VELBOTT

INDUSTRIAL ROBOT

Heavy Duty

Continuous Working

Fast Operation

Experience the future of industrial automation as we revolutionize your operations, elevating your productivity, profitability, and competitive edge. Step into the world of Velbott, where excellence is automated, and your success knows no bounds.

VELBOTT

VELBOTT

Innovating Automation

www.indotara.co.id

Revolutionizing Industries

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INDUSTRIAL ROBOT

VBRH4-1A
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

INDUSTRIAL ROBOT

AXIS: 6

1410.5 MM
Maximum armspan

Power capacity
3.2 kVA

- The robot is mainly used for arc welding, with high reliability and excellent value for money. Its features are as follows:
- Hollow structural arms and wrists, built-in welding cable, able to operate welding procedure in narrow space, lightweight, compact structure.
- By installing protective cover, you can rest assured that it can be used in a variety of harsh environments (dust and drip).
- Large workspace, fast running speed, high repeat positioning accuracy, suitable for quality demanding welding applications.

Heavy Duty

Continuous Working

Fast Operation

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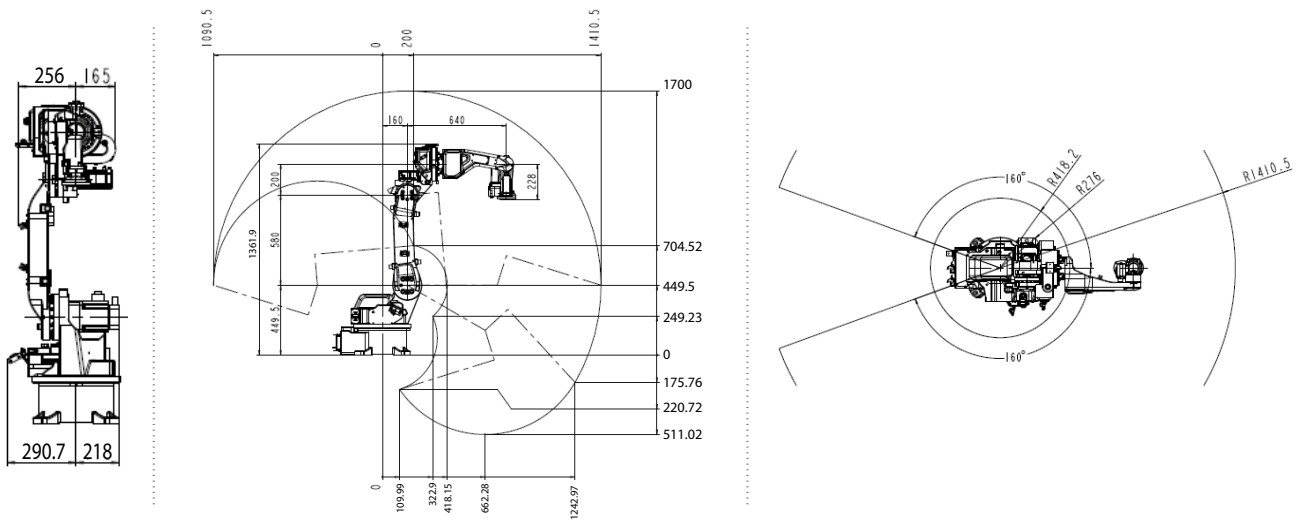
VBRH4-1A Technical Spesification

VELBOTT

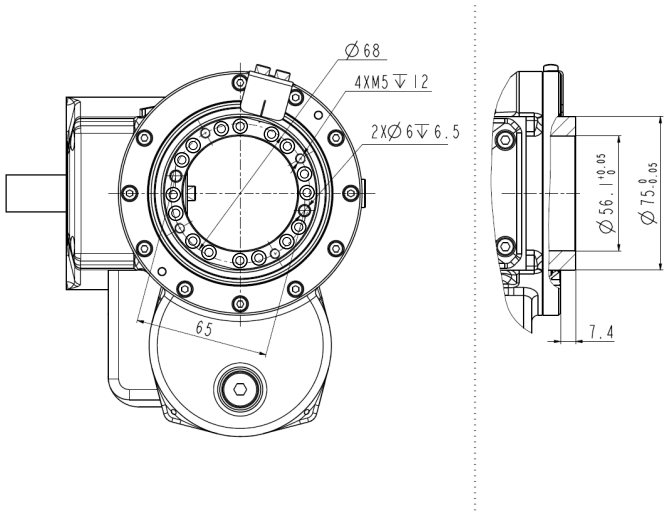
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	4 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1410.5 mm	
Protection Degree	IP30	
Robot Body Weight	150 kg	
Motion Range	**J1**	± 168°
	J2	+ 150°, -89°
	J3	+ 85°, -111°
	J4	± 167°
	J5	+ 58°, -217°
	J6	± 360°
Max Speed	**J1**	200°/s
	J2	200°/s
	J3	234°/s
	J4	349°/s
	J5	355°/s
	J6	481°/s

Allowable Torque	**J4**	10.51 N·m
	J5	10.51 N·m
	J6	2.94 N·m
Inertia Moment	**J4**	0.38 kg·m²
	J5	0.38 kg·m²
	J6	0.03 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.2 kVA	
Cabinet Size	580 * 650 * 960 mm	
Cabinet Weight	130 kg	
Source	Three-Phase Four-Wire AC380V +10% -10%	
Installation	Wall, Ceiling	

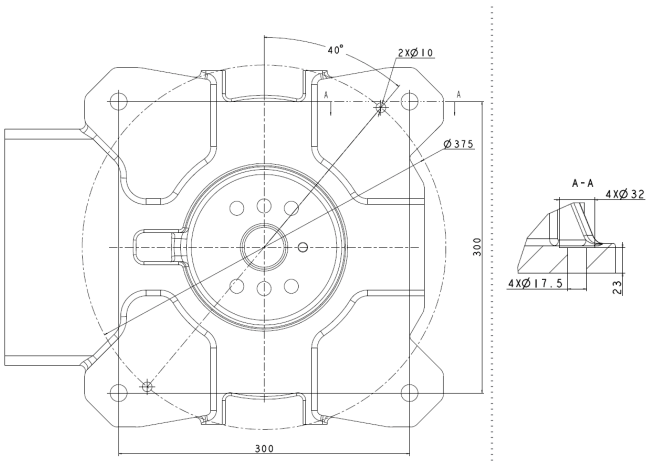
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6-1400H
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

1456 MM
Maximum armspan

Power capacity
2.6 kVA

- The robot is mainly used for arc welding, with high reliability and excellent value for money. Its features are as follows:
- Hollow structural arms and wrists, built-in welding cable, able to operate welding procedure in narrow space, lightweight, compact structure.
- By installing protective cover, you can rest assured that it can be used in a variety of harsh environments (dust and drip).
- Large workspace, fast running speed, high repeat positioning accuracy, suitable for quality demanding welding applications.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

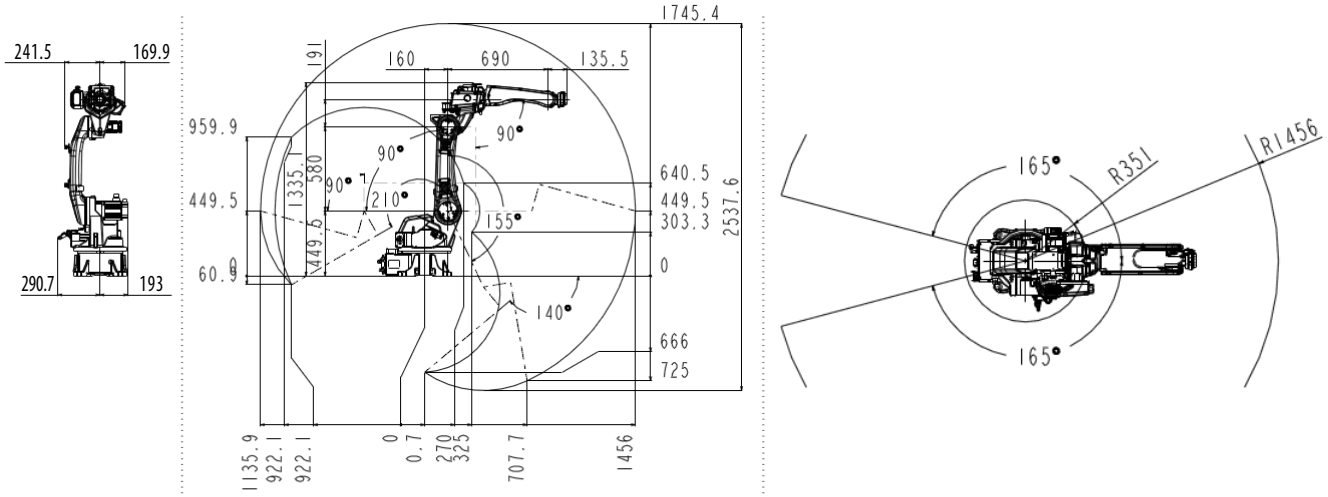
VBR6-1400H Technical Spesification

VELBOTT

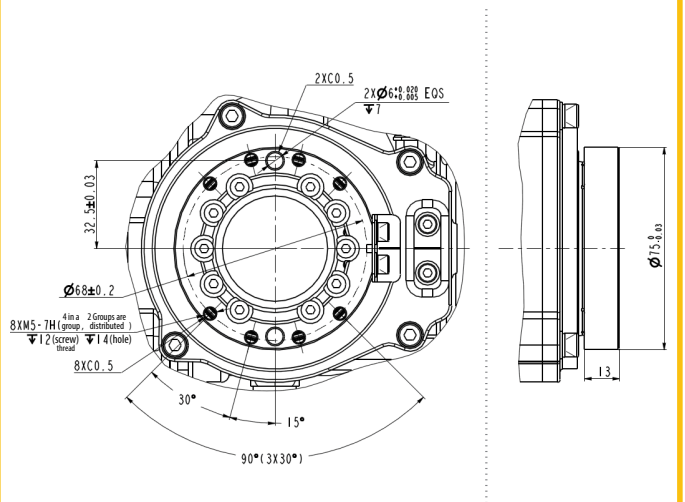
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	6 kg	
Repeat Positioning	± 0.08 mm	
Max Armspan	1456 mm	
Protection Degree	IP30	
Robot Body Weight	150 kg	
Motion Range	J1	± 168°
	J2	+ 159°, -97°
	J3	+ 95°, -125°
	J4	± 183°
	J5	+ 129°, -126°
	J6	± 360°
Max Speed	J1	240°/s
	J2	240°/s
	J3	240°/s
	J4	378°/s
	J5	320°/s
	J6	947°/s

Allowable Torque	J4	28 N·m
	J5	14.4 N·m
	J6	5 N·m
Inertia Moment	J4	1.2 kg·m²
	J5	0.8 kg·m²
	J6	0.1 kg·m²
Installation Environtment	TEMP	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	2.6 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-Phase AC220V +10% -10%	
Installation	Wall, Ceiling	

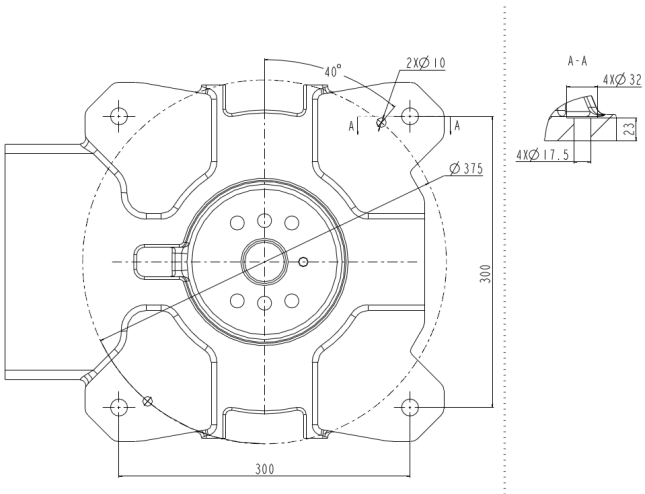
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6-2000H
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2014 MM
Maximum armspan

Power capacity
3.4 kVA

- Enhanced reducer with large reduction ratio design, better control the accuracy;
- 4th axis hollow structure used double angular contact bearings to replace the traditional structure. Improve joint supported rigidity;
- 4, 6 axis with special gear clearance adjustment structure, higher joint precision;
- The wrist is changed into a U-shaped structure to improve the stiffness;

With the above characteristics, the motion stability of the lengthened welding robot is greatly optimized;

- The wrist is shortened to improve flexibility;
- Special wrist noise reduction structure, lower running noise;
- New appearance with new spray painting process, excellent sensory effect.

Heavy Duty

Continuous Working

Fast Operation

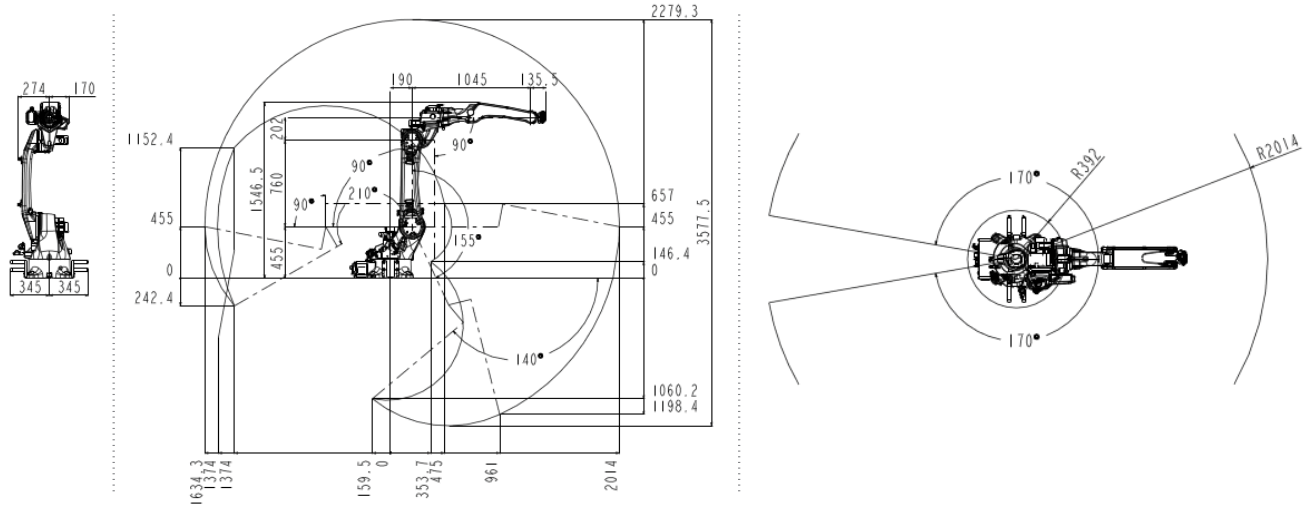
VBR6-2000H Technical Spesification

VELBOTT

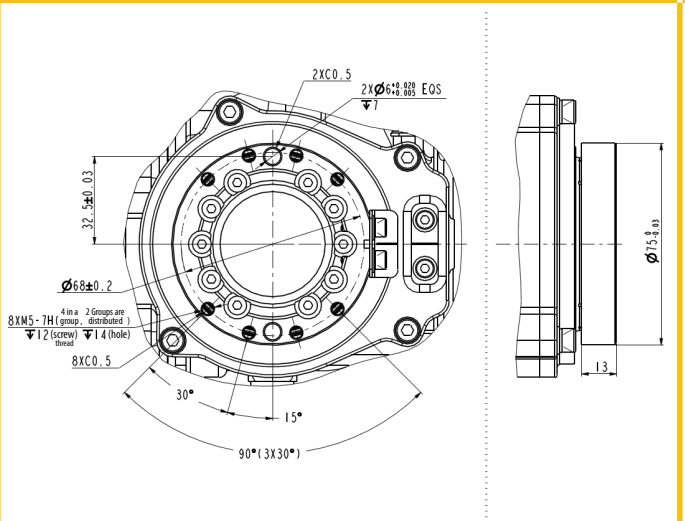
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	6 kg	
Repeat Positioning	± 0.08 mm	
Max Armspan	2014 mm	
Protection Degree	IP30	
Robot Body Weight	230 kg	
Motion Range	**J1**	± 175°
	J2	+ 159°, -95°
	J3	+ 95°, -125°
	J4	± 183°
	J5	+ 129°, -126°
	J6	± 360°
Max Speed	**J1**	189°/s
	J2	189°/s
	J3	189°/s
	J4	360°/s
	J5	320°/s
	J6	974°/s

Allowable Torque	**J4**	28 N·m
	J5	14.4 N·m
	J6	5 N·m
Inertia Moment	**J4**	1.2 kg·m²
	J5	0.8 kg·m²
	J6	0.1 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.4 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V +10% -10%	
Installation	Wall, Ceiling	

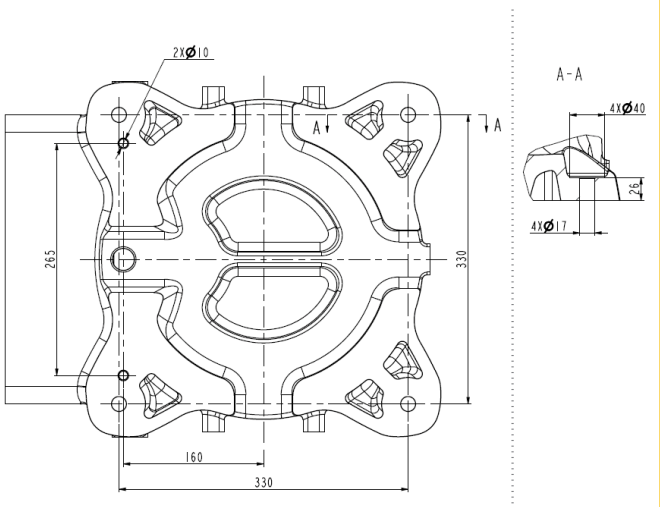
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6S-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

750.6 MM
Maximum armspan

Power capacity
1.4 kVA

The overall system architecture of the robot is compact, lightweight, large workspace, fast response, high repeat positioning accuracy, applicable to assembly, sorting, handling, loading and unloading applications.

