



# PRODUCT MANUAL





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Born For Application



*Reduce complexity to simplicity*

*Born for application*

## Make automation as easy as building blocks

PowerNex robot adhering to the concept of "simplifying complexity" and "born for application", through the perfect combination of automation technology and experience, to create new technologies, new applications, new modules, to achieve the strategy of "robot +", to provide the best solution for equipment manufacturers, and effectively solve the efficiency, cost, risk and other problems of automation integration.





EX



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# Product Index

Outstanding Appearance, Hidden Craftsmanship  
Adhering to a Unique Combination  
of Technology and Aesthetics



## P series

High Speed, High Operation

- Payload: 3kg, 6kg, 10kg, 20kg, 40kg, 60kg, 100kg
- Arm length: 400-1000mm
- Flexible Arm Length Customization

» P14

## E series

360° working range with no blind spots

- Payload: 4kg-10kg
- Arm length: 400-550mm
- Flexible Arm Length Customization

» P56



## D series

High Efficiency, Flexible Space

- Maximum Load: 4kg
- Arm length: 400mm
- Flexible Arm Length Customization

» P62

# R series

## 360° Table-Mounted SCARA Robot

- Maximum Load:6kg
- Arm length:500-700mm
- Flexible Arm Length Customization

» P44



## Robot with Built-in End Effector

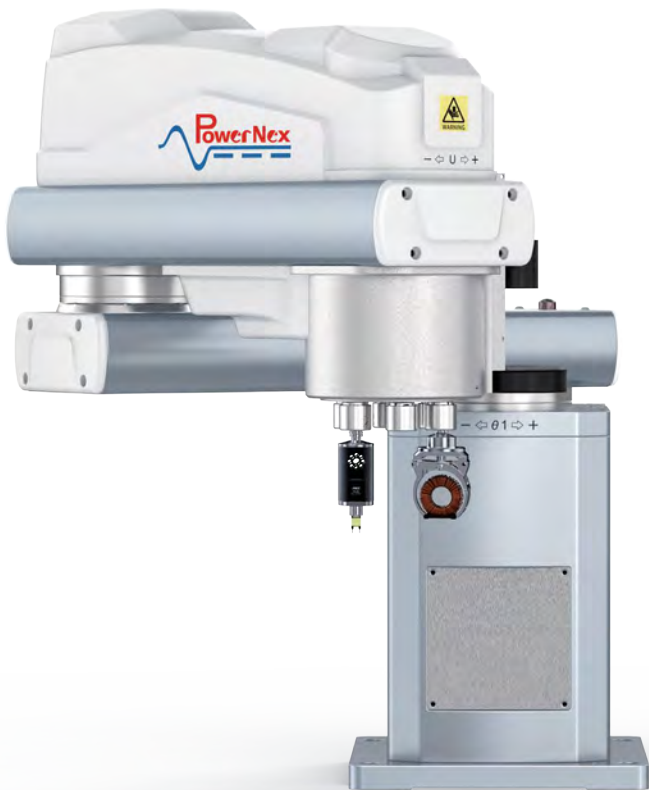
Customized Services Based on Application Needs to Enhance Your Machine's Competitiveness

### CE series

360° Ceiling-Mounted SCARA Robot

- Maximum Load:10kg
- Arm length:600-800mm
- Flexible Arm Length Customization

» P64



### CP series

Table-Mounted SCARA Robot

- Maximum Load:10kg
- Arm length:600-800mm
- Flexible Arm Length Customization

» P66



# W series

## Wall-Mounted/Ceiling-Mounted SCARA Robot

- Maximum Load:6kg
- Arm length:500-700mm
- Flexible Arm Length Customization

»P50



# S series

## Compact 6-Axis Robot

### S4-475A

4KG Load, High-Speed, High-Precision Robot

- 6-Axis Control
- Maximum Load:4kg
- Maximum Motion Range:475mm

» P68



### S7-707A

Wide Motion Range, Enhancing Production Performance

- 6-Axis Control
- Maximum Load:7kg
- Maximum Motion Range:707mm

» P70



### S7-906A

Extra-large Load, Meeting Various Production Requirements

- 6-Axis Control
- Maximum Load:7kg
- Maximum Motion Range:906mm

» P72



### S10-1206A

Full cast aluminum body, offers the lightest weight among its class, along with enhanced speed.

- 6-Axis Control
- Maximum Load:10kg
- Maximum Motion Range:1206mm

» P74





A robot brand for applications



# P100

Driven by Lithium,  
Empowering Your Cost Savings

Solving the Challenges of Heavy-Duty Transport and Complex Sorting



60kg

Payload

100kg

Maximum load

## P series Desktop-mounted SCARA Robot

The "cost-effective" horizontally mounted robot features high speed, high precision, and stable and reliable quality. It is the best product for robotic replacement and an ideal alternative to modular and Cartesian robots.

P3	P.14	P6	P.16	P10	P.22	P20	P.28	P100	P.42
Payload Rated 1kg/Maximum 3kg Arm length 400mm		Payload Rated 2kg/Maximum 6kg Arm length 500 600 700mm		Payload Rated 5kg/Maximum 10kg Arm length 600 700 800mm		Payload Rated 10kg/Maximum 20kg Arm length 800 900 1000mm		Payload Rated 60kg/Maximum 100kg Arm length 1200mm	
									

## R series $\pm 360^\circ$ Desktop-mounted SCARA Robot

The SCARA industrial robot R series can achieve an ultra-wide  $\pm 360^\circ$  working range, making the machine layout more flexible and reasonable, which is beneficial to improving equipment production efficiency.

R6	P.44
Payload Rated 2kg/Maximum 6kg Arm length 500 600 700mm	
	

## W series Side Wall/Ceiling Mounted SCARA Robot

The W series offers the option of side wall or ceiling mounting, allowing the equipment to use the desktop space more effectively, achieving equipment miniaturization and reducing floor space.

W6	P.50
Payload Rated 2kg/Maximum 6kg Arm length 500 600 700mm	
	

## E series Ceiling Mounted 360° Blindspot-free SCARA Robot

The E series adopts a ceiling design and a rotating arm axis to achieve a 360° working area without blind spots, saving space and reducing cycle time to improve production efficiency.

E4	P.56	E10	P.60
Payload Rated 1kg/Maximum 4kg Arm length 400 550mm		Payload Rated 5kg/Maximum 10kg Arm length 550mm	
			

## D series Dual-arm Suspended SCARA Robot

The D series is based on the E series and combined with practical application scenarios, innovatively develops dual-arm collaborative work. Enhancing equipment efficiency, saving space, optimizing the structure, and making the equipment more compact and miniaturized.

D4	P.62
Payload Rated 1kg/Maximum 4kg Arm length 400mm	
	


# CE series / CP series End Effector Integrated SCARA Robot

The CE/CP series is developed by engineers who have a deep understanding of application scenarios, combining automation experience and technology to develop an integrated end effector SCARA robot. The compact and integrated design significantly improves the design efficiency of mechanical engineers, reducing product time-to-market and making your equipment more competitive.

CE	P.64	CP	P.66
Payload Rated 5kg/Maximum10kg Arm length 600mm		Payload Rated 5kg/Maximum10kg Arm length 650mm	
			

## S series Compact 6-Axis Robot

Six-axis industrial robot, covering application areas such as handling and palletizing, laser processing, loading and unloading, welding, cutting, grinding and polishing, gluing, assembly, and labeling.

S4-475A	P.68	S7-707A	P.70	S7-906A	P.72	S10-1206A	P.74
Payload Maximum 4kg Maximum Motion Range 475mm		Payload Maximum 7kg Maximum Motion Range 707mm		Payload Maximum 7kg Maximum Motion Range 906mm		Payload Maximum 10kg Maximum Motion Range 1206mm	
							

## SP series Screw-locking Industrial Robot

SP3-4000/SP3-4010	P.76	SP6-6010	P.80	SP10-5000/SP10-5010	P.82	SP10-6000/SP10-6010	P.86	SP10-7000/SP10-7010	P.90
Payload Rated 1kg/Maximum 3kg Arm length 400mm		Payload Rated 2kg/Maximum 6kg Arm length 600mm		Payload Rated 5kg/Maximum10kg Arm length 500mm		Payload Rated 5kg/Maximum10kg Arm length 600mm		Payload Rated 5kg/Maximum 10kg Arm length 700mm	
									

Screw-locking Industrial Robot / Integrated Drive and Control Controller / Teach Pendant

SP40-8000/SP40-8020	P.94	SP40-9000/SP40-9020	P.98	P40-1000/SP40-1002	P.102	MCS	P.106	TFT LED	P.108
Payload Rated 20kg/Maximum 40kg Arm length 800mm		Payload Rated 20kg/Maximum 40kg Arm length 900mm		Payload Rated 20kg/Maximum 40kg Arm length 1000mm					
									

# P3 series

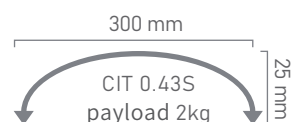
Scara Robot

## Model P3-401S

Operating range    Arm length 400mm    Joint#3 stroke 150mm

Payload                      Rated 1kg/Maximum 3kg

Standard cycle time    0.43 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.01\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

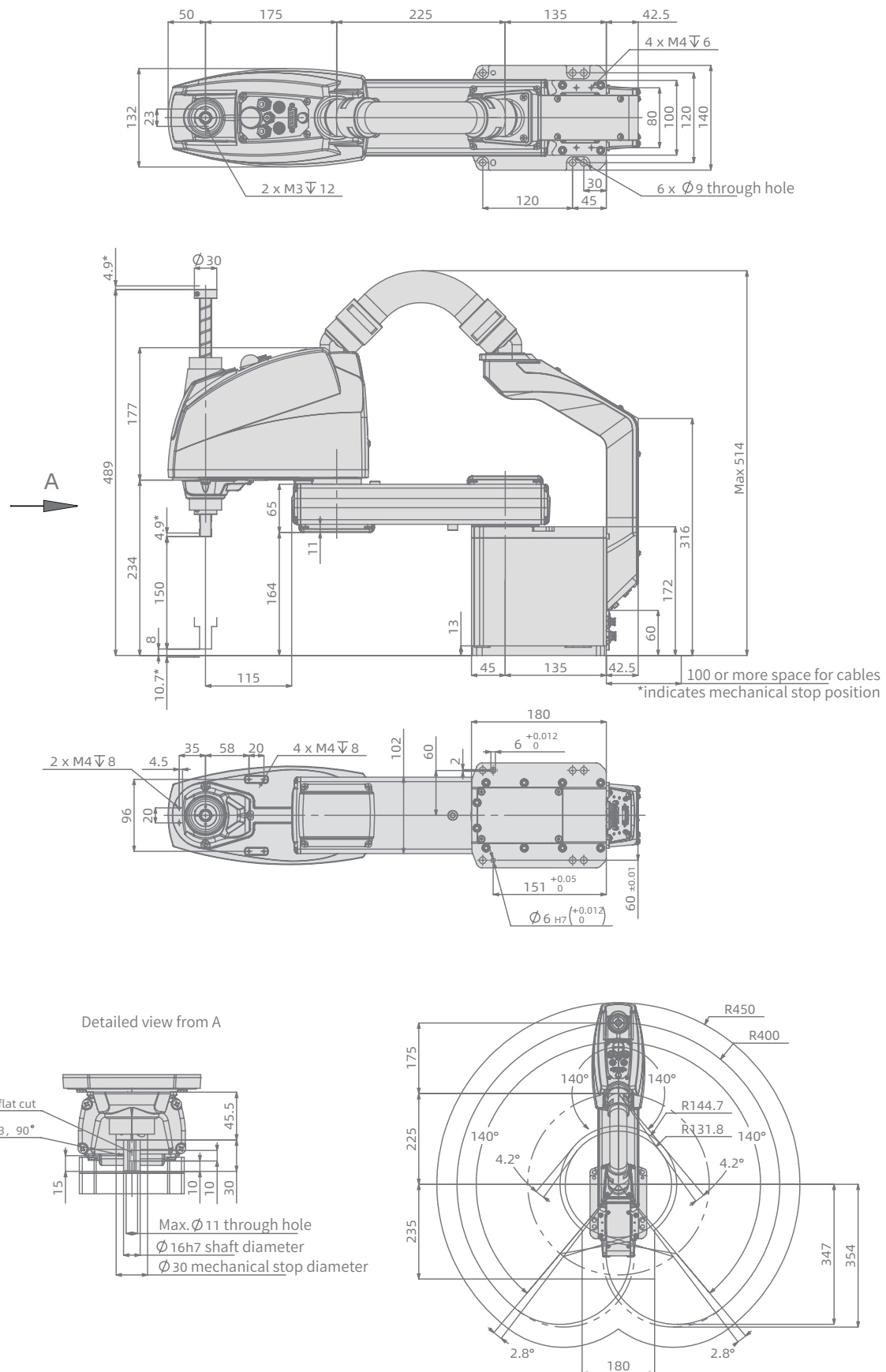
Joint Content	#1	#2	#3	#4
MAX Operating Speed	6000mm/s		1100mm/s	2600°/s
MAX Motion Range	$\pm 132^\circ$	$\pm 141^\circ$	150mm	$\pm 360^\circ$
Motor Power Consumption	400W	100W	100W	100W
Joint#3 down force			100N	
Weight	16kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

## Outer Dimensions and Motion Range



# P6series

Scara Robot

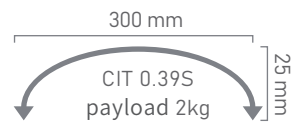


## Model P6-502S

Operating range    Arm length 500mm    Joint#3 stroke 200mm

Payload                Rated 2kg/Maximum 6kg

Repeatability        0.39sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability         $\pm 0.02\text{mm}$          $\pm 0.01\text{mm}$          $\pm 0.01^\circ$   
                                  Joint #1,#2                    Joint #3                    Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6150 mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 132^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	19kg (cables not included)			

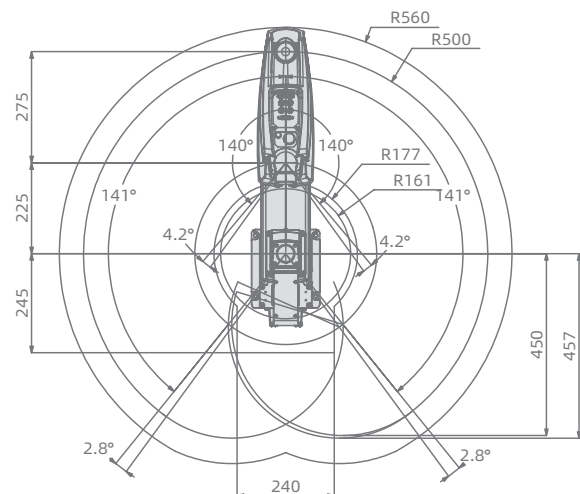
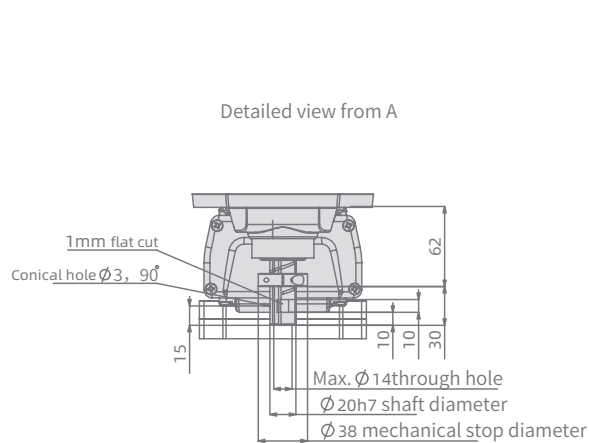
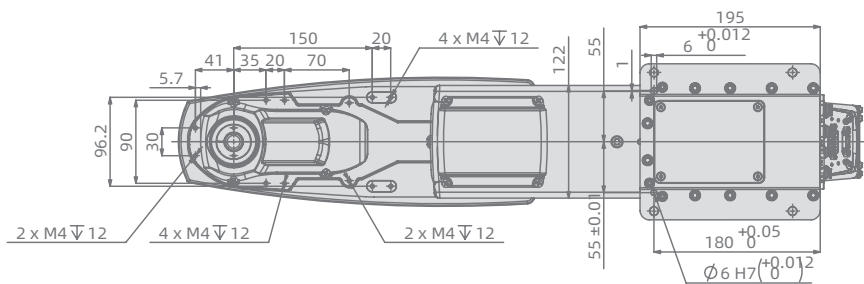
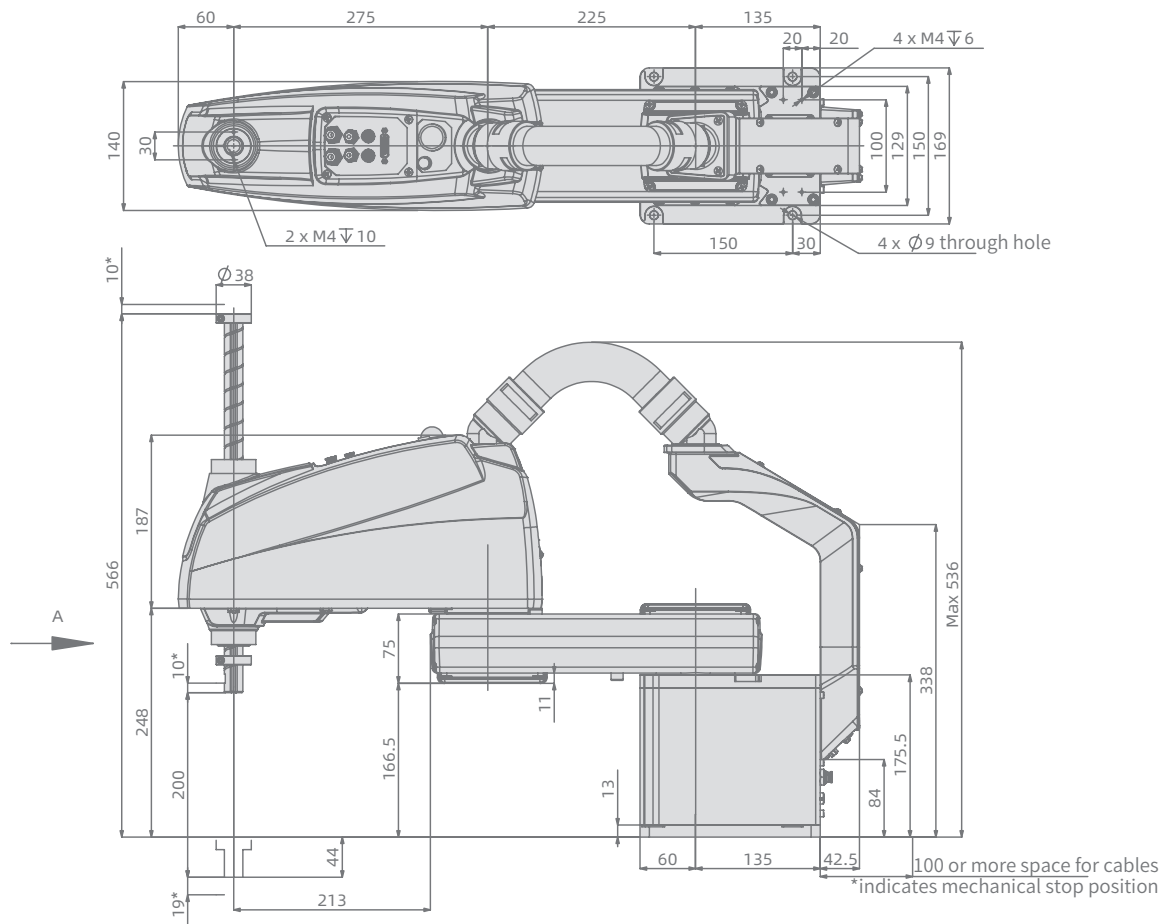
Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# P6 series

Scara Robot

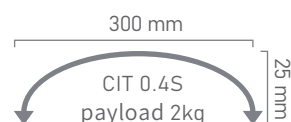


## Model P6-602S

Operating range    Arm length 600mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.4 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6800mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 132^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	20kg (cables not included )			

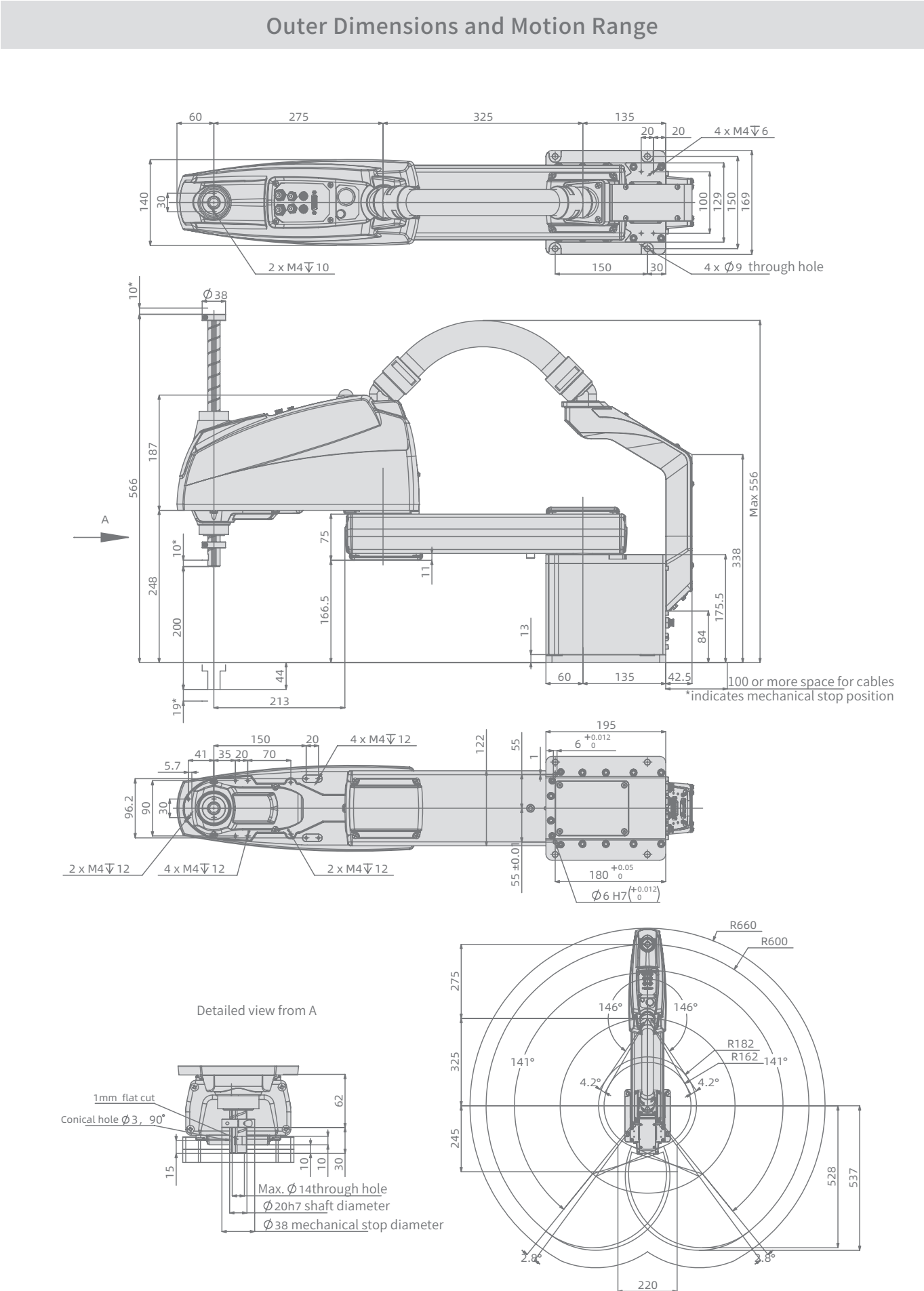
Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# P6series

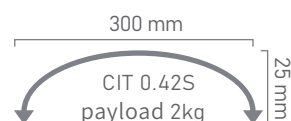
Scara Robot

## Model P6-702S

Operating range    Arm length 700mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.42 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

