iv. Robotic Automation

An **industrial robot** is a robot system used for manufacturing. Industrial robots are automated, programmable and capable of movement on three or more axes.

Typical applications of robots include welding, painting, assembly, disassembly, pick and place for printed circuit boards, packaging and labeling, palletizing, product inspection, and testing; all accomplished with high endurance, speed, and precision. They can assist in material handling.

Robotic Applications in Automotive Manufacturing

The following robotic applications are the most common in the automotive industry

Collaborative Robots

These collaborative robots are built to work together with other robots, on enormous assembly lines. Robots must collaborate between handling and welding robots to make such assembly lines function properly.

Robotic Painting

Professional painters are difficult to find and the job is a highly toxic one. This makes it perfect for robots, because the paint job needs to be highly consistent over a large area of paint, and reducing the amount of wasted material can add up to quite a bit of savings over time.

Robotic Welding

Robotic welding has been the top robotic application in the automotive sector for a long time, as every car needs a high number of welds before it's complete. Given the high value of the finished product, productivity from automation is enormous.

Robotic Assembly

In many automotive plants, robots are assembling smaller components like pumps and motors at high speeds. Often, robots are performing tasks like windshield installation and wheel mounting to increase throughput.

Material Removal

High consistency and repeatability make robots perfect for material removal processes like trimming and cutting. This could be in the form of cutting fabrics, trimming plastic moldings and die castings or even polishing molds.

Part Transfer and Machine Tending

Pouring molten metal, transferring metal stamps, and loading and unloading CNC machines are all best completed by a robot as they are dangerous. When completed consistently with little downtime they can also be a source of major productivity.

> "The conversation on robotics and automation has come a long way since it started, and every day it takes a new turn."

Robotic Process Automation

Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate humans actions interacting with digital systems and software.

We provide customer support for industrial Robot automation Programming services such as:-