- **Heavy Duty**
- **Continuous Working**
- **Fast Operation**

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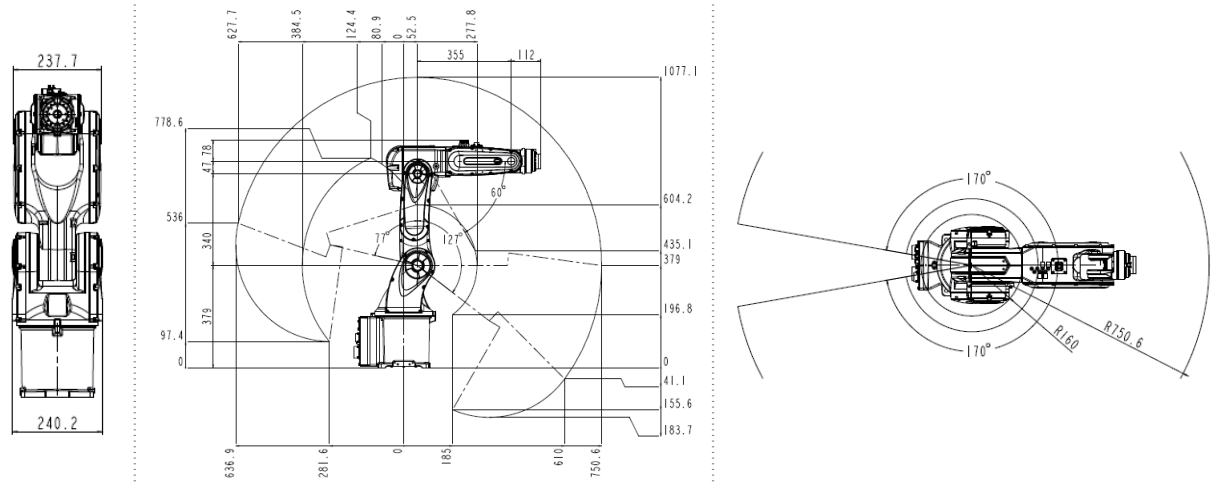
VBR6S-1 Technical Spesification

VELBOTT

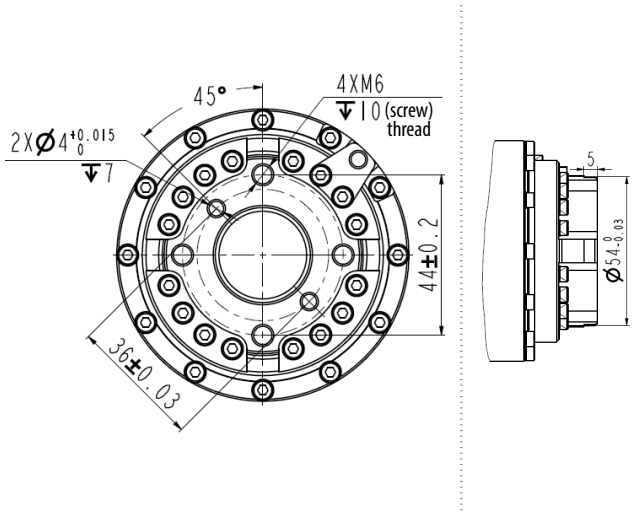
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	3/6 kg	
Repeat Positioning	± 0.03 mm	
Max Armspan	750.6 mm	
Protection Degree	IP65	
Robot Body Weight	39 kg	
Motion Range	J1	± 172°
	J2	+ 132°, -82°
	J3	+ 65°, -190°
	J4	± 172°
	J5	± 120°
	J6	± 360°
Max Speed	J1	366°/s
	J2	343°/s
	J3	366°/s
	J4	372°/s
	J5	475°/s
	J6	658°/s

Allowable Torque	J4	11 N·m
	J5	11 N·m
	J6	5.3 N·m
Inertia Moment	J4	0.5 kg·m²
	J5	0.5 kg·m²
	J6	0.2 kg·m²
Installation Environtment	TEMP	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	1.4 kVA	
Cabinet Size	610 * 270 * 433 mm	
Cabinet Weight	35 kg	
Source	One-Phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall, Ceiling	

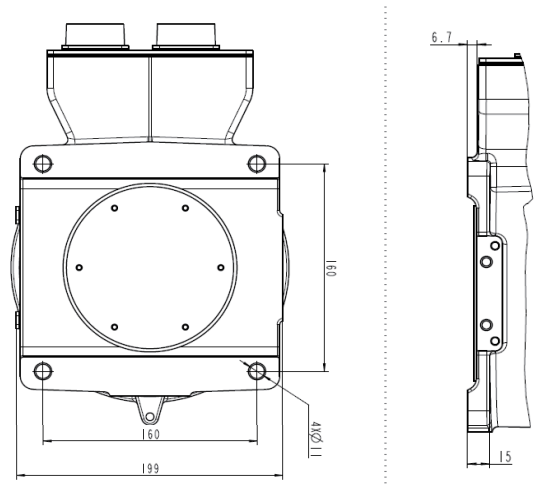
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

1441 MM
Maximum armspan

Power capacity
2.9 kVA

- Just a few hours of installing, teaching, debugging, the robot can be quickly put into daily production.
- The design is highly compact, flexible installation with ground or inverse position.
- Large workspace, fast running speed, high repeat positioning accuracy, suitable for welding, spraying, loading and unloading-handling, sorting, assembly and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

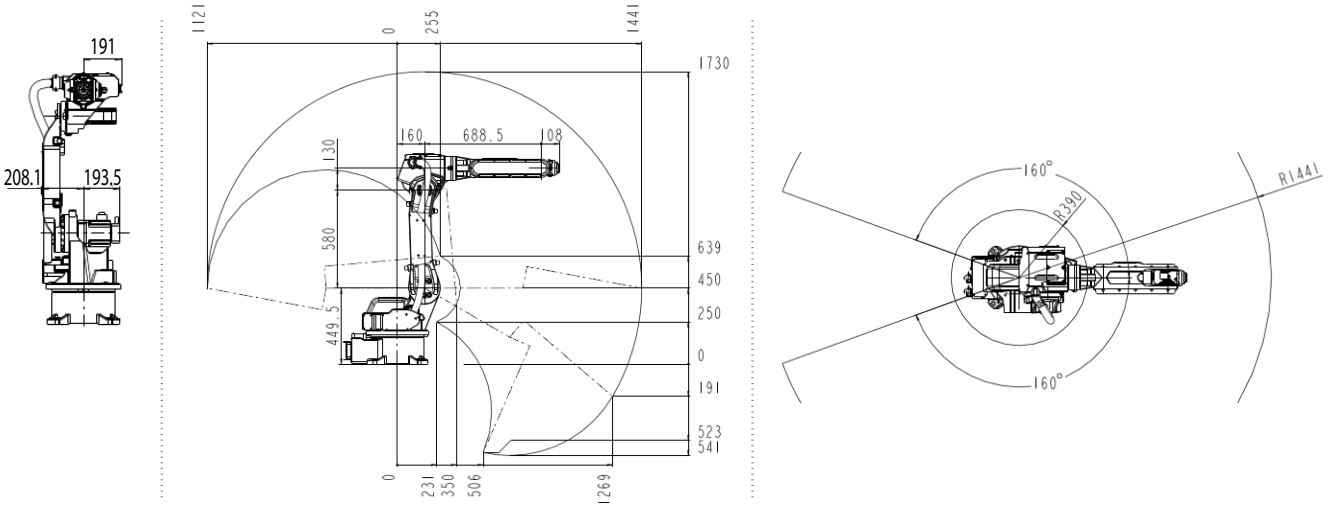
www.indotara.co.id

VBR6-1 Technical Spesification

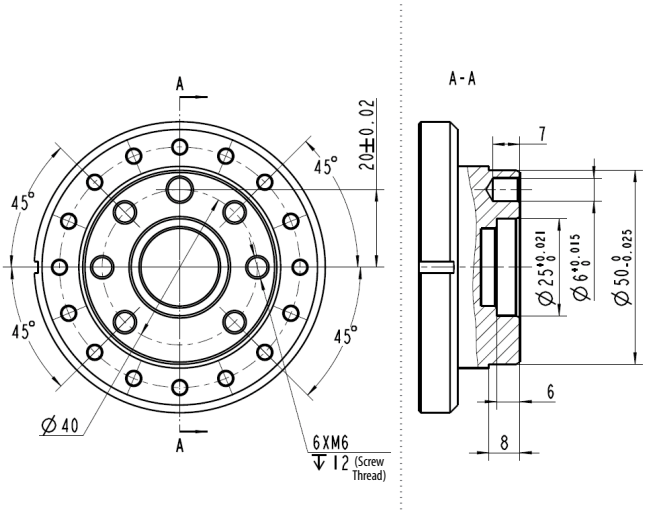
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	6 kg	
Repeat Positioning	± 0.03 mm	
Max Armspan	1441 mm	
Protection Degree	IP30	
Robot Body Weight	170 kg	
Motion Range	**J1**	± 168°
	J2	+ 150°, -89°
	J3	+ 87°, -111°
	J4	± 170°
	J5	± 125°
	J6	± 360°
Max Speed	**J1**	200°/s
	J2	177°/s
	J3	200°/s
	J4	429°/s
	J5	429°/s
	J6	601°/s

Allowable Torque	**J4**	28 N·m
	J5	28 N·m
	J6	26.4 N·m
Inertia Moment	**J4**	1.1 kg·m²
	J5	1 kg·m²
	J6	0.7 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	2.9 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall, Ceiling	

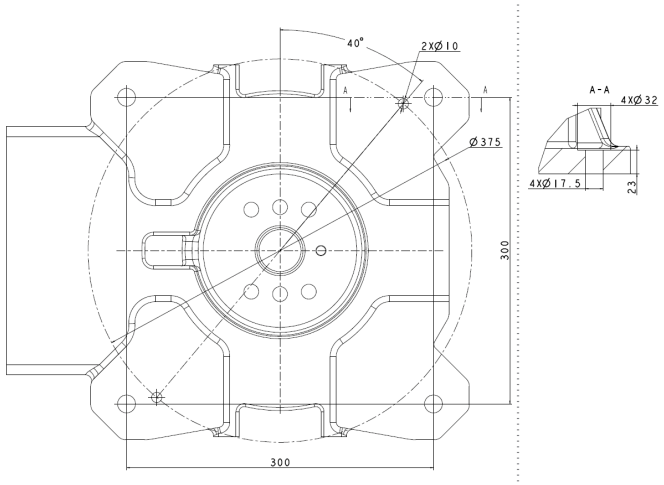
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6-3
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2001 MM
Maximum armspan

Power capacity
3.2 kVA

- The mechanical structure is simple and compact. You can select ground or inverse installation.
- The robot reach is nearly 2 meters. Large working space, suitable for large products in the welding operation.
- Fast running speed, high repeat positioning accuracy, suitable for welding, loading and unloading, handling, assembly and other applications.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

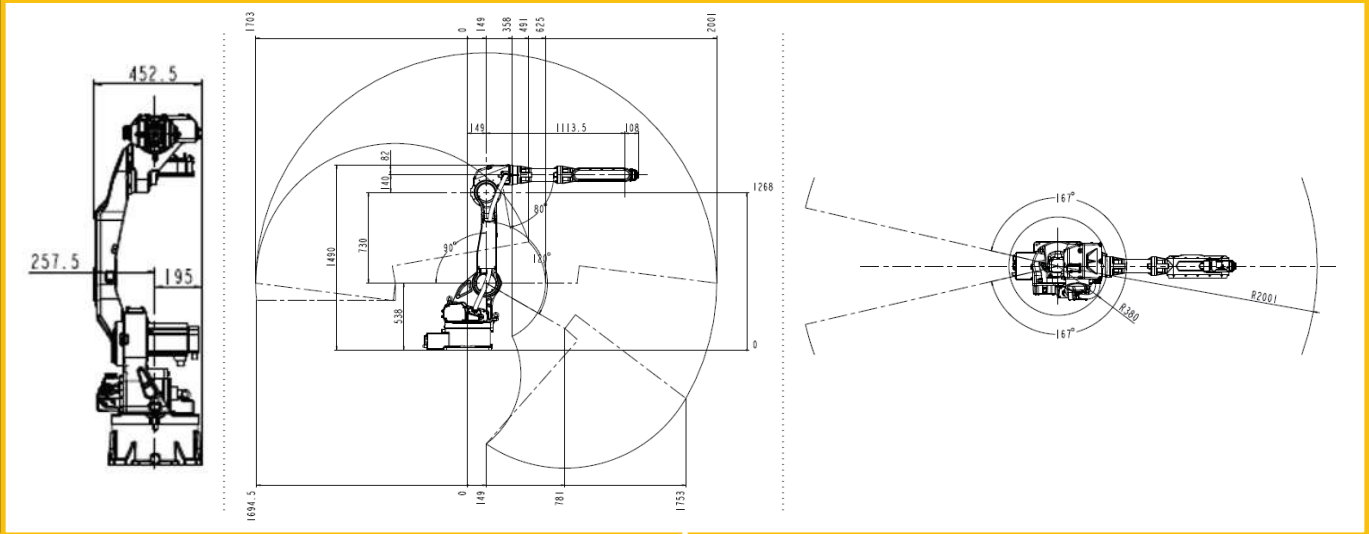
VBR6-3 Technical Spesification

VELBOTT

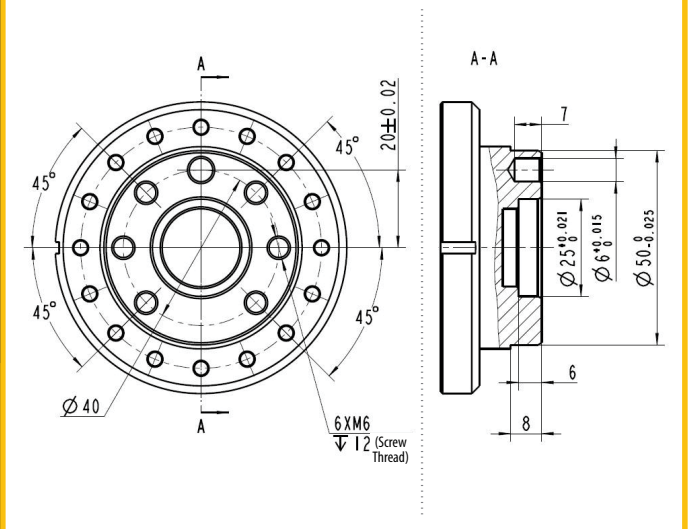
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	6 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	2001 mm	
Protection Degree	IP30	
Robot Body Weight	225 kg	
Motion Range	**J1**	± 172°
	J2	+ 166°, -100°
	J3	+ 83°, -92°
	J4	± 170°
	J5	± 125°
	J6	± 360°
Max Speed	**J1**	171°/s
	J2	171°/s
	J3	189°/s
	J4	429°/s
	J5	446°/s
	J6	572°/s

Allowable Torque	**J4**	28 N·m
	J5	28 N·m
	J6	26.4 N·m
Inertia Moment	**J4**	1.1 kg·m²
	J5	1 kg·m²
	J6	0.7 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.2 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall, Ceiling	