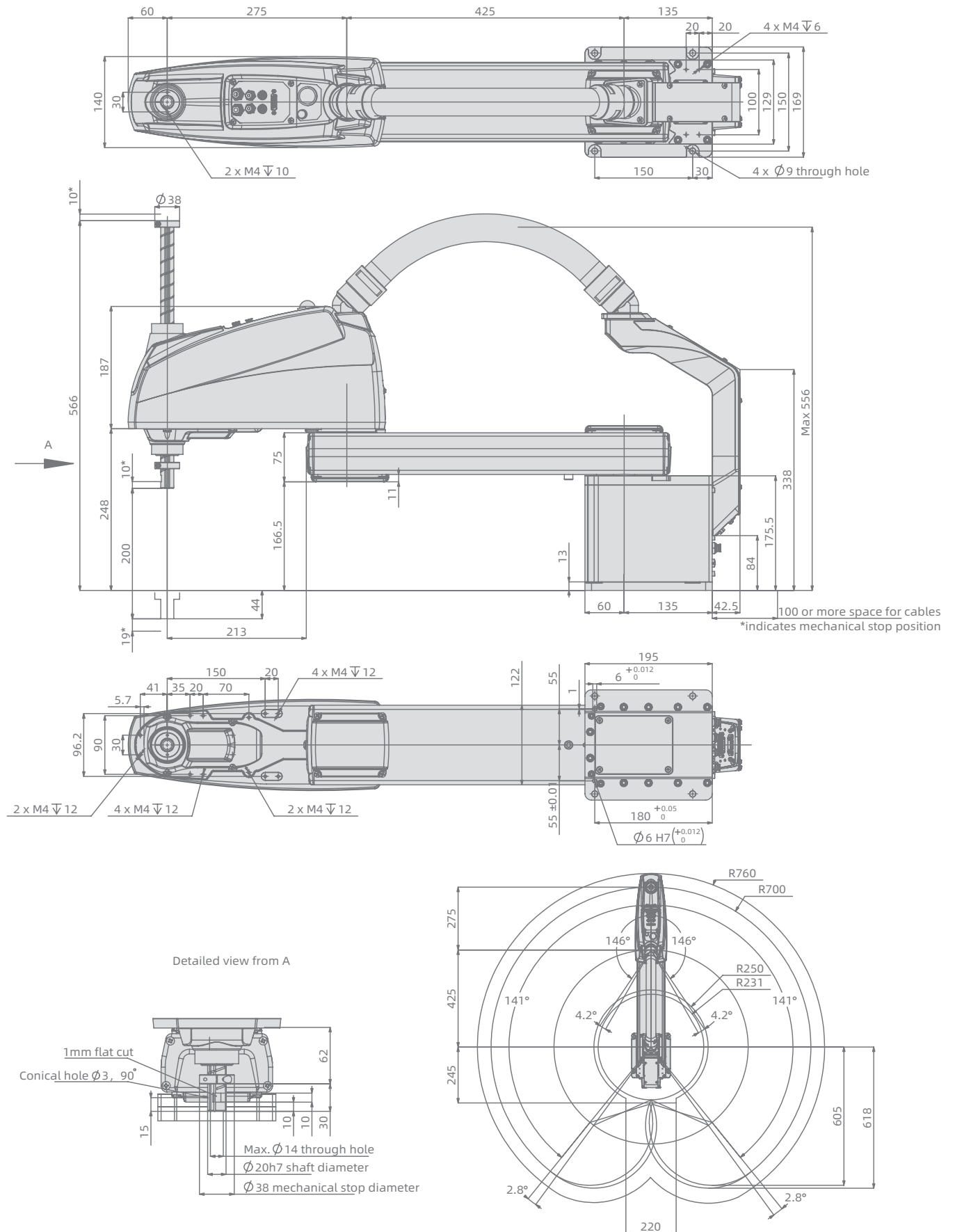
Joint Content	#1	#2	#3	#4
MAX Operating Speed	7450 mm/s		1100 mm/s	2000°/s
MAX Motion Range	$\pm 132^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	21kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

## Outer Dimensions and Motion Range



# P10 series

Scara Robot

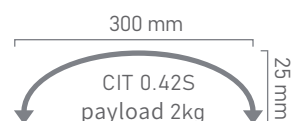


## Model P10-602S / P10-603S

Operating range    Arm length 600mm    Joint#3 stroke 200/300mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.42 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	9100 mm/s		1098mm/s	1581° /s
MAX Motion Range	$\pm 132^\circ$	$\pm 150^\circ$	200mm 300mm	$\pm 360^\circ$
Motor Power Consumption	750W	750W	400W	400W
Joint#3 down force			200N	
Weight	30kg (cables not included )			

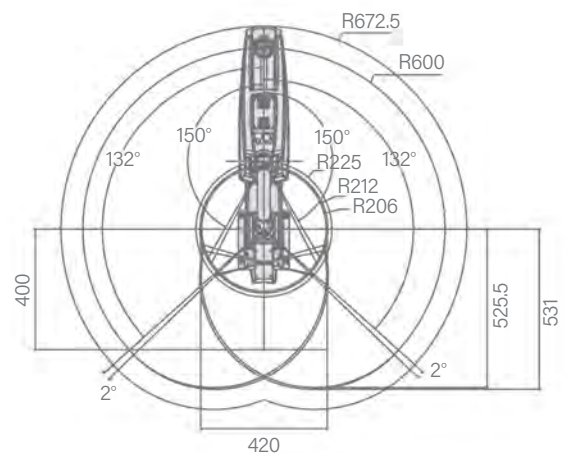
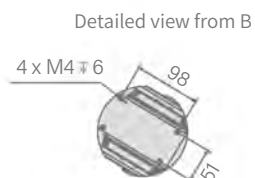
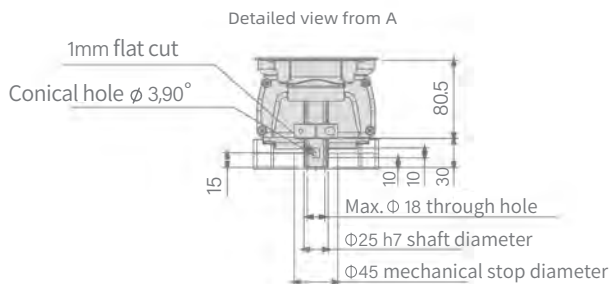
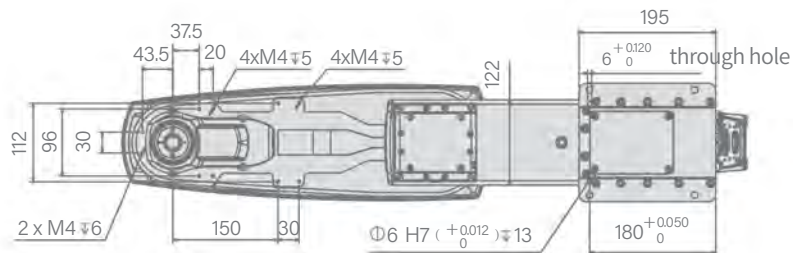
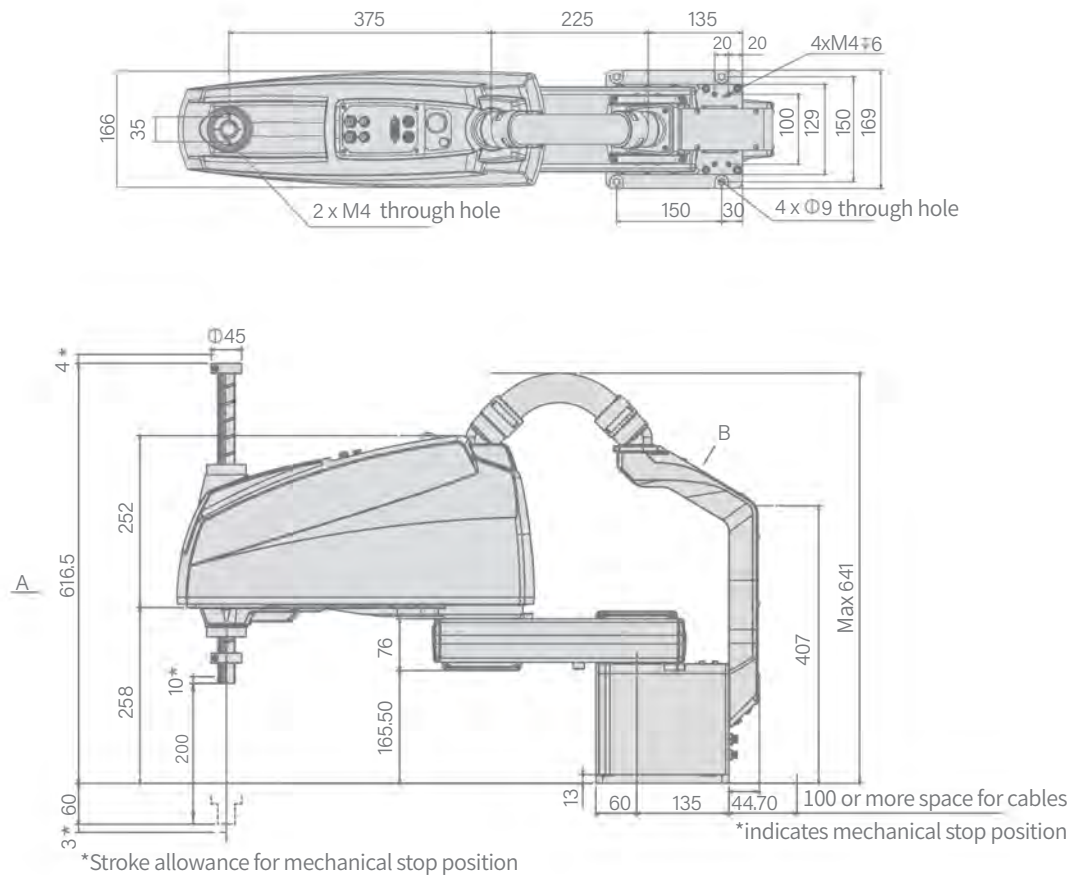
Joint #4 allowable moment of inertia, rate  $0.02\text{kg} \cdot \text{m}^2$ , maximum  $0.3\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

## Outer Dimensions and Motion Range

mm



# P10 series

Scara Robot

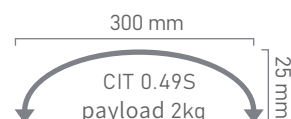


## Model P10-702S / P10-703S

Operating range    Arm length 700mm    Joint#3 stroke 200/300mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.49 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

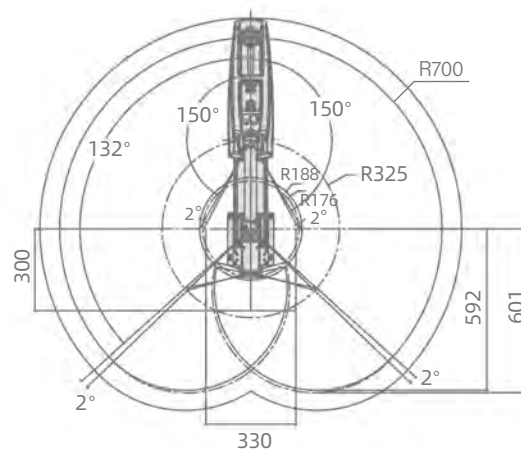
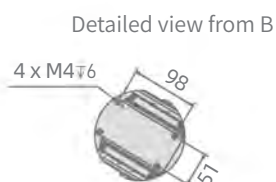
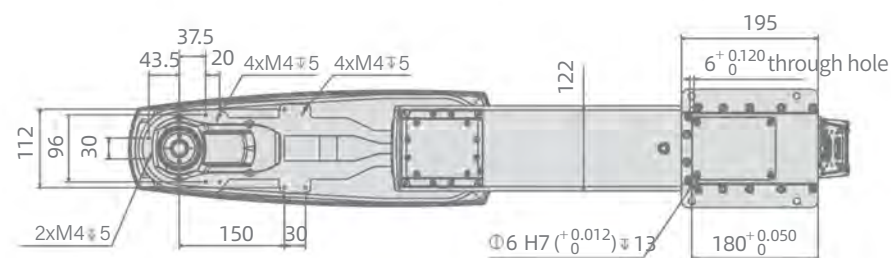
Joint Content	#1	#2	#3	#4
MAX Operating Speed	9800mm/s		1098mm/s	1580° /s
MAX Motion Range	$\pm 132^\circ$	$\pm 150^\circ$	200mm 300mm	$\pm 360^\circ$
Motor Power Consumption	750W	750W	400W	400W
Joint#3 down force			200N	
Weight	31kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.02\text{kg}\cdot\text{m}^2$ , maximum  $0.3\text{kg}\cdot\text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

## mm





# P10 series

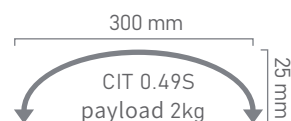
Scara Robot

## Model P10-802S / P10-803S

Operating range    Arm length 800mm    Joint#3 stroke 200/300mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.49 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	10600 mm/s		1098mm/s	1581° /s
MAX Motion Range	$\pm 132^\circ$	$\pm 152^\circ$	200mm 300mm	$\pm 360^\circ$
Motor Power Consumption	750W	750W	400W	400W
Joint#3 down force			200N	
Weight	32kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.02\text{kg} \cdot \text{m}^2$ , maximum  $0.3\text{kg} \cdot \text{m}^2$

### Electrical parameters

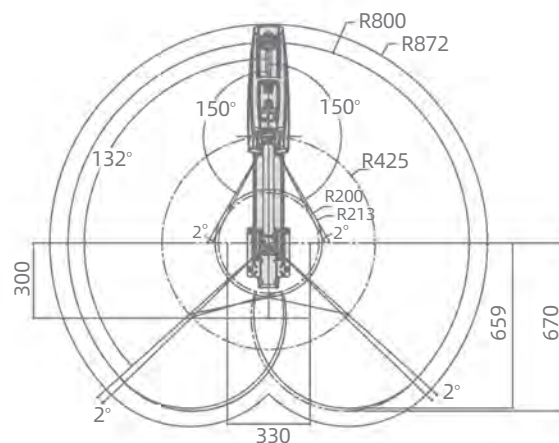
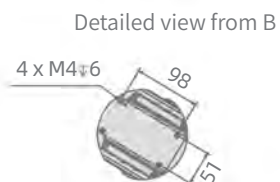
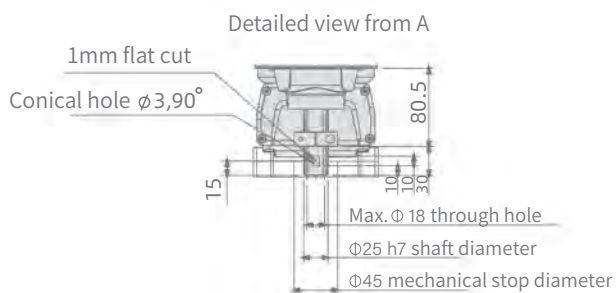
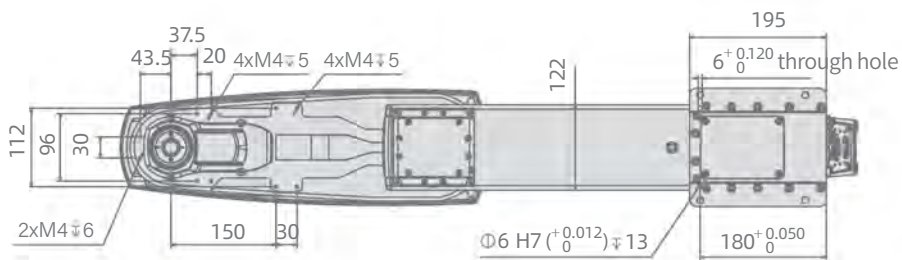
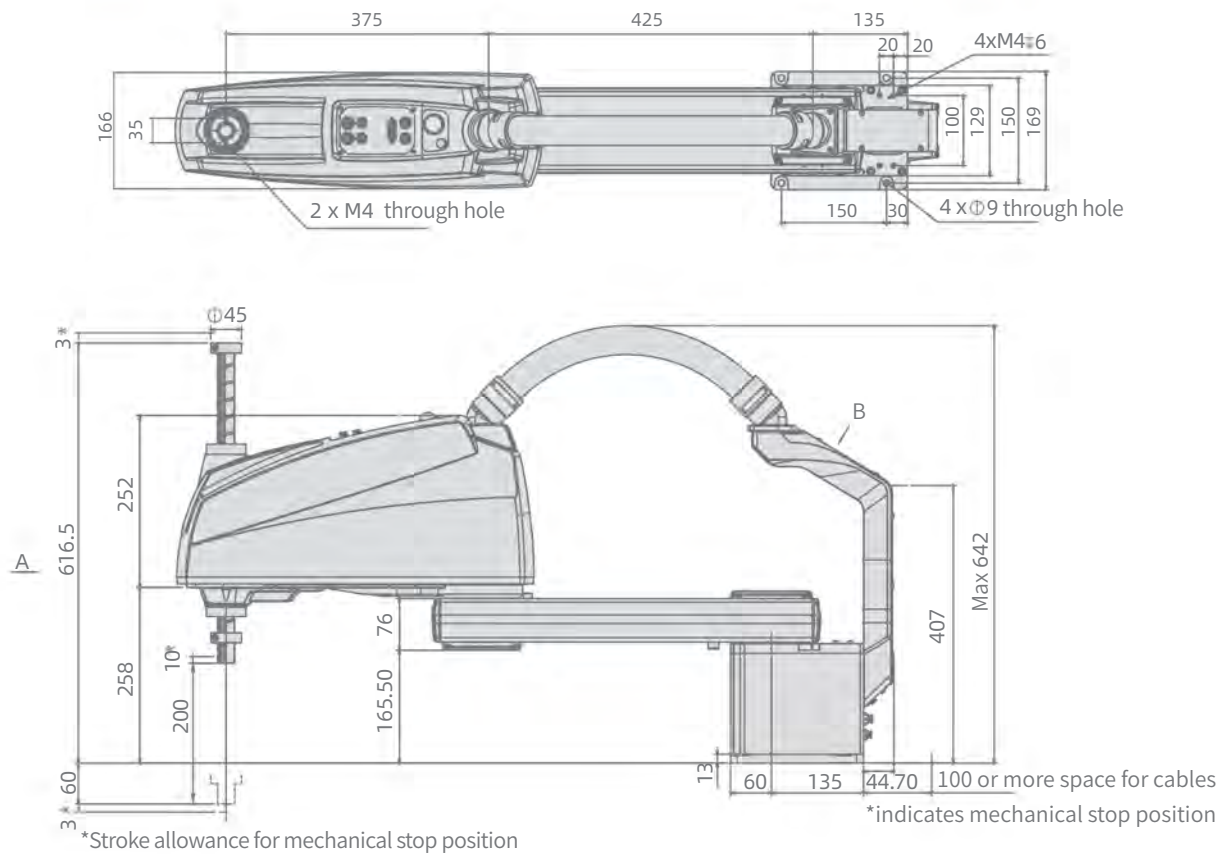
Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

[www.sharewell.cc](http://www.sharewell.cc)



## Outer Dimensions and Motion Range

mm



# P20 series

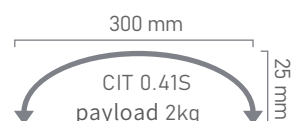
Scara Robot

## Model P20-804S

Operating range    Arm length 800mm    Joint#3 stroke 420mm

Payload                      Rated 10kg/Maximum 20kg

Standard cycle time    0.41 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability	$\pm 0.025\text{mm}$	$\pm 0.01\text{mm}$	$\pm 0.01^\circ$
	Joint #1,#2	Joint #3	Joint #4

### Parameters of each axis

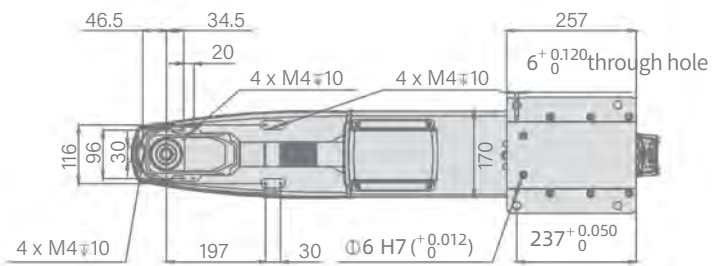
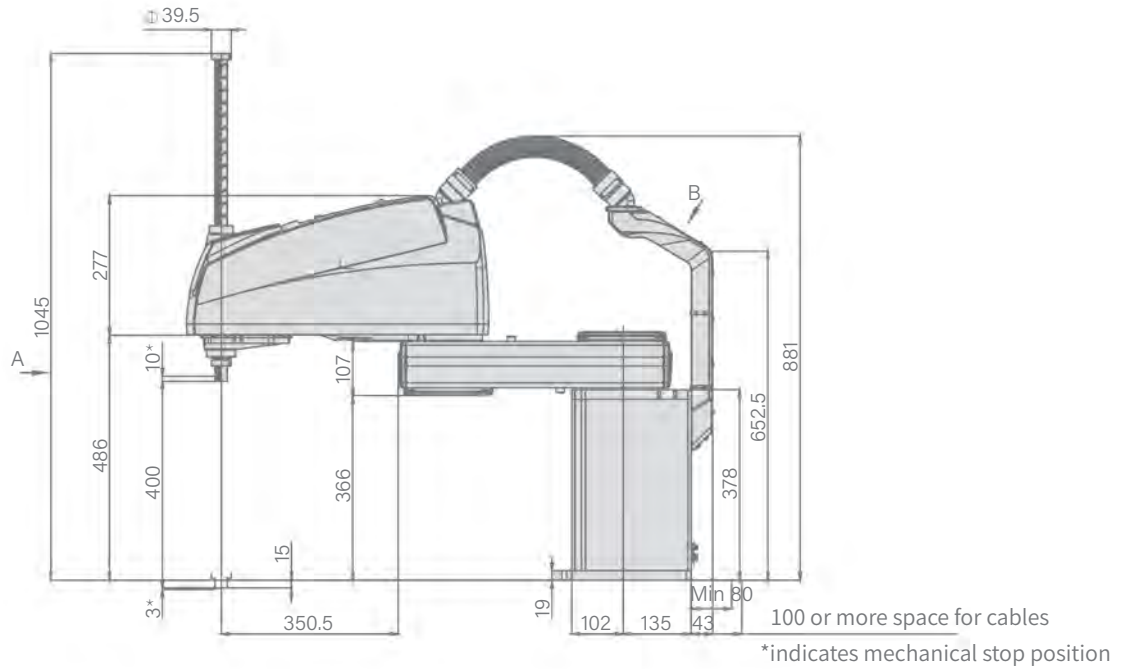
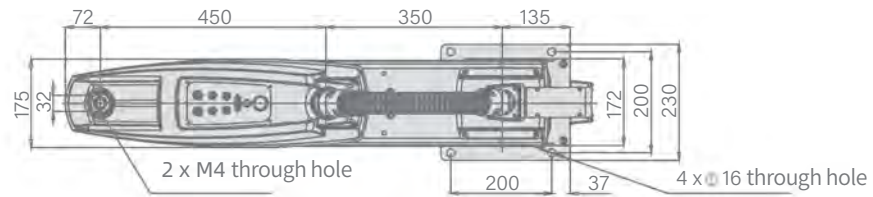
Joint Content	#1	#2	#3	#4
MAX Operating Speed	9485mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	49kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

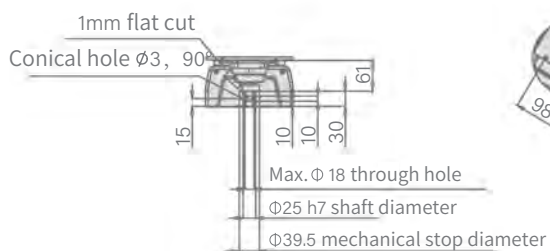
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

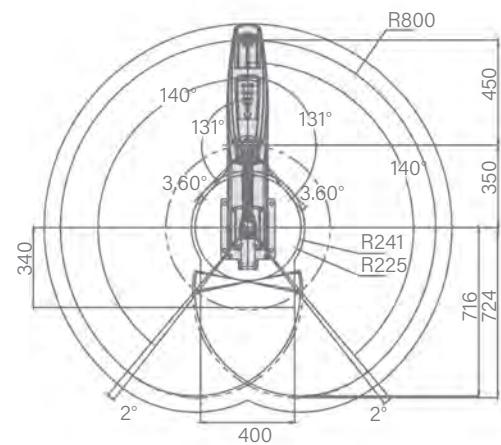
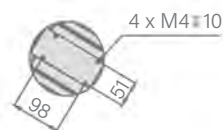
## Outer Dimensions and Motion Range



Detailed view from A



Detailed view from B



# P20 series

Scara Robot

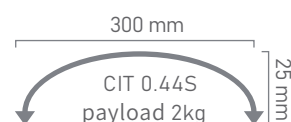


## Model P20-904S

Operating range    Arm length 900mm    Joint#3 stroke 420mm

Payload                      Rated 10kg/Maximum 20kg

Standard cycle time    0.44 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

