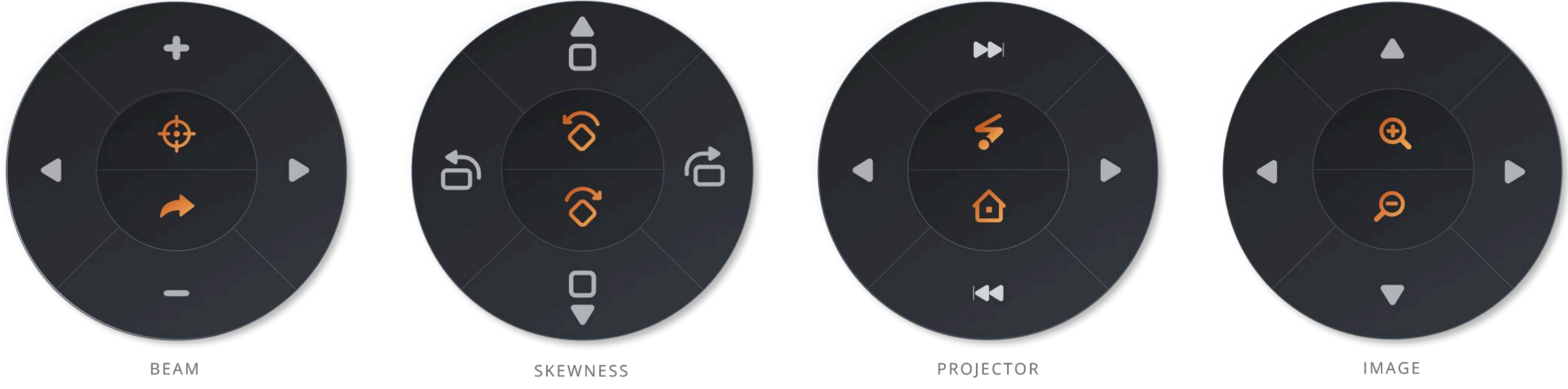


SmartinHMI

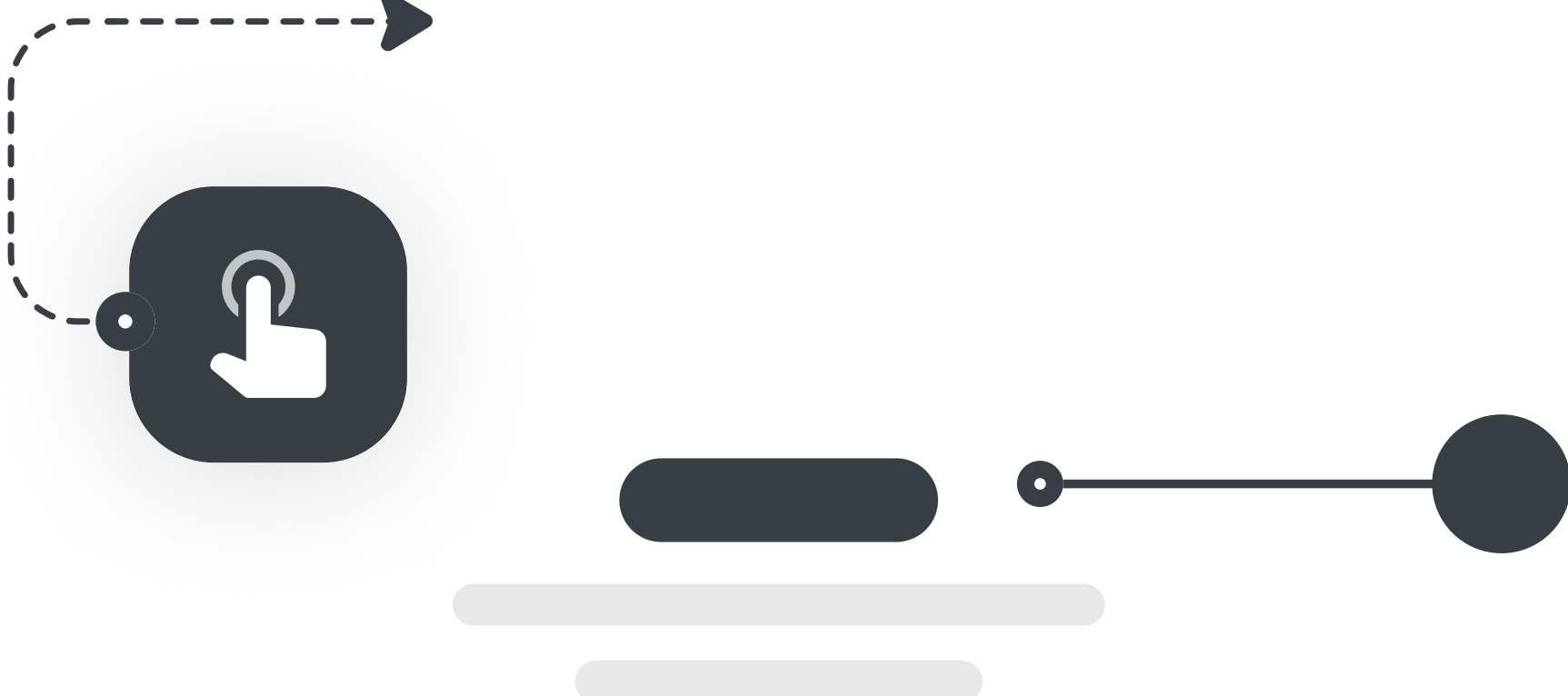
We design human-machine interfaces that transform complexity into clarity.