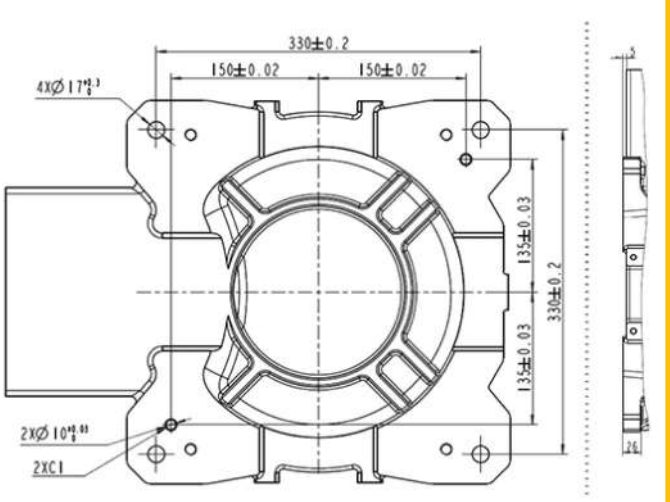
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR10-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

1671 MM
Maximum armspan

Power capacity
3.2 kVA

- Payload 10kg, reach distance of 1.67 meters, the design is highly compact, flexible installation with ground or inverse position.
- Large workspace, high running speed, high repeat positioning accuracy, suitable for welding, spraying, loading and unloading, handling, sorting, assembly and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

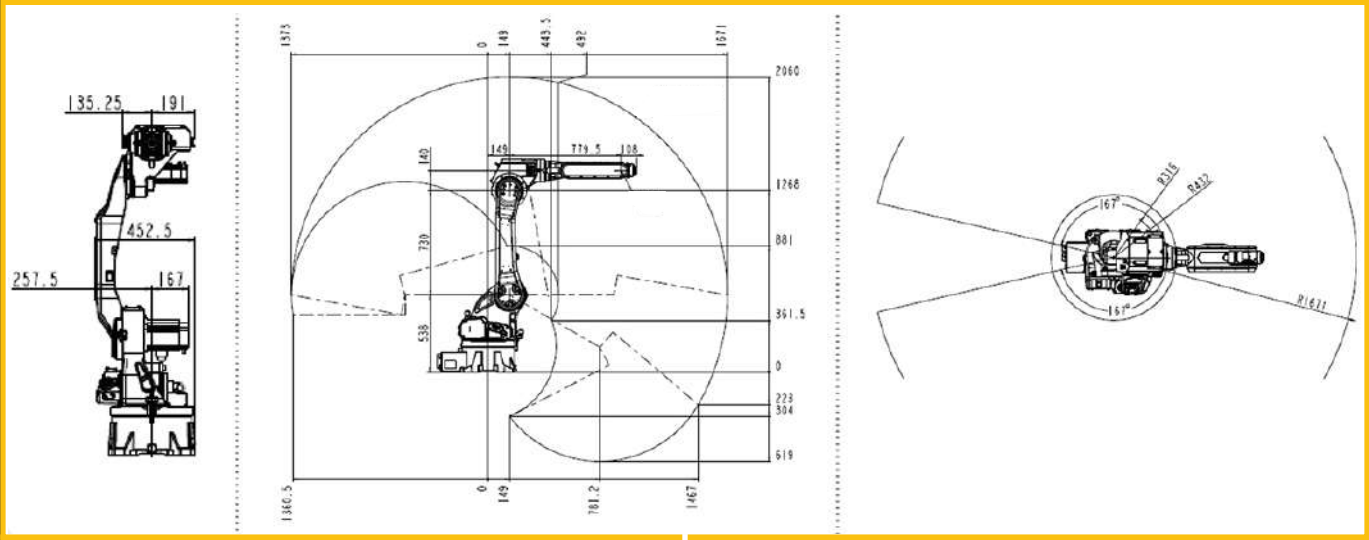
www.indotara.co.id

VBR10-1 Technical Spesification

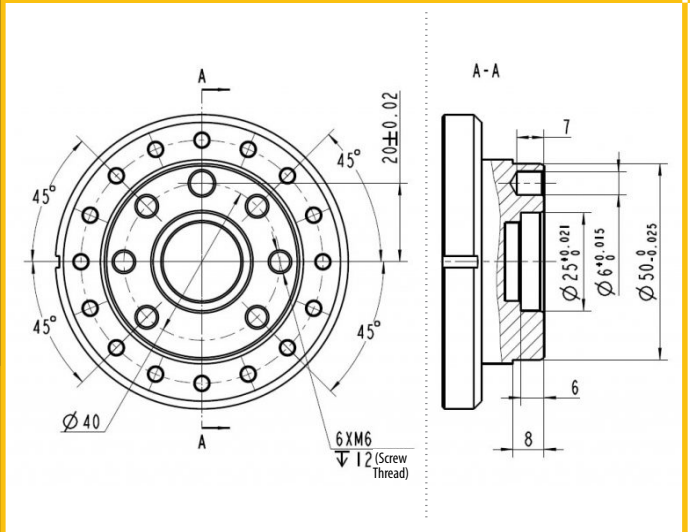
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	10 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1671 mm	
Protection Degree	IP30	
Robot Body Weight	220 kg	
Motion Range	**J1**	± 172°
	J2	+ 166°, -100°
	J3	+ 83°, -92°
	J4	± 170°
	J5	± 125°
	J6	± 360°
Max Speed	**J1**	171°/s
	J2	171°/s
	J3	183°/s
	J4	429°/s
	J5	429°/s
	J6	584°/s

Allowable Torque	**J4**	28 N·m
	J5	28 N·m
	J6	26.4 N·m
Inertia Moment	**J4**	1.1 kg·m²
	J5	1 kg·m²
	J6	0.7 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.2 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V +10% -10%	
Installation	Wall, Ceiling	

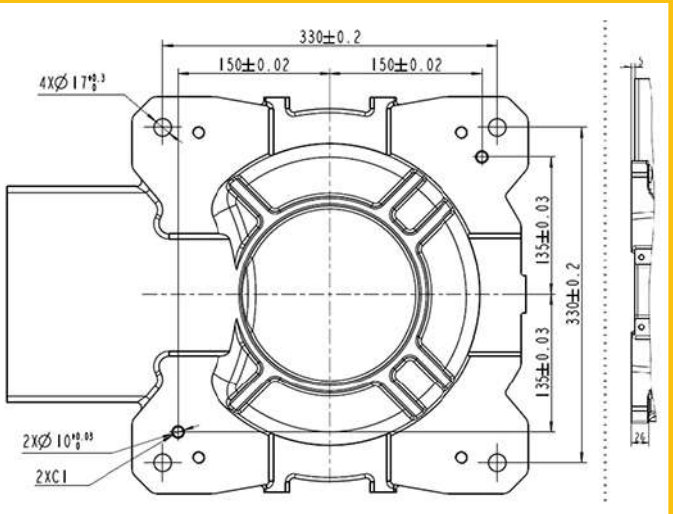
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR10-2000
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2001 MM
Maximum armspan

Power capacity
3.7 kVA

- New exterior design.
- Overall high rigidity structure design, improve accuracy retention;
- Fully closer structure, IP65 protection degree;
- With high-temperature resistance and abrasion resistance pipeline protection.
- Use corrosion resistant screws and exposed accessories.
- The whole machine is resistant to high temperature coating, & it should be used in humid & high temperature environment.

Heavy Duty

Continuous Working

Fast Operation

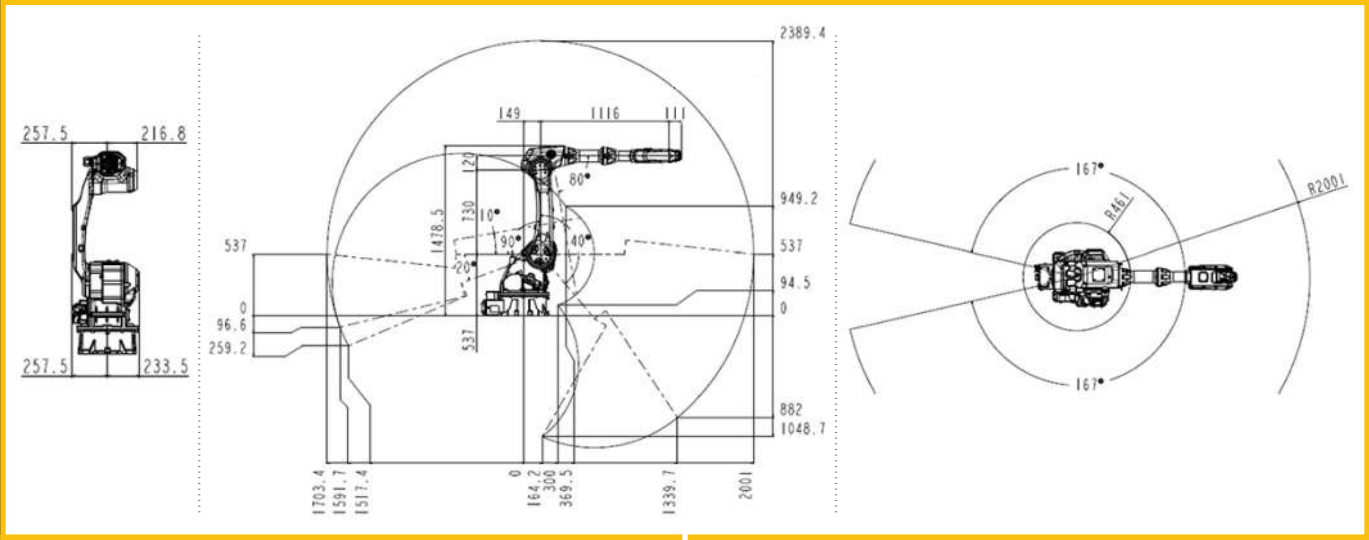
www.indotara.co.id

VBR10-2000 Technical Spesification

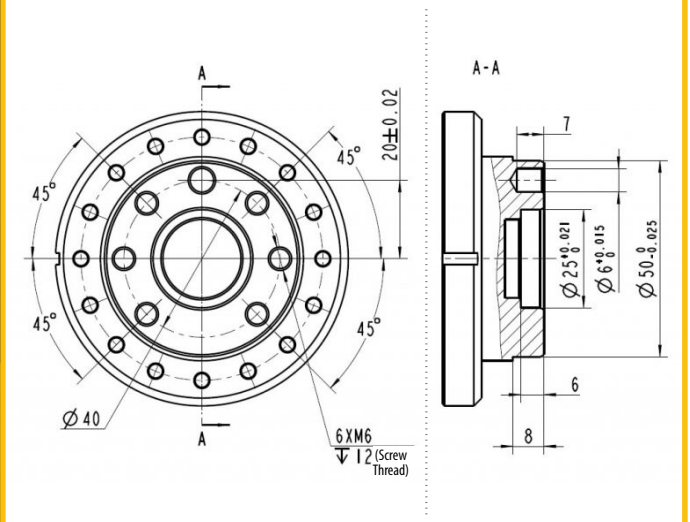
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	10 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	2001 mm	
Protection Degree	IP65	
Robot Body Weight	275 kg	
Motion Range	**J1**	± 172°
	J2	+ 147°, -115°
	J3	+ 83°, -98°
	J4	± 167°
	J5	± 115°
	J6	± 360°
Max Speed	**J1**	154°/s
	J2	154°/s
	J3	171°/s
	J4	401°/s
	J5	515°/s
	J6	658°/s

Allowable Torque	**J4**	28 N·m
	J5	28 N·m
	J6	26.4 N·m
Inertia Moment	**J4**	1.1 kg·m²
	J5	1 kg·m²
	J6	0.7 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.7 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall, Ceiling	

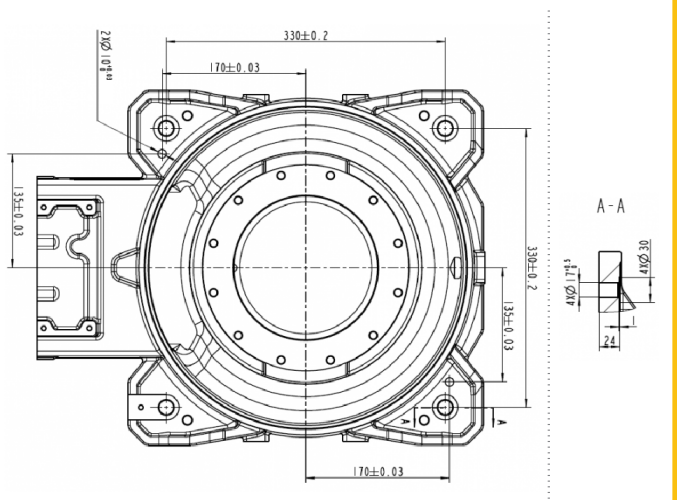
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR20-1600
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

EXPLOSION PROOF

AXIS: 6

1668 MM
Maximum armspan

Power capacity
3.7 kVA

- Through the optimization of the structure of the vertical multi-joint robot, it has a simple and compact mechanical structure.
- High running speed, high repeat positioning accuracy, suitable for palletizing, handling, loading and unloading, laser cutting, spraying, polishing, and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

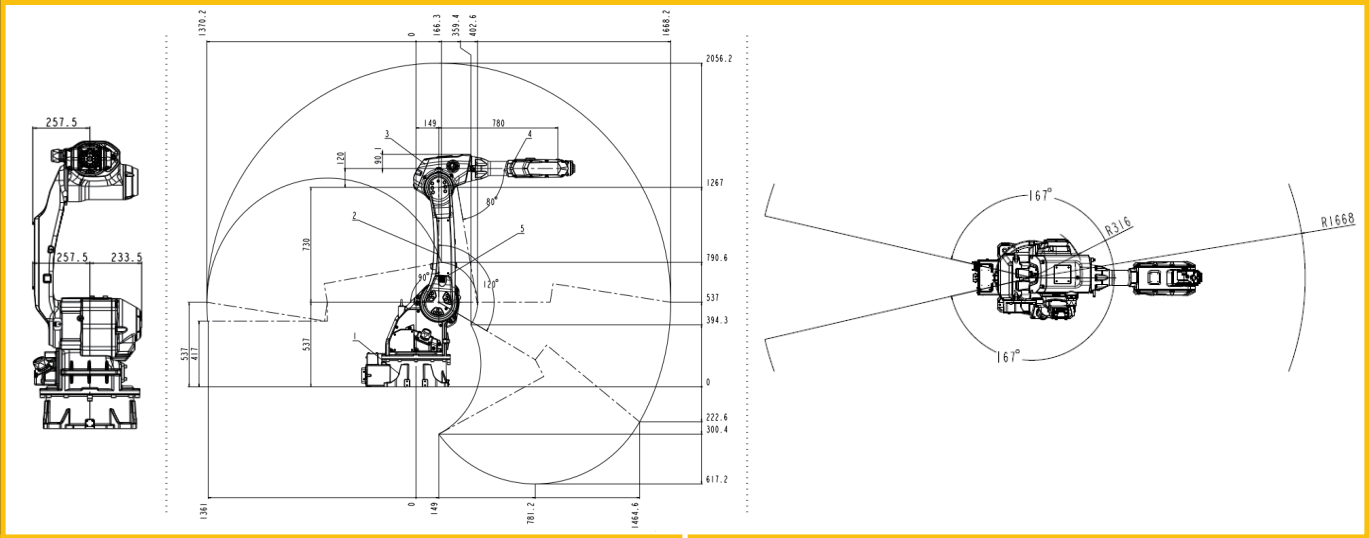
www.indotara.co.id

VBR20-1600 Technical Spesification

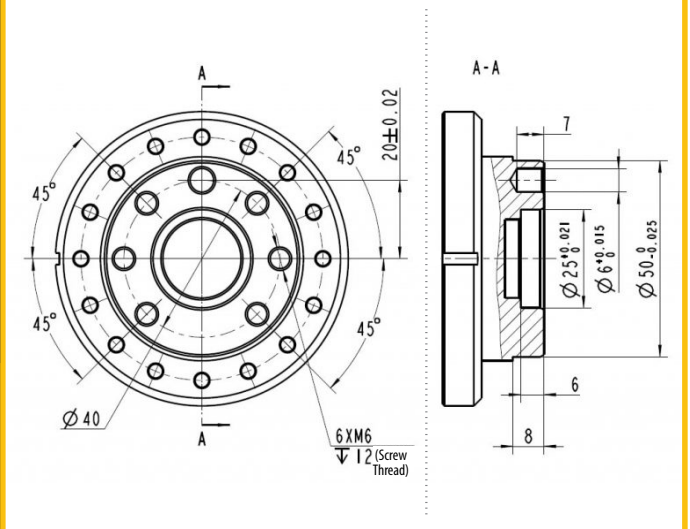
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	20 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1668 mm	
Protection Degree	IP65, ExdpxIIBT4Gb	
Robot Body Weight	270 kg	
Motion Range	**J1**	± 172°
	J2	+ 147°, -115°
	J3	+ 83°, -98°
	J4	± 167°
	J5	± 115°
	J6	± 360°
Max Speed	**J1**	154°/s
	J2	154°/s
	J3	171°/s
	J4	355°/s
	J5	355°/s
	J6	355°/s