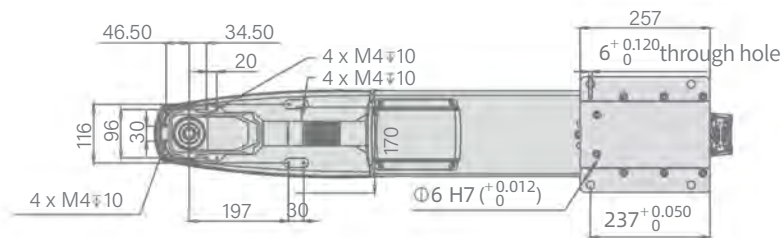
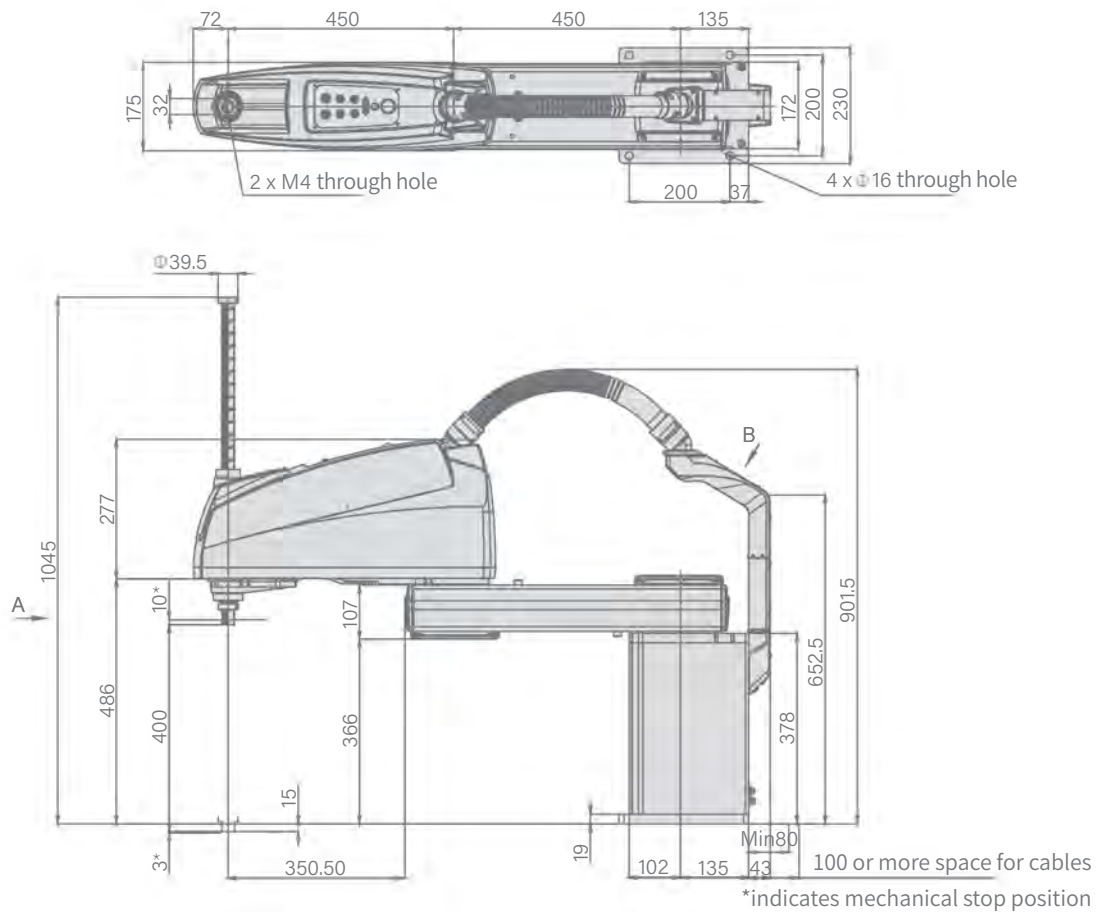
Joint Content	#1	#2	#3	#4
MAX Operating Speed	10244 mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	52kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

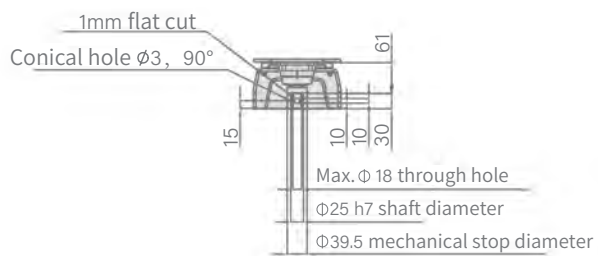
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Stander/Clean (Customized)

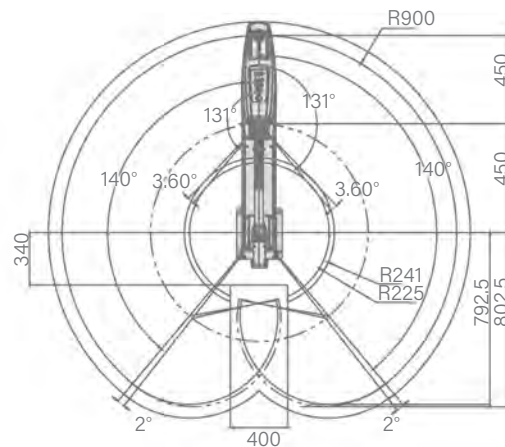
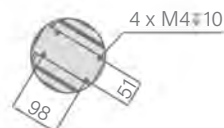
## Outer Dimensions and Motion Range



Detailed view from A



Detailed view from B



# P20 series

Scara Robot

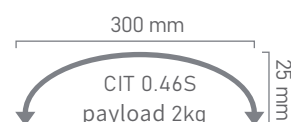


## Model P20-1004S

Operating range    Arm length 1000mm    Joint#3 stroke 420mm

Payload                      Rated 10kg/Maximum 20kg

Standard cycle time    0.46 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	11003mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	55kg (cables not included )			

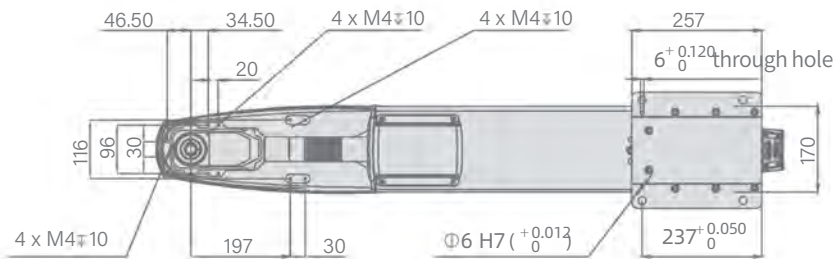
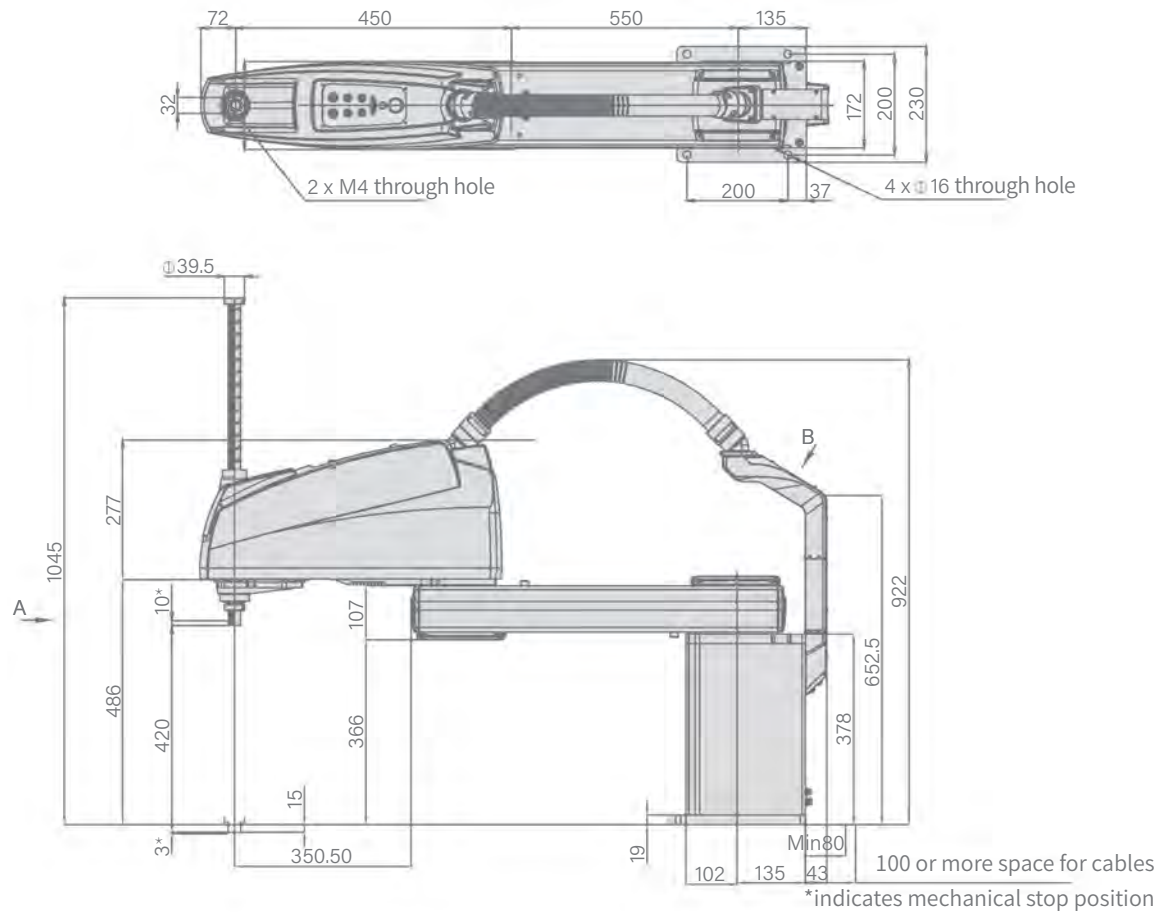
Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

### Electrical parameters

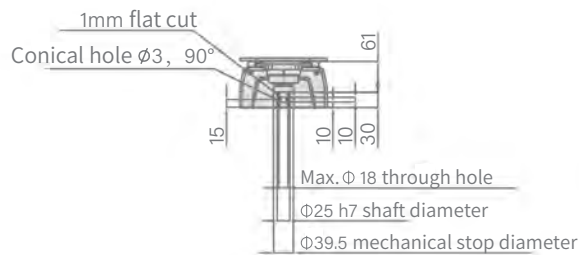
Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



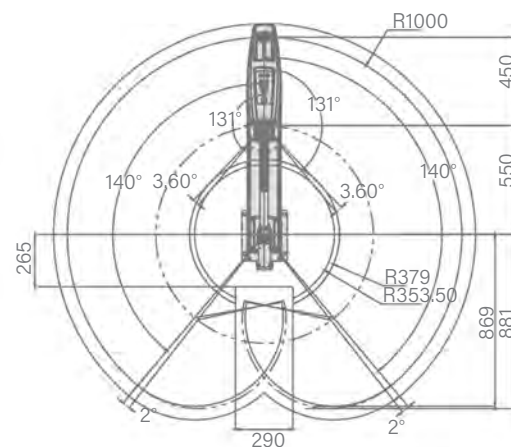
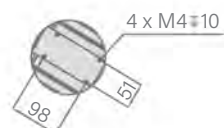
## Outer Dimensions and Motion Range



Detailed view from A



Detailed view from B



# P40 series

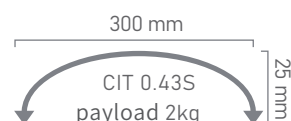
Scara Robot

## Model P40-804S

Operating range    Arm length 800mm    Joint#3 stroke 420mm

Payload                      Rated 20kg/Maximum 40kg

Standard cycle time    0.43 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability	$\pm 0.025\text{mm}$	$\pm 0.01\text{mm}$	$\pm 0.01^\circ$
	Joint #1,#2	Joint #3	Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	8271 mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	49kg (cables not included)			

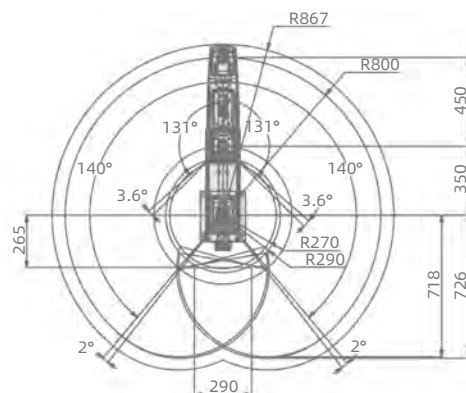
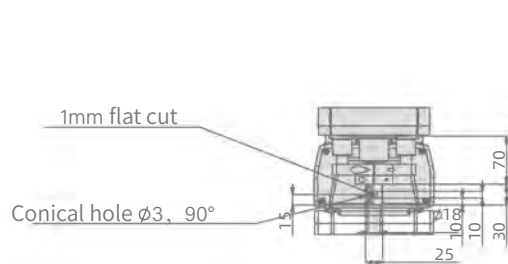
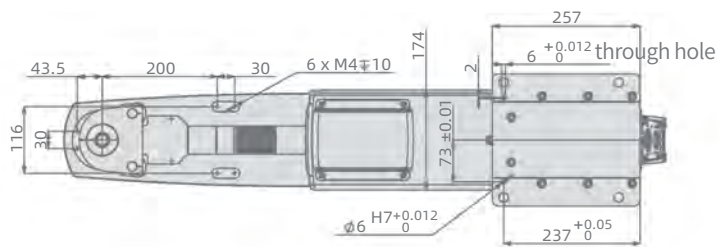
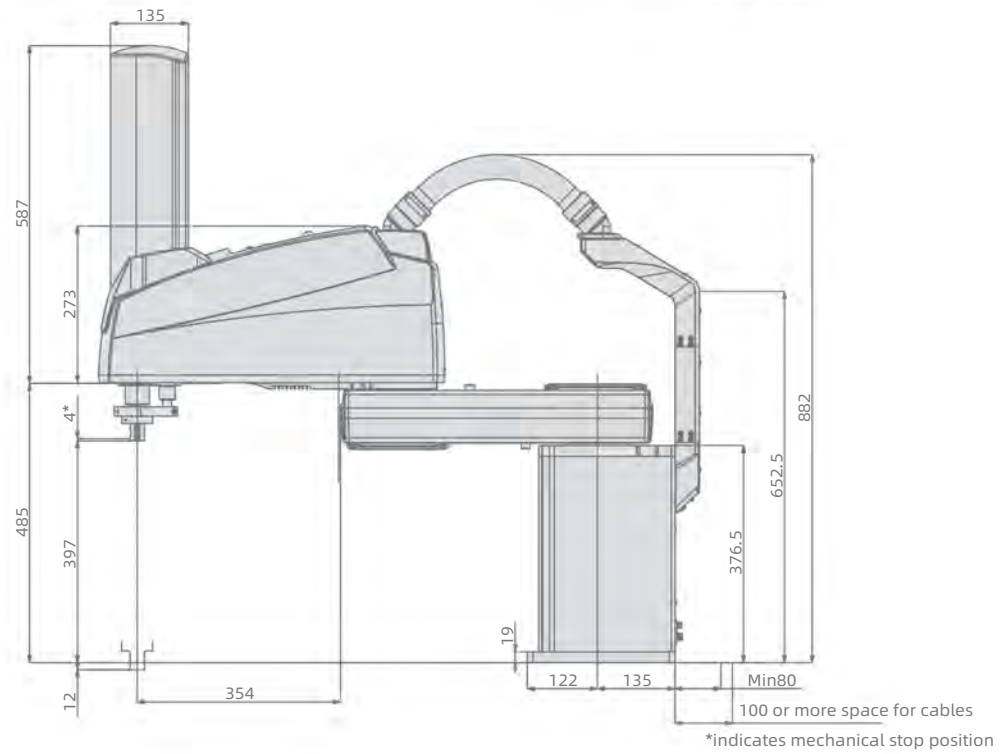
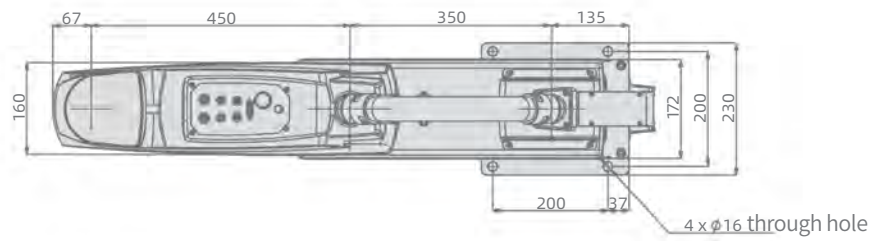
Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# P40 series

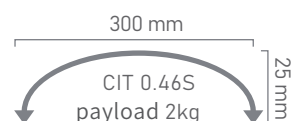
Scara Robot

## Model P40-904S

Operating range    Arm length 900mm    Joint#3 stroke 420mm

Payload                      Rated 20kg/Maximum 40kg

Standard cycle time    0.46 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	8878 mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	52kg (cables not included )			

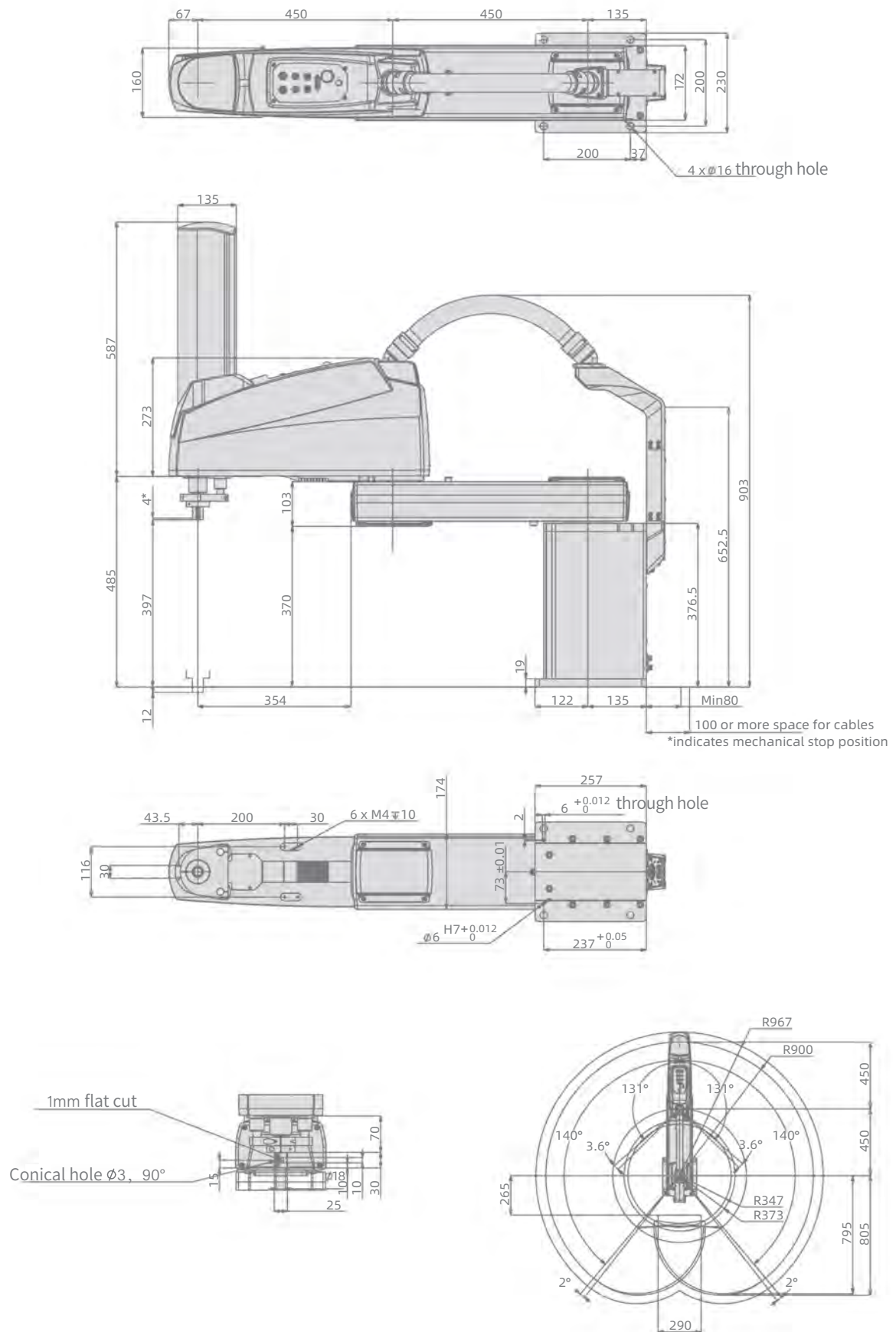
Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm}^2$ , $\phi 6\text{mm}^2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

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## Outer Dimensions and Motion Range



# P40 series

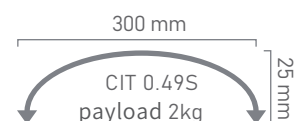
Scara Robot

## Model P40-1004S

Operating range    Arm length 1000mm    Joint#3 stroke 420mm

Payload                    Rated 20kg/Maximum 40kg

Standard cycle time    0.49 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability	$\pm 0.025\text{mm}$	$\pm 0.01\text{mm}$	$\pm 0.01^\circ$
	Joint #1,#2	Joint #3	Joint #4

### Parameters of each axis

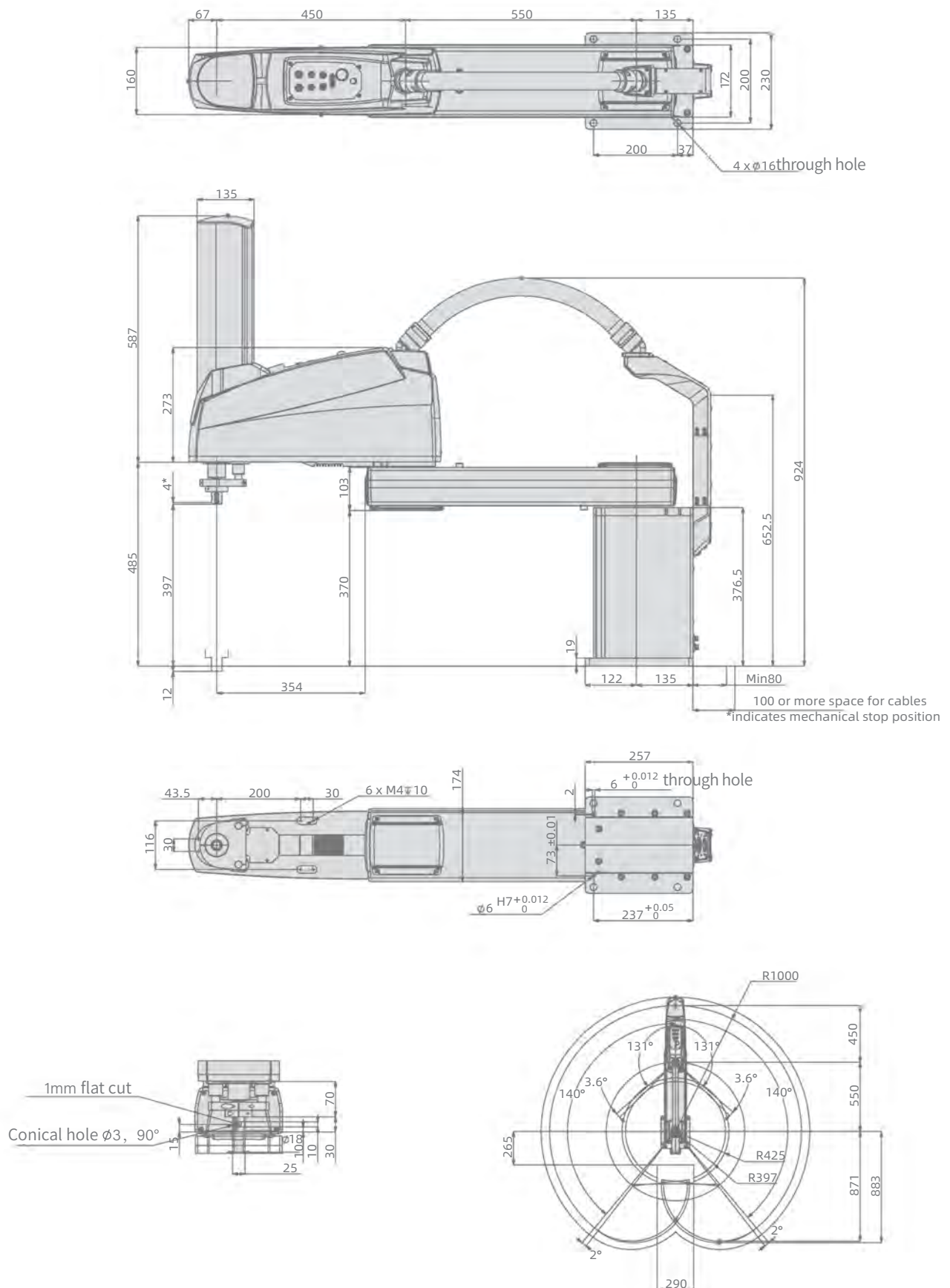
Joint Content	#1	#2	#3	#4
MAX Operating Speed	9485 mm/s		2020 mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	55kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.05\text{kg} \cdot \text{m}^2$ , maximum  $0.45\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network int
Installation Environment	Standard/Clean (Customi

