

# Machine Tending Solutions



Iconsys' robotic vision capabilities and unique end of arm tool designs allow our machine tending systems to handle parts in a wide variety of positions and orientations allowing for extreme precision within the following applications:

CNC Machine loading and unloading

- Grinding Machine loading and unloading
- Injection Moulding Machine loading and unloading
  - for more details see our separate flyer
- Press loading and unloading
  - for more details see our separate flyer

## Post Processes

- De-burring
- Etching
- Ultrasonic Cleaning
- Sorting
- Part Inspection

## Machine Tending

Machine tending can be highly intensive and repetitive work that is best suited for the consistency of a robotic solution. Robots are used to pick product from a supply position, transport it to a machine, orient it, and then interact with the machine and deposit the finished part for further processing.

Iconsys are an authorised systems integrator for ABB's standardised automation cells

MT5 is a great example of a highly standardised automated cell. Fully programmed tried and tested ready for production. The Cell comprises three parts, a feeding solution, a vision system Pick MT and a Robot. The vision system localizes the component.

The robot picks it up. It adjusts the position of the component, feeding it first to the machine, then on to the following stages with perfect precision. It can do this in thousands of different ways and a few minutes are all that is required to teach the robot how to handle a new component.

As an independent integrator, Iconsys can help identify the most cost-effective robotic solution

Given the flexibility of our in-house design and manufacturing engineers, Iconsys are able to provide robot tending solutions for many industries and applications. We can take on machine tending projects that are highly customised from the smallest to the largest and in any cell configuration.



### The benefits of an ABB Robotic Machine Tending Cell from Iconsys include:

- Maximum Productivity
- Machine availability is dramatically increased
- Shorten set-up time
- Handle many different types of materials
- teaching a new product is simple
- Operational flexibility
- Easy to add on post processes
- Improved ergonomic conditions
- Enhanced safety
- Reduce overall costs
- Great Return on investment
- Service Support
- On-going training

### Other Services:

- New Drive, PLC and SCADA systems design, installation and commissioning
- New safety circuit design, installation & commissioning
- Electrical panel design, supply and Installation
- Operator and maintenance training
- Service contracts
- Remote Access support

### Robot care

We have a dedicated team of professional engineers and technical experts solely focused on the first line support for your robot equipment. We offer a wide variety of robot service support from emergency 24/7 breakdown response to planned support of your equipment. The scope of our support can be tailored to meet your specific requirement.

### Who we are

A leading UK automation solutions provider and systems integrator, Iconsys uses the latest technologies and innovations to enhance the performance of companies through improved safety, profitability, security, reliability and productivity.

Founded in 1987, our world-class reputation for successfully completed projects covers a wide range of industries. We are totally independent, specialising in the design, manufacture and commissioning of integrated solutions incorporating multiple variable speed drives, servos, robotics, PLCs and SCADA, with a vast experience of integration to higher business systems.

Whatever industry you're in,  
whatever technology you need,  
Iconsys has the solution.

Contact our Operational  
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