



MADA ROBOTIC FABRICATION BASIC SPECS

DESKTOP ROBOTS: 4 AXIS: MAGICIAN

Materials:

Ink, Paint, Drawing tools, PLA Plastic

Primary Uses:

Multifunctional desktop robotic arm for practical training and education. Can be fitted with a variety of end effectors or tools, but predominantly used for writing, drawing and 3D printing PLA plastics.

Working envelope:

150 (H) x 150 (W) x 150 (D) - 3D Printing.

320 mm Maximum reach.

*Working envelope dependant on end effector in use and robot position.

Adaptation1:

Slide rail may be used to extend application and work area.

COLLABORATIVE ROBOTS: 6 AXIS: IIWA

Materials:

Ink, Paint, Drawing tools, PLA Plastic, Clay Printing,

Primary Uses:

Collaborative robot designed to work safely with direct human interaction. Used for research based practice and dependant on end effector may be used for hot wire cutting, 3D printing for example.

Working envelope:

800mm Maximum Reach.

*Working envelope dependant on end effector in use and robot position.

INDUSTRIAL ROBOT 'RUSTY': 6 AXIS + EXTERNAL AXIS: KUKA KR120

Materials:

Foam, wood, reconstituted timber products. The material can be any starting shape as long as it is easily measured.

Primary Uses:

Milling of objects in the round including undercuts, recessing, boring in almost any direction except where the material stock is mounted to the table.

Working envelope:

1200 (H) x 1000 (L) x 1500 (W)

*Dependant on table position and cutting tool in use working envelope can be adjusted to:

Maximum reach 2700 Maximum work-piece 4200 round.