

Industrial Robot Configurations

Different types optimized for specific applications

Articulated (6-axis)

Most versatile
Human-like motion
6 degrees of freedom

*Welding, painting
assembly, handling*

SCARA
Fast horizontal motion
Rigid vertical axis
4 axes typical

*Assembly, pick-place
packaging*

Delta (Parallel)

Very high speed
Limited payload
Parallel linkage

*High-speed picking
packaging, assembly*

Cartesian (Gantry)

Linear motion
Large work envelope
3-4 axes

*CNC loading, palletizing
large part handling*

Cylindrical
Linear reach
4 axes typical

*Machine tending
material handling*

Collaborative (Cobot)

Force limited
Safe around humans
Easy programming

*Human collaboration
assembly assist*