From advanced welding controls to robotic laser systems, our work simplifies operations, reduces human error, and optimizes performance in high-stakes environments.



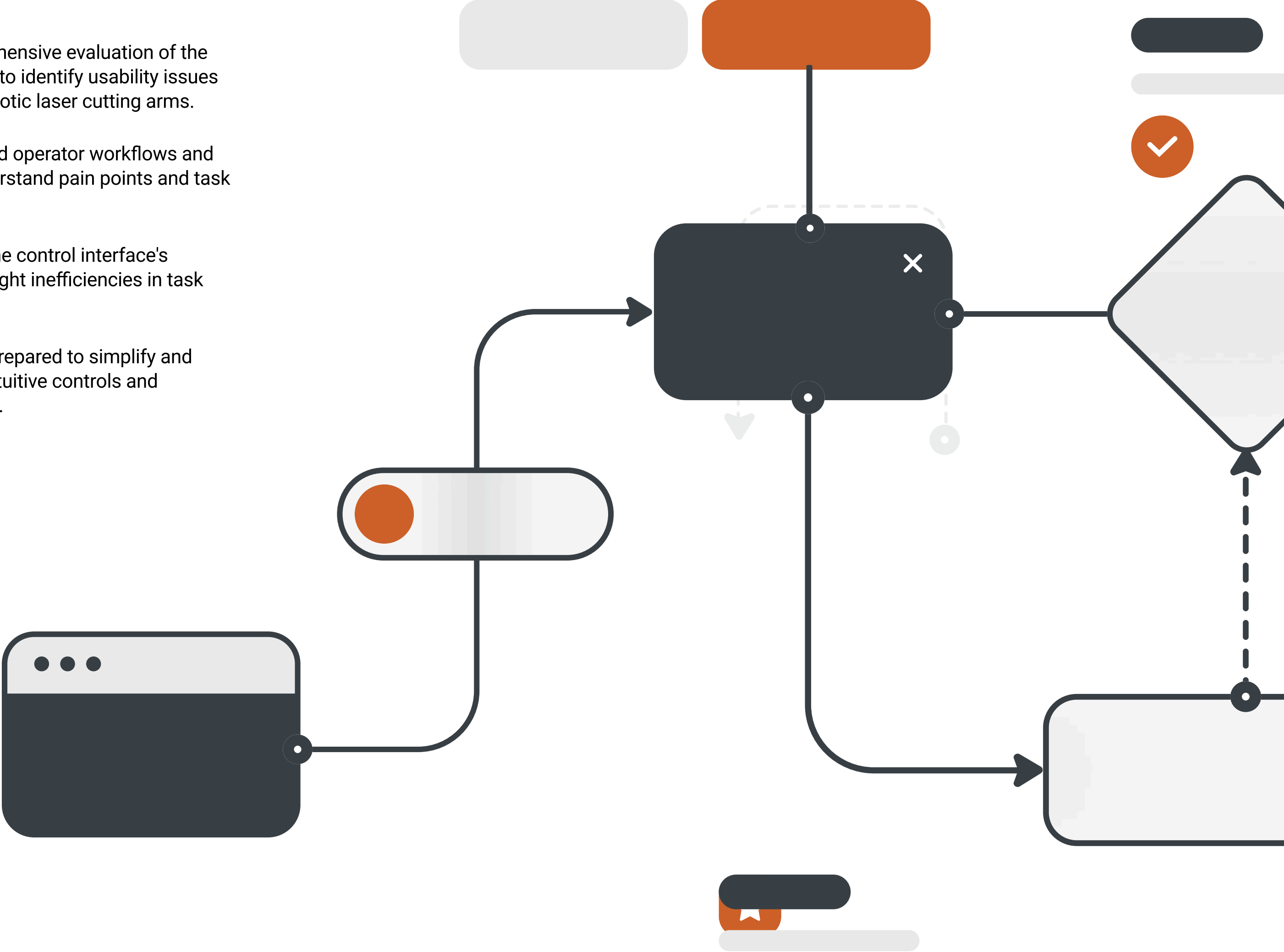
HMI UX Design

AGT Robotics is a leader in robotic automation, specializing in advanced welding, robotic laser arms, and material handling solutions. Their cutting-edge technologies and tailored support empower industries to enhance precision, efficiency, and productivity.



