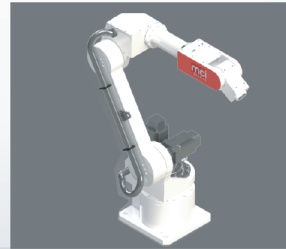
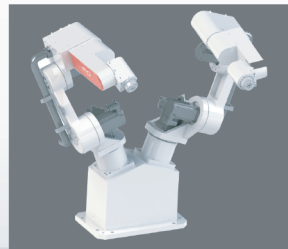


mci
robotics

ANYONE CAN **AUTOMATE:**
A REVOLUTION IS HERE

NEW



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ABOUT MCI ROBOTICS











We are a team of passionate engineers who have come together to create avant-garde solutions to address various challenges faced by industries on a daily basis. We do this by designing, manufacturing and deploying advanced robotic systems for automation. All our systems are designed and developed in India. Our innovative products save time, labour and materials, while enhancing quality, precision, and productivity in a varied set of industries.

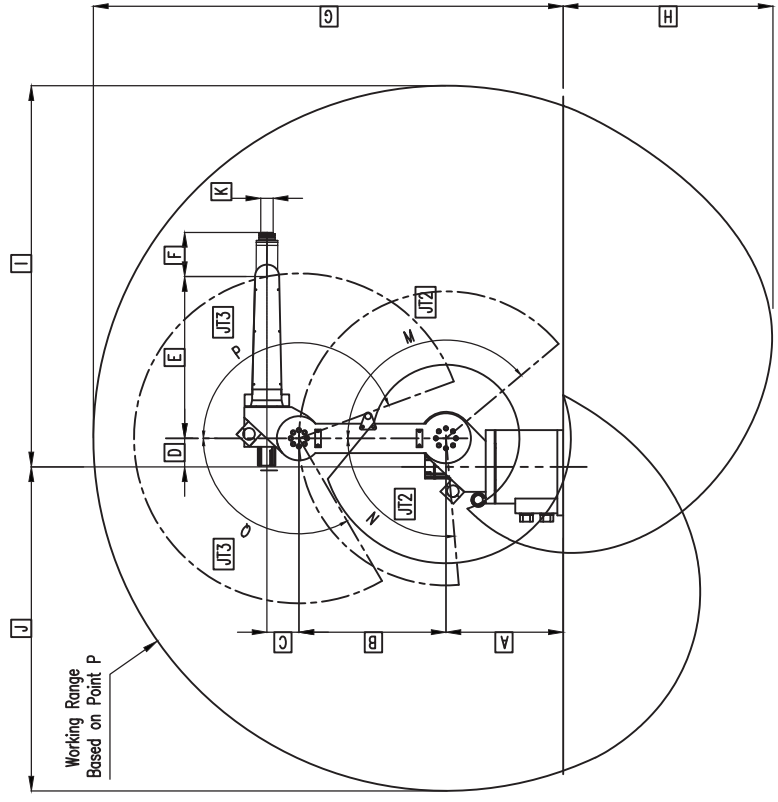
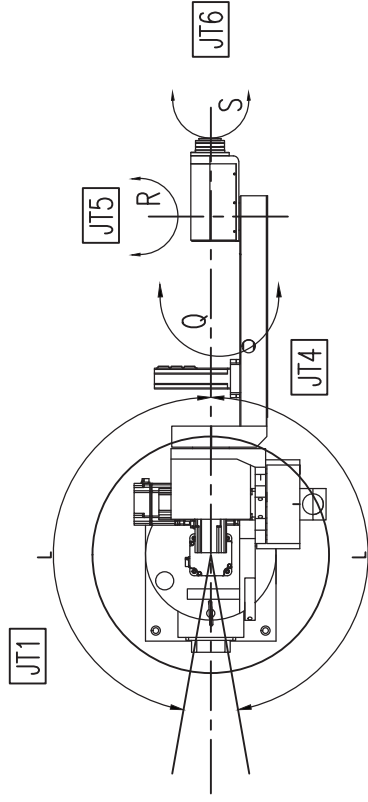
WHY MCI ROBOTS?

