

How Did Robots Gain So Much Importance In The Industry?

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It's 2016 – wasn't the world promised robotic servants that would cook, clean, and cater to our every need? Yes, technology has advanced to an extent that robots do feature in some part of our daily lives. Consider the many electrical items that can be found in our kitchen and outside. Robots built them, at least, in part.

Robotic technology has advanced to the stage where an automatic disk is now able to clean our floors or mow our lawn.

Yes, there's still some time before our futuristic hopes in regards to daily robotic applications will be fulfilled but that isn't stopping the industry from buying industrial robots and its spare parts!

Industrial Robots and the Many Applications They Are Used For



How useful are industrial robots to the industry? Utilized largely in factory settings, industrial robots can be used to perform a number of mechanical, repetitive tasks in a factory or another industrial setting.

In fact, 2015 saw a record level use of automation on factory floors and witnessed a sharp rise in worldwide

sales as well.

According to research conducted by the International Federation of Robotics, this acceleration was mostly driven by companies installing automatons in advanced countries and emerging economies.

This surge in worldwide sales and use of industrial robots is surely due to the many applications these robots perform in a factory setting. These applications range from:

Robotic Handling Operations

The most popular application of industrial robots is material handling. In addition, robotic machine tending, palletizing, and numerous operations for plastic molding and metal machining are included in robotic handling operations.

What's more, the introduction of collaborative robots has also significantly increased this part of the market. The KUKA KR210 VKRC2 control system shown in the picture offers machining and machine tending, handling, palletizing and order picking and many other applications.

Robotic Welding

Robotic welding includes arc and spot welding; both applications are used mainly in the automotive industry. Out of the two, the most popular is spot welding although robotic arc welding is quickly gaining its lead in the metal industry.

Many small workshops in the automotive and manufacturing industry are introducing this technology in their production process which is why demand for automated welding robots is rising.

Robotic Dispensing

Robotic dispensing applications include gluing, painting, applying adhesive sealing, spraying, etc. Despite performing a large number of applications and ensuring accuracy in the process, there're few dispensing robots operational in the factory setting.

Robotic Processing

Many automated machines can be found that specifically perform processing applications. This is why robotic processing isn't a big segment in the robot industry. The main application areas for which they're used for however are laser, mechanical and water jet cutting.



Introducing industrial robots to your processing, manufacturing, or any other industrial setting will guarantee a smoother flow of operations and increase in productivity levels.