

Mahajan Automation

Gat No. 441, S.No. 474/1 Lawasa road,
Near primary school, Mukaiwadi, Tal.Mulshi
Poud Rd, Pirangut, Maharashtra 412115

A compelling way of generating innovative ideas

India Leading Refurbished Robotic Turnkey Solution
Provider

Contact Details

Tilak A. Khadse (Asst. Sales And Application Manager)

Email: tilak.khadse@mahajanautomation.com

Phone: +91-8484879901

ABOUT US

About Us

Mahajan Automation is one of the best industrial automation company in Pune, India. We mainly focus on refurbished industrial robots. Mahajan Automation is a one stop shop for all your used robot and robot spare part needs. We work with our customers closely to provide them the right solution for their requirements. We deal in refurbished robots from ABB, Fanuc and Kuka.

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WHO WE ARE

As being one of the Best industrial automation company in India, we are committed to giving our clients extraordinary service and robots. Since 2013 we have worked with industrial clients worldwide to convey turnkey Fanuc and ABB robot solutions, and have provided parts and service. As industrial robotics keeps on developing, we anticipate helping our clients keep up their focused edge with out of the box thinking, advanced technologies and unbeaten service

Welding Robot

Machine Tending

Various

Integration And Automation Solution

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When we strive to become better than we are, everything around us becomes better too.



Vision

- We consider honesty and integrity as fundamental values to generate confidence.
- We cultivate our aspire it of quality at all levels to drive to satisfaction, pride and the sense of well-being, to strive for excellence.

About Us

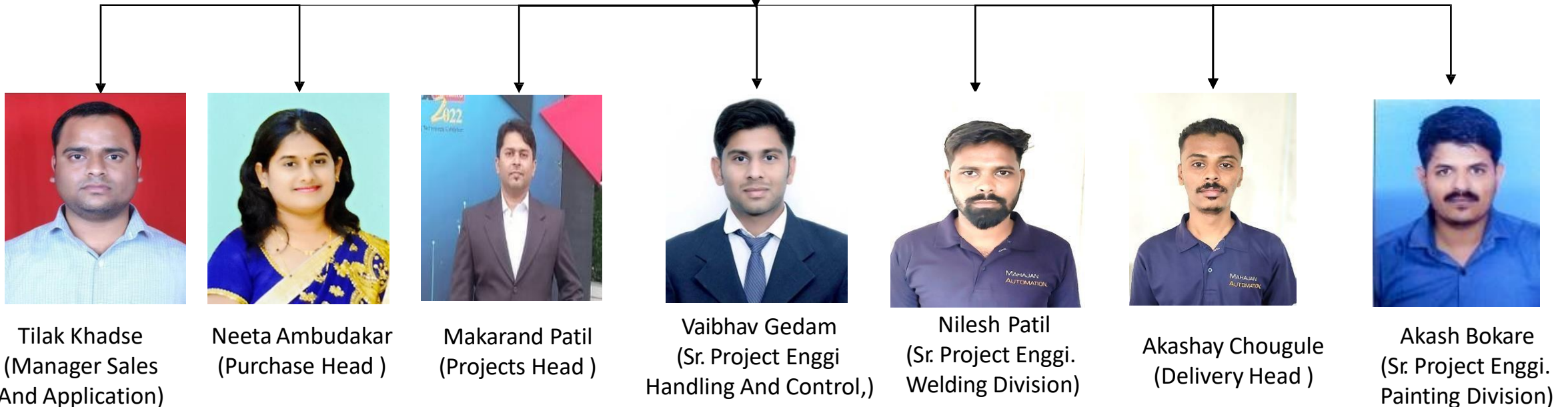
Mahajan Automation is one of the best industrial automation company in Pune, India. We mainly focus on Turnkey Industrial Robots Projects. Mahajan Automation is a one stop shop for all your Complete Robotic Solution needs. We work with our customers closely to provide them the right solution for their requirements. We are engaged Into Vision System , SPM, Gantry, ABB, Fanuc and Yasakawa. With 12140.6 Sq.Mtr For Complete Project Set-up

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Organization Structure



Sohan Mahajan
(Managing Director)





Vision

- We Work Together As Team For Your Project Successiveness With Respect opinion



Mission

- We cultivate our aspire it of quality at all levels to drive to satisfaction, pride and the sense of well-being, to strive for excellence.