- MCI Robots are made in India, made for the world
- RELIABLE, ACCURATE, EFFICIENT and COST-EFFECTIVE all in one single package
- Use a traditional Teach Pendant or PC or Smart Phone or Tablet to operate and program
- Compatible with all operating systems - Windows, MacOS, Android, iOS, Linux
- Comes with Simulation and Offline Programming Software
- Easy to set up, Easy Programming - It's that Simple

AR SERIES

SPECIFICATION OF SIX AXIS ROBOTS

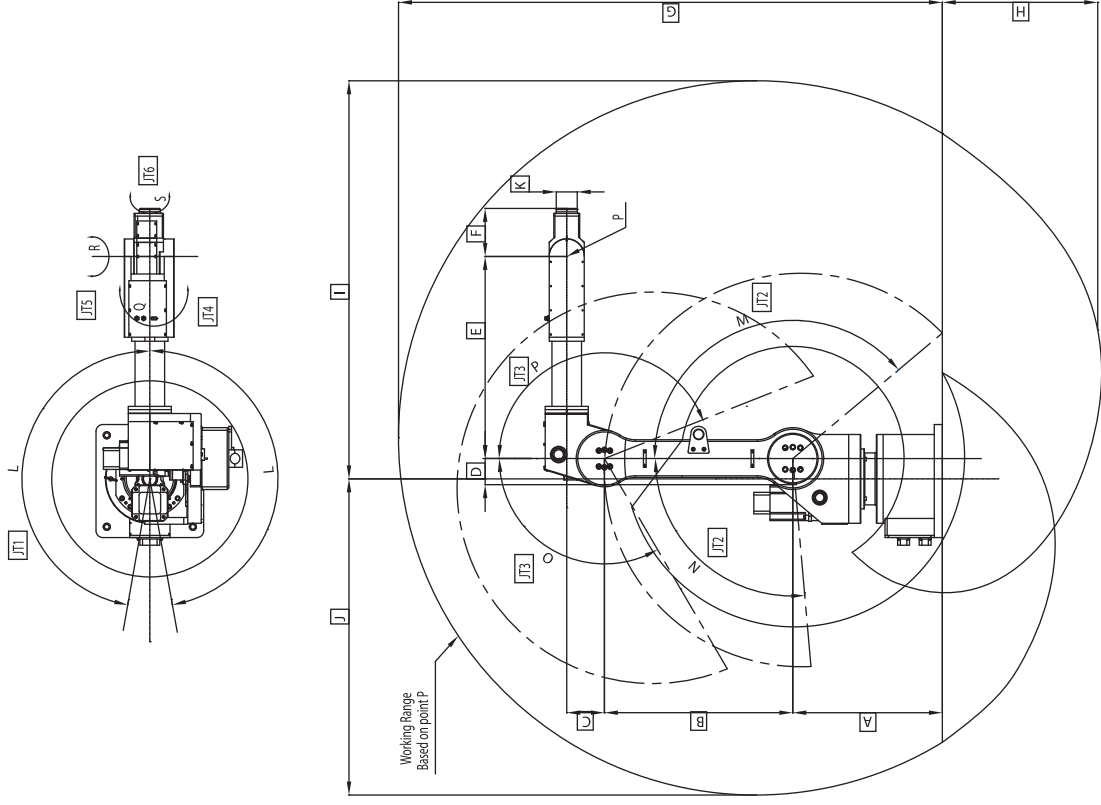
Robots	AR6-8-1200		
Application	    		
Degree of Freedom (axes)	6		
Max. payload (kg)	8		
Max. reach (mm)	1200		
Repeatability (mm)	+/- 0.05		
Work Envelope (mm)	A	400	
	B	500	
	C	109	
	D	97	
	E	550	
	F	150	
	G	1600	
	H	713	
	I	1,296	
	J	1,102	
	K	42	
Motion range(°)	Arm rotation	JT1	+/- 170
	Arm out-in	JT2	+140 / -95
	Arm up-down	JT3	+120 / -160
	Wrist swivel	JT4	+/-180
	Wrist bend	JT5	+/-180
	Wrist twist	JT6	+/- 180
Max Speed(°/s)	Arm rotation	JT1	180
	Arm out-in	JT2	180
	Arm up-down	JT3	225
	Wrist swivel	JT4	360
	Wrist bend	JT5	360
	Wrist twist	JT6	360
Mass (kg)	165		
Installation	Floor, Ceiling, Side		
Controller	MC6		
Application:	 Dispensing  Arc Welding  Palletizing  Material Handling  Material Tending		