Research & Discovery Phase

- UX Audit:** Conducted a comprehensive evaluation of the Beam Master's HMI control board to identify usability issues and inefficiencies in managing robotic laser cutting arms.
- Behaviour Analysis:** Observed operator workflows and analyzed user interactions to understand pain points and task bottlenecks.
- Journey Mapping:** Mapped the control interface's processes and navigation to highlight inefficiencies in task execution.
- Foundation for Redesign:** Prepared to simplify and optimize the interface, ensuring intuitive controls and smoother workflows for operators.

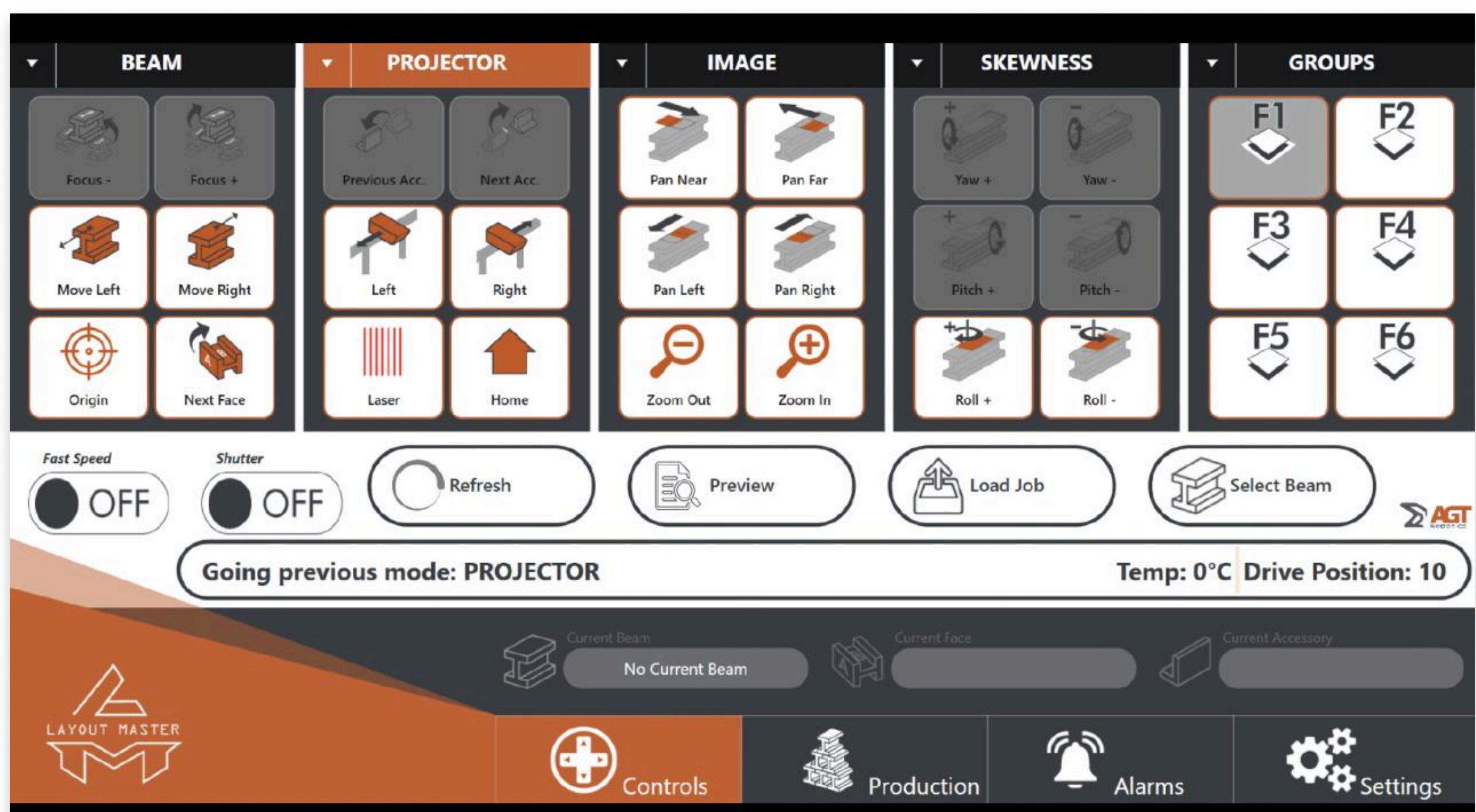


Control Panel UI Design

- Modernization:** Revamped the control panel with a sleek, futuristic high-tech interface that aligns with AGT Robotics' advanced technology and innovation.
- Brand Alignment:** Designed UI elements that respect AGT Robotics' brand identity and adhere to established guidelines, ensuring a consistent and professional appearance.
- Textless Iconography:** Incorporated universally recognized icons to streamline usability and minimize language barriers across international markets.
- High-Tech Visuals:** Introduced modern, dynamic elements such as gradients, subtle animations, and responsive feedback to enhance the user experience.
- Operator-Centric Design:** Focused on creating an intuitive and efficient interface tailored to the needs of machine operators in diverse environments.