Our Solution

Robotic Lines

- Complete turnkey welding And handling Robotic Cell
- Synchronized welding with Transfer Line applications
- SPOT/MIG/TIG/Laser welding robot cells
- Turnkey projects
- Gun runner Line
- Grinding And fettling Line
- Press Machine Transfer Line
- Robotic Painting Line Cell

Our Solution

Line Automation

- Assembly Lines
- Conveyors
- Robotic Inspection
- Vision Poka-Yoke
- Pick & Place
- Grinding And Deburring Line
- Gantry systems – Fanuc/Siemens
- Auto Assembly Stations

In SPM Solution

Special Purpose M/c

- Pneumatic/Hyd press
- Revising cum Inspection Jig
- Camera Vision Inspection
- Leak Testing SPM
- LASER marking SPM
- Twisting SPM
- Stuffing and Sizing Press
- CNC Pipe Bending Machine – Fanuc/Siemens/Delta

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Strength

- More than 100 + Robot integration in a year
- 250+ Robotic Cell manufacturing in a year
- 85% standardization in design for Robotic cell and Fixturing
- Plant Capacity is 2 Robotic Cell per day i.e. around 1200 + Robotic Installed Worldwide
- Complete Welding line (Having approx. 8 Cell in a line) can be made in 60 to 80 days
- State of art in-house facility for manufacturing (Approx 60%)
- 14 Vendors For Fabrication Support If We Required

Design, Simulation & Integration Capabilities

Sr.Nu.	Description	Remark
1	Dedicated Application Engineering team for detail working on RFQ in terms of Process study, Cycle time calculation, Line layout design, Line layout optimization	(Mechanical, Controls, Simulation)
2	Standard Design Library for BIW Projects MIG Welding Projects Standard Welding SPM	Around 65% standard Module to increase speed in Design Phase
3	Three team in mechanical design Solid Work Team 2D design release team Robot Simulation Software Team Process Simulator (Siemens PLM Technomatix)	20 + Design And simulation Engineer

Design, Simulation & Integration Capabilities

Sr. Nu.	Description	Remark
4	<p>Robot Programming Our Engineer are capable to integrate all Spot Welding and MIG Welding which includes Yaskawa, Fanuc,ABB, For Spot Welding Gun : Obara, Denyo, Aro, Nash, Arm Welder Welding Machine : Fronious, Lincoln,Migatronics Mogora Megmeet etc.</p>	<p>Robot Programmer At MHA : 30 Nos. On site : 20 Nos.</p>
5	<p>PLC Programming Our Engineer are capable to integrate all PLC System available Mitsubishi, AB, Siemens, Omron, Delta, Offline programming during design Phase Standard PLC Programming module</p>	<p>7 + Design And simulation Engineer</p>

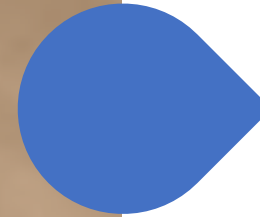
How We Can Help Into Automate Your EV Mfg. Process

Sr. Nu.	Description	Remark
1	Chassis Manufacturing	<ul style="list-style-type: none">• CNC Pipe Bending• BIW Fixture• Robotic Welding Transfer Line• CNC Gantry
2	Painting Line	<ul style="list-style-type: none">• Robotic Chasis Painting
3	Assembly Line (1. Tyre Assembly 2. Chassis Assembly 3. Electric Scooter Assembly Line 4. Electric Vehicle Battery Installing)	<ul style="list-style-type: none">• Battery (White Room Application)• Harness Assembly• Main Assembly With All Components• Tyre And Wheel Assembly
4	Data Base Management	<ul style="list-style-type: none">• SCADA

WHAT WE DO

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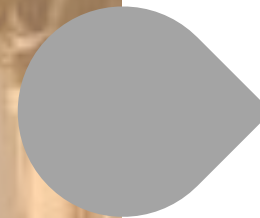
If you're faced with capacity challenges, labor shortages or quality variability, the standard robotic welding cell from MHA can help you address key business challenges, fast. Our MHA welding cell is an excellent option for companies adopting automation for the first time, or companies that are looking for a strategic automation partner to help them move forward.



Spot Welding



Mig Welding



Tig Welding



Tig Welding

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The harsh conditions common to foundries, forge shops, steel mills, and many automotive plants are well-suited for robot automation.

Foundry robots increase safety, productivity and efficiency. Designed to work in hot, hazardous environments, they can withstand high levels of dust as well as exposure to harsh chemicals and high-pressure sprays.

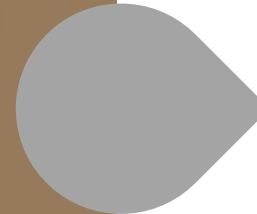
Foundry robots can perform a variety of applications, including but not limited to: die-casting, gravity-casting, sand-casting, finishing, water or chemical cleaning, and forging.