## Outer Dimensions and Motion Range



# P60 series

Scara Robot

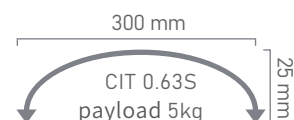


## Model P60-1204S

Operating range    Arm length 1200mm    Joint#3 stroke 400mm

Payload                    Rated 60kg/Maximum 100kg

Standard cycle time    0.63 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 5kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.05\text{mm}$      $\pm 0.02\text{mm}$      $\pm 0.005^\circ$   
                                  Joint #1,#2                    Joint #3                    Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7400 mm/s		750 mm/s	600° /s
MAX Motion Range	$\pm 125^\circ$	$\pm 150^\circ$	400mm	$\pm 180^\circ$
Motor Power Consumption	2000W	1000W	750W	750W
Weight	124kg (cables not included )			

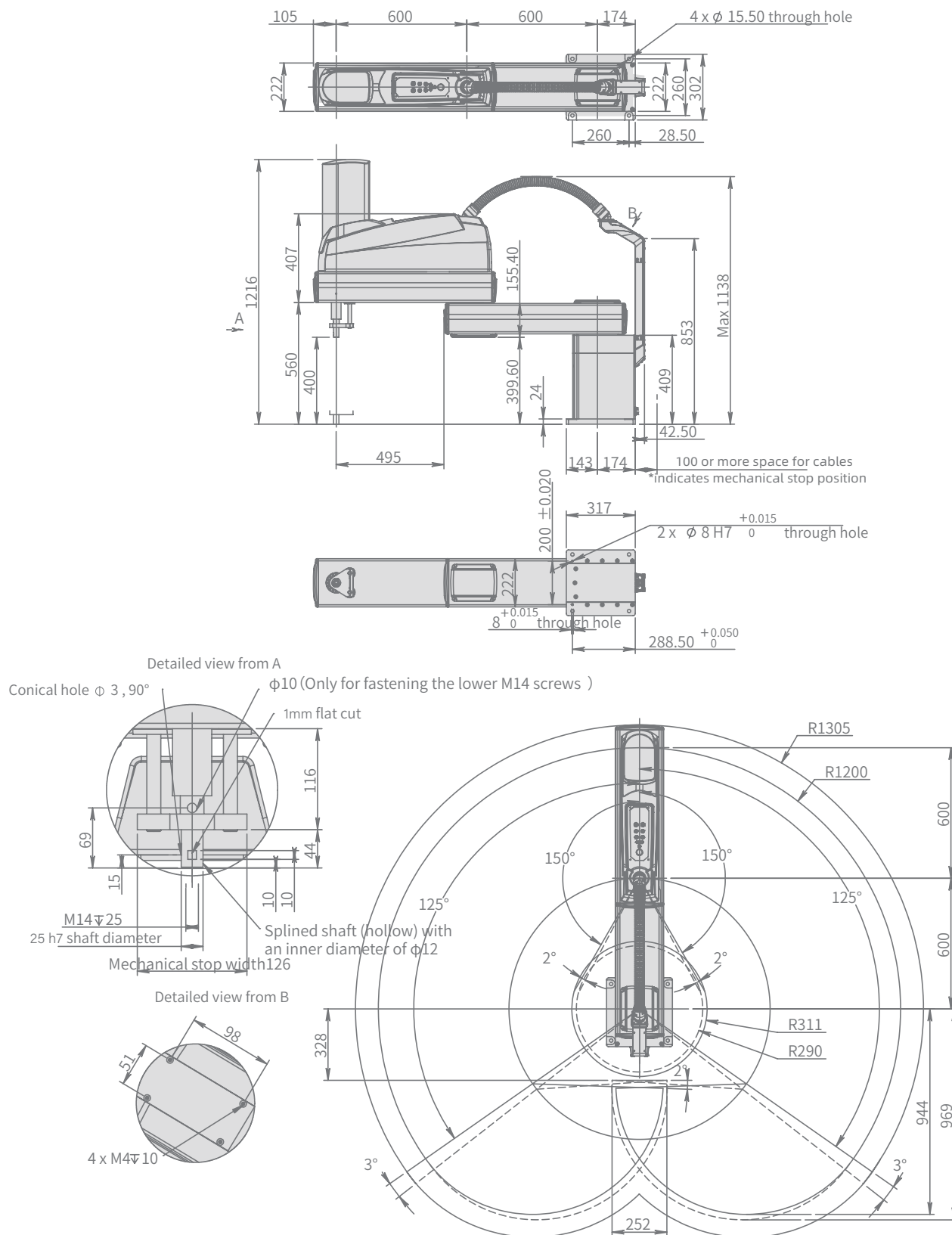
Joint #4 allowable moment of inertia, rate  $2.45\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customizable)

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## Outer Dimensions and Motion Range





# P100 series

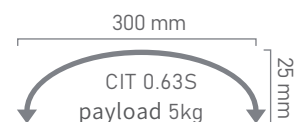
Scara Robot

## Model P100-1204S

Operating range    Arm length 1200mm    Joint#3 stroke 400mm

Payload                    Rated 60kg/Maximum 100kg

Standard cycle time    0.63 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 5kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.05\text{mm}$      $\pm 0.02\text{mm}$      $\pm 0.005^\circ$   
                                  Joint #1,#2                    Joint #3                    Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7400 mm/s		750 mm/s	600° /s
MAX Motion Range	$\pm 125^\circ$	$\pm 150^\circ$	400mm	$\pm 180^\circ$
Motor Power Consumption	2000W	1000W	750W	750W
Weight	124kg (cables not included )			

Joint #4 allowable moment of inertia, rate 2.45kg·m<sup>2</sup>

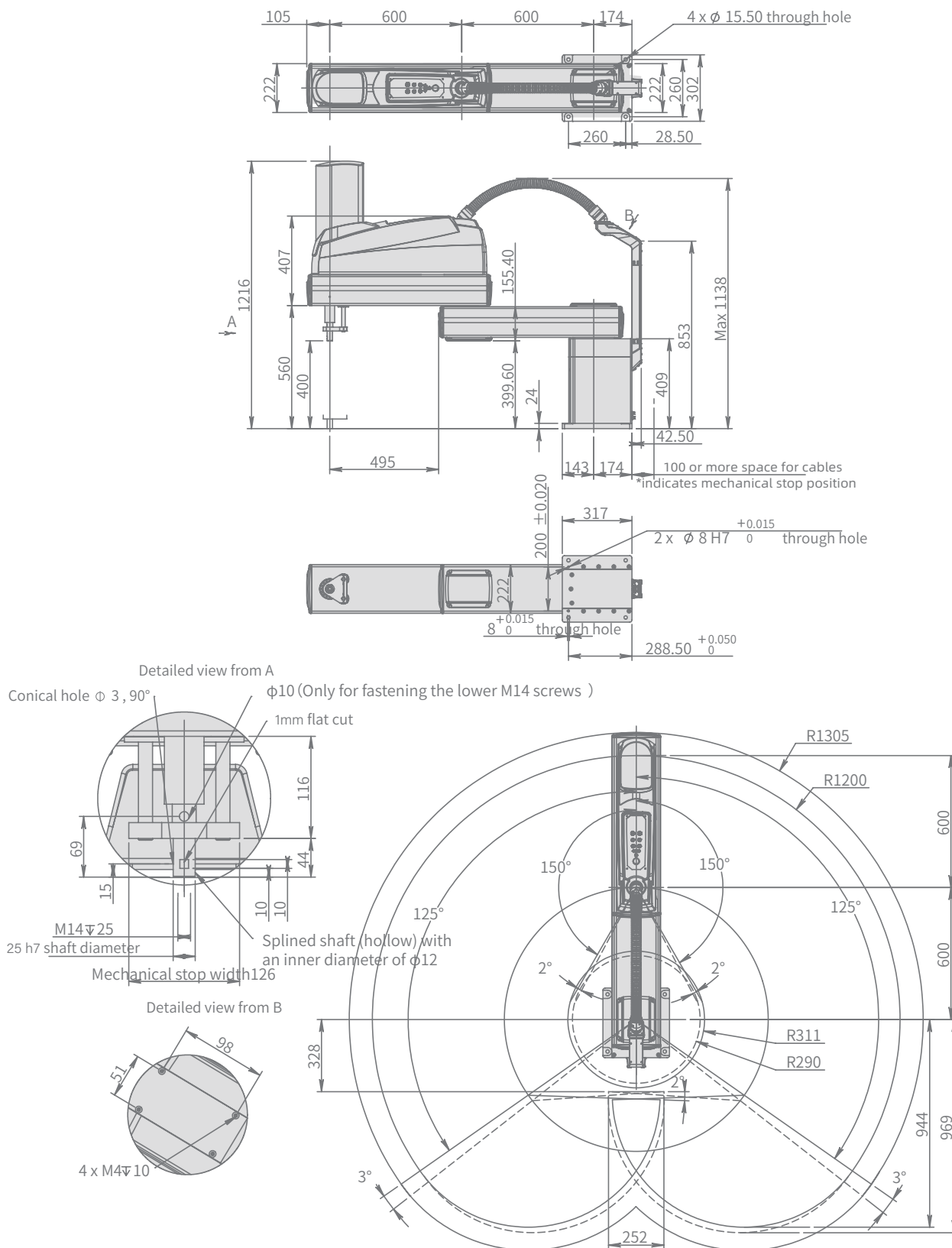
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network int
Installation Environment	Standerd/Clean (Customi

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## Outer Dimensions and Motion Range



# R6 series

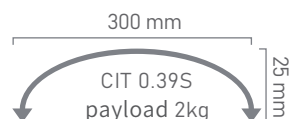
Scara Robot

## Model R6-502S

Operating range    Arm length 500mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.39 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

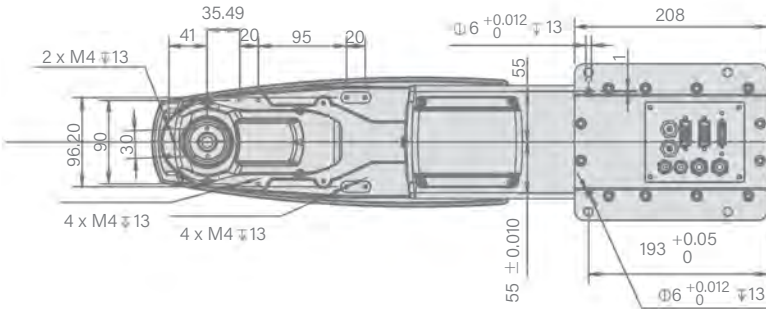
Joint Content	#1	#2	#3	#4
MAX Operating Speed	6150 mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 270^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	19kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.01\text{kg}\cdot\text{m}^2$ , maximum  $0.12\text{kg}\cdot\text{m}^2$

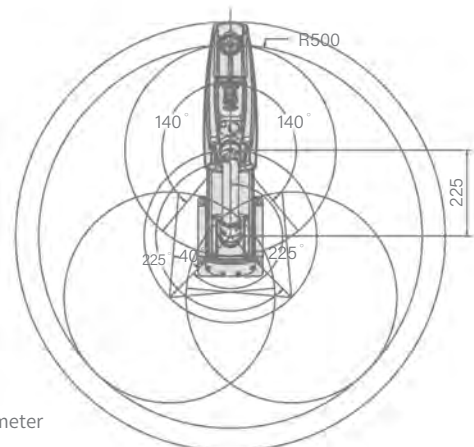
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm}\times 2$ , $\phi 6\text{mm}\times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

### Outer Dimensions and Motion Range



Technical drawing of the rear view of the 1000W motor. Dimensions shown include a 90° angle, a 15mm dimension, a 62mm dimension, a 30mm dimension, and a 10mm dimension. Shaft specifications are listed as: Max.  $\Phi 12$  thru  $\Phi 20$  H7 shaft,  $\Phi 38$  mechanical.



# R6 series

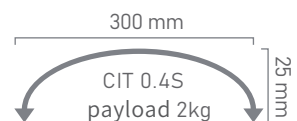
Scara Robot

## Model R6-602S

Operating range    Arm length 600mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.4 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6800mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 270^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	20kg (cables not included)			

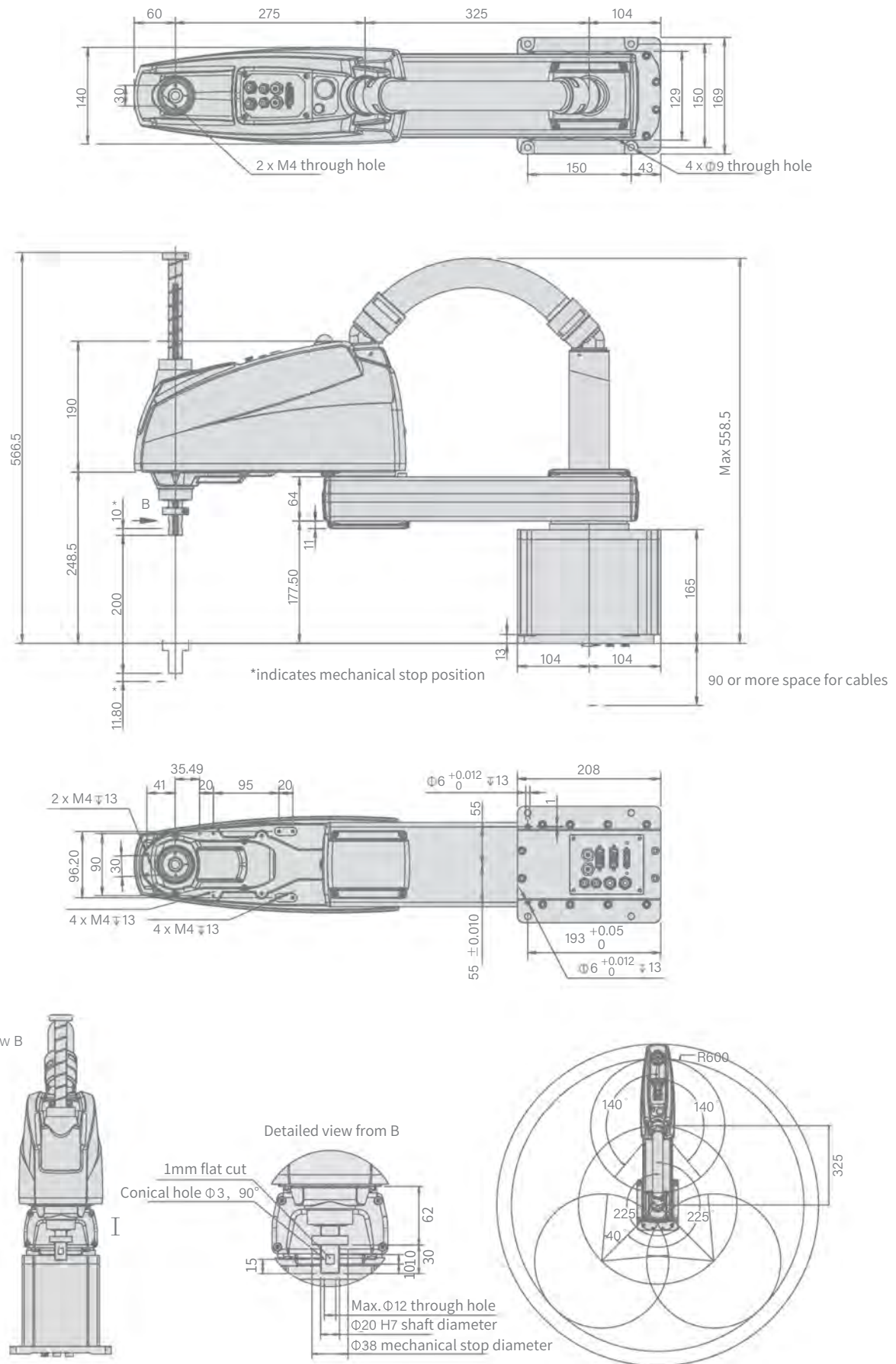
Joint #4 allowable moment of inertia, rate  $0.01\text{kg}\cdot\text{m}^2$ , maximum  $0.12\text{kg}\cdot\text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# R6 series

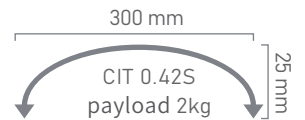
Scara Robot

## Model R6-702S

Operating range    Arm length 700mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.42 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7450 mm/s		1100 mm/s	2000°/s
MAX Motion Range	$\pm 270^\circ$	$\pm 150^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	21kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

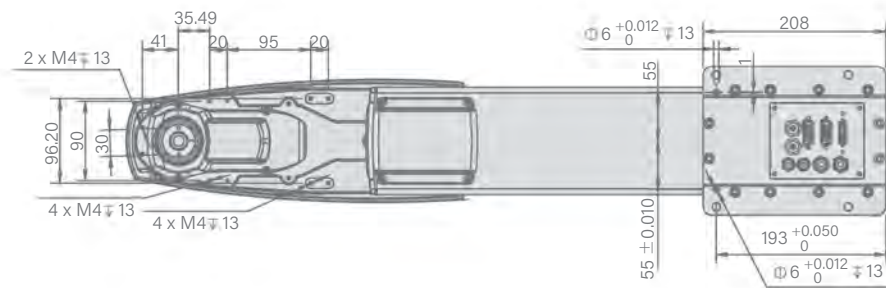
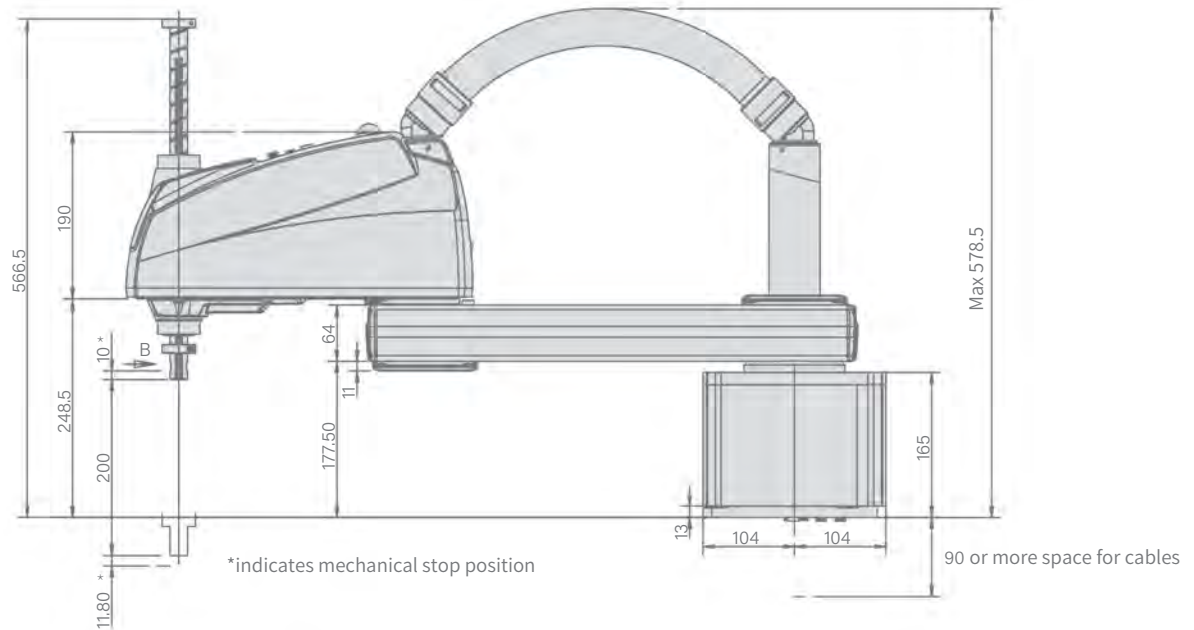
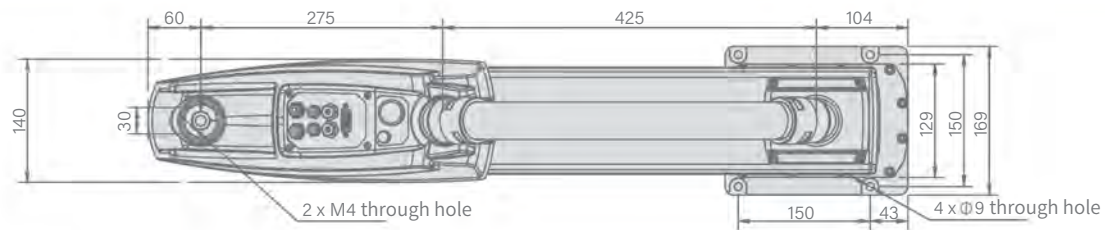
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

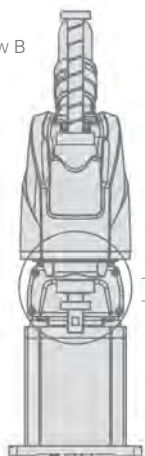




## Outer Dimensions and Motion Range

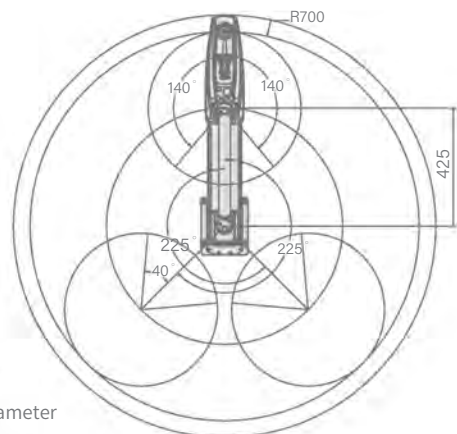
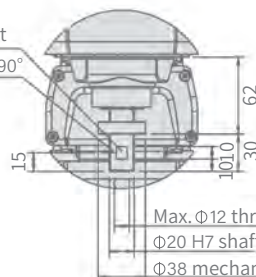


View B



Detailed view from B

1mm flat cut  
Conical hole  $\Phi 3$ ,  $90^\circ$





# W6series

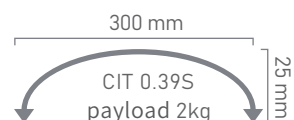
Scara Robot

## Model W6-502S

Operating range    Arm length 500mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.39 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6150 mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 117.2^\circ$	$\pm 140^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	19kg (cables not included )			