AR SERIES











SPECIFICATION OF SIX AXIS ROBOTS

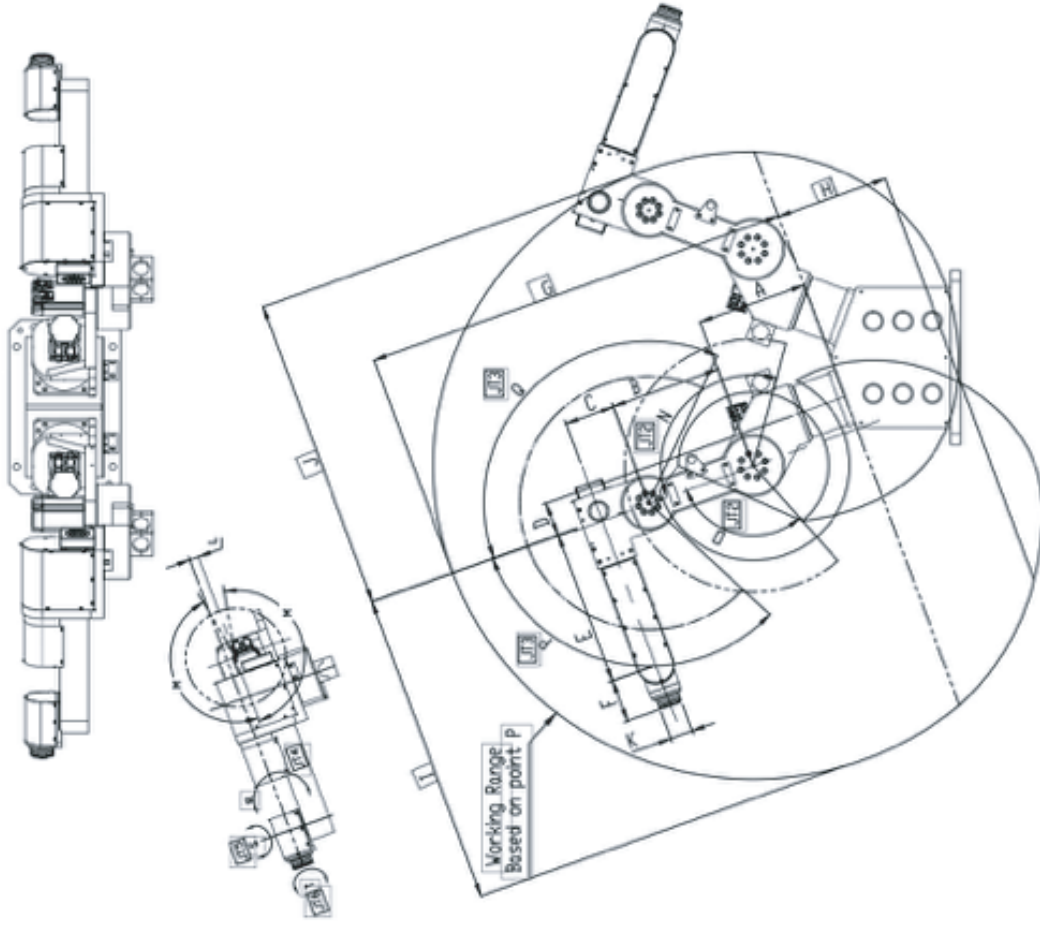
Robots	AR6-16-1600			
Application				
Degree of Freedom (axes)	6			
Max. payload (kg)	16			
Max. reach (mm)	1600			
Repeatability (mm)	+/- 0.05			
Work Envelope (mm)	A	555		
	B	700		
	C	140		
	D	75		
	E	750		
	F	180		
	G	1,600		
	H	600		
	I	1500		
	J	1175		
	K	50		
Motion range(°)	Arm rotation	JT1	+/- 170	
	Arm out-in	JT2	M/N	
	Arm up-down	JT3	O/P	155 / -100
	Wrist swivel	JT4	Q	+130 / -165
	Wrist bend	JT5	R	+/-180
	Wrist twist	JT6	S	+/- 180
Max Speed(°/s)	Arm rotation	JT1	180	
	Arm out-in	JT2	180	
	Arm up-down	JT3	225	
	Wrist swivel	JT4	360	
	Wrist bend	JT5	360	
	Wrist twist	JT6	360	
Mass (kg)	260			
Installation	Floor, Ceiling, Side			
Controller	MC6			
Application:	Dispensing Arc Welding Palletizing Material Handling Material Tending			