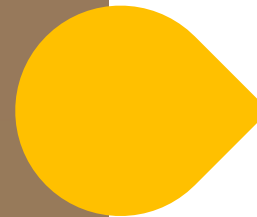
Sand-casting



Deburring



Fettling



Die-casting



Gravity-Casting

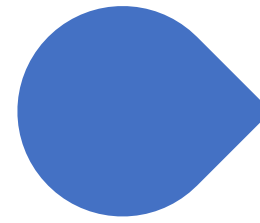
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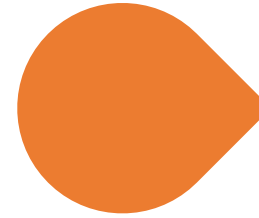
If you're considering investing in robotic material handling, know that there are a few reasons it's becoming so popular with manufacturers across the globe. Here are a few benefits you may see from robotic material handling:

- **Productivity:** robots are faster and more accurate than humans in most industrial applications, particularly the mundane, repetitive tasks like material handling.
- **Quality:** by nature, robots are highly repeatable, which reduces scrap and rework processes that comes with human error.
- **Flexibility:** vision guided robots can perform a variety of tasks once they're programmed properly, making ROI easier to achieve than ever before.

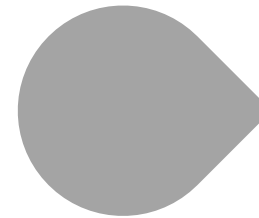
Robotic material handling provides a number of benefits over manual processes, but the ones mentioned above are some of the most important.



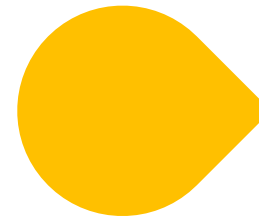
Secondary Packaging



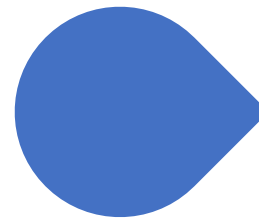
Palatalizing



ASRS



Bag Handling



Bin Picking

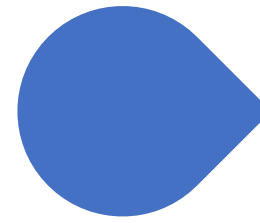
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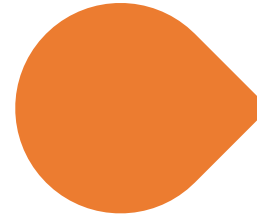
Robotic automation has long been used to replace human workers for tasks that carry a high degree of risk, such as those that use industrial paint.

Not only do industrial robots protect human health, but they also improve productivity. Continue reading to learn the 5 benefits of industrial painting robots

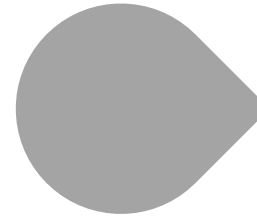
- 1.) APPLY PAINT EVENLY
- 2.) SAVE FLOOR SPACE
- 3.) ACCESS AND PAINT MORE PARTS
- 4.) PROTECT HUMAN WORKERS
- 5.) CUSTOMIZE AUTOMATION



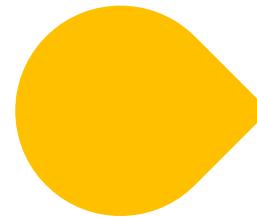
Paint Spaying



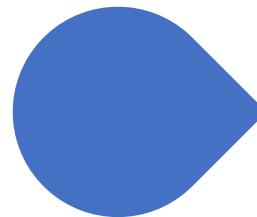
Powder Coating



Short Blasting



Glue Dispensing



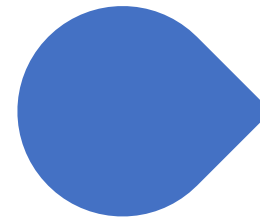
Thermal Spraying

WHAT WE DO

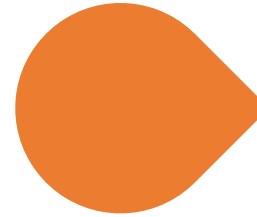
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The basic definition of tending is providing treatment for someone or something. In our case, machine tending means to load and/or unload a given machine with parts or material. Currently, most machine-tending applications are done by humans. Modern machine shops often use CNC machines (such as lathes and milling machines). These machines must be tended by workers, who place the raw material (usually called the raw or blank part) in the machine and remove it once the machine has done its work. However, since qualified workers are becoming harder to find, companies are introducing robots into their workshops to make up for the lack of employees.