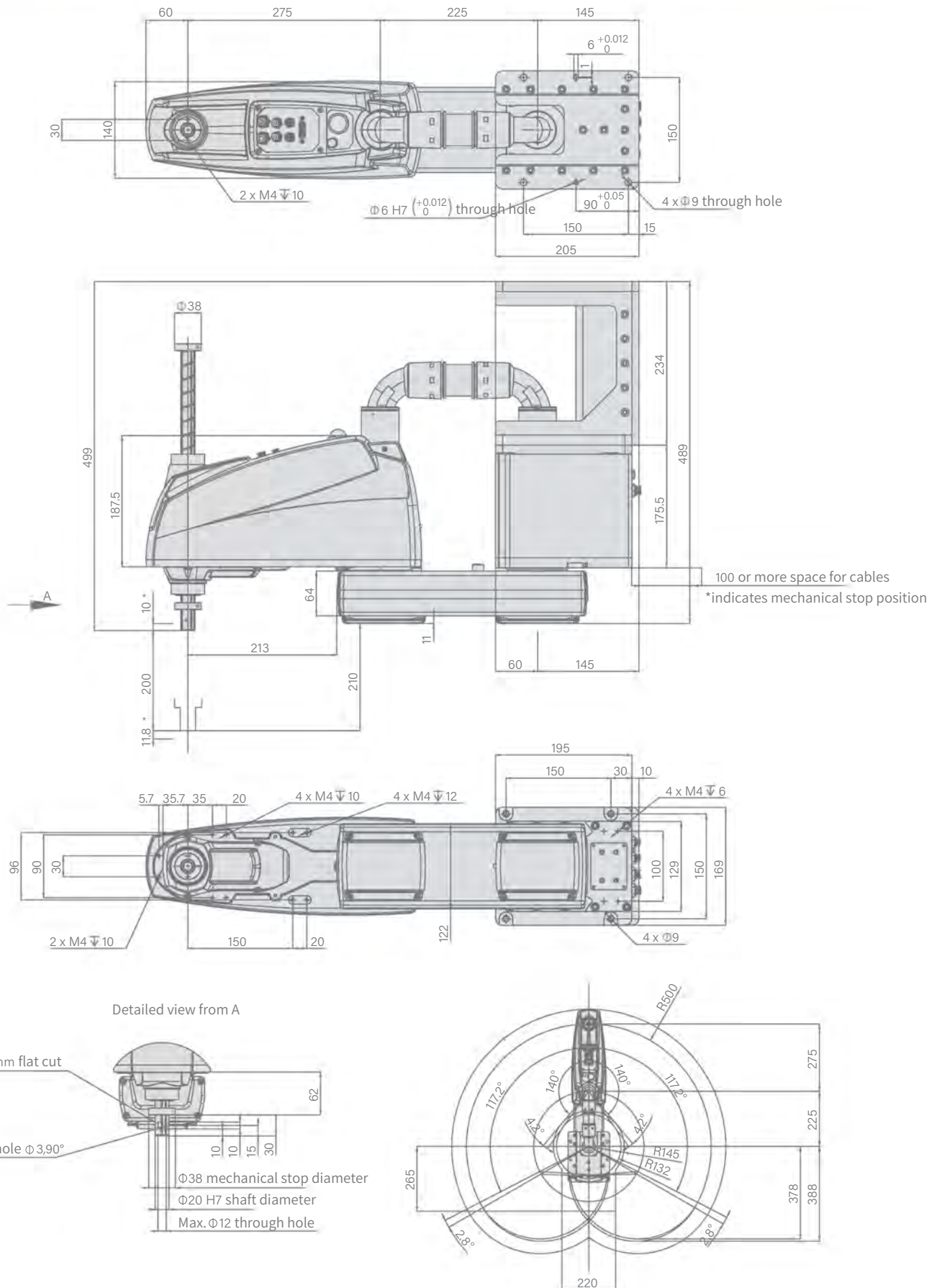
Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# W6series

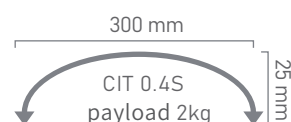
Scara Robot

## Model W6-602S

Operating range    Arm length 600mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.4 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6800mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 117.2^\circ$	$\pm 140^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	20kg (cables not included)			

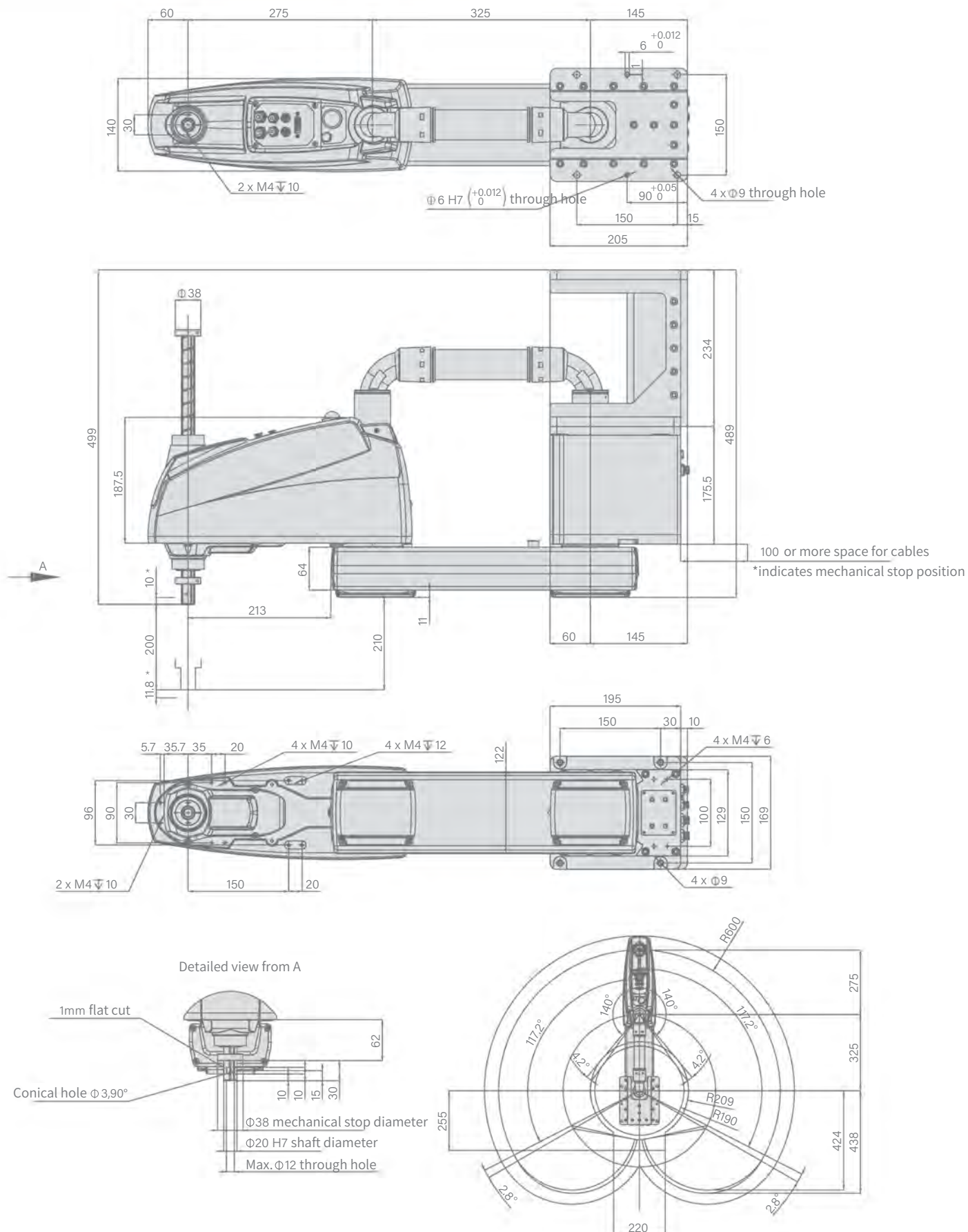
Joint #4 allowable moment of inertia, rate  $0.01\text{kg}\cdot\text{m}^2$ , maximum  $0.12\text{kg}\cdot\text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# W6series

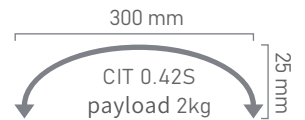
Scara Robot

## Model W6-702S

Operating range    Arm length 700mm    Joint#3 stroke 200mm

Payload                      Rated 2kg/Maximum 6kg

Standard cycle time    0.42 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

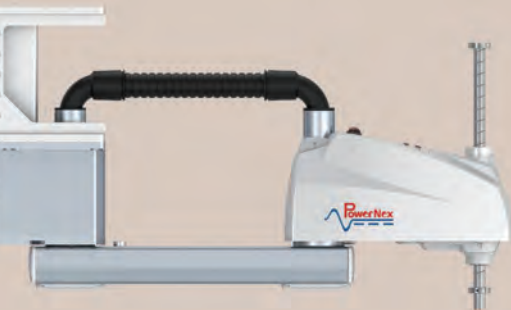
### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7450 mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 117.2^\circ$	$\pm 140^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	21kg (cables not included)			

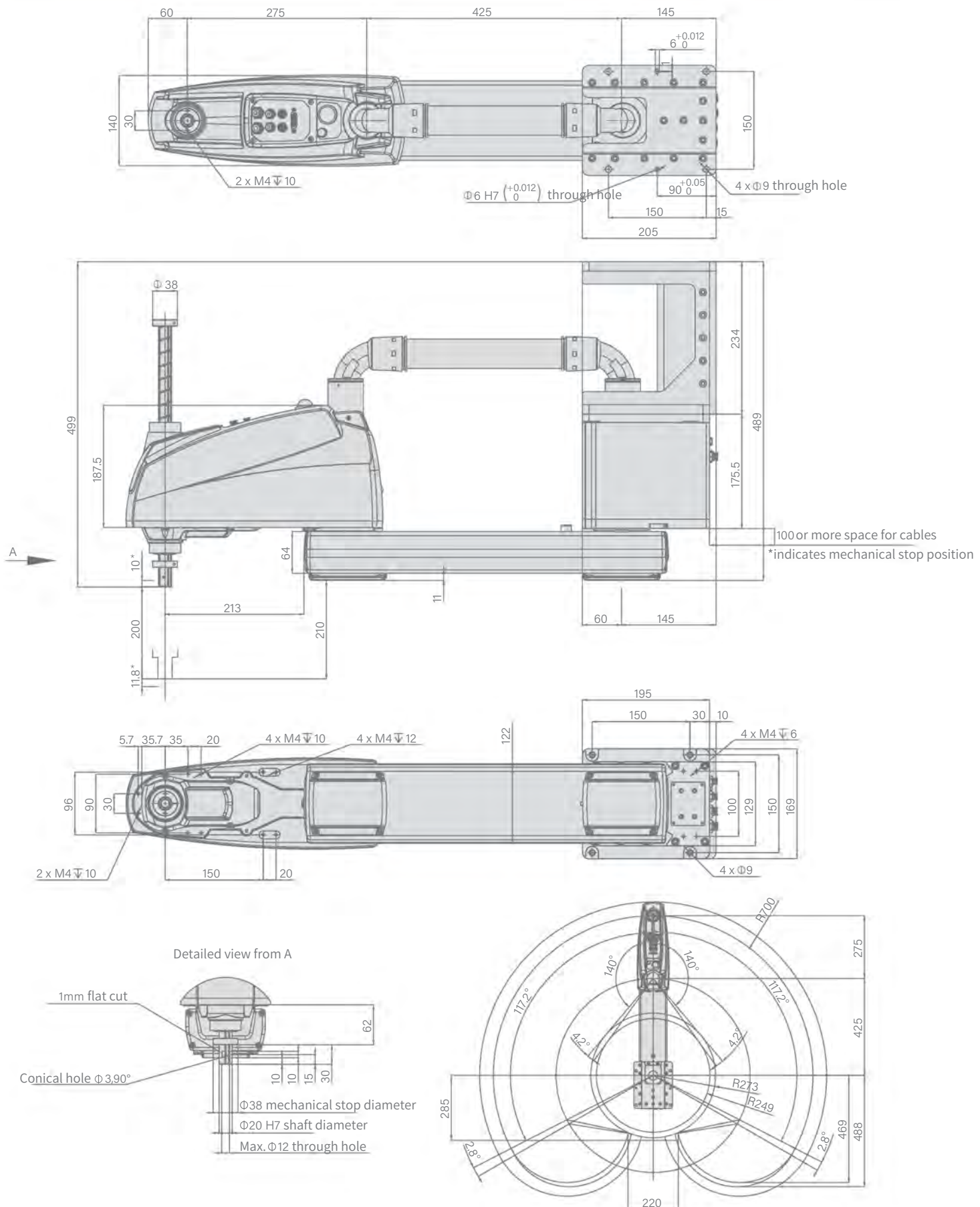
Joint #4 allowable moment of inertia, rate  $0.01\text{kg} \cdot \text{m}^2$ , maximum  $0.12\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range





# E4 series

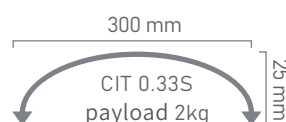
Scara Robot

## Model E4-401S

Operating range    Arm length 400mm    Joint#3 stroke 130mm

Payload                      Rated 1kg/Maximum 4kg

Standard cycle time    0.33 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.01\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6237 mm/s		1100mm/s	2600°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 225$	130mm	$\pm 720^\circ$
Motor Power Consumption	400W	400W	100W	100W
Joint#3 down force			150N	
Weight	20kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

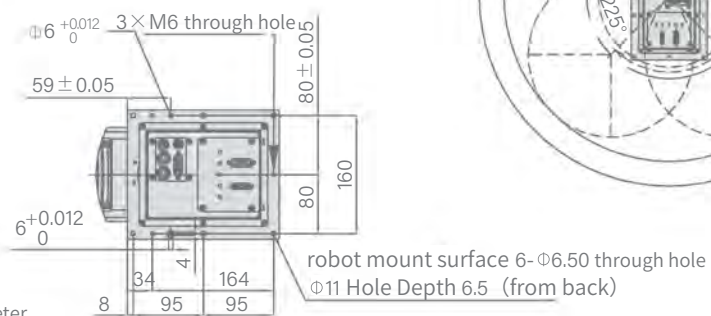
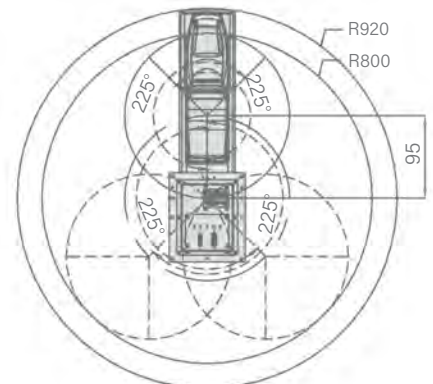
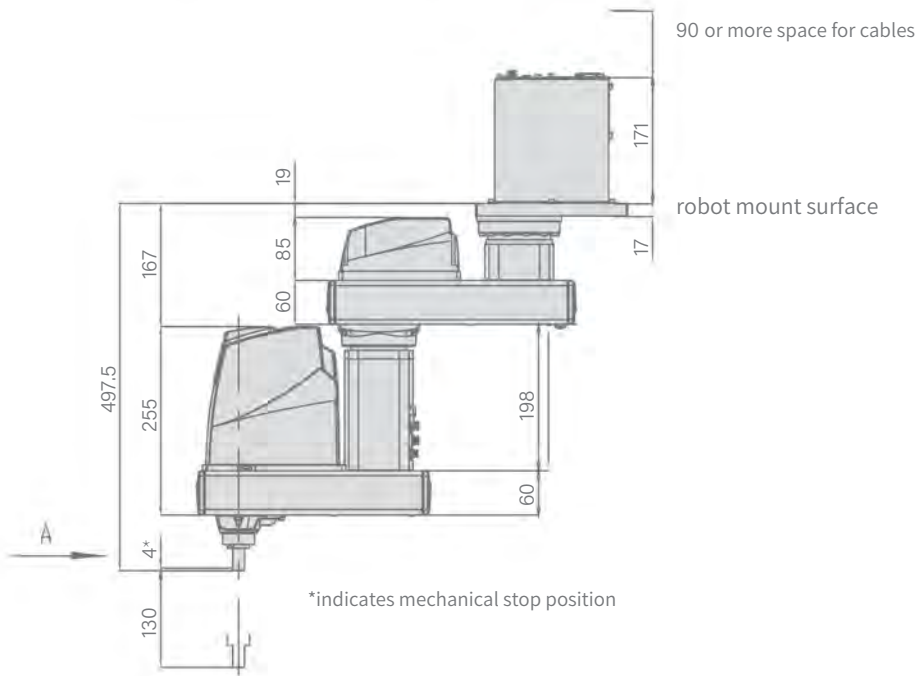
### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	15 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$ , $\phi 6\text{mm} \times 2$
Visual Interface	-
Installation Environment	Standard/Clean (Customized)





### Outer Dimensions and Motion Range



datum through hole  
(Bottom view of the base)

# E4 series

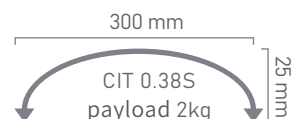
Scara Robot

## Model E4-551S

Operating range    Arm length 550mm    Joint#3 stroke 130mm

Payload                      Rated 1kg/Maximum 4kg

Standard cycle time    0.38 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.015\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7400 mm/s		1100 mm/s	2600°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 225^\circ$	130mm	$\pm 720^\circ$
Motor Power Consumption	400W	400W	100W	100W
Joint#3 down force			150N	
Weight	22kg (cables not included)			

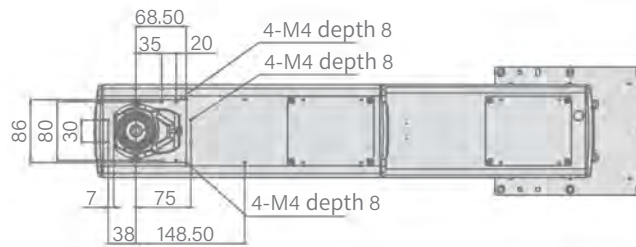
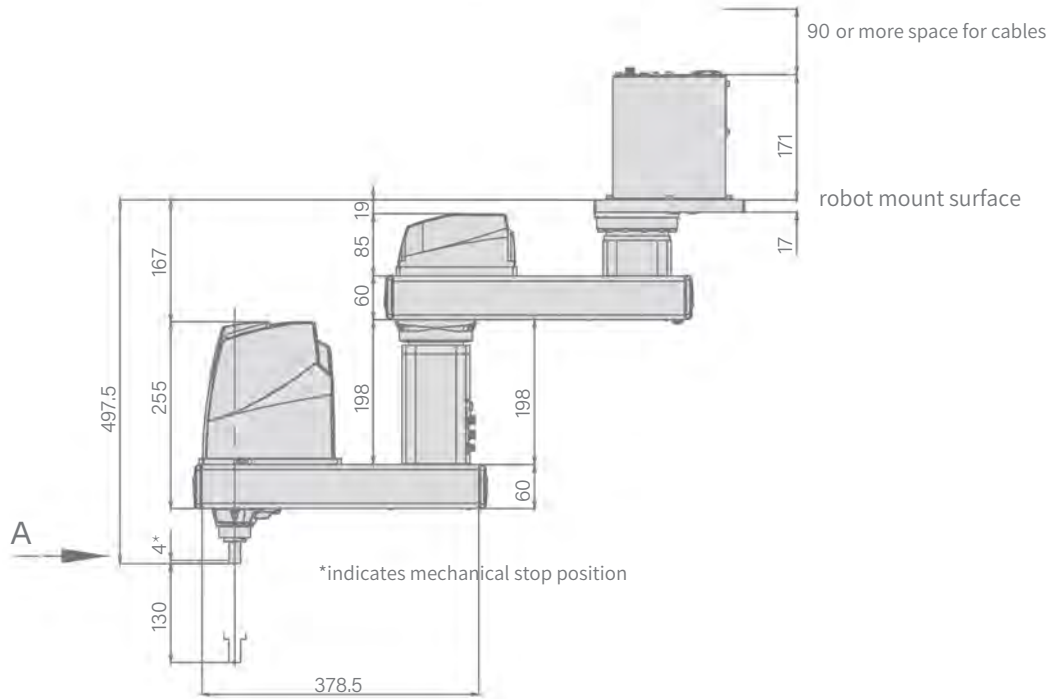
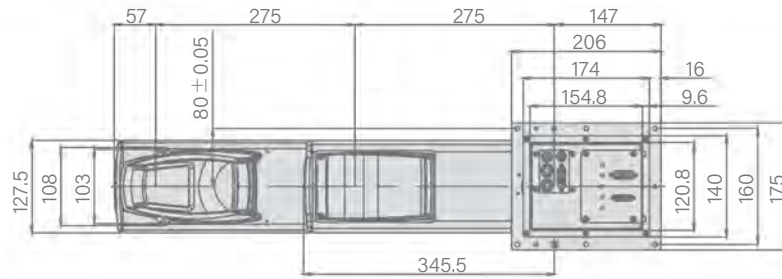
Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

### Electrical parameters

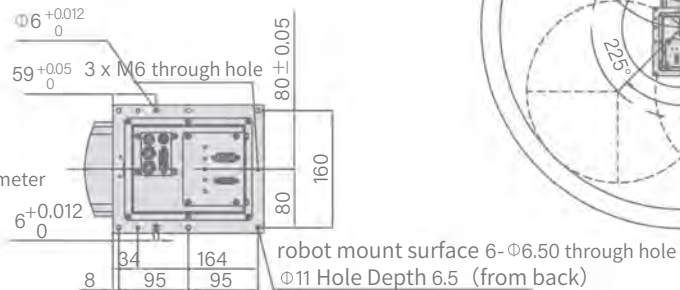
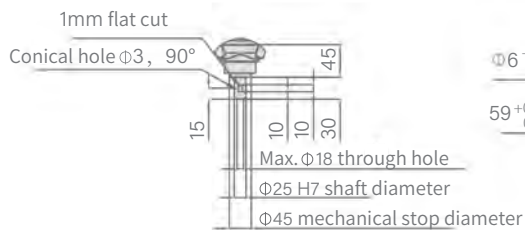
Origin Return	None Need Origin Return
Installed wire for customer	15 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$ , $\phi 6\text{mm} \times 2$
Visual Interface	-
Installation Environment	Standard/Clean (Customized)



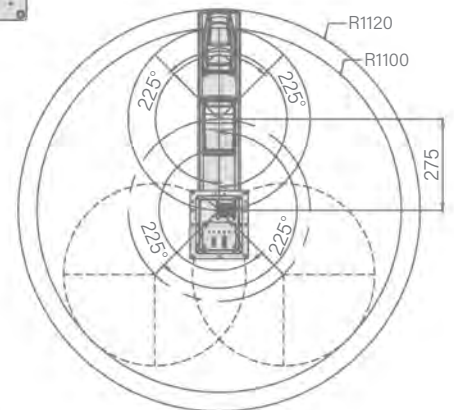
## Outer Dimensions and Motion Range



Detailed view from A



datum through hole  
(Bottom view of the base)



# E10 series

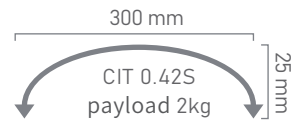
Scara Robot

## Model E10-551S

Operating range    Arm length 550mm    Joint#3 stroke 100mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.42 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.025\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7500 mm/s		1100 mm/s	2600°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 225^\circ$	100mm	$\pm 720^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	40kg (cables not included)			

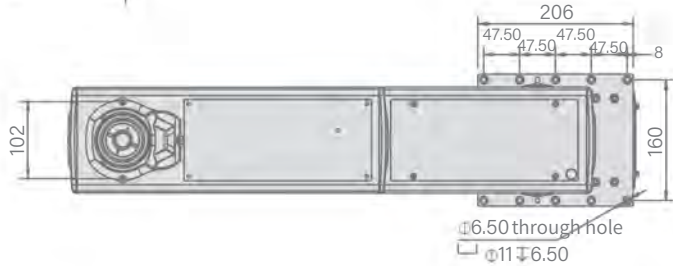
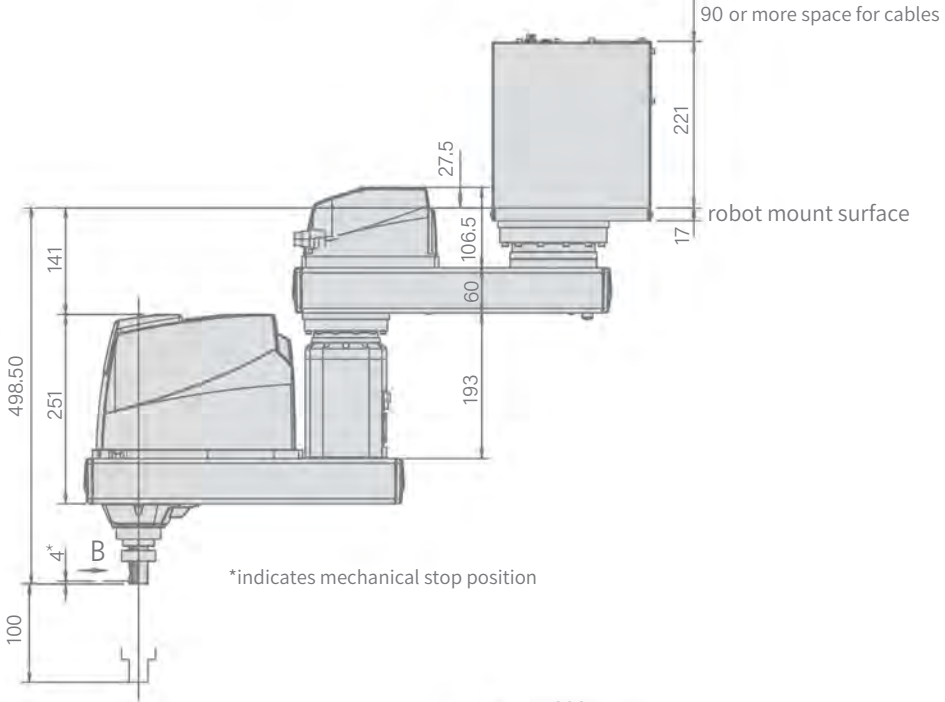
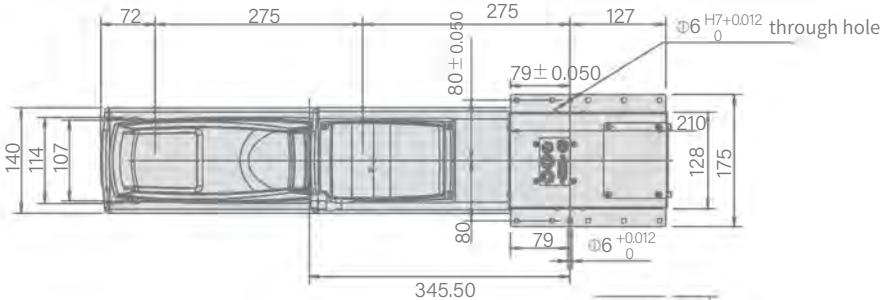
Joint #4 allowable moment of inertia, rate  $0.02\text{kg}\cdot\text{m}^2$ , maximum  $0.3\text{kg}\cdot\text{m}^2$