Allowable Torque	**J4**	45 N·m
	J5	45 N·m
	J6	40 N·m
Inertia Moment	**J4**	3.5 kg·m²
	J5	3.5 kg·m²
	J6	2.5 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.7 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V +10% -10%	
Installation	Wall, Ceiling	

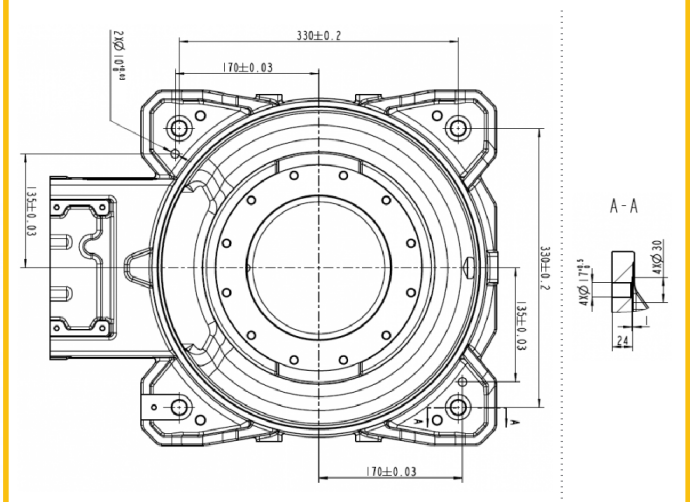
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR20-1600T2
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

EXPLOSION PROOF

AXIS: 6

1668 MM
Maximum armspan

Power capacity
3.7 kVA

- Through the optimization of the structure of the vertical multi-joint robot, it has a simple and compact mechanical structure.
- High running speed, high repeat positioning accuracy, suitable for palletizing, handling, loading and unloading, laser cutting, spraying, polishing, and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

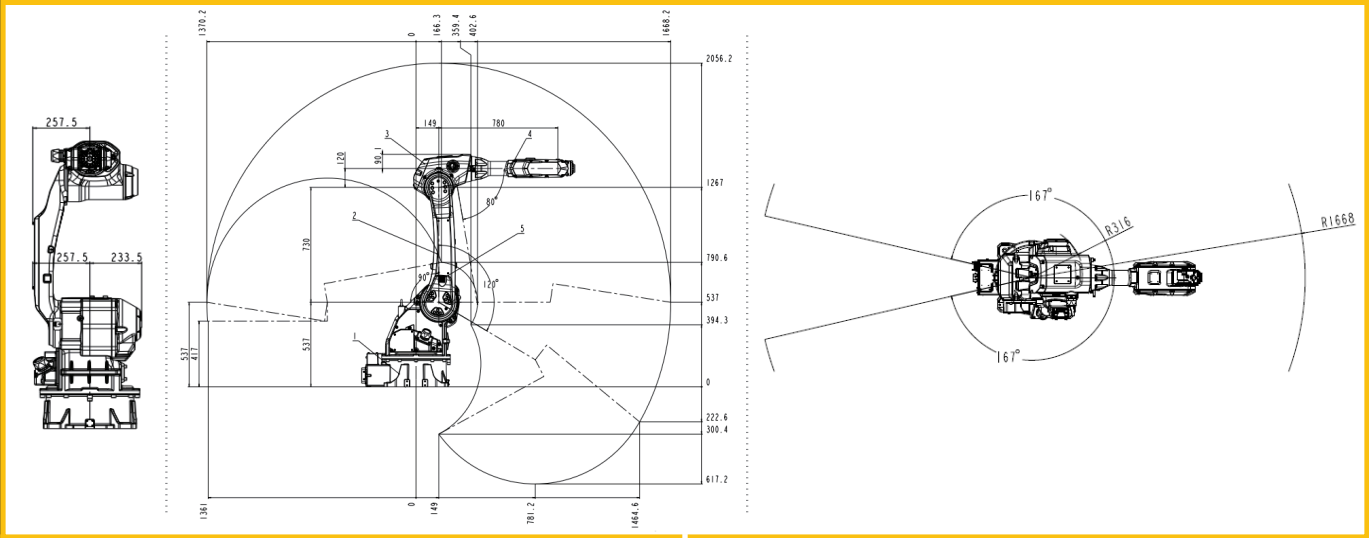
VBR20-1600T2 Technical Spesification

VELBOTT

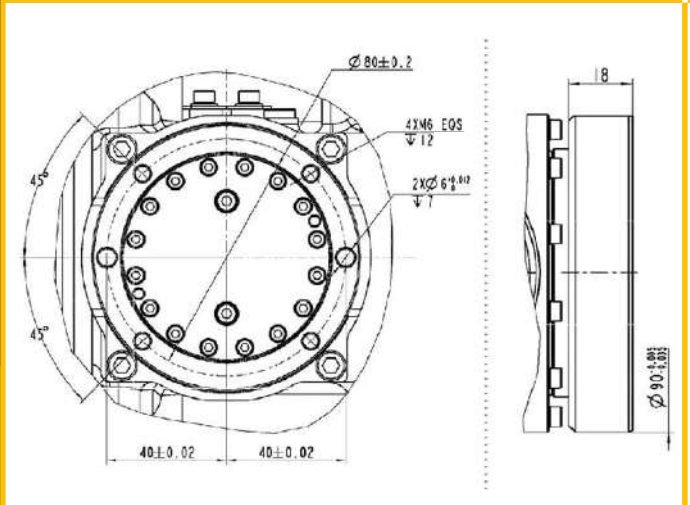
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	30 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1668 mm	
Protection Degree	IP65, ExdpxIIBT4Gb	
Robot Body Weight	270 kg	
Motion Range	**J1**	± 172°
	J2	+ 147°, -115°
	J3	+ 83°, -98°
	J4	± 185°
	J5	± 126°
	J6	± 360°
Max Speed	**J1**	172°/s
	J2	177°/s
	J3	189°/s
	J4	429°/s
	J5	412°/s
	J6	429°/s

Allowable Torque	**J4**	83.3 N·m
	J5	43.3 N·m
	J6	37.4 N·m
Inertia Moment	**J4**	
	J5	
	J6	
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	3.7 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V +10% -10%	
Installation	Wall, Ceiling	

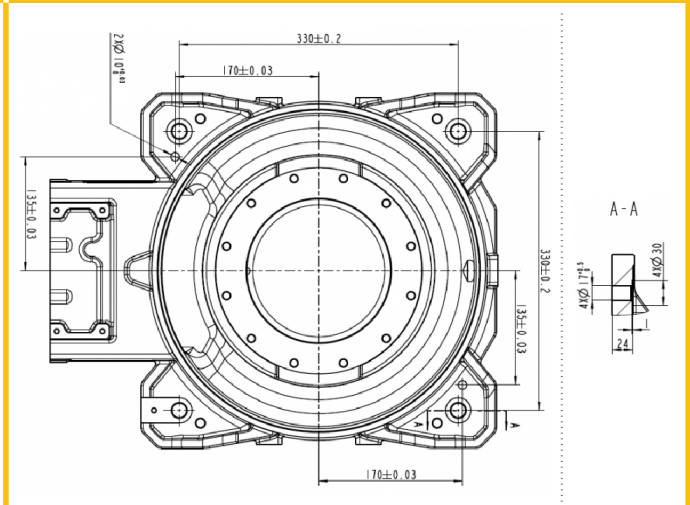
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR50-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2012.4 MM
Maximum armspan

Power capacity
14.5 kVA

- Payload 50kg, reach distance of 2 meters, the design is highly compact.
- Large workspace, high running speed, high repeat positioning accuracy, suitable for welding, deburring, loading and unloading, handling, sorting, assembly and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

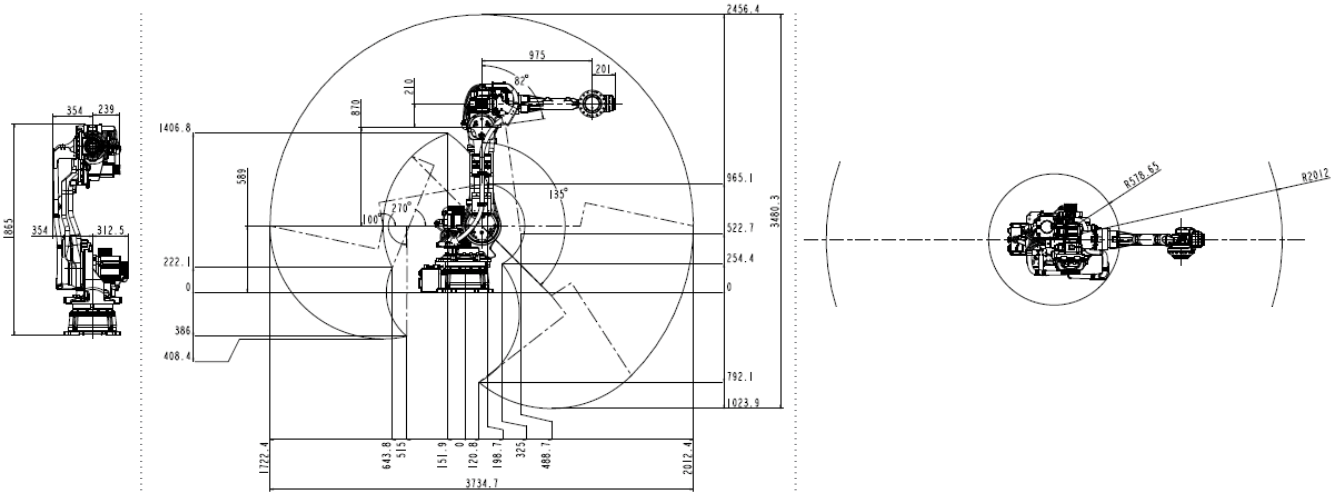
VBR50-1 Technical Spesification

VELBOTT

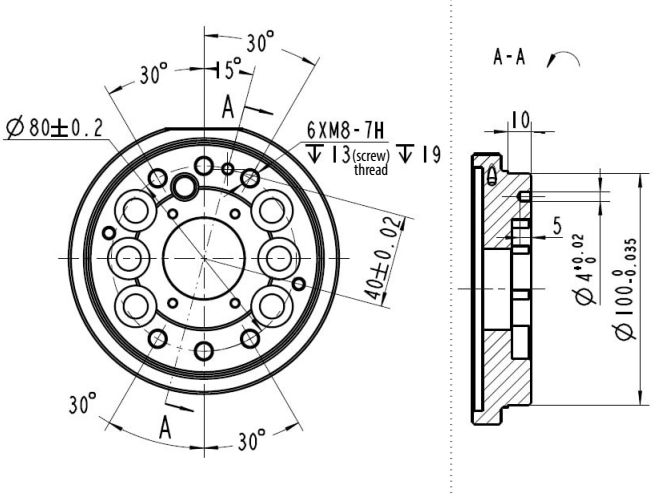
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	50 kg	
Repeat Positioning	± 0.07 mm	
Max Armspan	2012.4 mm	
Protection Degree	IP30	
Robot Body Weight	580 kg	
Motion Range	**J1**	± 180°
	J2	+ 135°, -90°
	J3	+ 82°, -205°
	J4	± 360°
	J5	± 120°
	J6	± 360°
Max Speed	**J1**	154°/s
	J2	120°/s
	J3	154°/s
	J4	249°/s
	J5	249°/s
	J6	349°/s

Allowable Torque	**J4**	245 N·m
	J5	245 N·m
	J6	147 N·m
Inertia Moment	**J4**	12.5 kg·m²
	J5	12.5 kg·m²
	J6	4.5 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	14.5 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Four-Wire AC380V $^{+10\%}_{-10\%}$	
Installation	Wall, Ceiling	

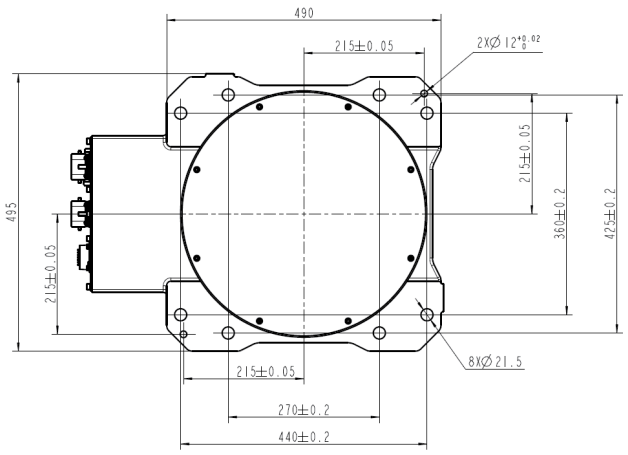
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR70-2000
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2012 MM
Maximum armspan

Power capacity
20.1 kVA

- Compared with the conventional 50kg load robot, when the joint speed is the same, the payload is increased from 50kg to 70kg.
- The overall high stiffness structure design reduces the deformation under pressure.
- Large range J3 axis design can realize overtuning action.
- The electrical connection parts shall be closed, and the overall electrical appliance shall have IP65 protection grade.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

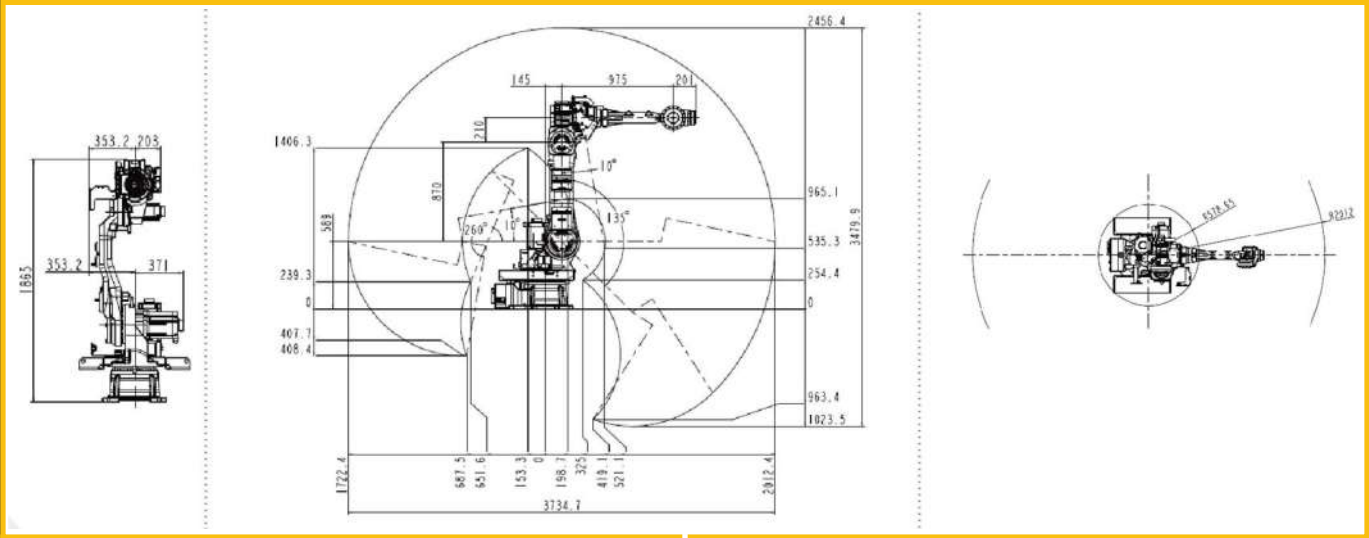
VBR70-2000 Technical Spesification

VELBOTT

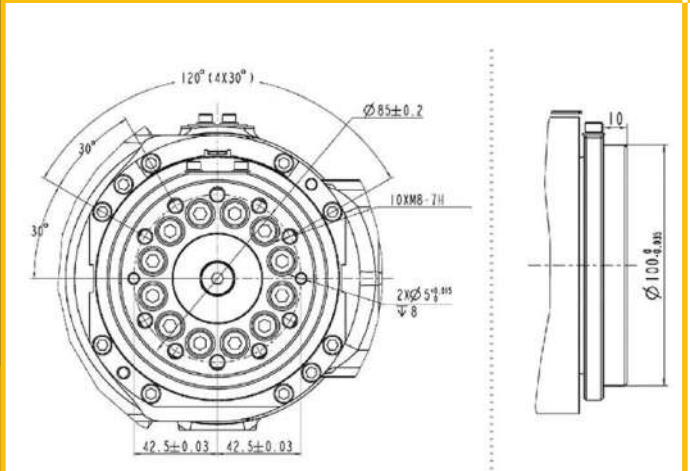
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	70 kg	
Repeat Positioning	± 0.07 mm	
Max Armspan	2012 mm	
Protection Degree	IP65	
Robot Body Weight	590 kg	
Motion Range	**J1**	± 180°
	J2	+ 140°, -91°
	J3	+ 82°, -208°
	J4	± 360°
	J5	± 120°
	J6	± 360°
Max Speed	**J1**	171°/s
	J2	143°/s
	J3	154°/s
	J4	200°/s
	J5	252°/s
	J6	389°/s