AR SERIES

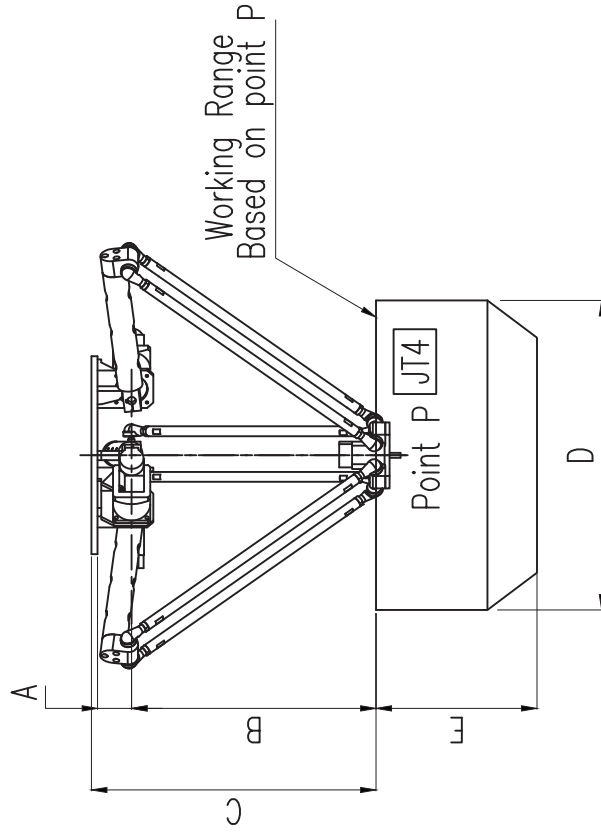
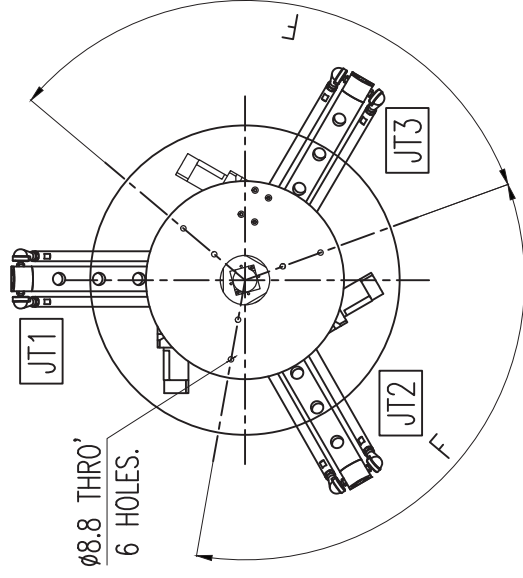
SPECIFICATION OF DUAL ARM SIX AXIS ROBOTS