### Electrical parameters

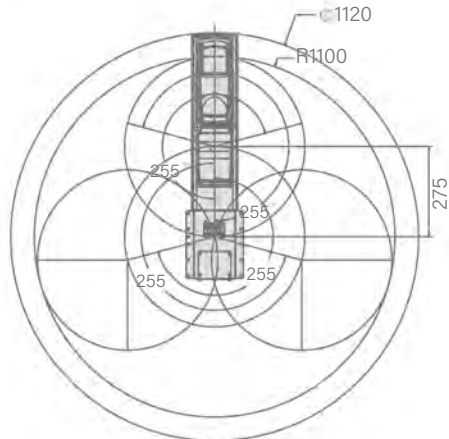
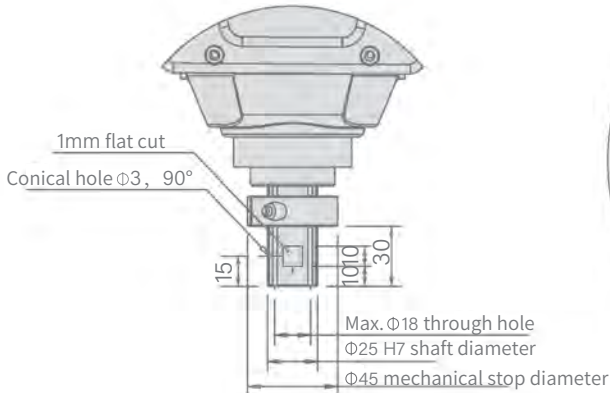
Origin Return	None Need Origin Return
Installed wire for customer	15 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$ , $\phi 6\text{mm} \times 2$
Visual Interface	-
Installation Environment	Standard/Clean (Customized)



### Outer Dimensions and Motion Range



III  
1:5



# D4series

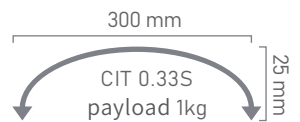
Scara Robot

## Model D4-401S

Operating range    Arm length 400mm    Joint#3 stroke 130mm

Payload                      Rated 1kg/Maximum 4kg

Standard cycle time    0.33 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.01\text{mm}$      $\pm 0.01\text{mm}$      $\pm 0.01^\circ$   
Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1\#5	#2	#3	#4
MAX Operating Speed	6237 mm/s	6237 mm/s	1100 mm/s	2600°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 225^\circ$	130mm	$\pm 720^\circ$
Motor Power Consumption	400W\750W	400W	100W	100W
Joint#3 down force			150N	
Weight	50kg (cables not included )			

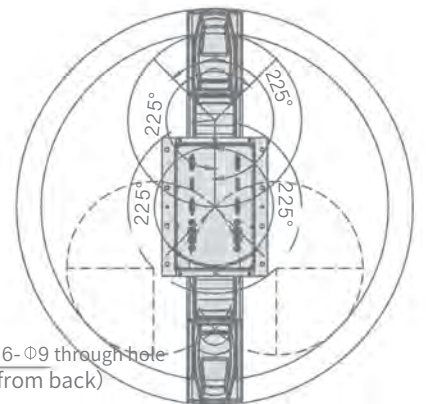
Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	15 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$ , $\phi 6\text{mm} \times 2$
Visual Interface	-
Installation Environment	Standard/Clean (Customized)



### Outer Dimensions and Motion Range



Technical drawing of the shaft assembly showing dimensions and features:

- 1mm flat cut
- Conical hole  $\phi 3$ ,  $90^\circ$
- 45.5
- 15
- 10
- 10
- 30
- Max.  $\phi 9$  through hole
- $\phi 16$  H7 shaft diameter
- $\phi 30$  mechanical stop diameter
- 110
- $110 \pm 0.05$



# CE series

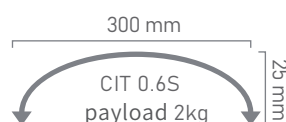
Scara Robot

## Model CE-600S

Operating range    Arm length 600mm    Joint#3 stroke 40mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.6 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.02\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

Joint Content	#1\#5	#2	#3	#4
MAX Operating Speed	7033 mm/s	3082 mm/s	2346 mm/s	3625°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 225^\circ$	40mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	100W	100W
Joint#3 down force	-	-	-	-
Weight	47kg (cables not included)			

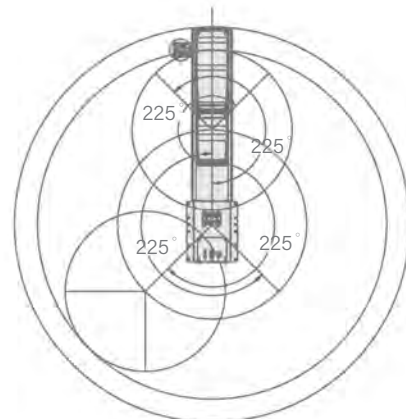
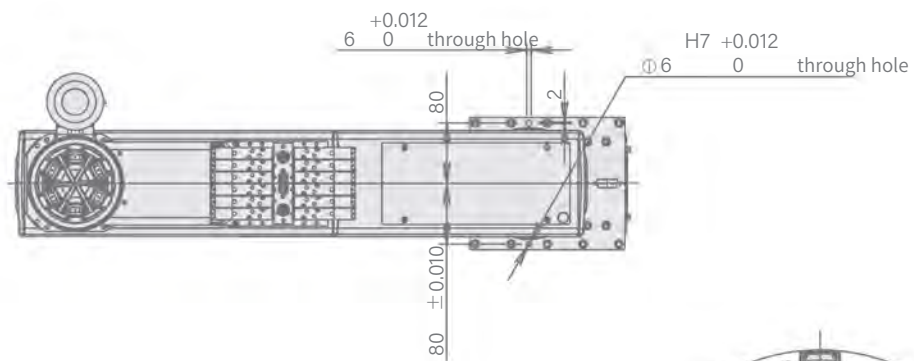
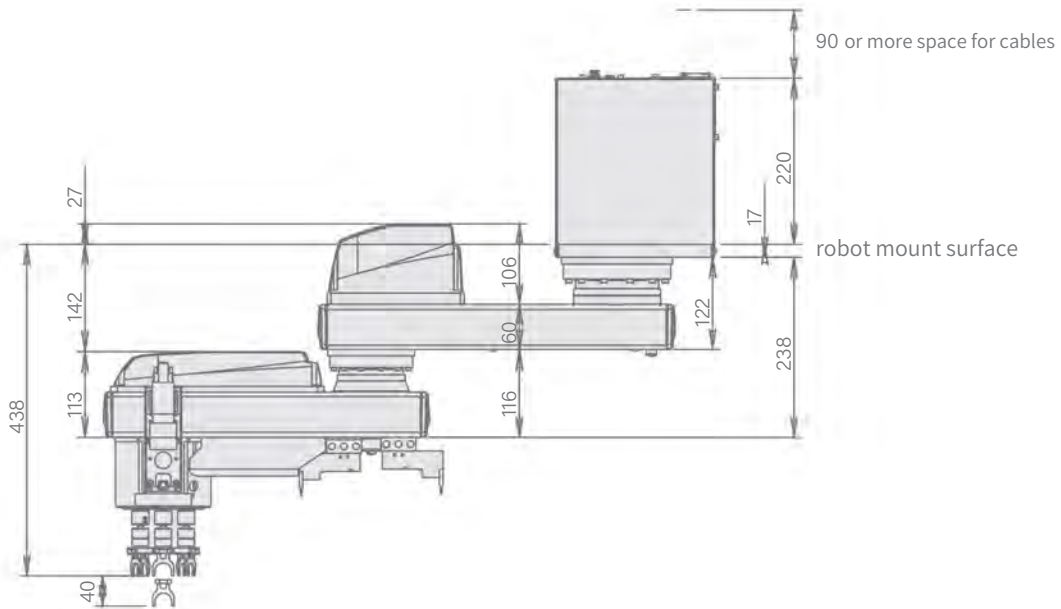
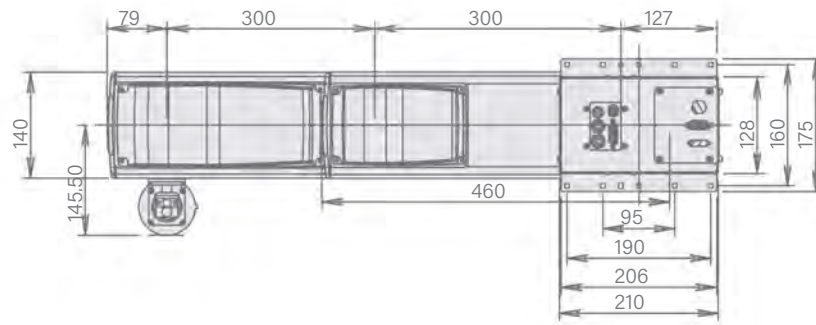
Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26+16 Pin (Max), with Six Wires
Installed pneumatic tube for customer use	$\phi 6\text{mm} \times 2$
Visual Interface	2
Installation Environment	Standard/Clean (Customized)



## Outer Dimensions and Motion Range



# CP series

Scara Robot

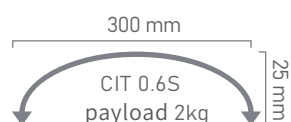


## Model CP-650S

Operating range    Arm length 650mm    Joint#3 stroke 40mm

Payload                      Rated 5kg/Maximum 10kg

Standard cycle time    0.6 sec



Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed)

Repeatability     $\pm 0.02\text{mm}$      $\pm 0.02\text{mm}$      $\pm 0.01^\circ$   
                                  Joint #1,#2                      Joint #3                      Joint #4

### Parameters of each axis

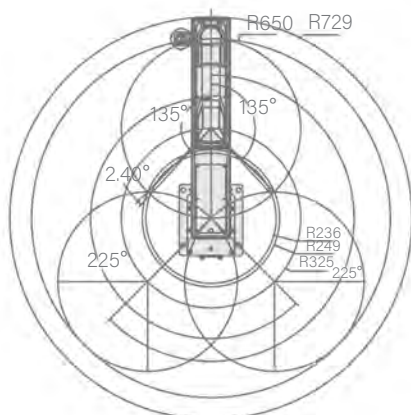
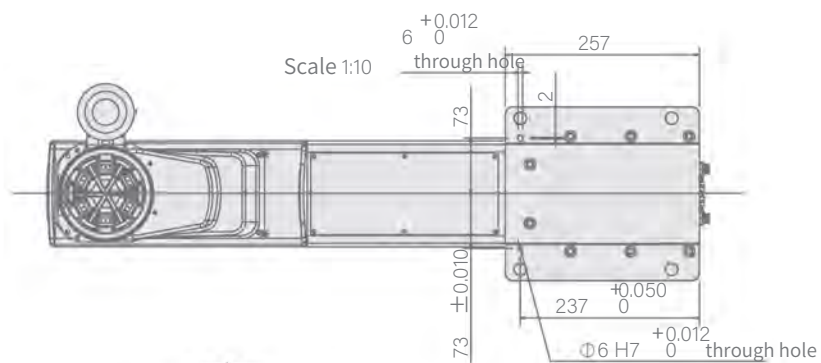
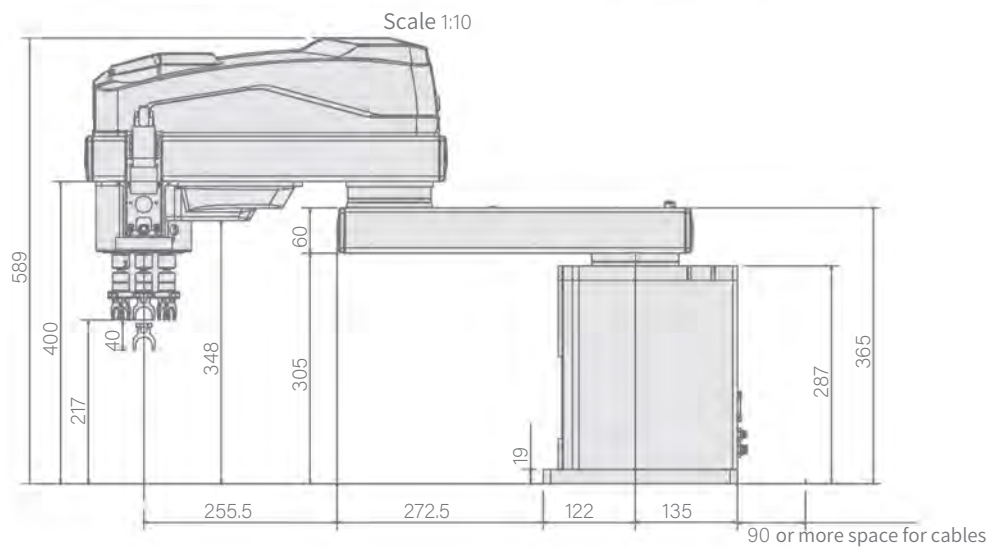
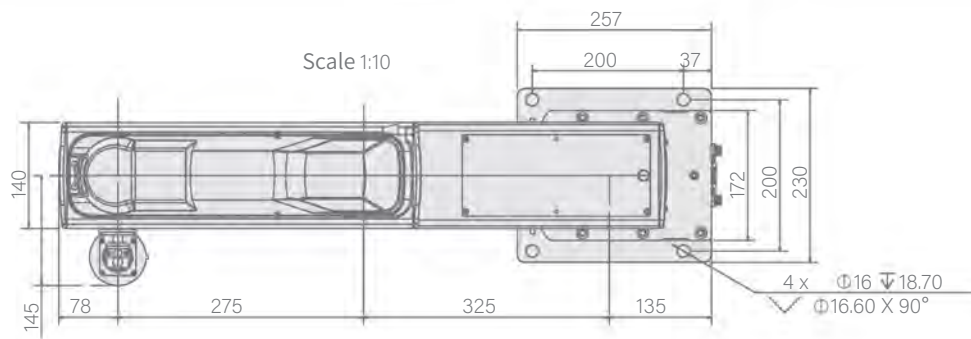
Joint Content	#1\#5	#2	#3	#4
MAX Operating Speed	7619 mm/s	3642mm/s	2346mm/s	3625°/s
MAX Motion Range	$\pm 225^\circ$	$\pm 130^\circ$	40mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	100W	100W
Joint#3 down force	-	-	-	-
Weight	49kg (cables not included )			

Joint #4 allowable moment of inertia, rate  $0.005\text{kg} \cdot \text{m}^2$ , maximum  $0.05\text{kg} \cdot \text{m}^2$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	Stander: 21 Pin Max: 42 (without working header +
Installed pneumatic tube for customer use	$\phi 6\text{mm} \times 2$
Visual Interface	2
Installation Environment	Stander/Clean (Customized)

## Outer Dimensions and Motion Range



Pin  
(M12\*2 Aviation Connector)



## Model S4-475A

Max Motion Range 475mm

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Max payload 4kg

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Repeatability  $\pm 0.02\text{mm}$

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Mounting method Ground/Suspension

---

Weight 21kg

IP level IP67

---

### Parameters of each axis

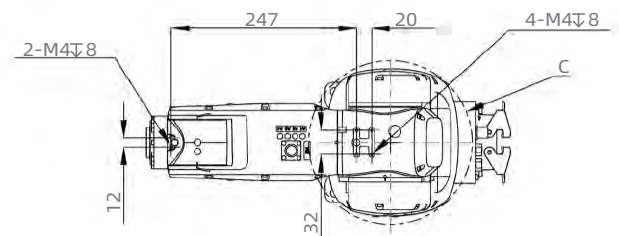
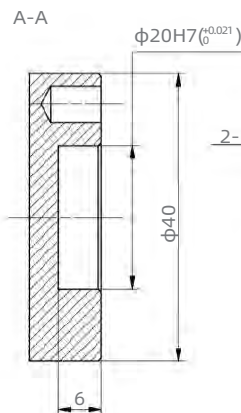
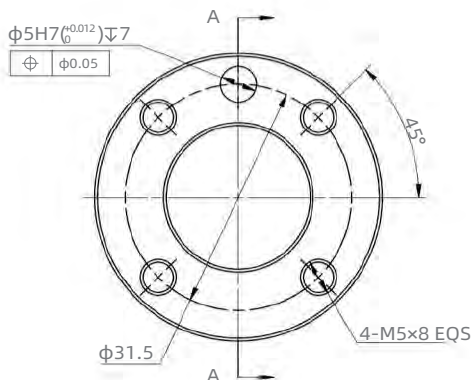
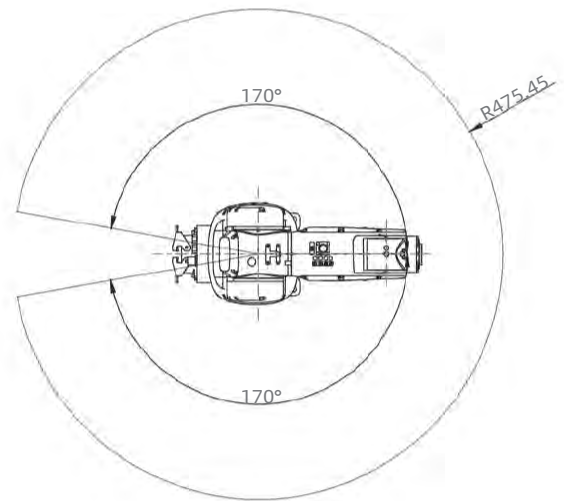
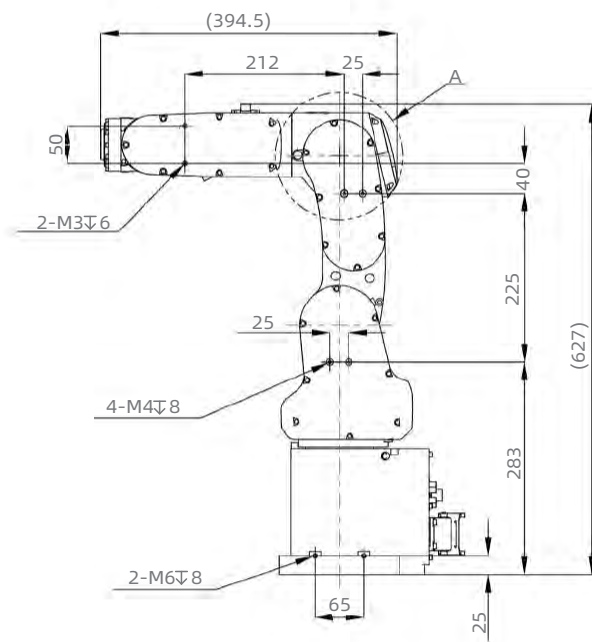
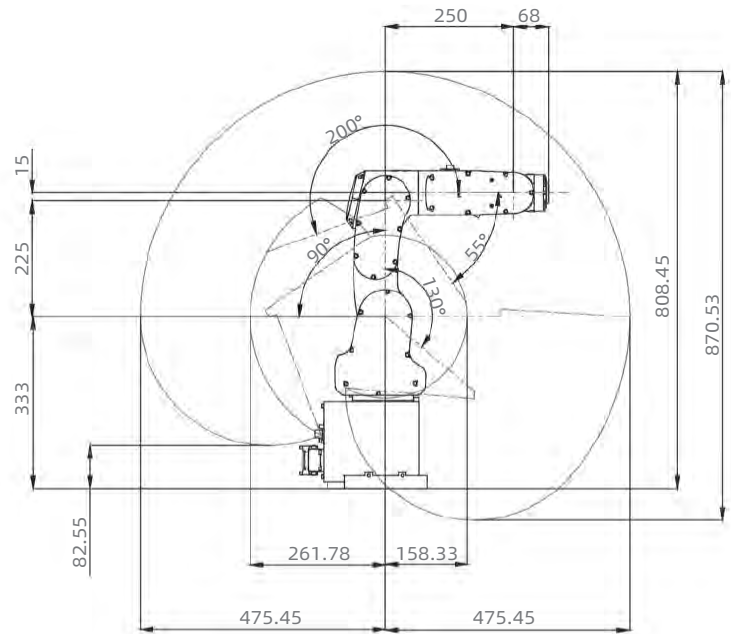
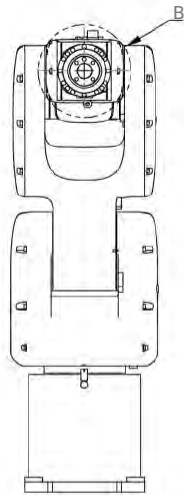
Joint Content	#1	#2	#3	#4	#5	#6
Max Operating Speed	450°/s	360°/s	360°/s	550°/s	450°/s	860°/s
Max Motion Range	+170°/-170°	+130°/-90°	+55°/-200°	+170°/-170°	+120°/-120°	+360°/-360°

---

Electrical parameters Integrated Signal Source 8 Channels (30V, 0

Integrated Air Source 4-φ4, 5bar

## Outer Dimensions and Motion Range



# S series

6 Axis Scara Robot



## Model S7-707A

Max Motion Range 707mm

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Max payload 7kg

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Repeatability  $\pm 0.02\text{mm}$