Allowable Torque	**J4**	354 N·m
	J5	354 N·m
	J6	205 N·m
Inertia Moment	**J4**	28 kg·m²
	J5	28 kg·m²
	J6	13 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	20.1 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Four-Wire AC380V +10% -10%	
Installation	Wall, Ceiling	

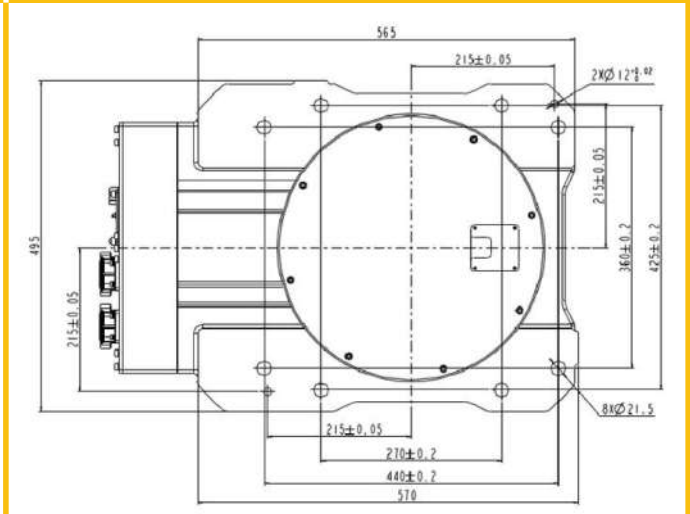
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR210-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 6

2683.4 MM
Maximum armspan

Power capacity
25.9 kVA

- Payload 210kg, reach distance of 2.68 meters, the design is highly compact.
- Large workspace, high running speed, high repeat positioning accuracy, suitable for welding, palletizing, loading and unloading, handling, polishing, assembly and other wide range of applications.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

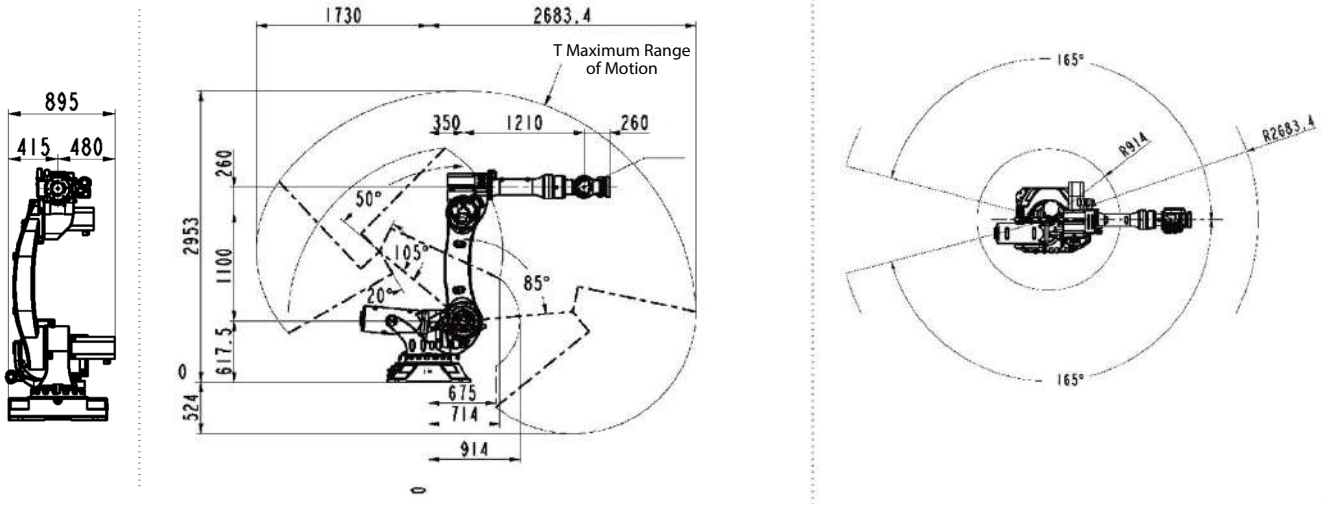
VBR210-1 Technical Spesification

VELBOTT

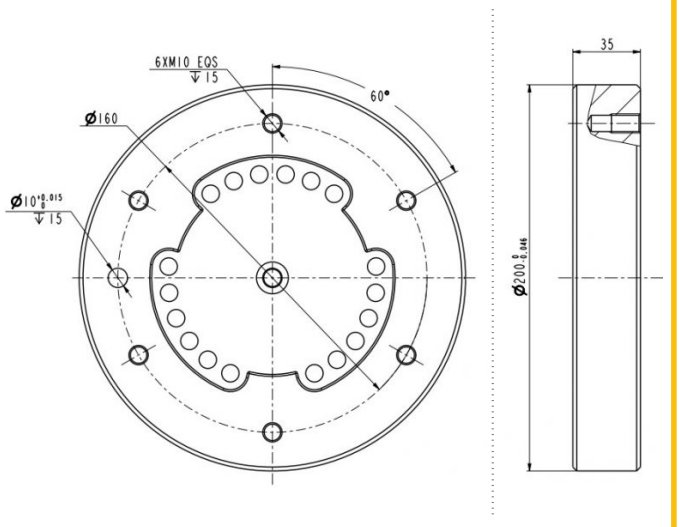
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	210 kg	
Repeat Positioning	± 0.2 mm	
Max Armspan	2683.4 mm	
Protection Degree	IP65	
Robot Body Weight	1200 kg	
Motion Range	**J1**	± 167°
	J2	+ 86°, -51°
	J3	+ 82°, -168°
	J4	± 360°
	J5	± 121°
	J6	± 360°
Max Speed	**J1**	82.2°/s
	J2	68.8°/s
	J3	80.2°/s
	J4	183°/s
	J5	171.9°/s
	J6	257.8°/s

Allowable Torque	**J4**	1200 N·m
	J5	1200 N·m
	J6	650 N·m
Inertia Moment	**J4**	84 kg·m²
	J5	84 kg·m²
	J6	55 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	25.9 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Five-Wire AC380V +10% -10%	
Installation	Wall	

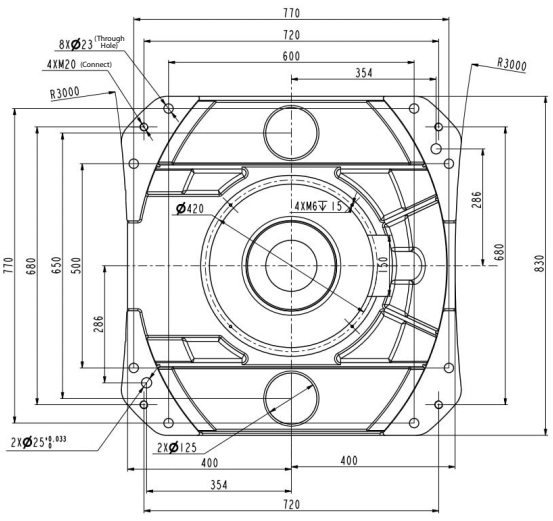
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBRB15-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 4

1510 MM
Maximum armspan

Power capacity
2.7 kVA

- High-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software;
- Widely used in intelligent manufacturing industry such as furniture, food and beverage and 3C, applicable to high-speed & high-precision palletizing, picking, packaging, handling, feeding and unloading.

Heavy Duty

Continuous Working

Fast Operation

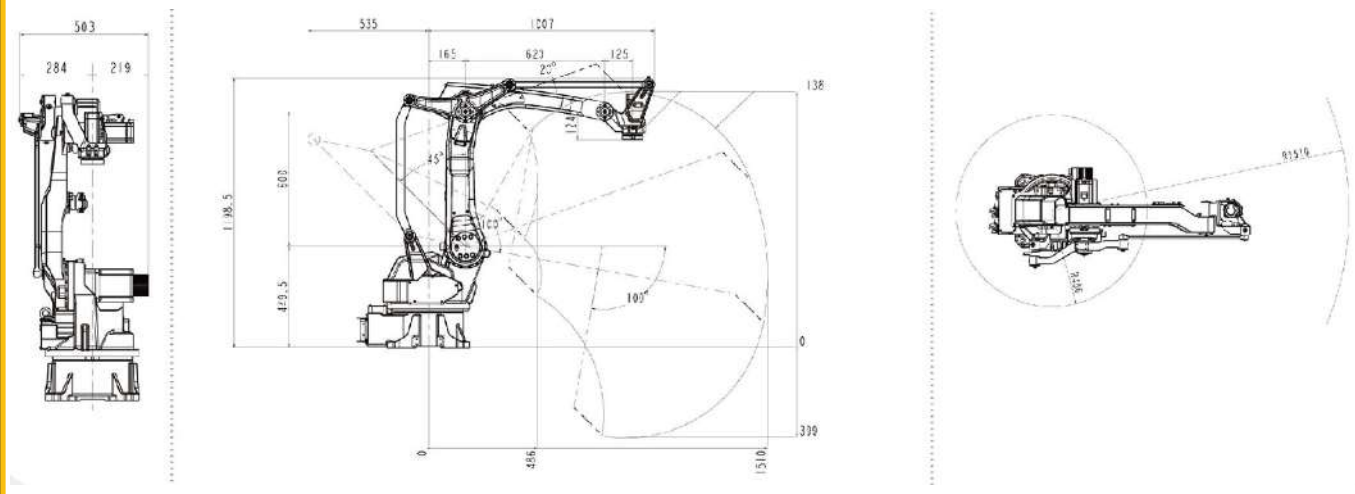
VBRB15-1 Technical Spesification

VELBOTT

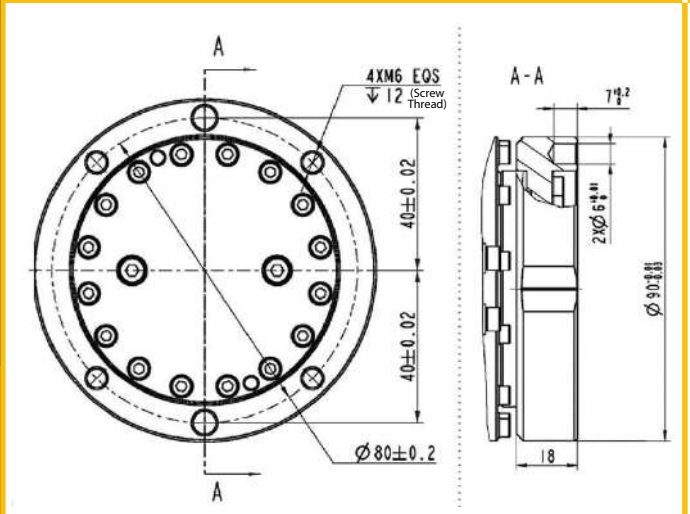
Mechanism	Vertical Multi-Joint Robot	
Axis Number	4	
Payload	15 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1510 mm	
Protection Degree	IP30 / IP65	
Robot Body Weight	160 kg	
Motion Range	**J1**	± 168°
	J2	+ 97°, -50°
	J3	+ 105°, -25°
	J4	± 360°
Max Speed	**J1**	211°/s
	J2	211°/s
	J3	240°/s
	J4	572°/s

Inertia Moment	**J4**	0.6 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	2.5 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall	

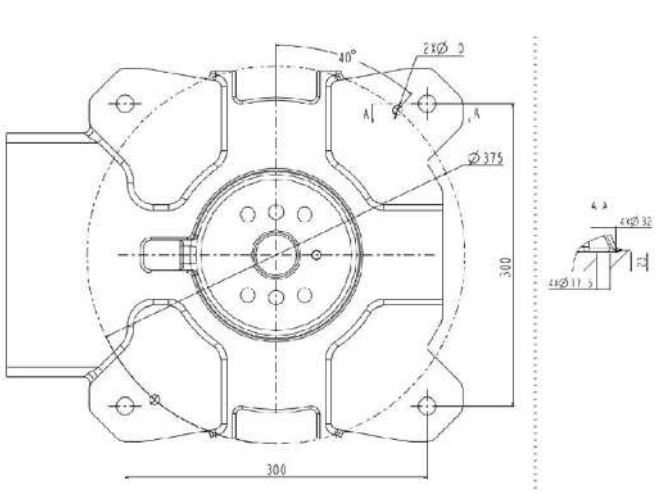
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBRB30-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 4

1820 MM
Maximum armspan

Power capacity
2.9 kVA

- High-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software;
- Widely used in intelligent manufacturing industry such as furniture, food and beverage and 3C, applicable to high-speed & high-precision palletizing, picking, packaging, handling, feeding and unloading.

Heavy Duty

Continuous Working

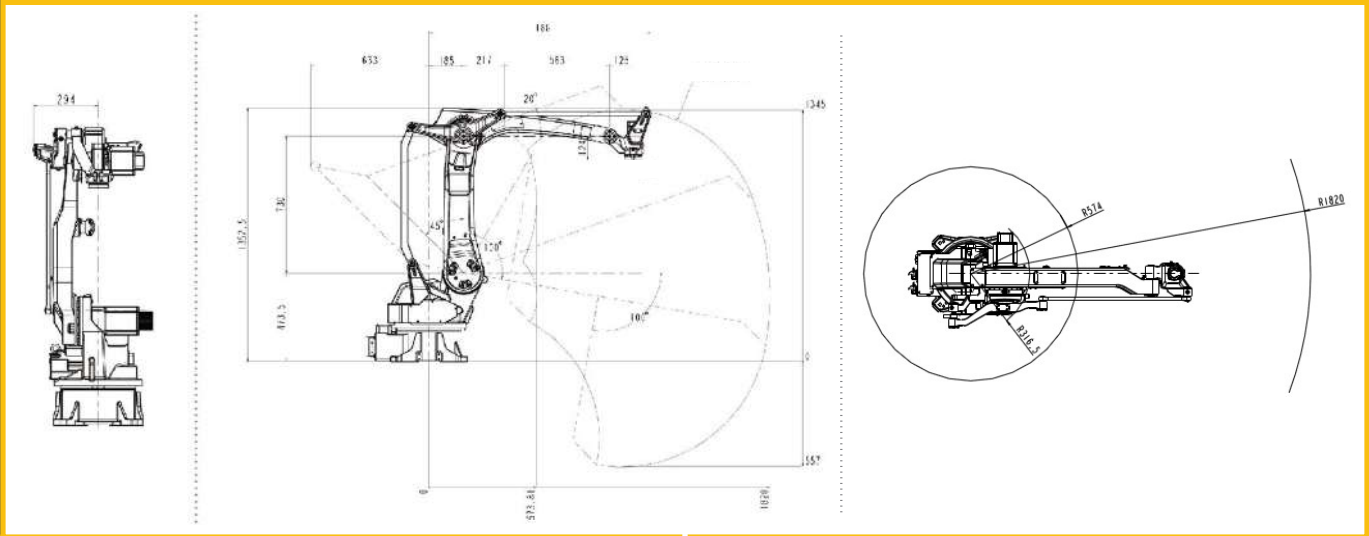
Fast Operation

VBRB30-1 Technical Spesification

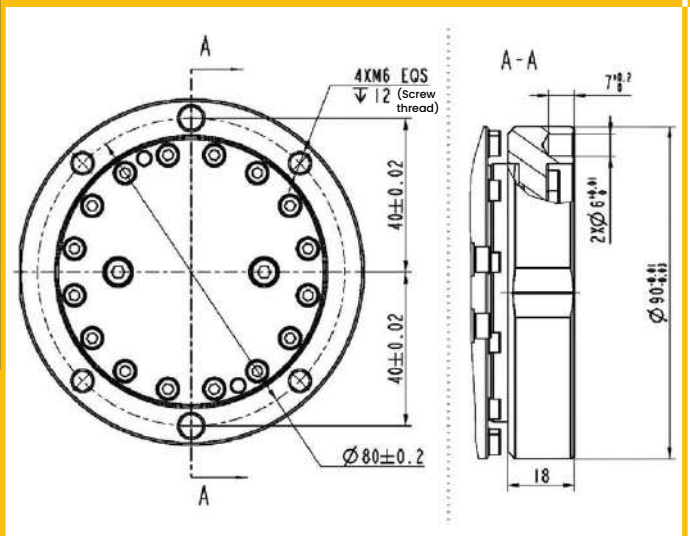
Mechanism	Vertical Multi-Joint Robot	
Axis Number	4	
Payload	30 kg	
Repeat Positioning	± 0.05 mm	
Max Armspan	1820 mm	
Protection Degree	IP30	
Robot Body Weight	205 kg	
Motion Range	**J1**	± 168°
	J2	+ 97°, -50°
	J3	+ 105°, -25°
	J4	± 360°
Max Speed	**J1**	171°/s
	J2	171°/s
	J3	211°/s
	J4	355°/s

Inertia Moment	**J4**	1.4 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	2.9 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	95 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall	

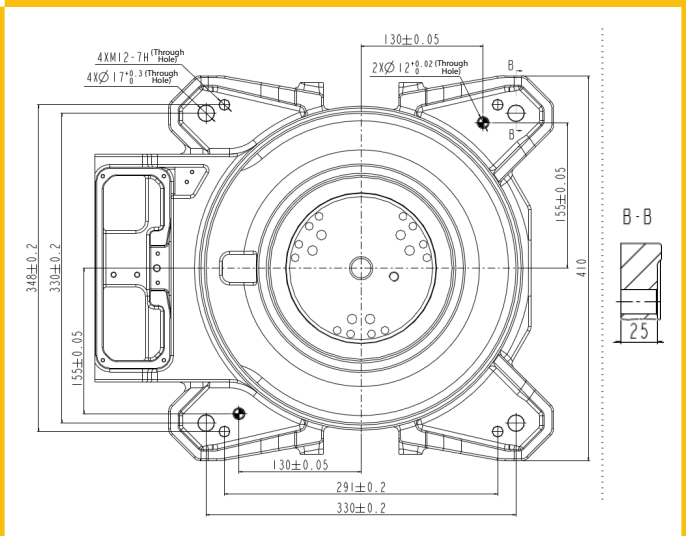
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR130-3100M
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 4

3157 MM
Maximum armspan

Power capacity
17.4 kVA

- High-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software;
- Widely used in intelligent manufacturing industry such as furniture, food and beverage and 3C, applicable to high-speed & high-precision palletizing, picking, packaging, handling, feeding and unloading.