Robots	AR6X2-04-850	
Application	    	
Degree of Freedom (axes)	6+6	
Max. payload (kg)	4 / Arm	
Max. reach (mm)	850	
Repeatability (mm)	+/- 0.05	
Work Envelope (mm)	A	300
	B	300
	C	135
	D	93
	E	427
	F	118
	G	1,150
	H	300
	I	900
	J	800
	K	50
	L	40
Motion range(°)	Arm rotation	JT1 T +/- 170
	Arm up-in	JT2 +155 / -100
	Arm up-down	JT3 +130 / -165
	Wrist swivel	JT4 +/-180
	Wrist bend	JT5 +/-180
	Wrist twist	JT6 T +/- 180
Max Speed(°/s)	Arm rotation	JT1 180
	Arm out-in	JT2 180
	Arm up-down	JT3 225
	Wrist swivel	JT4 360
	Wrist bend	JT5 360
	Wrist twist	JT6 360
Mass (kg)	45	
Installation	Floor, Ceiling	
Controller	MC12	
Application:	 Dispensing  Arc Welding  Palletizing  Material Handling  Material Tending	



DR SERIES SPECIFICATION OF DELTA ROBOTS

Robots	DR4-2-600	DR4-2-1200
Application	●	●
Type	Parallel Link Type	
Degree of Freedom (axes)	4	4
Max. payload (kg)	2	2
Motion Range (mm)	φ600 x H 260	φ1200 x H 260
Positional Repeatability (mm)	+/- 0.05	+/- 0.05
Angular Repeatability (°)	+/- 0.05	+/- 0.05
Work Envelope (mm)	A	110
	B	790
	C	920
Mounting Holes Angle (°)	F	240
		40
Mass (kg)	Ceiling	
Installation	Ceiling	
Controller	MC4	MC4







Application:

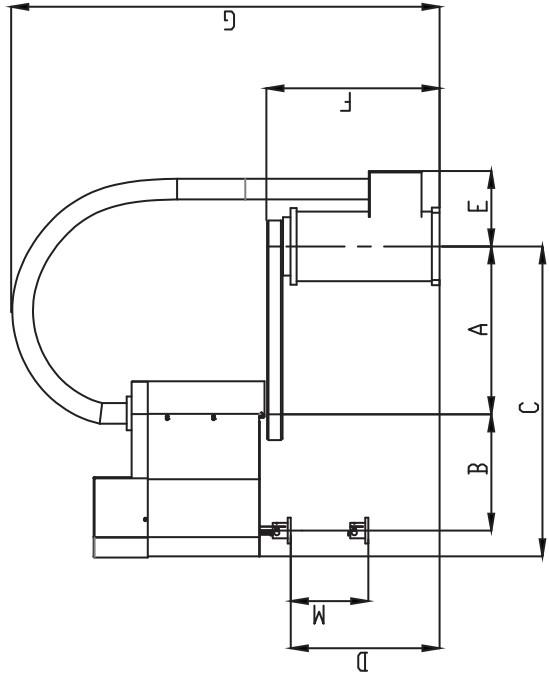
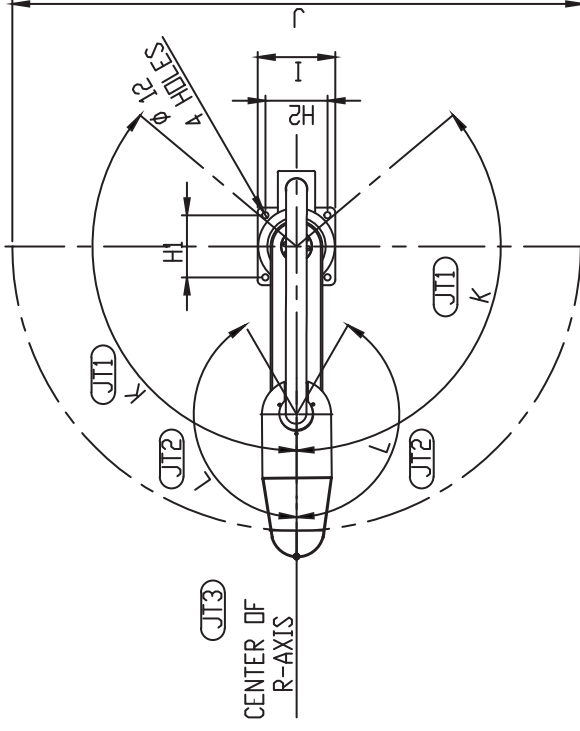
● Assembly