---

Mounting method Ground/Suspension

---

Weight 50kg

IP level IP67

---

### Parameters of each axis

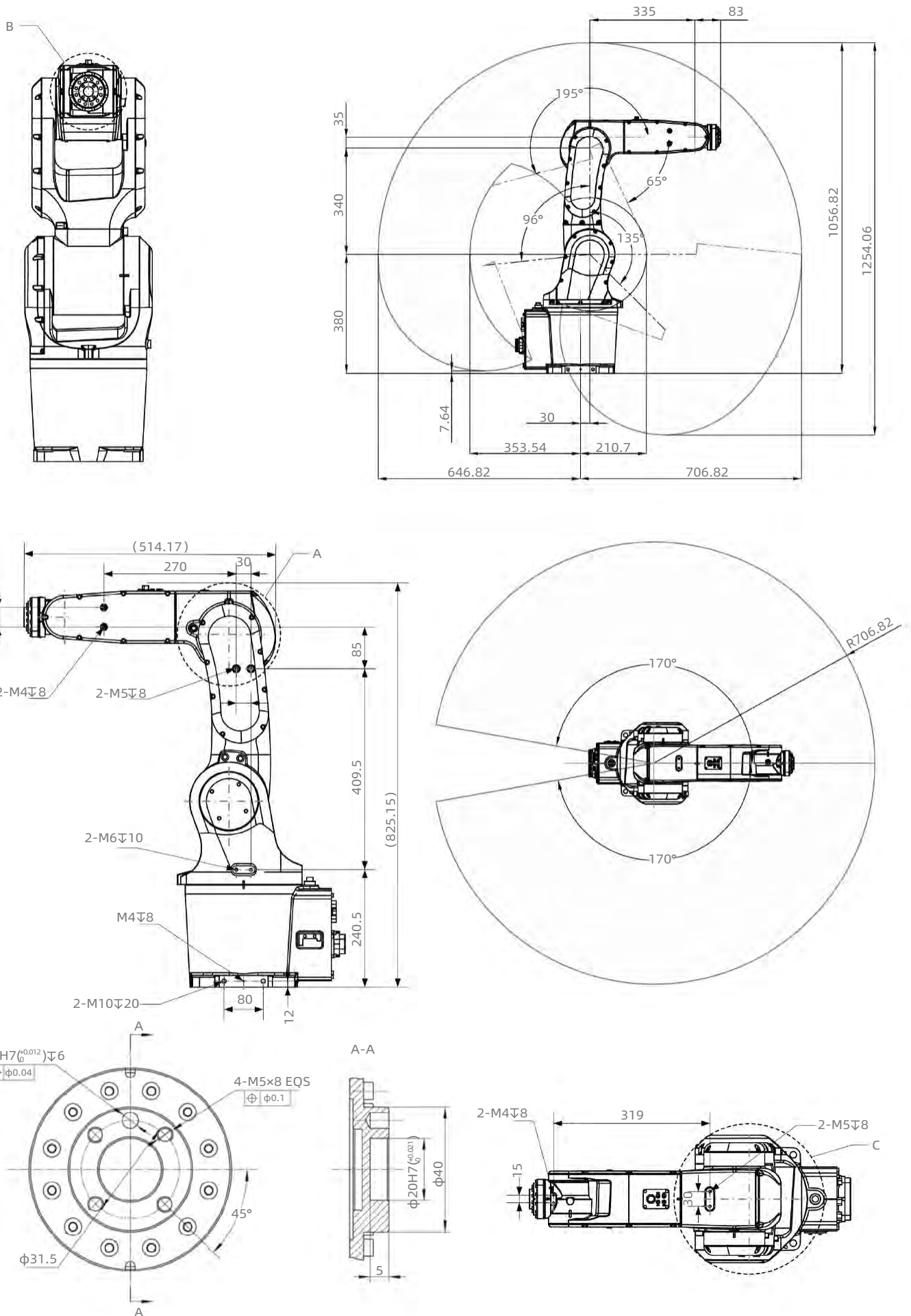
Joint Content	#1	#2	#3	#4	#5	#6
Max Operating Speed	440°/s	355°/s	440°/s	480°/s	450°/s	705°/s
Max Motion Range	+170°/-170°	+135°/-96°	+65°/-195°	+170°/-170°	+120°/-120°	+360°/-360°

Electrical parameters Integrated Signal Source 8Channels (30V, 0

Integrated Air Source 4- $\phi 4$ , 5bar



## Outer Dimensions and Motion Range



# S series

6 Axis Scara Robot



## Model S7-906A

Max Motion Range 906mm

---

Max payload 7kg

---

Repeatability  $\pm 0.03\text{mm}$

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Mounting method Ground/Suspension

---

Weight 52kg

IP level IP67

---

### Parameters of each axis

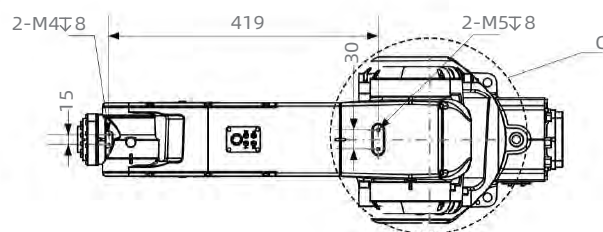
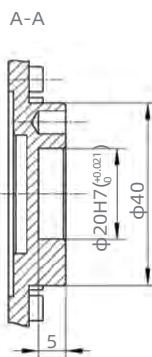
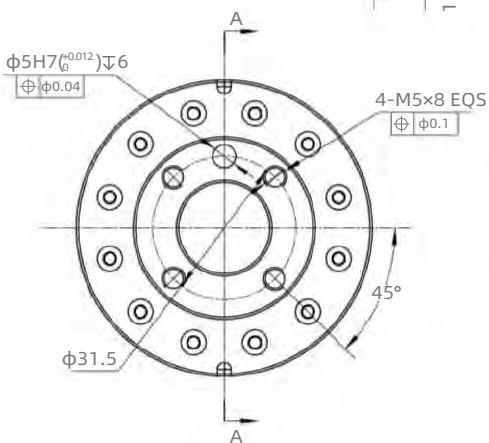
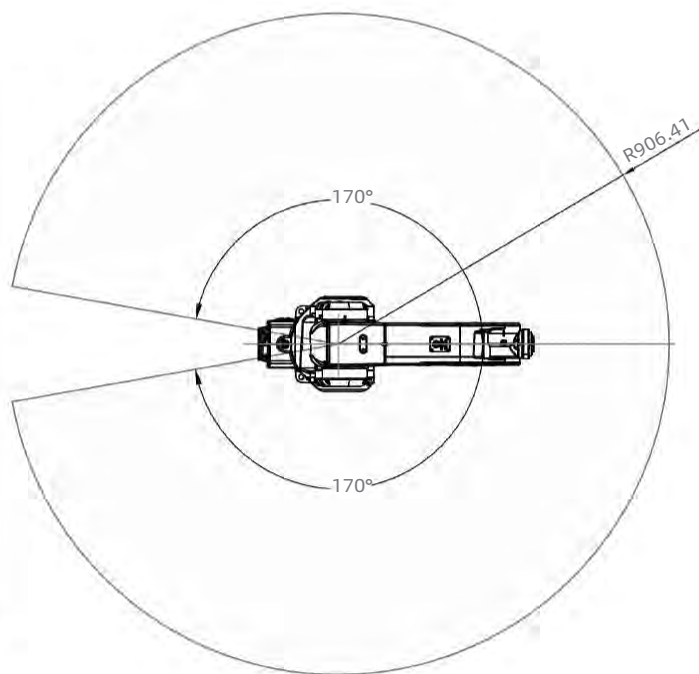
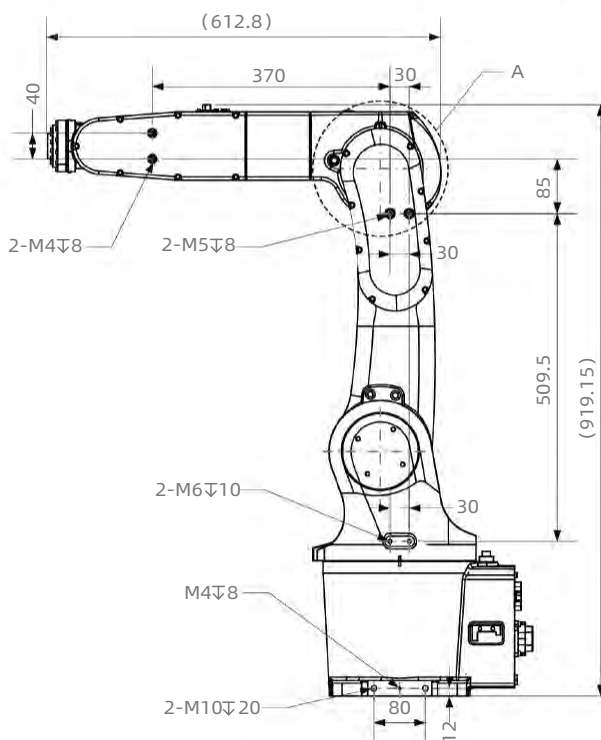
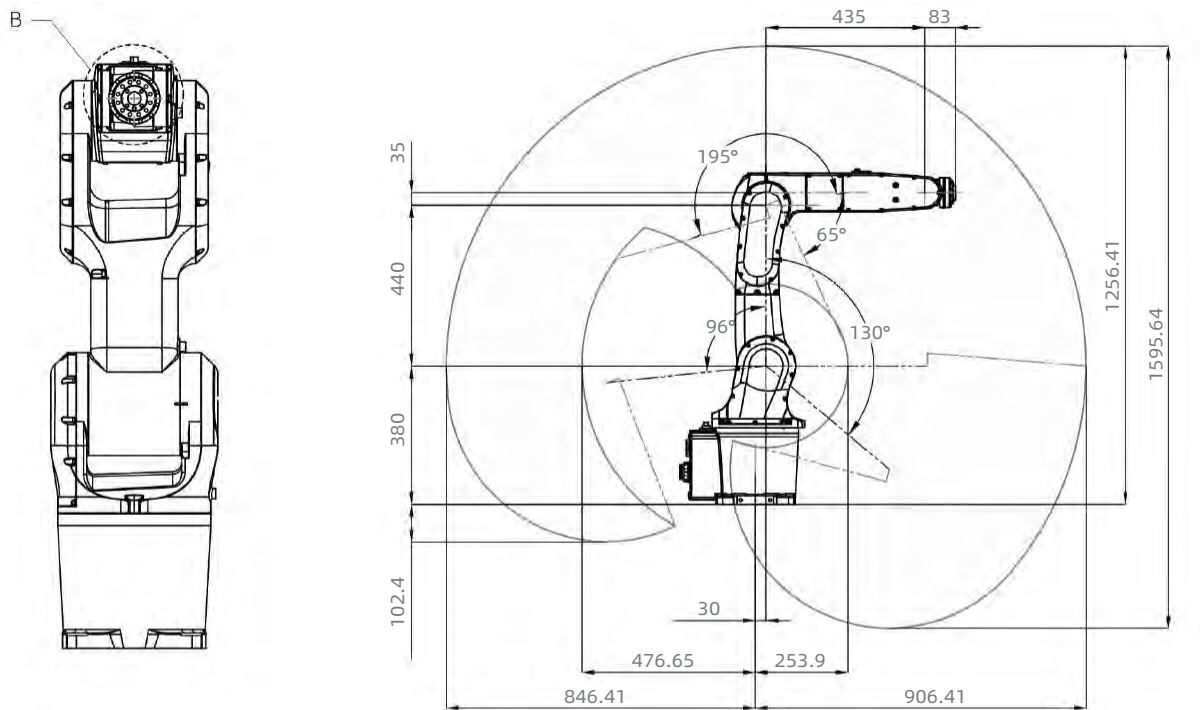
Joint Content	#1	#2	#3	#4	#5	#6
Max Operating Speed	355°/s	355°/s	355°/s	480°/s	450°/s	705°/s
Max Motion Range	+170°/-170°	+130°/-96°	+65°/-195°	+170°/-170°	+120°/-120°	+360°/-360°

---

Electrical parameters Integrated Signal Source 8 Channels (30V, 0.5A)

Integrated Air Source 4- $\phi 4$ , 5bar

## Outer Dimensions and Motion Range



# S series

6 Axis Scara Robot



## Model S10-1206A

Max Motion Range 1206mm

---

Max payload 10kg

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Repeatability  $\pm 0.05\text{mm}$

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Mounting method Ground/Suspension

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Weight 76kg

IP level IP54

---

### Parameters of each axis

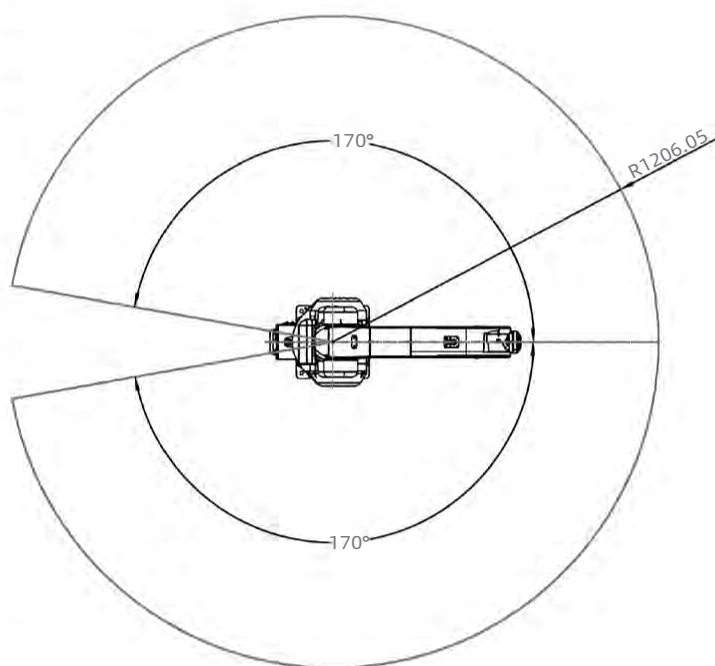
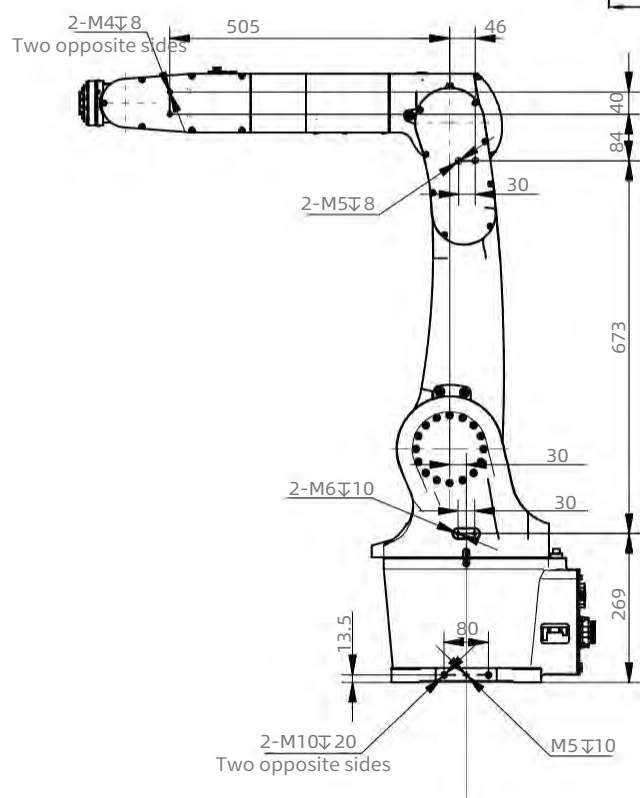
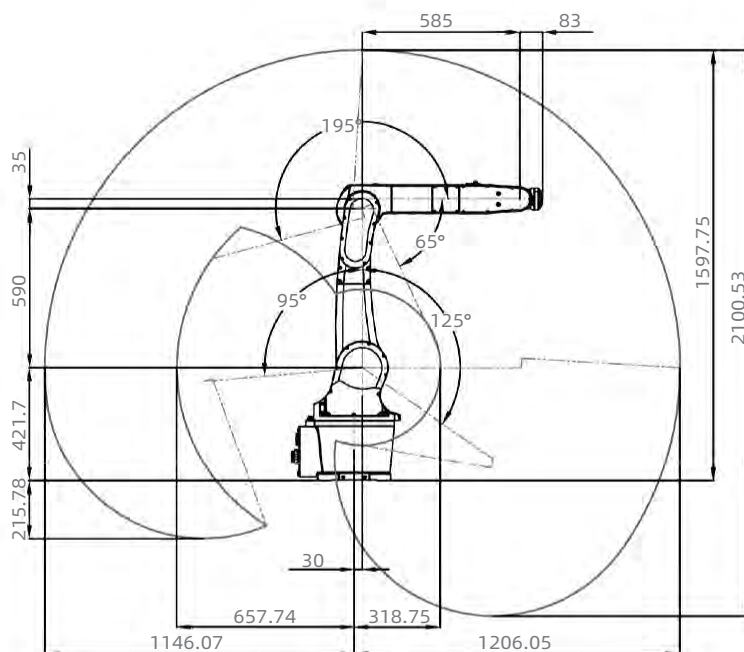
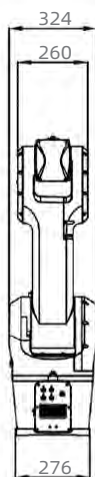
Joint Content	#1	#2	#3	#4	#5	#6
Max Operating Speed	297°/s	223°/s	223°/s	480°/s	360°/s	705°/s
Max Motion Range	+170°/-170°	+125°/-95°	+65°/-195°	+170°/-170°	+120°/-120°	+360°/-360°

---

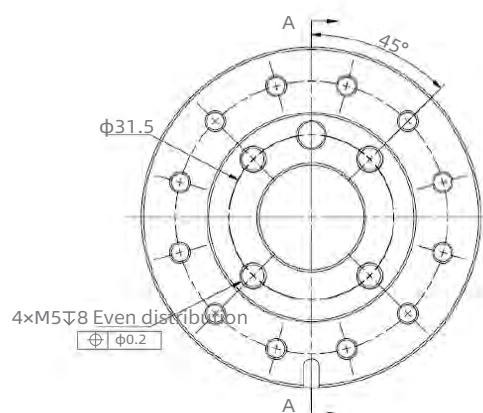
Electrical parameters Integrated Signal Source 8 Channels (30V, 0

Integrated Air Source 4- $\phi 4$ , 5bar

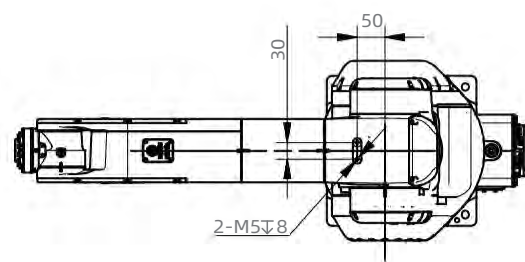
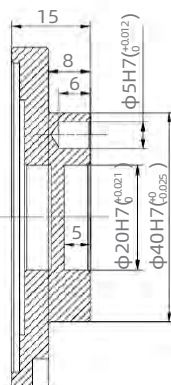
## Outer Dimensions and Motion Range



0.5A)



A-A







## Operating range

Arm length 400mm

## Payload

Rated 1kg/Maximum3kg

## Repeatability

Joint #1,#2  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

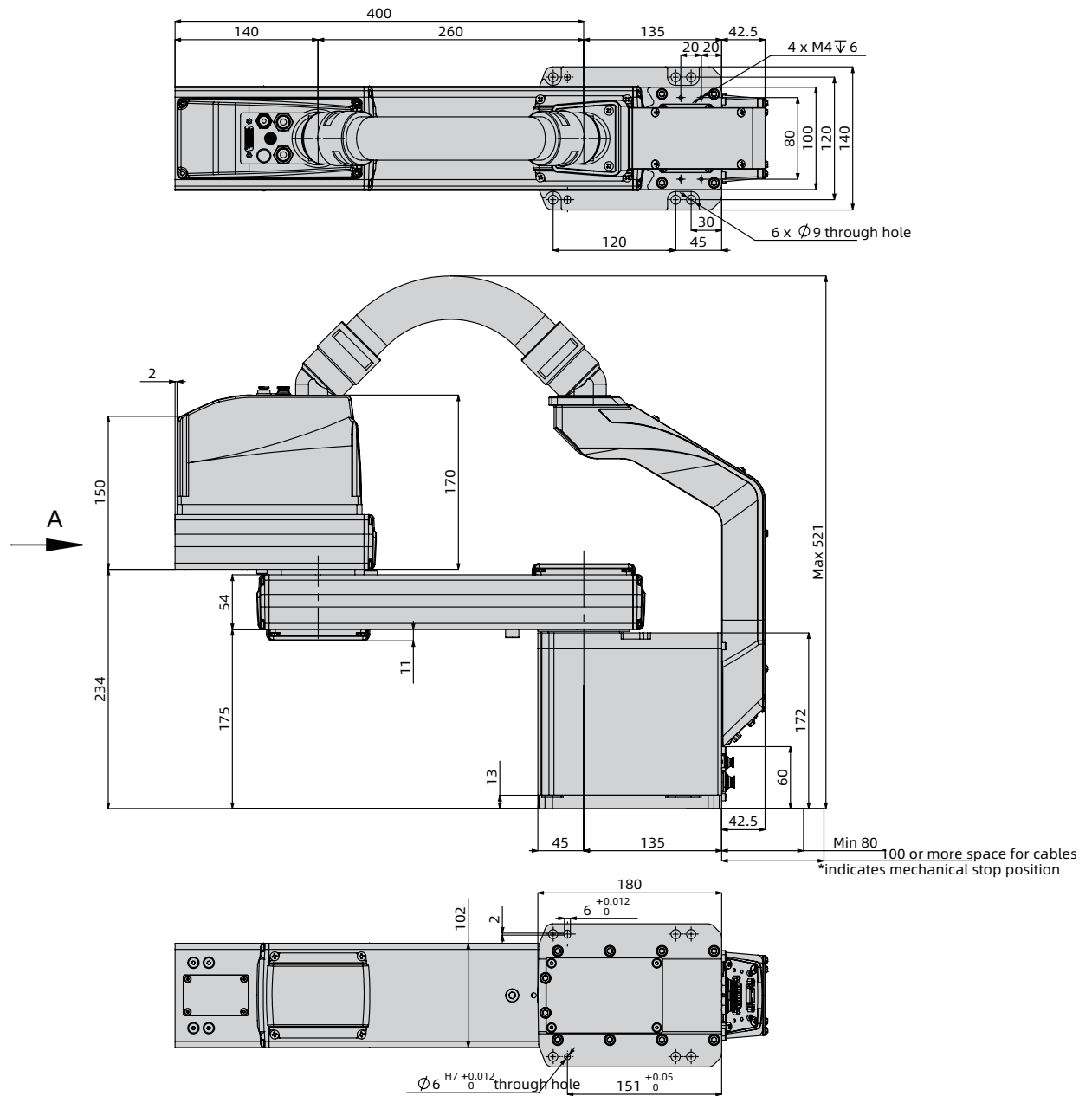
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

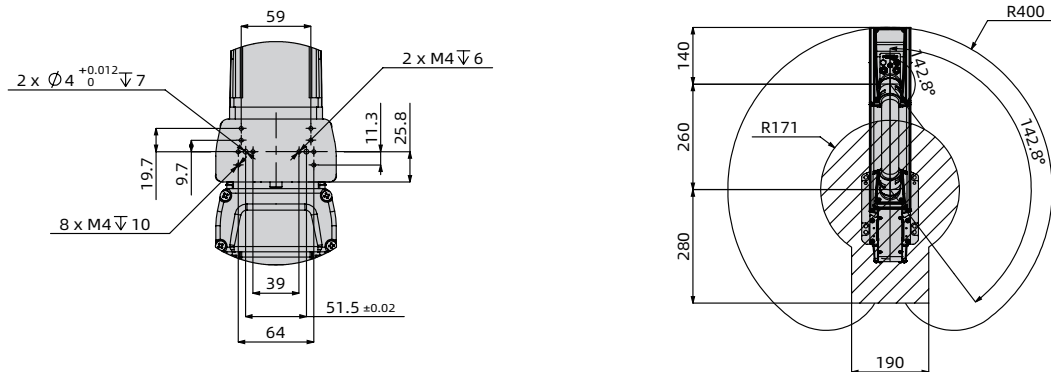
## Motion parameters

Joint Content	#1	#2
Max Operating Speed	6556mm/s	
Max Motion Range	$\pm 142.8^\circ$	$\pm 142.8^\circ$
Motor Power Consumption	400W	100W
Weight	14kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot





## Operating range

Arm length 400mm

Joint#3 stroke 100mm

## Payload

Rated 1kg/Maximum3kg

## Repeatability

Joint #1,#2  $\pm 0.01\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

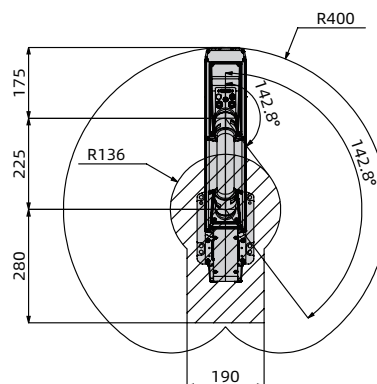
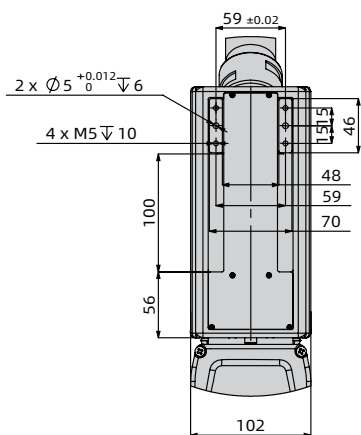
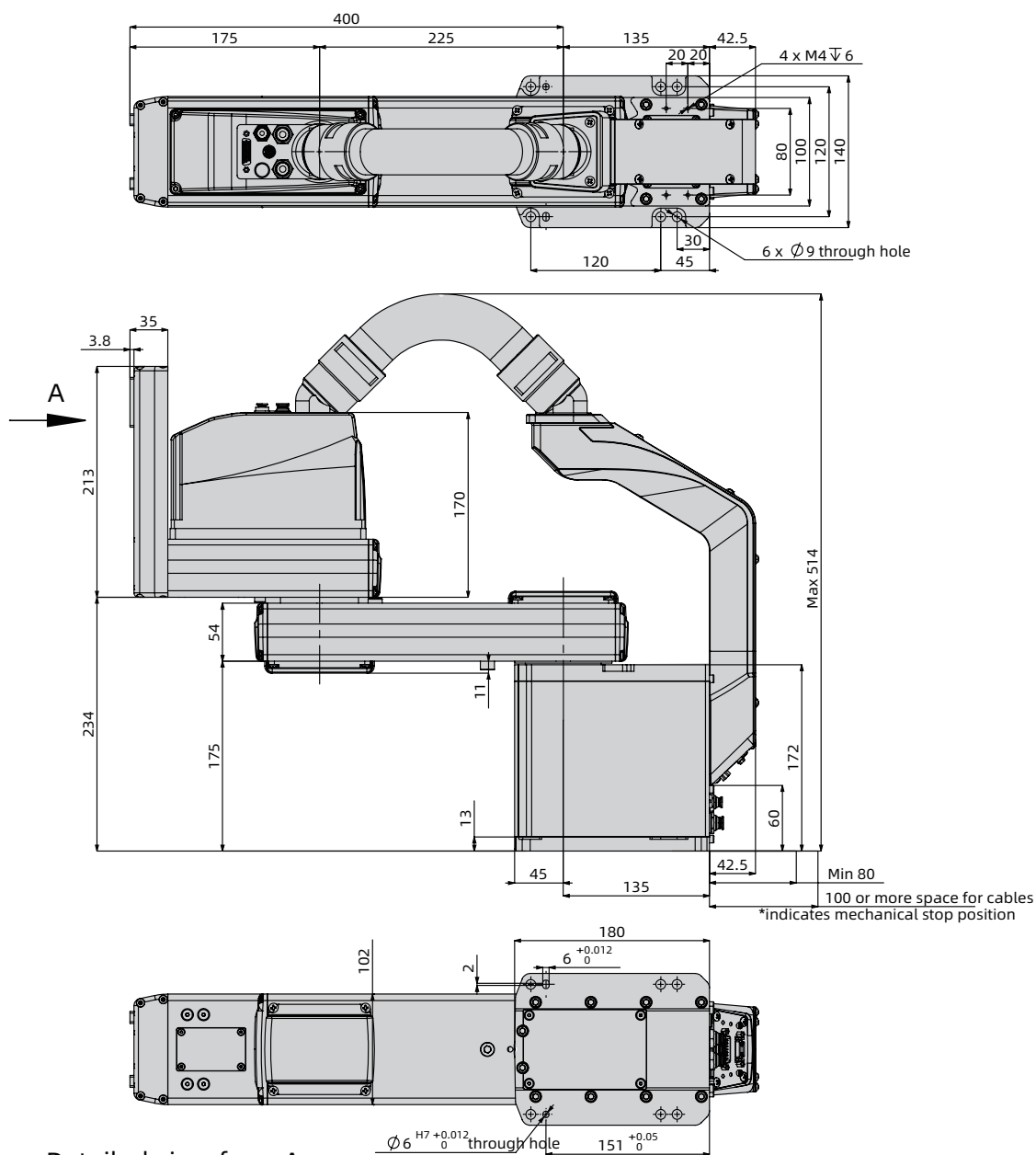
※ Test results under specified conditions of our company.