Robotic Automation Programming

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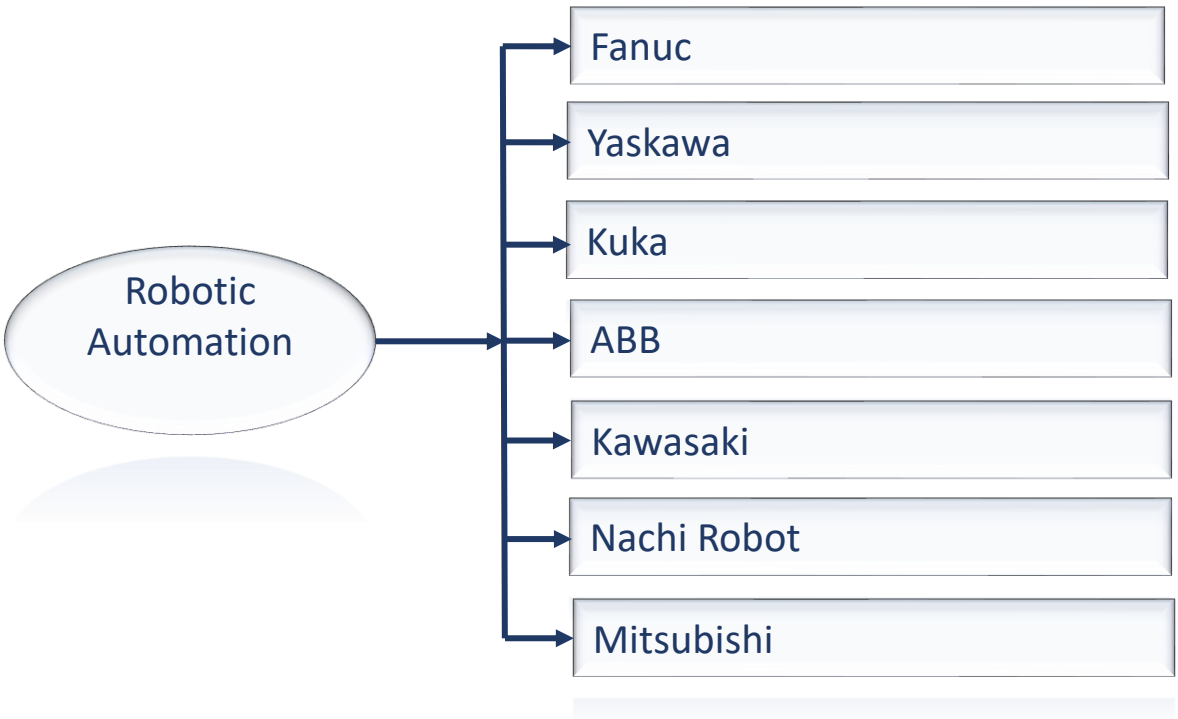
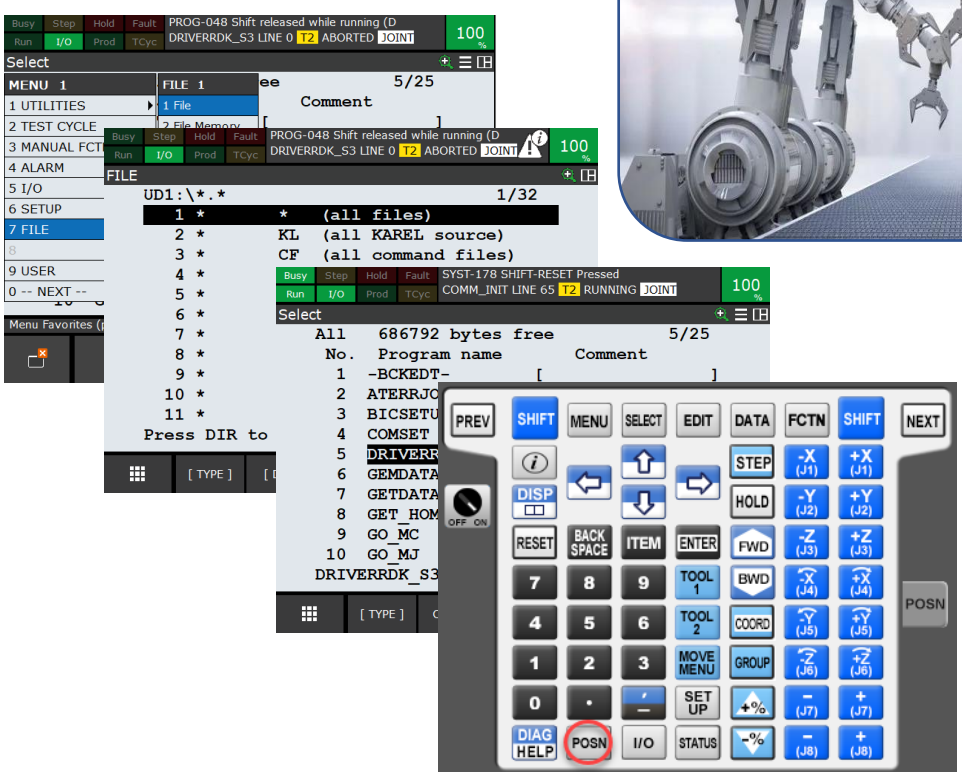




Accelerated transformation

Major cost savings

Greater resilience

Improved compliance

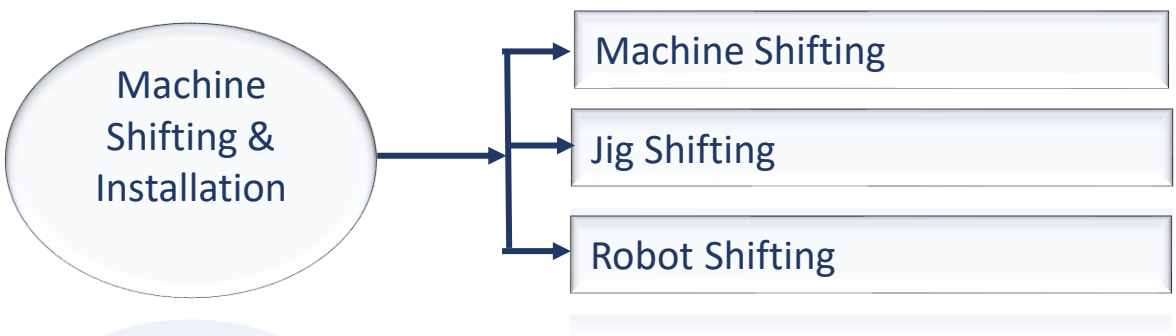
Boosted productivity

More value from personnel

v. Heavy Machines Shifting Installation

Moving things is complex and more than that is the safety of goods. There are few small and non-sensitive items that could be transported from a place to another very easily, but on the meantime there are certain things that cannot be handled without self and assistance is definitely needed in that. One of such complex thing is heavy machines.

We provide customer support for industrial Mechanical Machine service provinces such as:-



Heavy machinery shifting is considered to be tough because not only the machines are big and bulky but any single mishandling can lead to a big loss.