● Material Handling

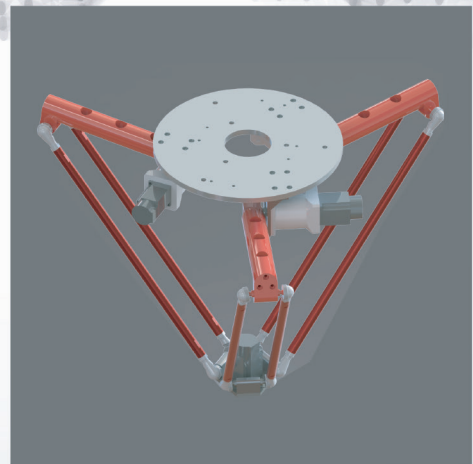
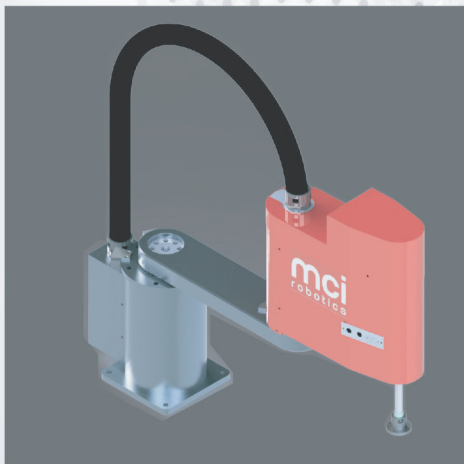
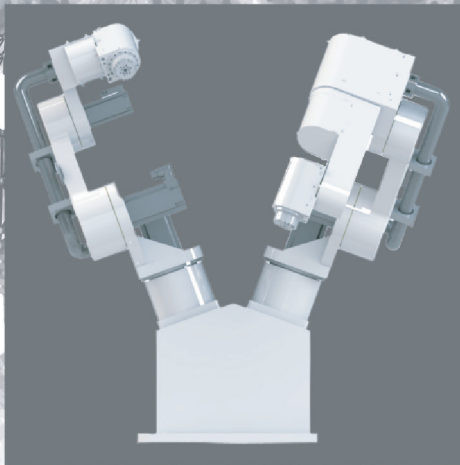
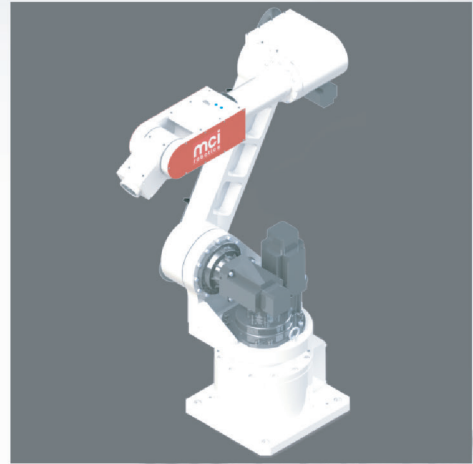
SR SERIES

