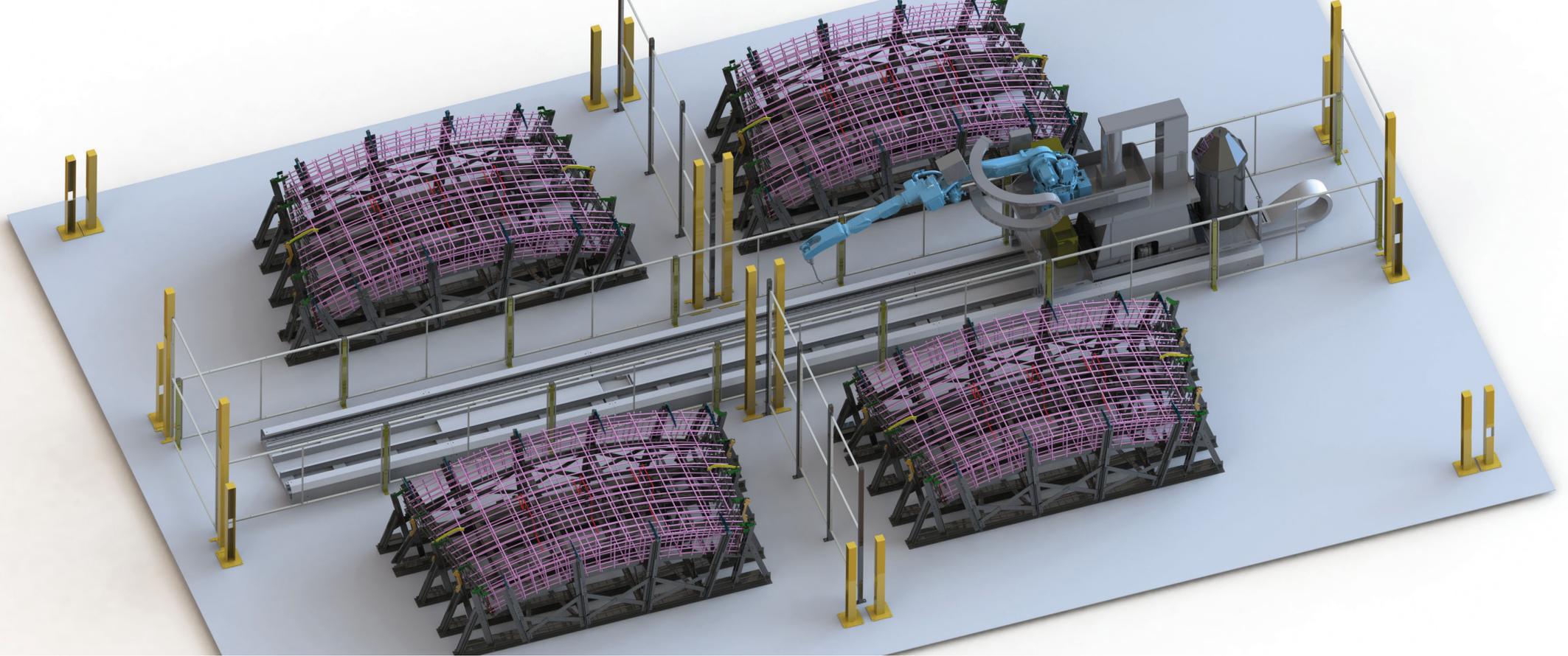
Advanced safety & adaptive operation

The WeldMate system is designed for safe and efficient human-robot collaboration.

In collaborative mode, it operates safely alongside workers at a controlled speed of 250mm/sec, eliminating the need for safety fencing.

For increased productivity, the robot can switch to industrial mode, reaching speeds of 1.2m/sec. When equipped with the appropriate safety system, it can operate at speeds of up to 4m/sec, significantly outperforming standard collaborative robots while maintaining strict safety standards.