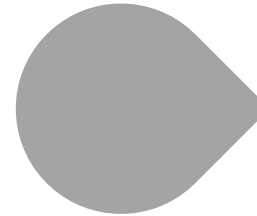
A robotic machine-tending process can be repeated endlessly, assuming the robot continually receives raw parts and the machine produces quality parts. Some industries use robots for a single step of production, like emptying injection-molding machines or CNC machines. When production is running around the clock, robots let you minimize cycle time and run the process continuously by removing parts from the machine's working area.



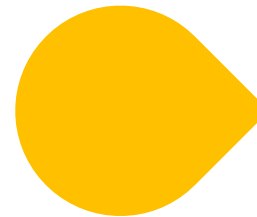
CNC Lathe Tending



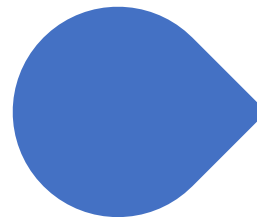
VMC Tending



VTL Tending



**Die Casting
Machine Tending**



**Press Machine
Tending**

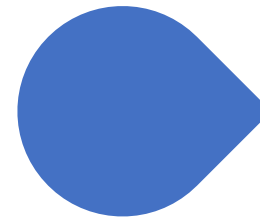
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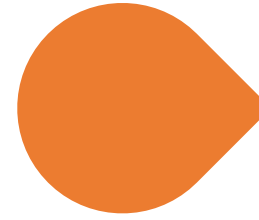
Robotic laser has a much smaller heat-affected zone, so distortion is minimized regardless of the type of metal being welded. Robotic laser is an accurate, clean and flexible option for a wide variety of applications.

The common applications highlight many of its benefits. These applications include:

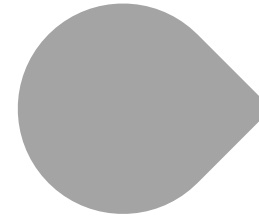
- Precision Parts Welding: accuracy and minimal heat generation allow for welding of thin or delicate metal components.
- Limited Access: since laser welding doesn't need to touch the part, it can weld remotely from over a foot away from the part. This allows it to reach hard-to-weld places that traditional processes cannot.



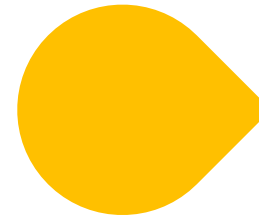
Laser Cutting



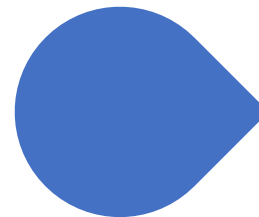
Laser Welding



Laser Cladding



Laser Drilling



Laser Marking

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Visual feedback is essential for image and vision-guided robots. Their power of sight is one of the elements that make them widely used across different disciplines.

Welding Seams in Welding Systems

Fully automated welding places great demands on quality and precision. Consequently, the correct position of the respective seam must be reliably detected before the welding process is started in the robot cell. Welding systems are equipped with innovative weCat3D 2D/3D profile sensors for the purpose of weld seam tracking.

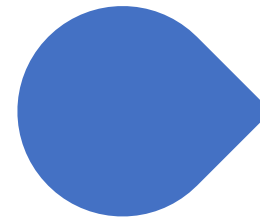
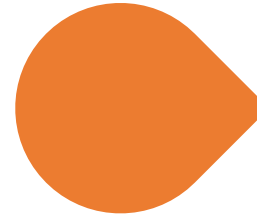
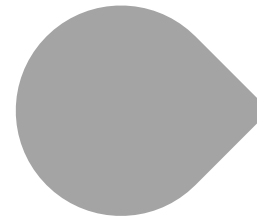


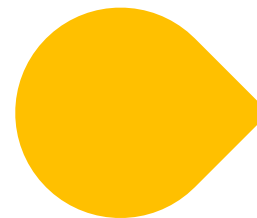
Image Processing



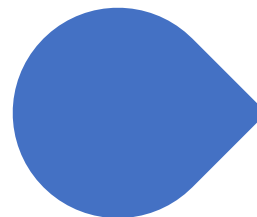
Part Inspection



Sorting



**De-Palletization
and primary
packaging**



**Welding Seam
Tracking**

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**Address: Gat No. 441, S.No. 474/1 Lawasa road, Near primary school,
Mukaiwadi, Tal.Mulshi Poud Rd, Pirangut, Maharashtra 412115
Mo. +91-73501 90505**

Mahajan Automation (Delhi)

**Address: Mall Rd, Judges Enclave, Ahinsa Khand 2, Indirapuram, Ghaziabad, Uttar
Pradesh 201014
Mo. +91-73501 90505**

Other Presence – Jamshedpur, Coimbatore, Bangalore

We Are Located



OUR ESTEEMED CLIENTS

THANK YOU!

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