SPECIFICATION OF SCARA ROBOTS

Robots	SR4-5-650	SR4-10-1000	
Application	  		
Degree of Freedom (axis)	4(synchronous control)		
Max. payload (kg)	5	10	
Max reach (mm)	650	1000	
Arm Length and Distance	J1 Arm (mm)	A	500
	J2 Arm (mm)	B	500
	J1-Front End (mm)	C	1000
	End to J1 Arm	E	300
	Machine Height	F	550
	Overall Height	G	950
	Mount Pitch	H1/H2	120 / 180
Operation Range	Breadth	I	200
	Operation Distance	J	2000
	J1 Arm (*)	JT1	±90
	J2 Arm (*)	JT2	±135
Max Speed	Z-Axis (mm)	D	300
	R-Axis (*)	JT3	±360
	J1 & J2 Combined (mm/sec)		3000 (when carrying a 1 kg of work piece)
Repeatability	Z-Axis (mm/sec)		1800
	R-Axis (* /sec)		1800
	X-Axis and Y-Axis (mm)		±0.05
Machine weight (kg)	Z-Axis (mm)		±0.05
	R-Axis (*)		±0.05
Machine weight (kg)		30	60



Application:  Inspection  Gluing  Material Handling



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MATERIAL HANDLING

Transporting things from one place to the another is a mechanical function, which when automated, saves a lot of time and energy. Our robots with unique gripper arms are very effective in industrial environments and perform tasks such as conveyor tracking, collision detection etc,



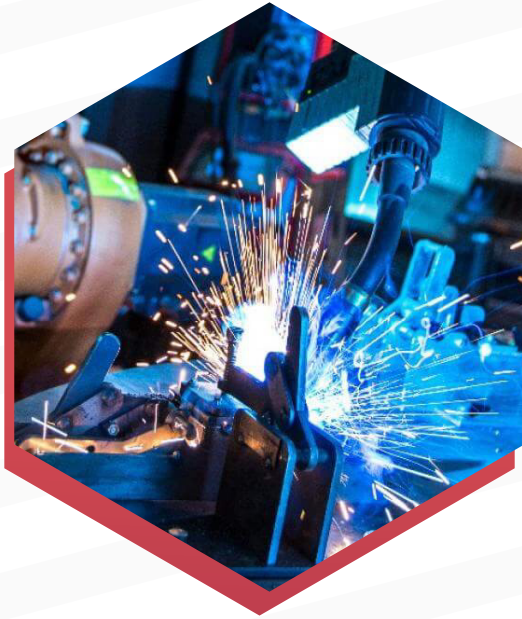
ASSEMBLY

Assembling was always a laborious process, consuming a lot of man hours and energy. Advanced robotics has now made that job easier, with robots being able to take over complex and repetitive assembling tasks and do it with much more efficiency. Motion guidance technology with 2D and 3D vision systems enable the robots to locate the exact parts that need to be assembled.

SEALING / DISPENSING

Sealing and dispensing material is a task that is fairly mechanical and requires accuracy, a task a robot can fulfill much more effectively than a human. These tasks require the robot to interface with material pumps, regulators and dispensing guns for uniform application of sealants or adhesives in specific parts. Our robots are designed to interface with a variety of equipment and are very easy to use.



