AKGEC-KUKA
INDUSTRIAL ROBOTICS TRAINING CENTRE

Robotic Laser Welding & Cutting Application Cell

Robot laser welding system consists of a servocontrolled, multi-axis mechanical arm, with a laser cutting head mounted to the face plate of the robot arm. A laser welding robot can easily automate this application and manufacturers will see improved repeatability and higher quality welds. Robotic laser welding is an accurate, clean and flexible option for a wide variety of welding applications. Laser cutting is a very useful manufacturing process to cut different types of materials including paper, wood, plastic, and metal. The material melts in the beam path. This process is perfect for robotic automation because of the required stability and cutting complex designs. Laser cutting is used primarily by manufacturers to cut metal and plastic parts.

Robot Specification:

Model	:	KUKA KR 30HA
Rated Payload	:	30 Kg
Maximum Reach	:	2033 mm
Repeatability	:	±0.1 mm
Controller	:	C4

External Tool Specification

Make	:	IPG
Model	:	FLW D30
Power	:	6 KW
Weight	:	1.5 Kg

Cutting Tool Specification

Make	:	Empower
Model	:	RBD 9020F
Power	:	6 KW
Weight	:	1.5 Kg