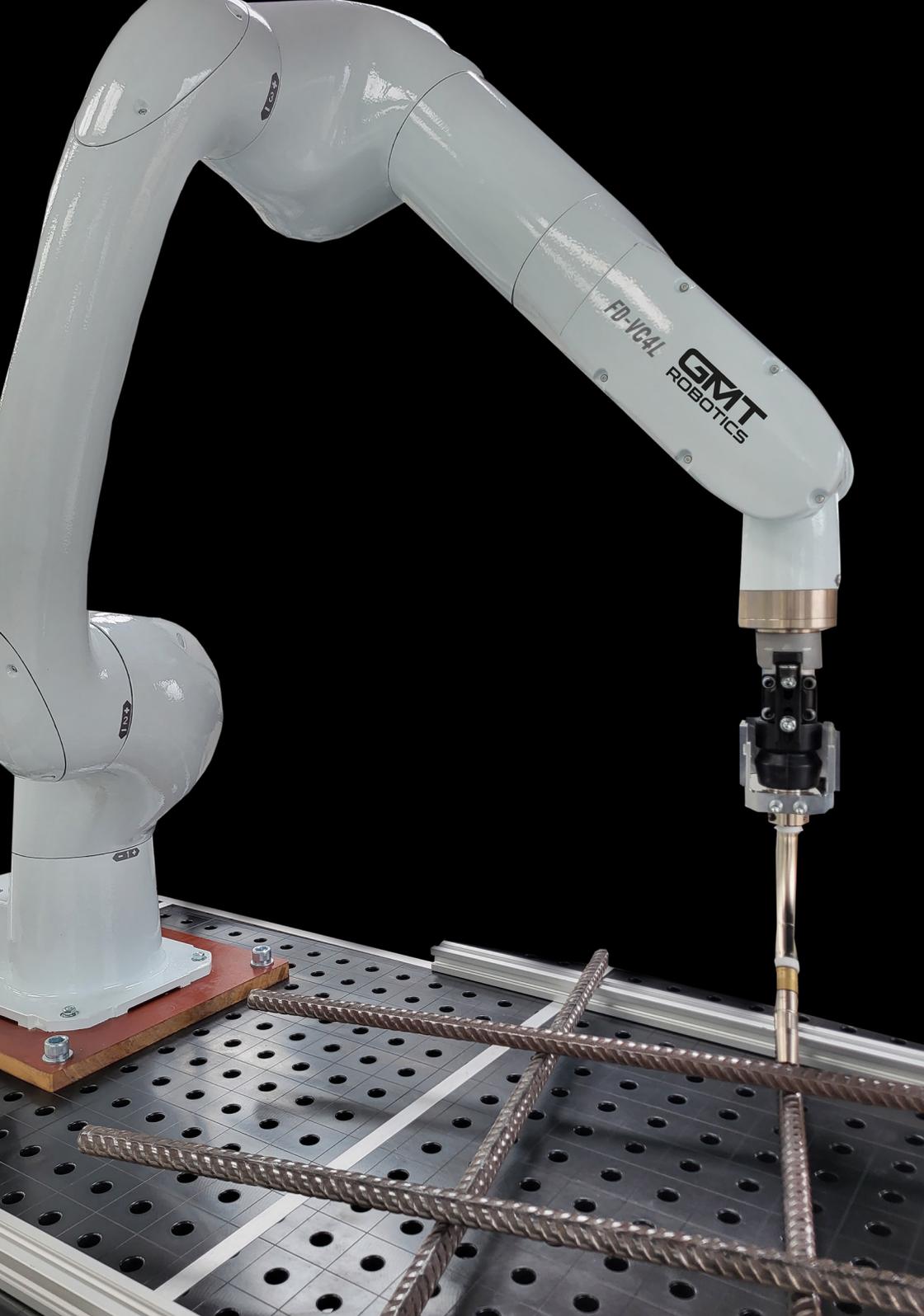
This high-speed industrial mode is the standard for our MEGA WELDMATES, which feature long-reach robotic arms equipped with Laser Vision - a cutting-edge system that determines the optimal welding points in just seconds, ensuring precision, speed, and unmatched efficiency.



Dual production output - maximized efficiency

In an era where efficiency is paramount, the MEGA WELDMATE Robot sets a new standard. With its **dual production output** capability, it can seamlessly operate in two or more work zones simultaneously.

Imagine this: while the robot is actively welding in one zone, your team can safely access other zones to remove completed structures and prepare new materials. This continuous workflow **minimizes downtime, maximizes productivity, and ensures a seamless operation** - all while maintaining the precision and craftsmanship that define your production quality.



Laser vision - precision at unmatched speed

Developed in collaboration with the OTC R&D department, our state-of-the-art **Laser Vision** technology revolutionizes automated welding. In just milliseconds, the system accurately detects rebar intersections - whether in a cage or mesh - ensuring precise and smooth welds every time.

The entire process, from detection to welding and robotic movement, is completed in approximately **five seconds**. No manual welder can match this level of speed and consistency - hour after hour, day after day, with no breaks, no fatigue, and no downtime. The result?

Unparalleled efficiency and a significant advantage over traditional manual welding.

Intelligent Search & Detection

As a standard feature, both the WELDMATE and MEGA WELDMATE are equipped with advanced Search & Detect technology. Seamlessly integrated into our hardware and software, this system allows the robot to automatically identify the precise welding point at any intersection - whether in a link, cage, or mesh.

By intelligently compensating for jig inaccuracies, the robot not only ensures precision but also selects and loads the correct welding recipe automatically. This results in a seamless, efficient welding process with minimal manual intervention.