Heavy Duty

Continuous Working

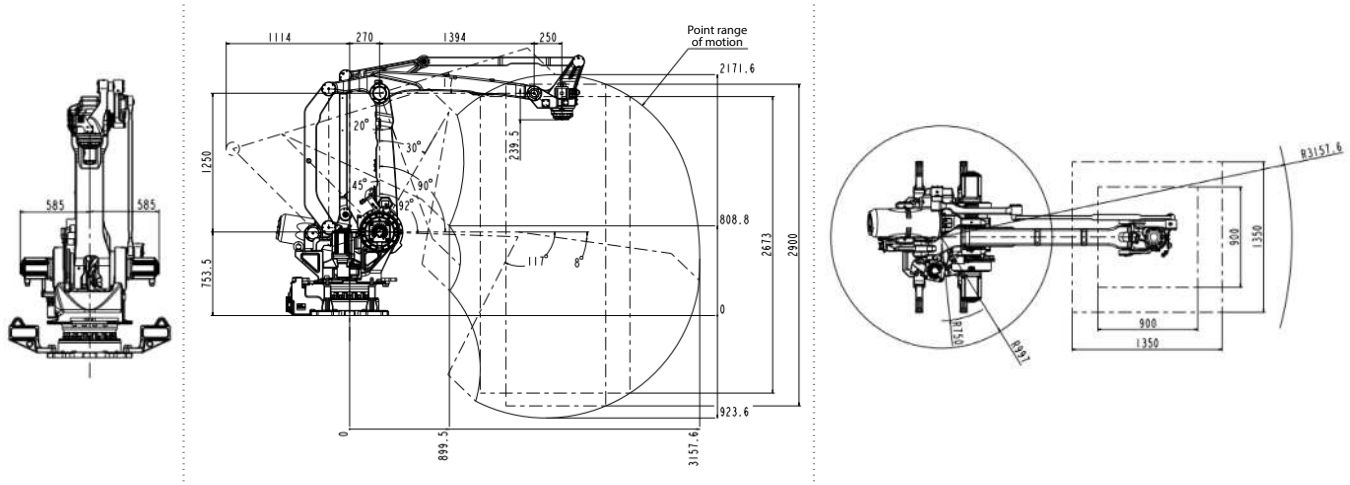
Fast Operation

VBR130-3100M Technical Spesification

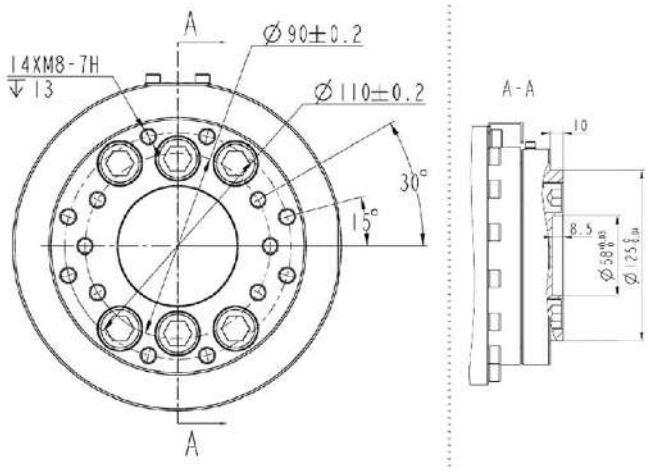
Mechanism	4-Axis Palletizing	
Axis Number	4	
Payload	130 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	3157 mm	
Protection Degree	IP30	
Robot Body Weight	1400 kg	
Motion Range	**J1**	± 182°
	J2	+ 97°, -50°
	J3	+ 122°, -22°
	J4	± 360°
Max Speed	**J1**	128°/s
	J2	131°/s
	J3	131°/s
	J4	297°/s

Inertia Moment	**J4**	21.8 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	17.4 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Five-Wire AC380V +10% -10%	
Installation	Wall	

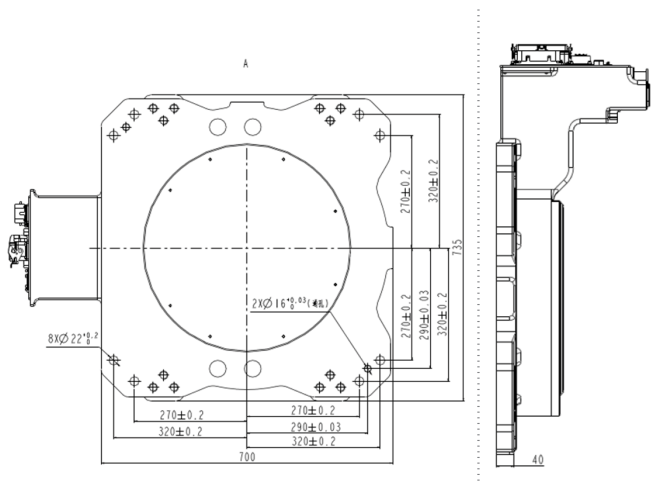
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBRB180-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 4

3157 MM
Maximum armspan

Power capacity
17.4 kVA

- High-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software;
- Widely used in intelligent manufacturing industry such as furniture, food and beverage and 3C, applicable to high-speed & high-precision palletizing, picking, packaging, handling, feeding and unloading.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

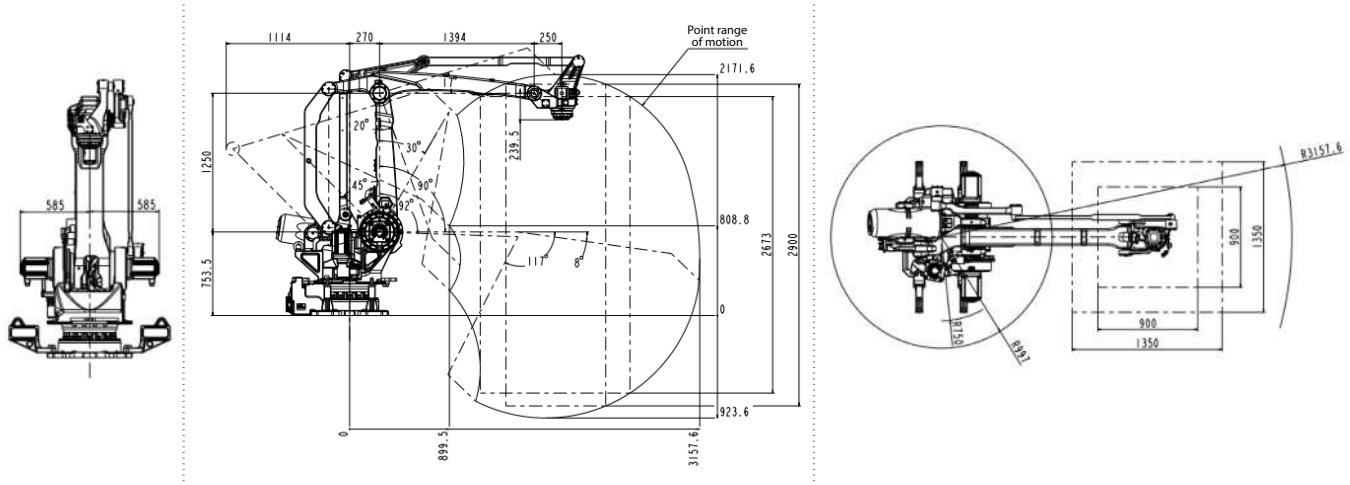
VBRB180-1 Technical Spesification

VELBOTT

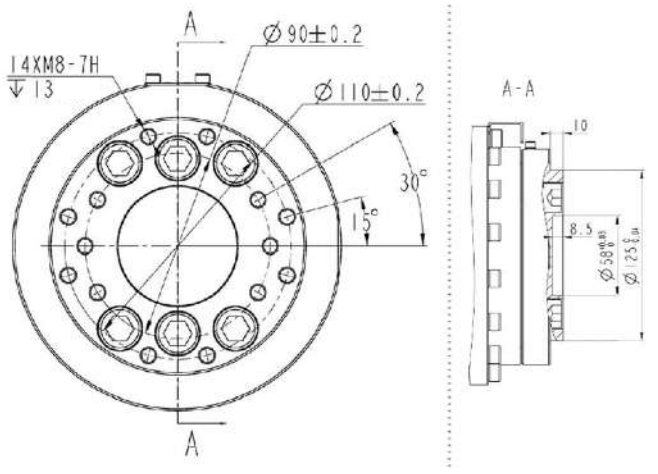
Mechanism	4-Axis Palletizing	
Axis Number	4	
Payload	180 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	3153.7 mm	
Protection Degree	IP30	
Robot Body Weight	1400 kg	
Motion Range	**J1**	± 182°
	J2	+ 97°, -50°
	J3	+ 122°, -22°
	J4	± 360°
Max Speed	**J1**	128°/s
	J2	131°/s
	J3	131°/s
	J4	297°/s

Inertia Moment	**J4**	43.6 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	17.4 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Five-Wire AC380V $^{+10\%}_{-10\%}$	
Installation	Wall	

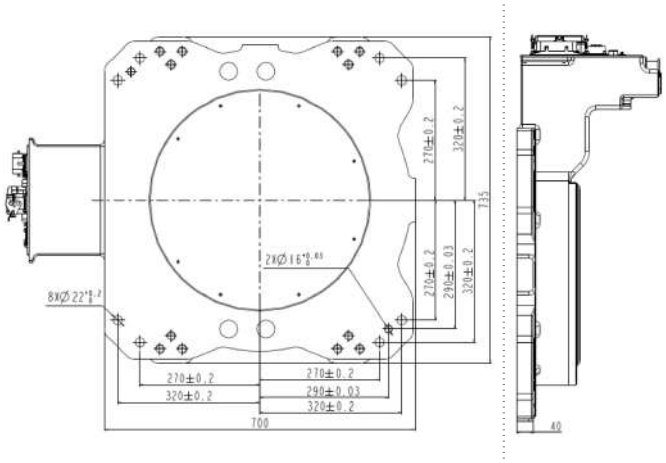
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR260-3100M
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

AXIS: 4

3157 MM
Maximum armspan

Power capacity
19.2 kVA

- High-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software;
- Widely used in intelligent manufacturing industry such as furniture, food and beverage and 3C, applicable to high-speed & high-precision palletizing, picking, packaging, handling, feeding and unloading.

Heavy Duty

Continuous Working

Fast Operation

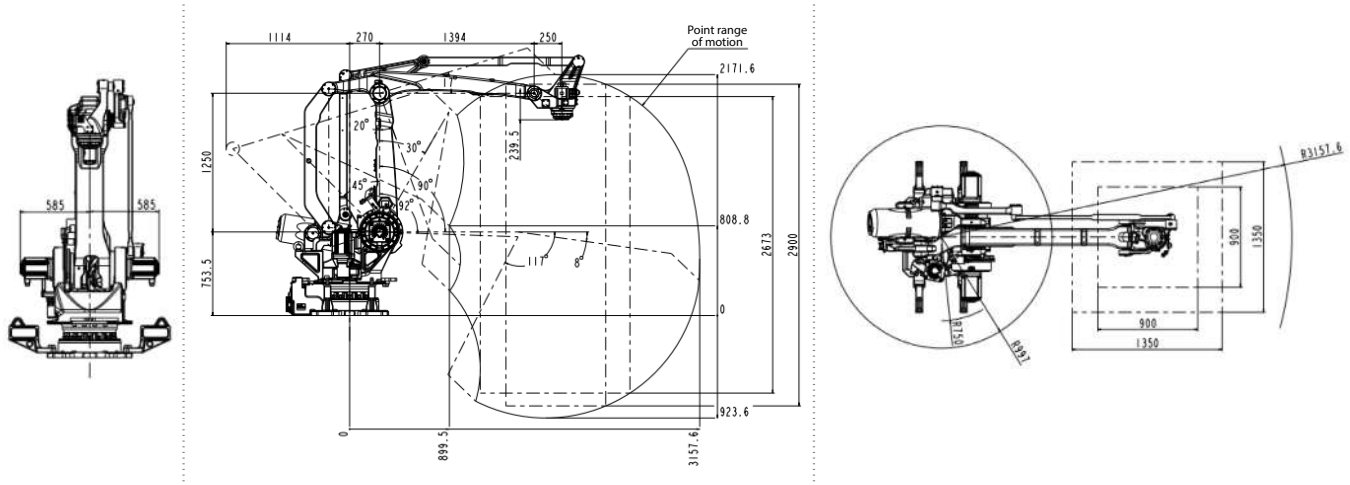
VBR260-3100M Technical Spesification

VELBOTT

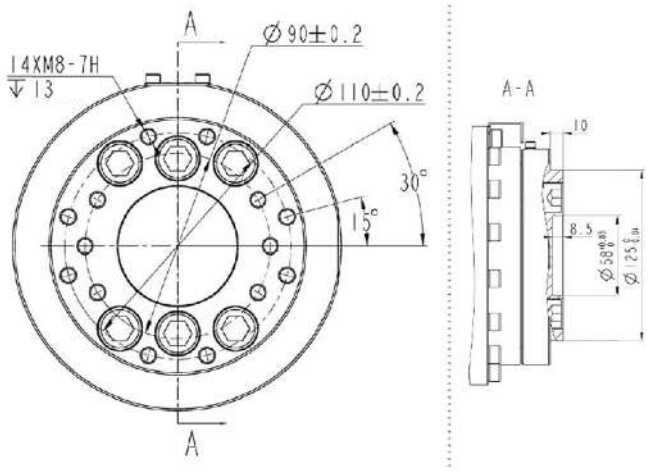
Mechanism	4-Axis Palletizing	
Axis Number	4	
Payload	260 kg / 300 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	3157 mm	
Protection Degree	IP30	
Robot Body Weight	1400 kg	
Motion Range	**J1**	± 182°
	J2	+ 97°, -50°
	J3	+ 122°, -22°
	J4	± 360°
Max Speed	**J1**	97°/s
	J2	97°/s
	J3	97°/s
	J4	297°/s

Inertia Moment	**J4**	43.6 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	19.2 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Five-Wire AC380V +10% -10%	
Installation	Wall	

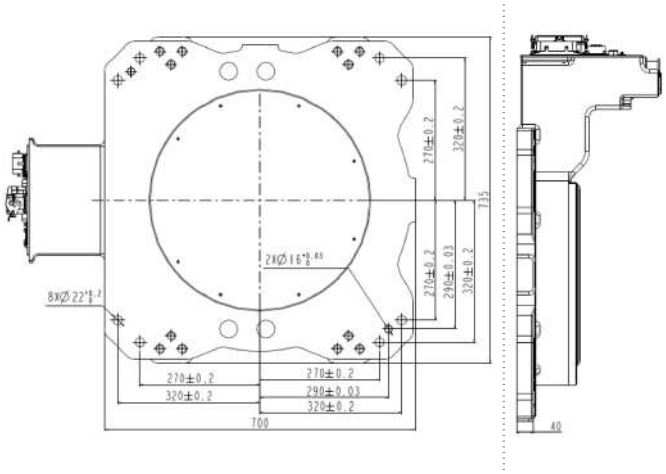
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBRB800-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

INDUSTRIAL ROBOT

AXIS: 4

3155 MM
Maximum armspan

Power capacity
39.6 kVA

Heavy Duty

Continuous Working

Fast Operation

Special purpose high-load palletising machine, high-speed and stable, all axis operating at low power output, simple equipment composition can be used with special palletising software.

