

AIE STUDIOS – KUKA ROBOTIC MILLING

AIE Studios' KUKA robotic milling system provides advanced fabrication capabilities for film, television, and commercial productions. The system enables the creation of large-scale, high-precision set pieces, props, and environments using digital workflows integrated with physical production.

Core Capabilities

- 6-axis robotic milling for complex 3D forms
 - Large-scale EPS foam milling for set construction
 - High precision surface detailing for scenic elements
 - Repeatable fabrication workflows for multiple assets
 - Integration with CAD and digital modelling pipelines
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Production Applications

Set Construction

- Large-scale scenic builds
- Architectural environments
- Custom structural elements

Props & Hero Assets

- Detailed prop fabrication
- Repeatable asset production
- Complex organic shapes

Virtual Production Integration

- Physical asset creation for photogrammetry
 - Surface capture for Unreal Engine workflows
 - Integration with LED volume production pipelines
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Workflow Overview

CAD / 3D Model

- Robotic Milling (KUKA)
- Surface Finishing & Coating
- Paint & Texture

- Photogrammetry / Scanning (if required)
 - Digital Asset Integration (Unreal / VFX)
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Workshop Facilities

- Dedicated robotic milling area
 - Spray booth for coatings and finishes
 - Assembly and fabrication space
 - Material preparation and storage areas
 - Access for large set components and equipment
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Production Rentals

Crew

KUKA system operation requires experienced technical supervision.

Initial hires will include an MMD technician to operate and supervise workflows, ensuring safe and effective use of the system.

Additional crew may be required depending on project scale.

Operating Requirements

- Three phase power required
 - Suitable extraction and ventilation for milling and coating
 - Material supply (EPS foam or equivalent)
 - Clear access for large-scale fabrication
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Flexible Production Use

The KUKA system can be utilised for:

- Pre-production set fabrication
 - On-site production support
 - Rapid prototyping and iteration
- Integration with virtual production pipelines