

Technical specifications

Built
Environment
—
Smarter
Transformation

Industrial Robot cell

Model name: Kuka KR210 R2700 Quantec Extra six axis industrial robot w/ KRC4 controller

Manufacturer

Kuka Robotics Supplier Loop Technology Description Robotic prototyping cell comprising 6 axis robotic arm, tooling and accessories. Includes a single axis turn table, a static vacuum table and a range of process tools, which are adaptable and expandable, enclosed within a guarded safety cell. Tools comprise a milling tool, mechanical 2 finger gripper, hot wire tool, vacuum gripper, and adhesive deposition. Automatic quick tool change Zimmer WWR125F-B to facilitate changing between process tools within sequence.

Purpose

Assembly Machine tending
Material handling
CNC machining
Metal fabrication
Moulding operations
Packaging Test and inspection
Loading and unloading
Among others

Capacity

Maximum reach: 2696mm
Maximum rated payload: 210kg
Position repeatability: +/-0.06mm
Vacuum table width: 1000mm
Vacuum table length: 2000mm
Turn table top clamp range: 600- 1000mm
Centre clamp table rotation: +/- 185°
Centre table maximum payload 100kg
2 finger gripper maximum workpiece weight 8.2 kg
2 finger gripper range 0-16mm
Hot wire tool maximum cut depth 300mm
Adhesive deposition 400ml dual (epoxy/dual component) 1:1 to 10:1 ratio mix

Machine dimensions

Robot footprint width (parked) 830mm
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Maximum height (full extension) 3026mm
Maximum width (full extension) 3350mm
Volume of working envelope 55m³
Robot cell footprint width 6000mm
Robot cell footprint length 6000mm