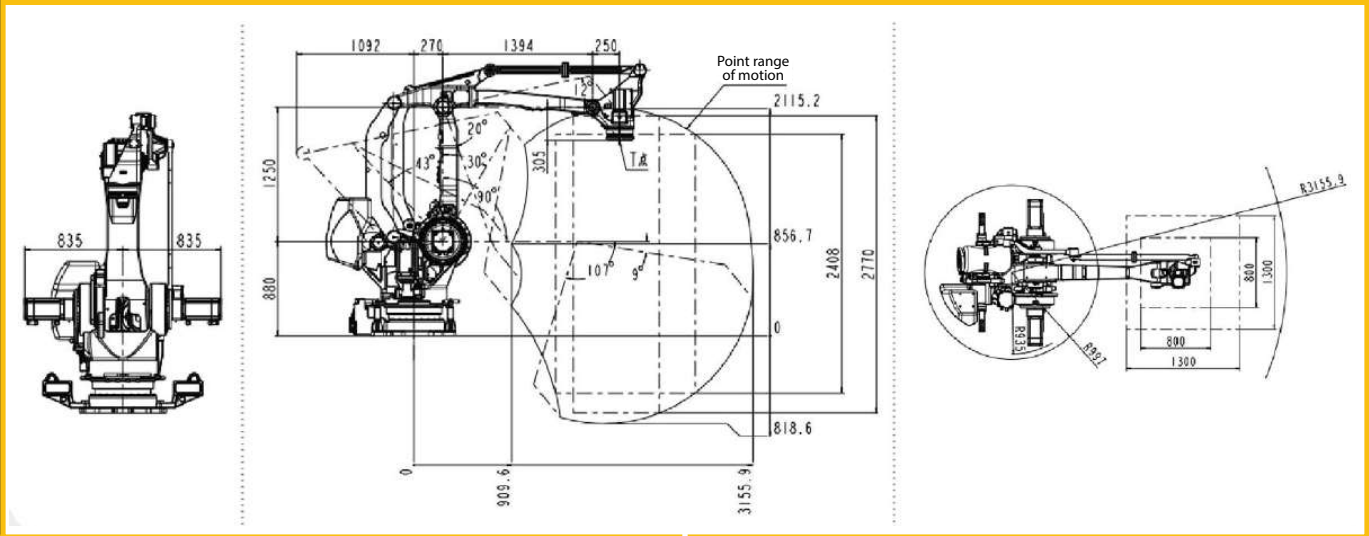
VBRB800-1 Technical Spesification

VELBOTT

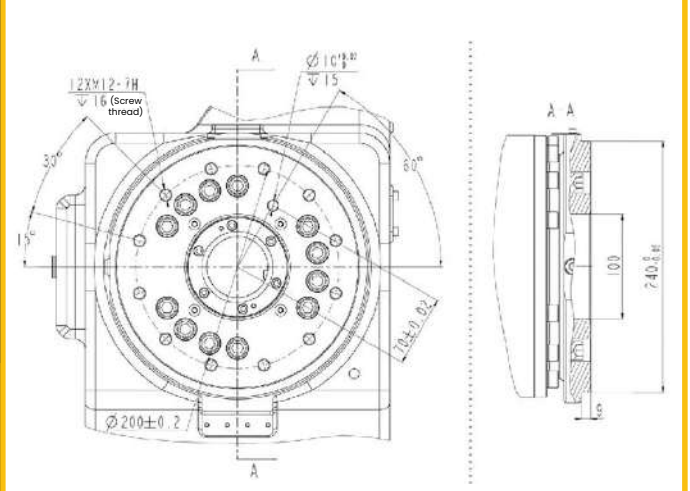
Mechanism	4-Axis Palletizing	
Axis Number	4	
Payload	800 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	3155 mm	
Protection Degree	IP30	
Robot Body Weight	2550 kg	
Motion Range	**J1**	± 185°
	J2	+ 94°, -48°
	J3	+ 112°, -17°
	J4	± 360°
Max Speed	**J1**	64°/s
	J2	64°/s
	J3	64°/s
	J4	114°/s

Inertia Moment	**J4**	286 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	39.6 kVA	
Cabinet Size	600 * 480 * 920 mm	
Cabinet Weight	110 kg	
Source	Three-Phase Five-Wire AC380V +10% -10%	
Installation	Wall	

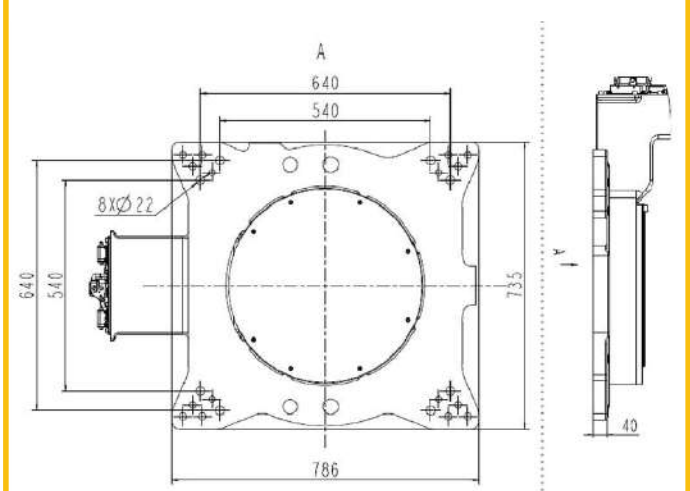
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBR6-2700P
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

EXPLOSION PROOF

AXIS: 6

2701 MM
Maximum armspan

Power capacity
4.4 kVA

- L-shaped wrist, no singularity structure, flexible spraying angle;
- Fully closed structure, IP65 protection degree, with explosion proof system, to achieve high safety.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

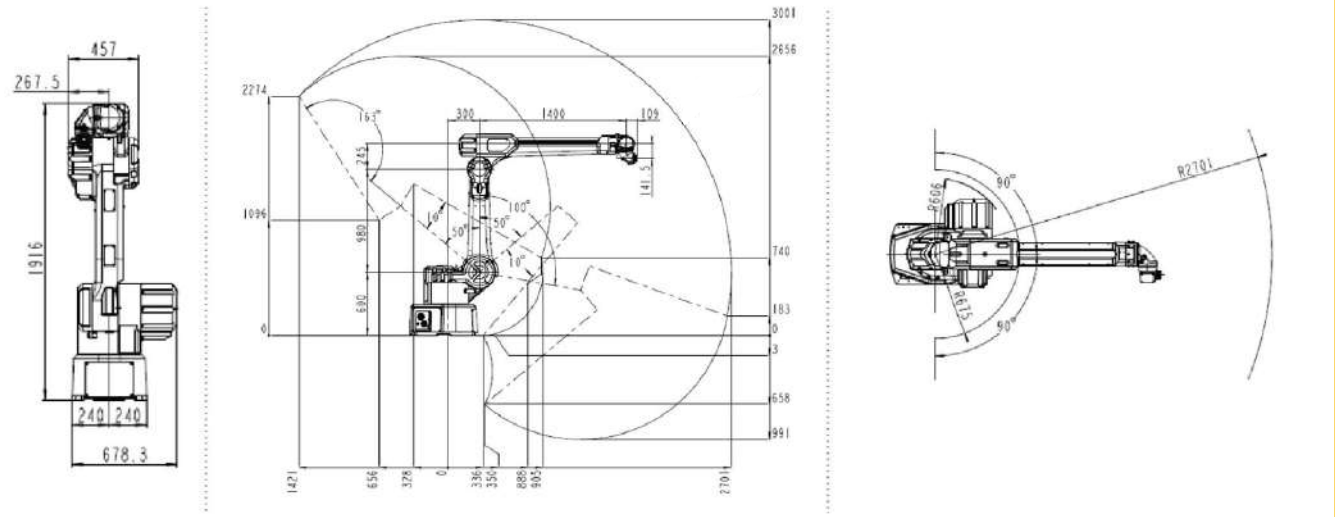
VBR6-2700 Technical Spesification

VELBOTT

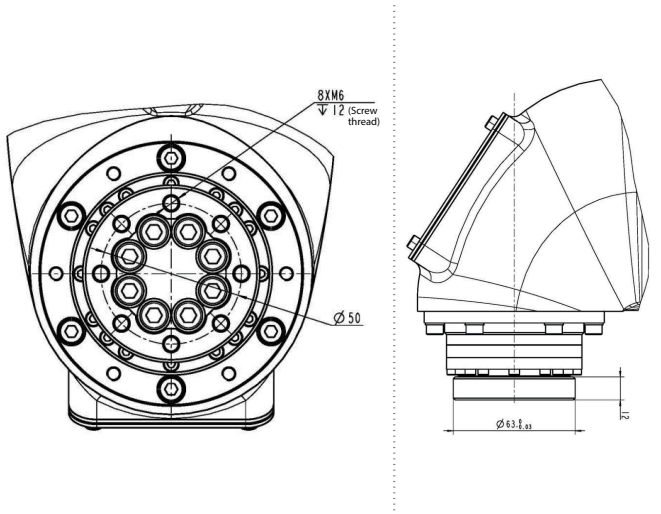
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	6 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	2701 mm	
Protection Degree	IP65, ExdpxIIBT4Gb	
Robot Body Weight	400 kg	
Motion Range	**J1**	± 95°
	J2	+ 102°, -53°
	J3	+ 80°, -80°
	J4	± 260°
	J5	± 270°
	J6	± 260°
Max Speed	**J1**	108°/s
	J2	103°/s
	J3	115°/s
	J4	360°/s
	J5	360°/s
	J6	360°/s

Allowable Torque	**J4**	46 N·m
	J5	45 N·m
	J6	27 N·m
Inertia Moment	**J4**	3.9 kg·m²
	J5	3.9 kg·m²
	J6	1.3 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	4.4 kVA	
Cabinet Size	600 * 480 * 1270 mm	
Cabinet Weight	120 kg	
Source	One-phase AC220V +10% -10%	
Installation	Wall	

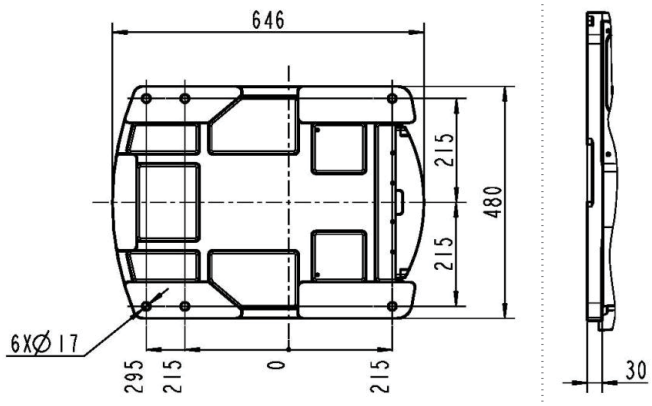
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



VBRP10-1
INDUSTRIAL ROBOT

VELBOTT

Experience the future of manufacturing with **VELBOTT**'s innovative range of industrial robots to empower your business and drive unprecedented growth.

EXPLOSION PROOF

AXIS: 6

2035 MM
Maximum armspan

Power capacity
4.4 kVA

- No front singularity wrist construction, optional built-in pipeline, making synchronous tracking spraying teaching job easier;
- Using bus-structure, convenient for expansion and high speed.

Heavy Duty

Continuous Working

Fast Operation

www.indotara.co.id

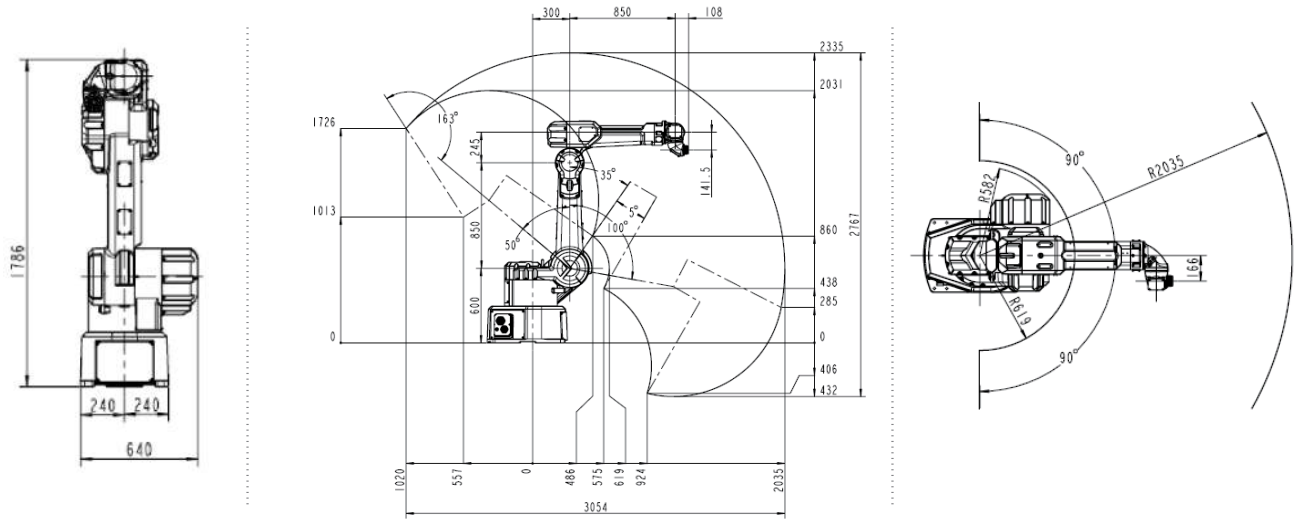
VBRP10-1 Technical Spesification

VELBOTT

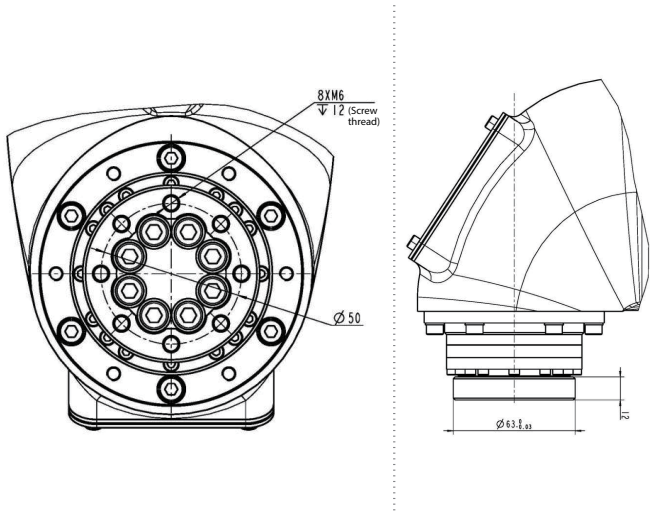
Mechanism	Vertical Multi-Joint Robot	
Axis Number	6	
Payload	10 kg	
Repeat Positioning	± 0.5 mm	
Max Armspan	2035 mm	
Protection Degree	IP65, ExdpxIIBT4Gb	
Robot Body Weight	370 kg	
Motion Range	**J1**	± 95°
	J2	+ 102°, -53°
	J3	+ 87°, -80°
	J4	± 260°
	J5	± 270°
	J6	± 260°
Max Speed	**J1**	108°/s
	J2	120°/s
	J3	114°/s
	J4	360°/s
	J5	360°/s
	J6	360°/s

Allowable Torque	**J4**	46 N·m
	J5	45 N·m
	J6	27 N·m
Inertia Moment	**J4**	3.9 kg·m²
	J5	3.9 kg·m²
	J6	1.3 kg·m²
Installation Environtment	**TEMP**	0~45 ℃
	HUM	20%~80% RH (no condensation)
	NVH	<4.9 m/s² (0.5G)
	Others	Avoid flammable, corrosive gases & liquids;
		Avoid contact with water, oil, dust, etc;
		Do not approach electrical noise source.
Power Capacity	4.4 kVA	
Cabinet Size	600 * 480 * 1270 mm	
Cabinet Weight	120 kg	
Source	One-phase AC220V $^{+10\%}_{-10\%}$	
Installation	Wall	

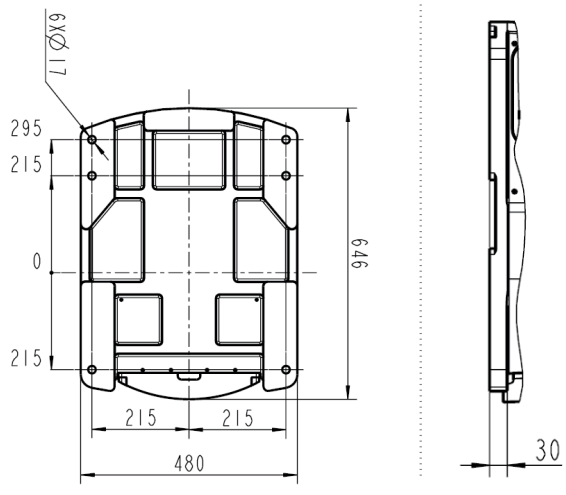
Robot Size Dimension & Maximum Motion Range



Dimension Chart Of Robot End - Mounted



Mounting Dimension Of Robot Base



WELDING SOURCE

POWERED By: FUJIWELD

VELBOTT industrial robots deliver precision and efficiency like never before, featuring the exceptional performance of Fujiweld's welding source at its core.