MEGA WELDMATE™

The ultimate welding solution

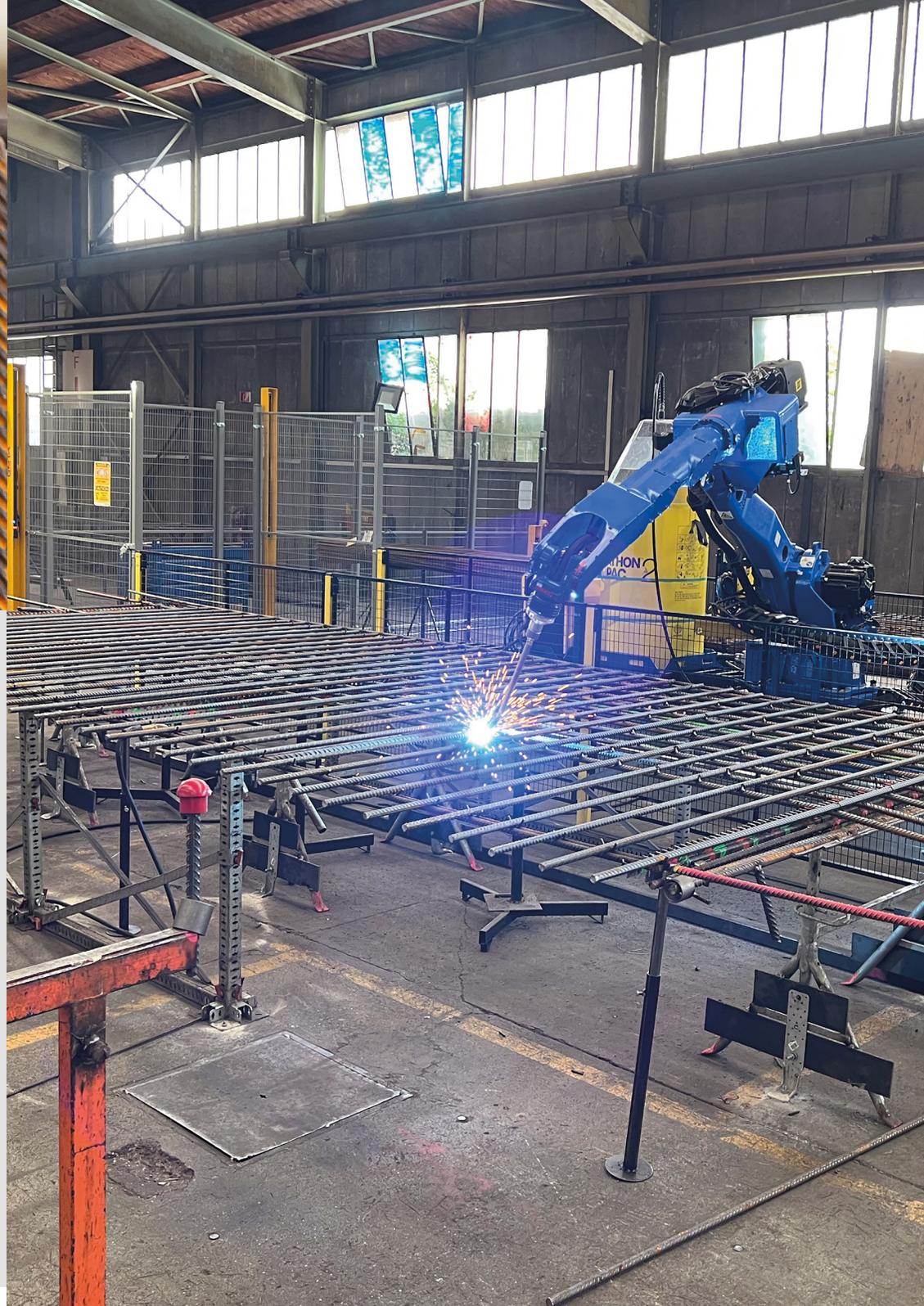
Introducing the MEGA WELDMATE Robot - a breakthrough in engineering and precision. In an industry where reliability and continuity are critical, this advanced robotic welding system seamlessly merges cutting-edge innovation with the craftsmanship of traditional welding.

What sets MEGA WELDMATE apart?

Designed for industrial-scale applications, the MEGA WELDMATE offers unmatched versatility. It can weld 2D bar mats, standard mesh, heavy mesh, and mega mesh, as well as 3D cages and structures by using own jigs or special jigs developed by GMT Robotics, all with exceptional accuracy.



These 2D or 3D elements can also be curved, and with the appropriate jig setup, the system can even weld tunnel segments, making it a powerful solution for complex structural needs.



Contact us

To learn how we can transform
your production



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