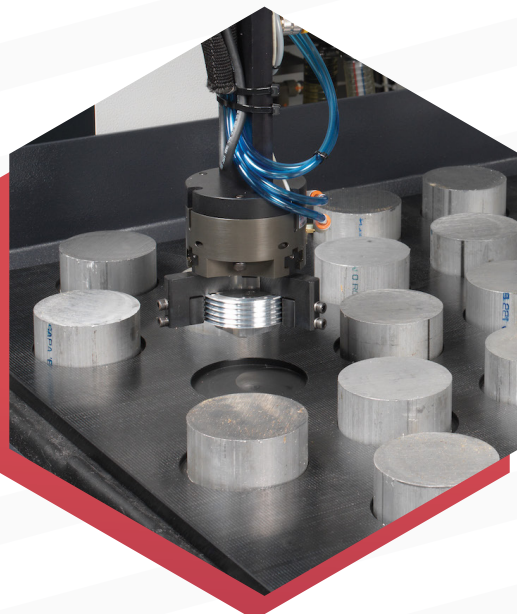


WELDING

Industries like transportation, construction, and industrial equipment manufacturing have great use for welding processes like arc welding. The last few years have seen a lot of improvements in welding technology, which have greatly benefitted these industries. A lot of this involves automation and robotics. Adaptive laser vision helps view the joint ahead of the weld electrode, which can identify and track the joint geometry before and during the welding process. Another technology making waves in welding is multi-pass adaptive fill technology.

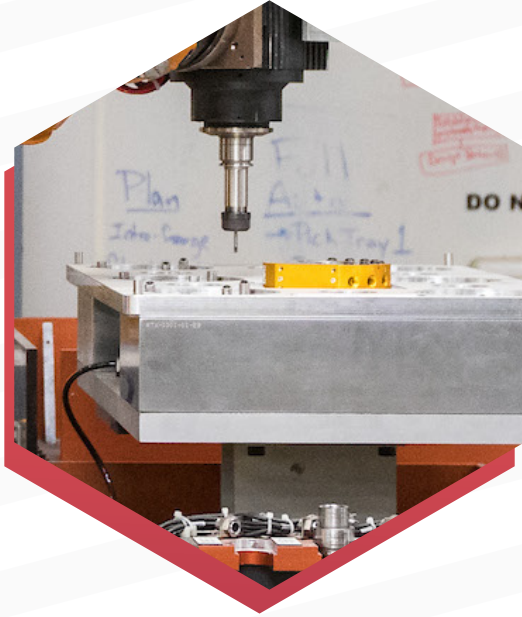
PAINTING

An automated paint application is an effective and time-saving process, which involves the use of several types of equipment like explosion-proof robot arms, spray applicator/bell, gear pumps, color change manifolds, solenoid valves, transducers and pressure regulators. Our line Of robot arms in various sizes ensures uniform and premium paint finish quality.



MACHINE TENDING

Reducing cycle time is an important factor in the process of machine tending. Our products do just that and offer greater automation flexibility. Our standard and custom machine tool Interfaces facilitate operator Interaction in the machine tending process. We also offer complete machine control and operator safety solutions for your machine tending challenges.



DEBURRING

Industries that involve tasks such as polishing, grinding, trimming, and cutting use automated deburring applications. This is a very complex process as it involves precise motion and positioning, and appropriate force control. Our software options aim to solve many of these challenges. Our products also come with feedback control to ascertain the right amount of force to be applied to the workpiece and material removal equipment. The complex motion requirements are met by multi-axis positioners. We also offer custom material removal solutions to suit your specific requirements.

POLISHING

Automating the polishing process using our robots has multiple benefits. For starters, it is faster than manual polishing and produces better-looking products. They are safer to use as it saves workers from the hazardous dust and fumes emanating during the polishing process. Last but not the least, it is a far more cost-effective method of polishing.



GRINDING

Grinding involves the removal of excess material from the surface of any machined products. A robotic grinder works far more efficiently than manual grinding as it maintains the uniformity of each grinded part. It is also a lot safer than the highly hazardous manual grinding process.





PRECAUTIONS TO ENSURE SAFETY

We strictly advise all persons involved in operation / service of the system, including MCI Robotics to follow all safety regulations at all times. It's highly recommended to read the manuals and other safety related documents carefully.

We would like to highlight that all products described in this catalogue are general industrial robots. Therefore, we request you to please contact us if you wish to use the robots for special purposes. which might endanger the operator or if the robot develops any problem. The photographs you see in this catalogue are taken after carefully removing safety fences and other safety devices that are stipulated in the safety regulations from the robot's operating system.

*Disclaimer: Images are used only for representation.
Materials and specifications are subject to change without notice.

MCI ROBOTICS

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