FJW-350R, FJW-500R (Water Cooling)

The features of **FJW-350R** and **FJW-500R** (water cooling) are as follows:

- Excellent welding properties of mixed gas carbon steel;
- Fine control of excessive droplet;
- With weld penetration control;
- Especially suitable for high-performance welding of carbon steel in structural steel, heavy industry, & pressure vessel.

FJW-350RL

The features of **FJW-350RL** are as follows:

- Special short-circuit control;
- Ultra-low welding spatter for 0.8-3mm carbon steel plate, stainless steel, galvanized sheet;
- By increasing the thermal input on the workpiece, the width of the weld line is expanded, the weld height is reduced, and the weld forming is improved;
- High-speed low current welding on thin plates, low welding spatter for high current welding.

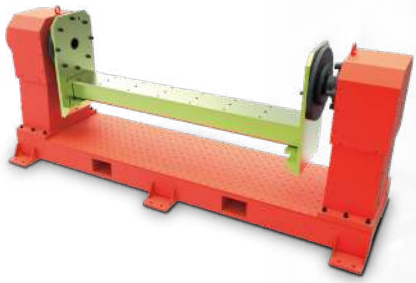
POSITIONER

- Positioner is able to achieve 180° of horizontal and vertical movement. The machine is able to rotate any workpiece to the most appropriate welding position, in order to achieve optimum welding results for complex parts;

- The rotation of the machine is controlled by the robot control cabinet. During the welding process, the control cabinet can coordinate the movement of the robot with the rotation machine, without the need of a separate control cabinet.

VB1P500-1 (Single-Axis Power Unit)

Repeat Positioning	: ±0.1 mm	**Allowable Torque**	: 1029 N·m
Payload	: 500 kg	**Fixture Radius**	: φ250
Rated Speed	: 160 °/s	**Size**	: 379*336.5*441.5 mm
Motion Range	: ±360°	**Weight**	: 71 kg



VB1P500-2 (Single-Axis Head And Tailstock)

Repeat Positioning	: ± 0.1 mm	**Allowable Torque**	: 900 N·m
Payload	: 500 kg	**Fixture Radius**	: 1200 ~ 3000 mm
Rated Speed	: 108 °/s	**Size**	: 2900*700*1200 mm
Motion Range	: ±360°	**Weight**	: ±900kg

VB2P500-1 (Double-Axis U Type)

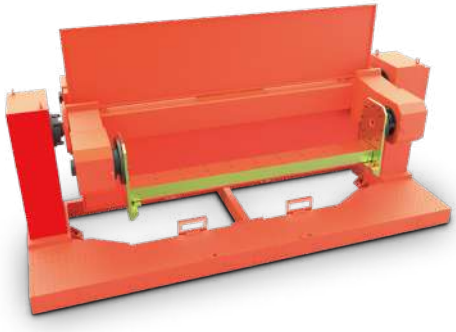
Repeat Positioning	: ± 0.1 mm		**Size**	: 1100*600*750 mm
Payload	: 500 kg		**Weight**	: 580 kg
Fixture Radius	: φ500 mm		**Fixture Height**	: 750 mm
Max Speed	**J1**	: 108 °/s	**Allowable Torque**	**J1** : 1065 N·m
	J2	: 56.7 °/s		**J2** : 680 N·m

VB2P500-2 (Double-Axis L Type)

Repeat Positioning	: ± 0.1 mm		**Size**	: 1750*950*1300 mm
Payload	: 500 kg		**Weight**	: 1150 kg
Fixture Radius	: φ800 mm		**Fixture Height**	: 750 mm
Max Speed	**J1**	: 44.5 °/s	**Allowable Torque**	**J1** : 1365 N·m
	J2	: 118 °/s		**J2** : 680 N·m

VB3P500-1 (Three-Axis Rotary)

Repeat Positioning	: ± 0.1 mm	**Allowable Torque**	: 1490 N·m
Payload	: 500~2000 kg	**Radius of Gyration**	J1 : φ1900 mm
Size	: 4000*1500*1900 mm		J2/J3 : φ650 mm
Fixture Length	: 1200 ~ 3000 mm	**Limit Range**	J1 : ±180°
Rotation Height	: 850 mm		J2/J3 : ±360°
Weight	: 2500 kg	**Max Speed**	J1 : 57 °/s
			J2/J3 : 118 °/s



VB3P500-2 (Three-Axis Flip)

Repeat Positioning	: ± 0.1 mm	**Allowable Torque**	: 1490 N·m
Payload	: 500~2000 kg	**Radius of Gyration**	J1 : φ900 mm
Size	: 3800*1800*1900 mm		J2/J3 : φ650 mm
Fixture Length	: 1200 ~ 3000 mm	**Limit Range**	J1 : ±180°
Rotation Height	: 850 mm		J2/J3 : ±360°
Weight	: 3000 kg	**Max Speed**	J1 : 57 °/s
			J2/J3 : 118 °/s

GROUND RAIL

VB-AR500

Max Driving Speed : 1.5 m/s	**Max Payload** : 500 kg
Max Acceleration : 1.2 m/s²	**Running Distance** : 2 ~ 30 m
Repeat Positioning : ±0.05 mm	**Mounting Height** : 460 - 500mm

- The rail has the characteristics of high speed, high accuracy, smooth operation and simple maintenance, It can be used well with the robot.
- According to customer needs, It can be equipped with an organ cover or sheet metal for protection, It has good dustproof, antifouling and waterproof.
- It can be applied to the application fields of machine tools, such as material, welding, assembly, spraying, inspection, casting, forging, heat treatment, metal cutting, handling, palletizing, etc.

CABINET

Standard Cabinet

- Space saving;
- Expandable to 8-axis on the basis of 6-axis;
- Excellent heat-dissipation efficiency;
- Variety of interface are available for ease of expansion;

Compact Cabinet

- Dimension 380 x 368 x 200 mm;
- Small, lightweight, environtmental friendly, reliable, easy to maintain, variety to expansion ports.

SV Cabinet

- New industrial design, high integration and great compatinility;
- Strong expandability, maximum expand to 3 external axes, & support expansion of explosion-proof & other functional application cabinets.
- Independent heat dissipation structure, superior protection performance (IP54 protection level), stable operation in various harsh environtments.
- Outstanding anti-electromagnetic interference characteristics, reliable operation in complex industrial environtments (indicators).
- Adopted modular design, easy to expand external equipment (motor, vision, welding amchine, etc).

VELBOTT robot controller is based on an open system architecture with a compact fanless X86 computer and EtherCAT bus with the capability of supporting vision system. The controller supports a variety of application process packages, such as arc welding, palletizing and conveyor belt tracking.

VBRC-10

VBRC-20

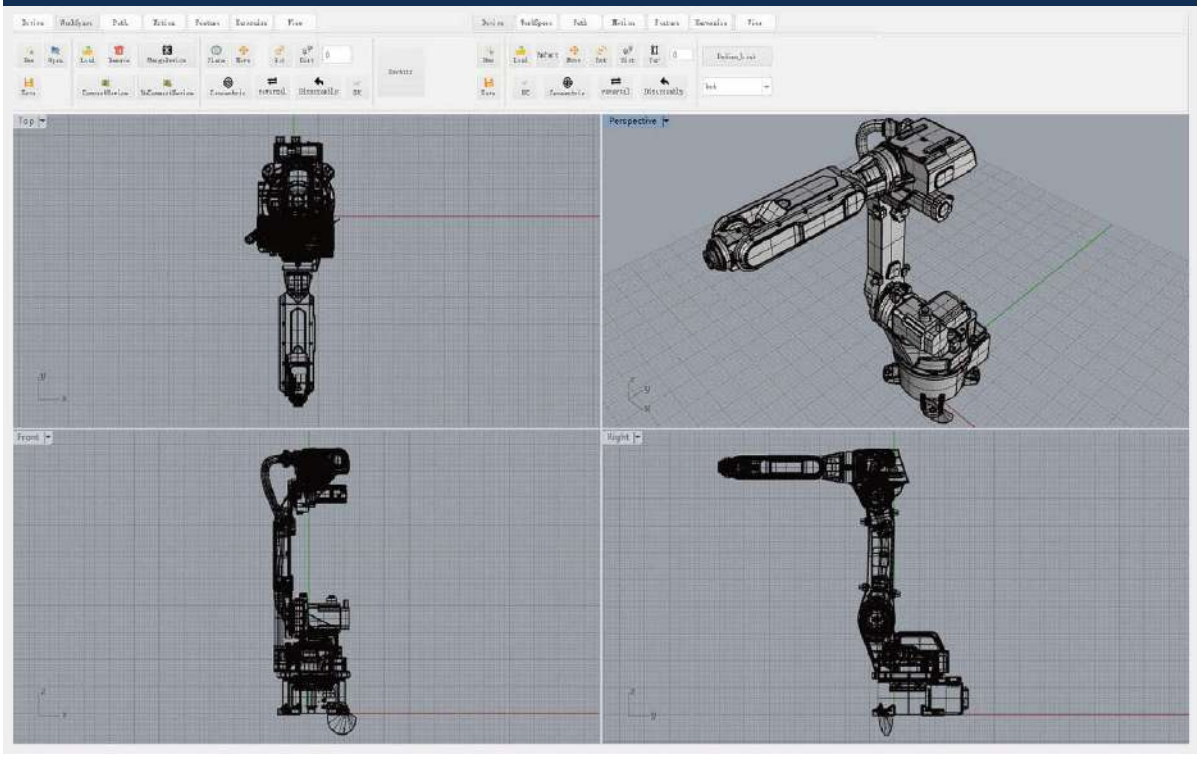
I/O BOARD

Monitor

VELBOTT robot system is based on distribution network concept, using an architecture with single server communicating with multiple clients. This allows the support of single teaching pendant with multiple robot control unit, which is advantageous for plant management;

The teach pendant adopts an embedded and real-time system architecture that provides a cost-effective way for real-time response ability. It can also be integrated with 3D animation engine, support for online virtual simulation animation, and in addition, extend the various modes of human-machine interaction.

OFF-LINE PROGRAMMING SOFTWARE



Custom Import

- Support model imports, able to create coordinate systems, assembly, and define attributes for models.

Freely simulate robot movement

- Support the creation of workpiece path and the robot simulation movement in the work unit;
- Support the creation of paths, insert paths, delete paths, and interrupt paths. The path can be reversed, deleted, merged, etc.

Automatic Equipment Detection

- Support equipment collision detection;
- Support various movement of robot joints.

WELDING APPLICATION

Due to the complexity of the process, labour intensive, product quality and high volume requirements, the automation of the welding process is one of the most pressing problems to be solved in the manufacturing industry. Arc welding robot can accurately complete all kinds of linear, curve and complex welding operation.The automated welding process can greatly improve the automation level, efficiency, flexibility, and quality of production lines.

- **Application Field:** Automobile, auto parts, motorcycles, shipbuilding, rolling stock, boilers, heavy machinery, railway locomotives and other manufacturing industries.
- **Advantages:** The advantages include simple operation, automatic welding, high efficiency, no welding operator, labor cost savings. The automated welding process provides flat and uniform welding seams, consistent results without cracks, pores, and having high and even hardness at the same time. The good welding quality reduces the requirement for post-process touch up.

HANDING, FEEDING, & UNLOADING APPLICATION

Carrying robot is a kind of industrial robot which can automatically carry, loading and unloading of goods. The robot has five advantages:

(1) Good reliability;
(2) 24 hours of continuous operation with high efficiency;
(3) Easy to operate and maintain, significantly reduces the off-line programming and debugging time;
(4) Safety;
(5) Flexibility.

- **Application Field:** Widely used in machine tools, 3C, electronics, home appliances,bathroom automobile, motorcycles and other industries.
- **Advantages:** Unmanned production lines, 24 hours of continuous operation, flexibility, and a wide range of applications.

POLISHING APPLICATION

All kinds of metal casting products, such as bathroom faucets, door handles, automotive metal interior, etc., require surface polishing prior to electroplating and other follow-up processes. The traditional method is manual grinding, which requires high technical skills operators, long working hours, high labor intensity with a poor working environment that causes high frequent occupational diseases. The automatic polishing system uses the industrial robot to automatically clamps the workpiece and perform surface polishing processes. This provides high yield, stable quality, and able to effectively isolate and recover metal dust in order to improve the working environment and reduce the production cost.

- **Application Field:** Metal parts, home appliances, automotive, motorcycle and cookware.
- **Advantages:** Quick clamping, simple teaching, combined with active constant force controller and articulated arm teaching program, the system can be used by workers with no previous experience. The grinding quality is high and the consistency is good. The active constant controller connected with the grinding tool can maintain constant output that gives consistent surface quality.

SORTING APPLICATION

It has the characteristics of high speed, high precision, and strong rigidity. It can meet the needs of most work occasions. The model captures the target object through sensors or vision system, completes the dynamic tracking, pick-up, and placement of the object, and realizes the functions of packing, material sorting, handling, and assembly.

- **Application Field:** Food, medicine, 3C, toiletries.
- **Advantages:** Simple operation, automatic sorting, high efficiency, no operator, labor cost savings.

PAINTING APPLICATION

The system is able to achieve automatic spraying with self-generating spraying sequence without manual programming by using laser, vision and optical sensor technology. Workspace of up to: **5000 x 3000mm.**

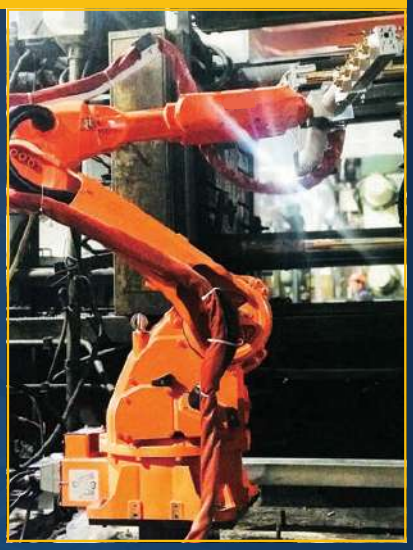
- **Application Field:** Automotive, furniture, home appliances, motorcycle and plastics.
- **Advantages:** **(1)** Flexible, can be used for paint spraying and adhesive application;
  (2) Improve spraying quality and reduce wastage;
  (3) Easy to operate and maintain, capable of off-line programming, significantly reduced on-site configuration time;
  (4) Excellent equipment utilization rate, up to 90%-95%;
  (5) Large workspace.

PALLETIZING APPLICATION

The robot palletizing system is an automatic palletizing equipment. It replaces manual packing of goods of different shapes and sizes, automatic coding on the pallet or production line, non-stop operation, can quickly improve the efficiency of production and output, and reduce the errors caused by manual handling. Application scope: dairy, beverage, food, beer, petrochemical, pharmaceutical production line handling, disassembly, placement and other aspects of the logistics industry; loading and unloading etc.; especially the mass production line of loading goods into boxes, bags, and other high volume production lines.

- **Application Field:** Dairy, beverage, food, beer, petrochemical and pharmaceutical production line handling, disassembly, placement, and other aspects of logistics industry; loading and unloading etc; especially the mass production line of loading goods into boxes, bags, and other high volume production lines.
- **Advantages:** High speed, high efficiency, labor saving, small space occupation, easy operation, flexible, low energy consumption.

SPRAY APPLICATION


- **Application Field:** Automotive, high-speed rail and aviation parts, home appliances, 3C electronics, machine tool hardware, kitchen and bathroom hardware and other die-casting fields.
- **Advantages:**
  In large stroke, two claw centering clamping claws and two sides of four spray nozzles and four air spray nozzles are used. One robot can complete the spray drying operation of die casting parts and mold release at the same time;

  The straight bend structure and symmetrical force distribution are adopted to ensure the stability and reliability of the robot under high-speed operation;

  The fixture is equipped with four detection sensors, which can directly detect the integrity of the product, directly eliminate the unqualified products, improve the production rhythm, and improve the production efficiency;

  Adopting large stroke fixture and compatible with grasping of various products at the same time, it can directly change the mold and switch the robot program without changing the gripping teeth, so as to realize the production of different products. Each nozzle can independently adjust the flow and atomization amount of release agent, control the fixed and dynamic mold States separately, and cope with the spray process of different working conditions and different molds, with high flexibility;

  The demoulding pipeline is controlled by a large volume valve to realize the advance shut-off valve. The atomizing gas can continue to blow off the excess release agent function, reduce the dripping problem of the spray head after spraying, and distribute the sprinkler head in the cavity of the mold cavity to realize precise spraying, which not only saves the waste of the mold release agent, but also improves the qualified rate of the product.

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