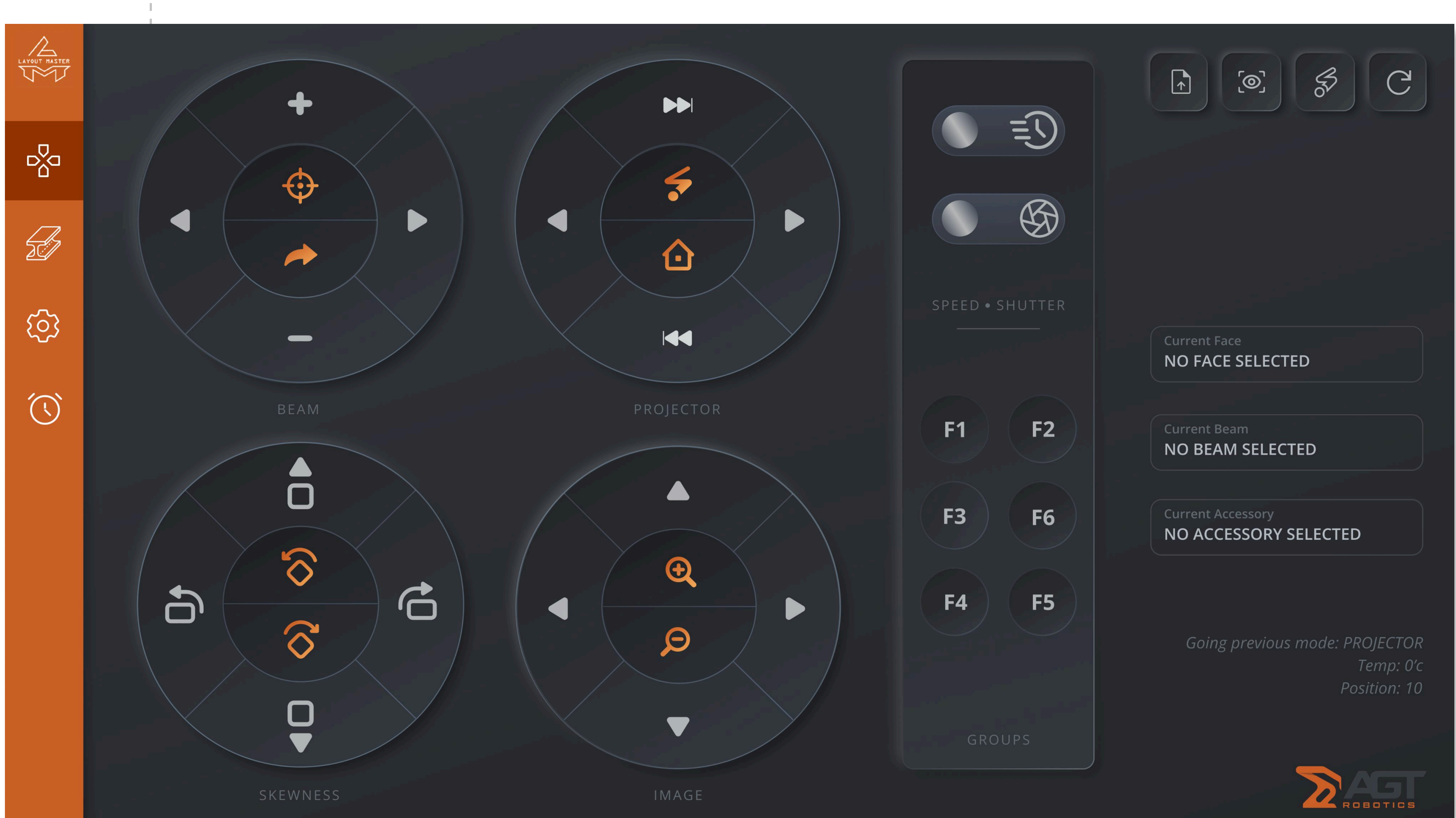
Before & After Comparison



Before

Beam Master Laser Control Panel

- Visual Comparisons:** Showed side-by-side comparisons of the original and redesigned HMI control screens, highlighting improvements in layout, functionality, and operator ease.



After