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## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	6981mm/s		966mm/s
Max Motion Range	$\pm 142.8^\circ$	$\pm 142.8^\circ$	100mm
Motor Power Consumption	400W	100W	100W
Weight	15kg (cables not included )		

## Outer Dimensions and Motion Range



Shaded area indicates operation blind spot



## Operating range

Arm length 600mm

Joint#3 stroke 100mm

## Payload

Rated 2kg/Maximum 6kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

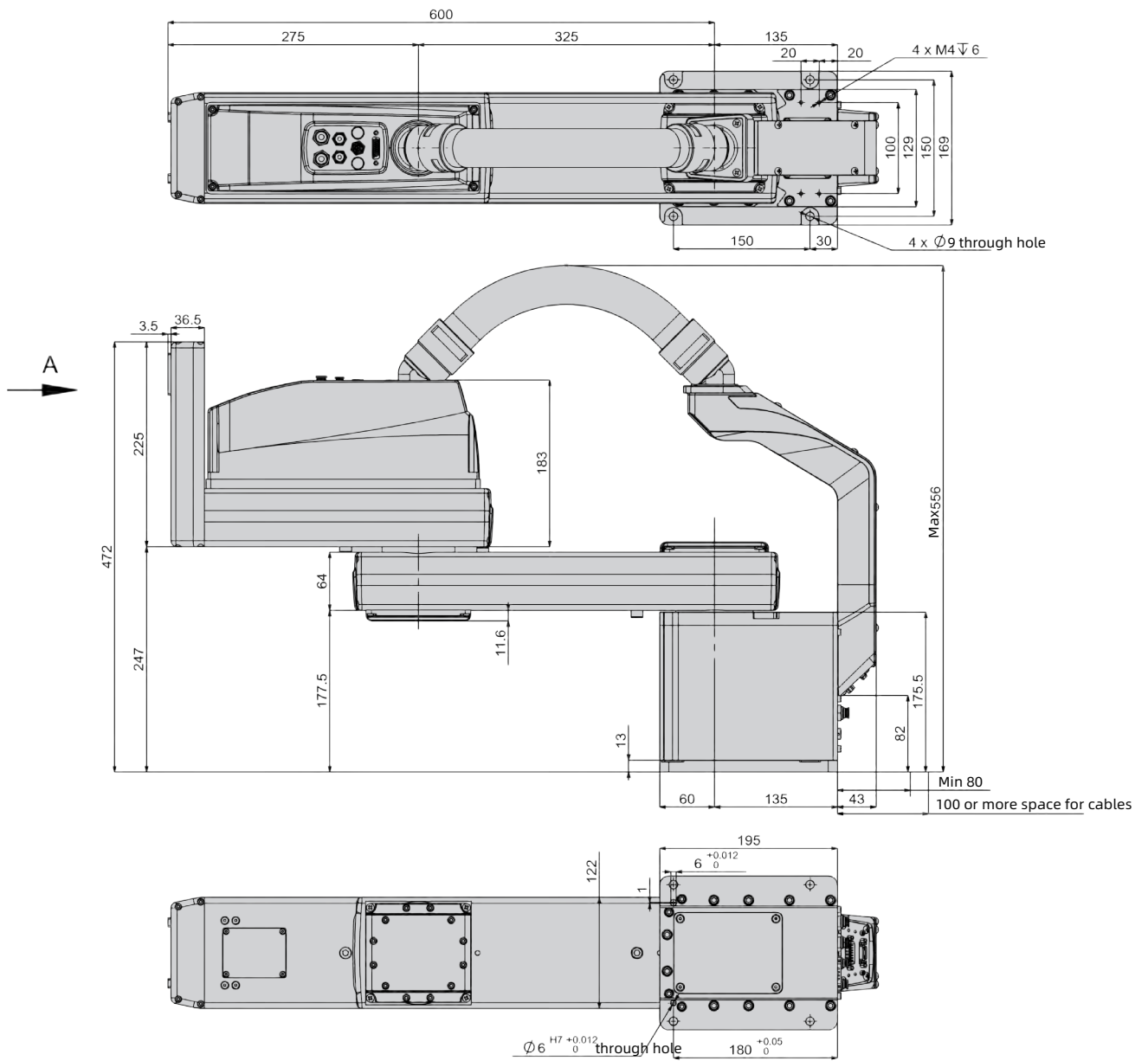
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

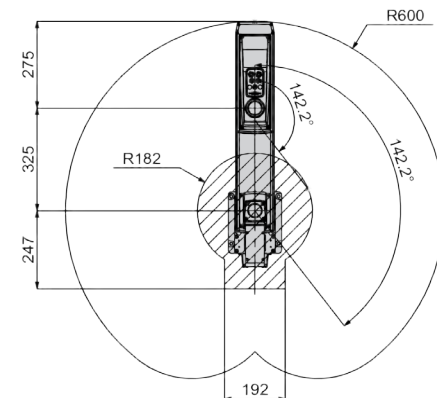
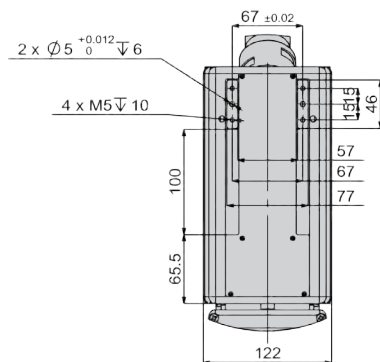
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	7891mm/s		1063mm/s
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$	100mm
Motor Power Consumption	400W	400W	100W
Weight	27kg (cables not included)		

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 500mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

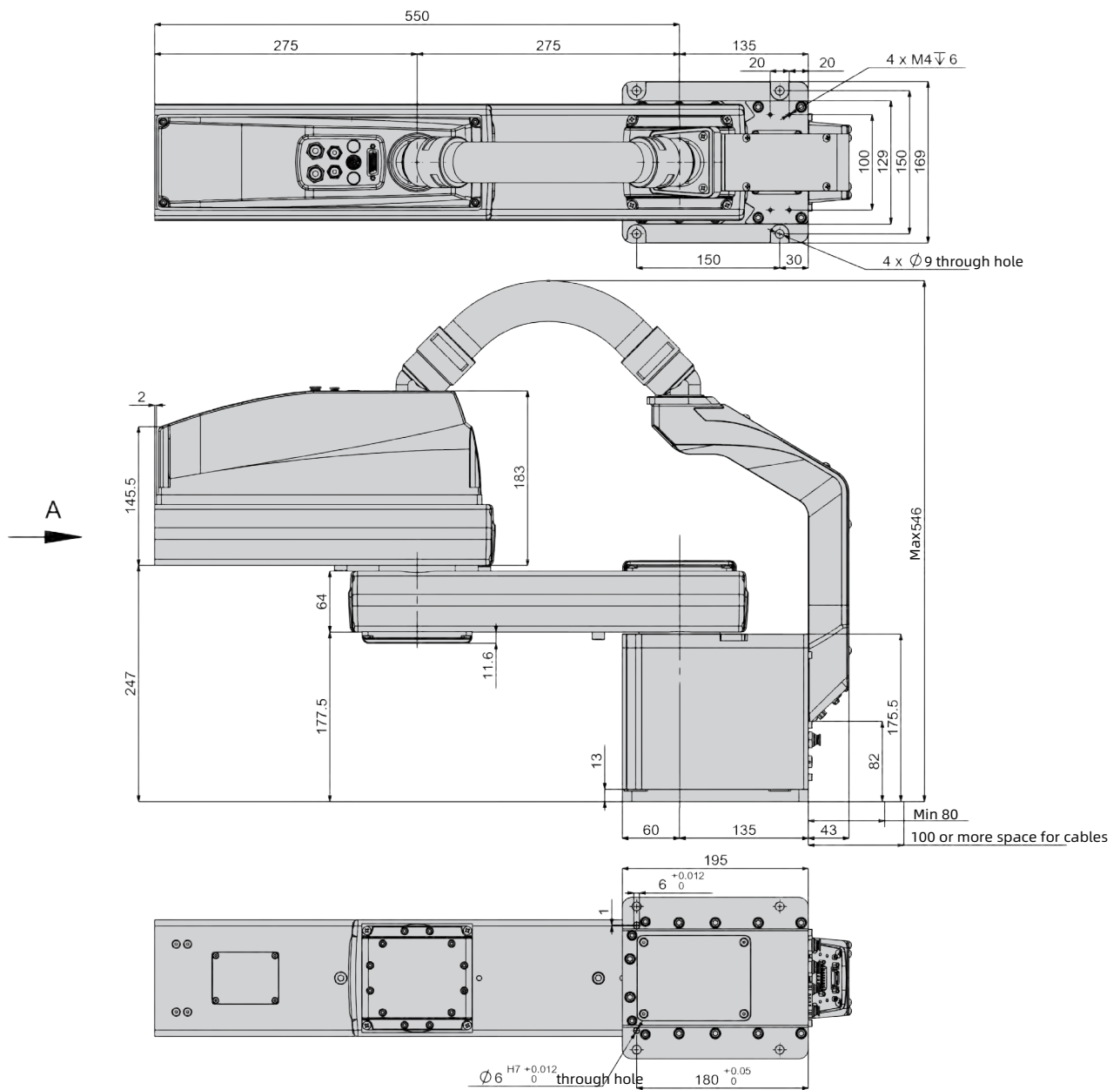
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

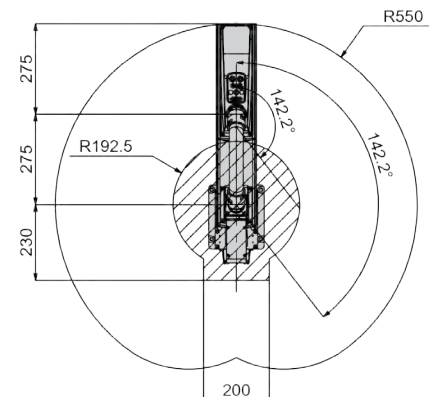
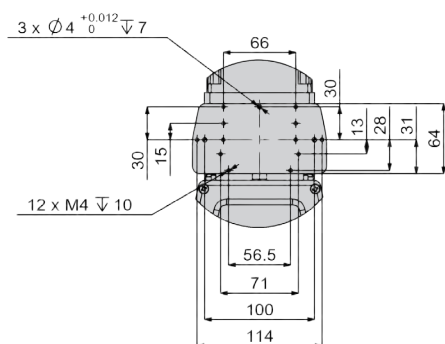
## Motion parameters

Joint Content	#1	#2
Max Operating Speed	6647mm/s	
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$
Motor Power Consumption	750W	750W
Weight	26kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 500mm

Joint#3 stroke 100mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

※ Test results under specified conditions of our company.

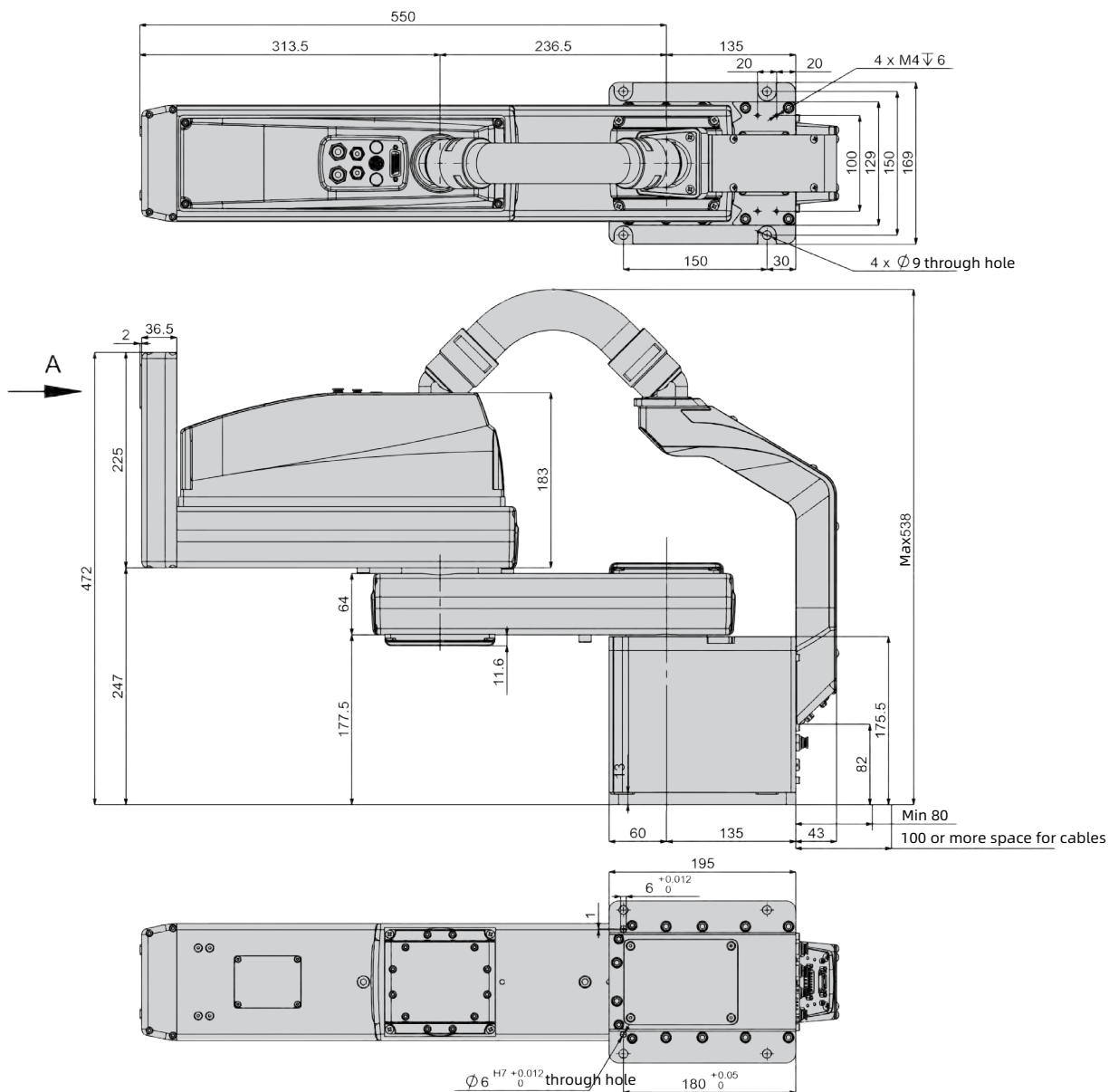
[www.sharewell.cc](http://www.sharewell.cc)

## Motion parameters

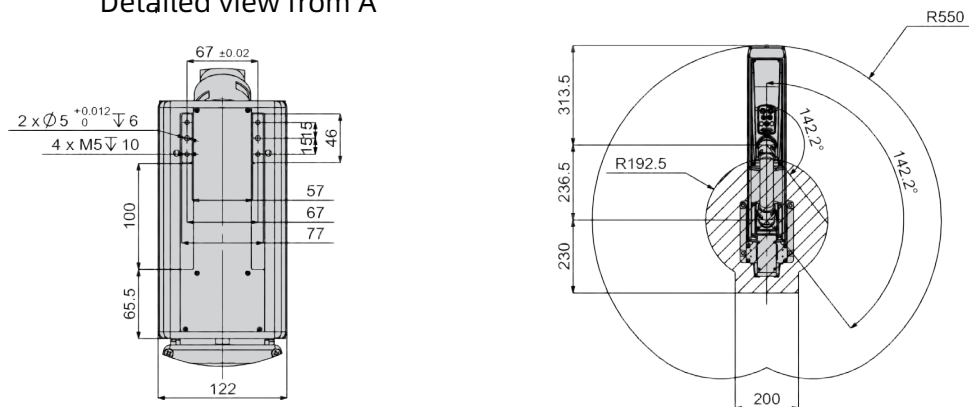
Joint Content	#1	#2	#3
Max Operating Speed	7133mm/s		1063mm/s
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$	100mm
Motor Power Consumption	750W	750W	100W
Weight	28kg (cables not included )		



## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 600mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

## Electrical parameters

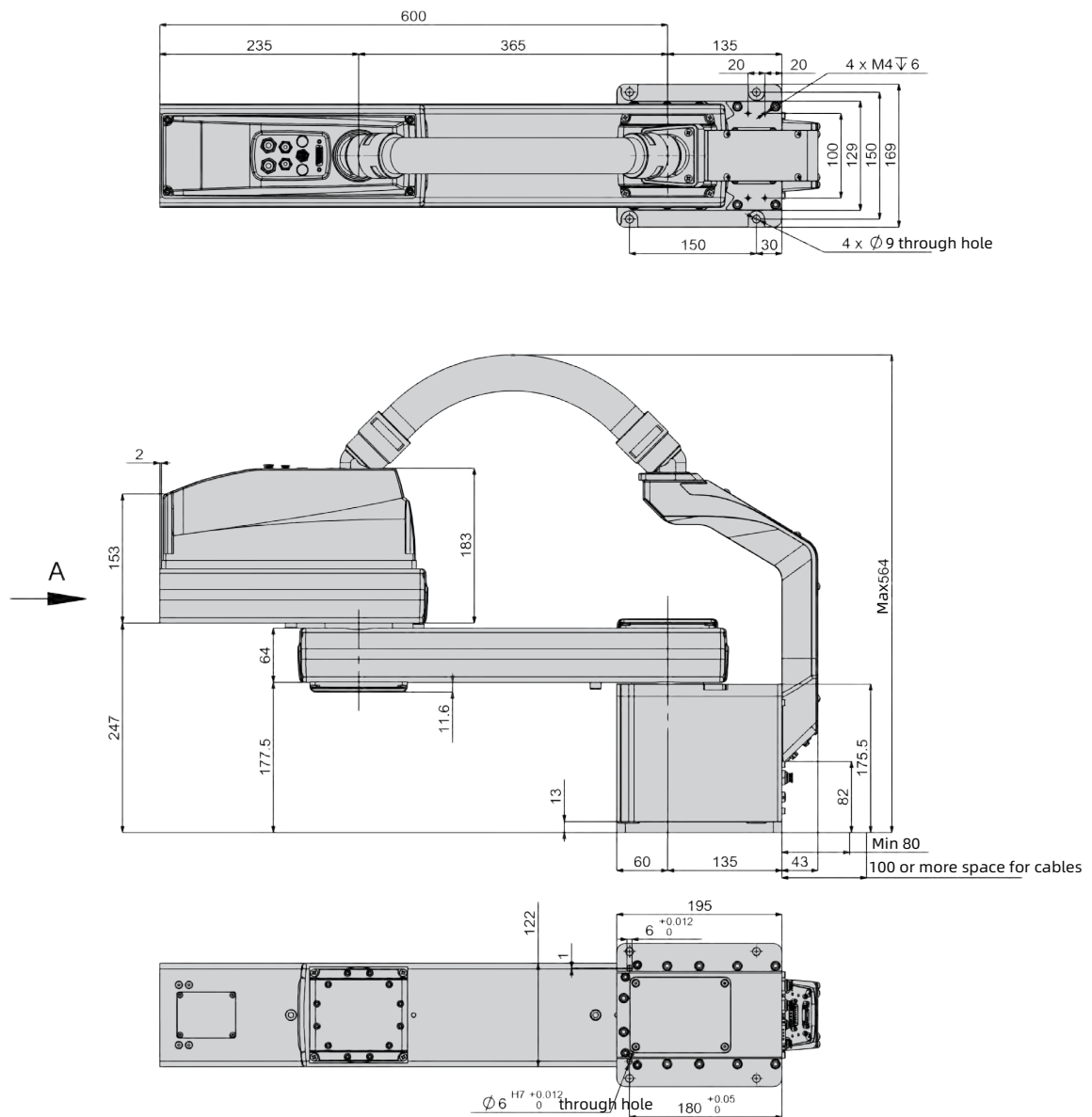
Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

※ Test results under specified conditions of our company.

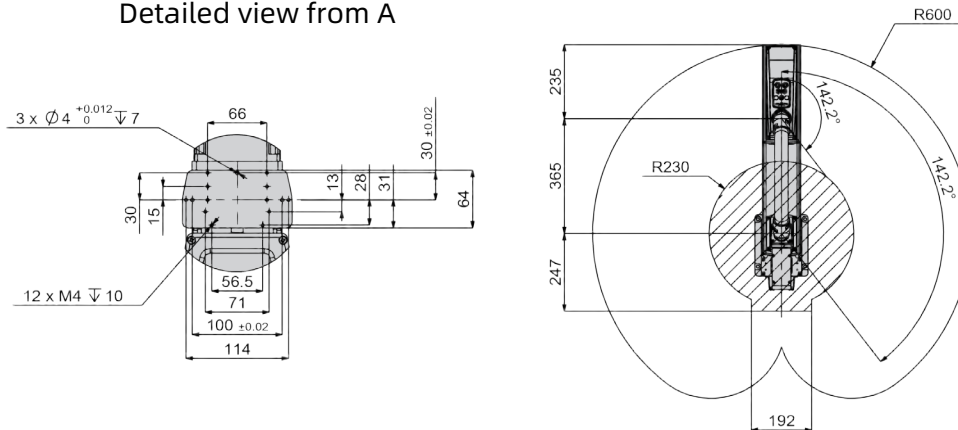
## Motion parameters

Joint Content	#1	#2
Max Operating Speed	7406mm/s	
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$
Motor Power Consumption	750W	750W
Weight	29kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 600mm

Joint#3 stroke 100mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

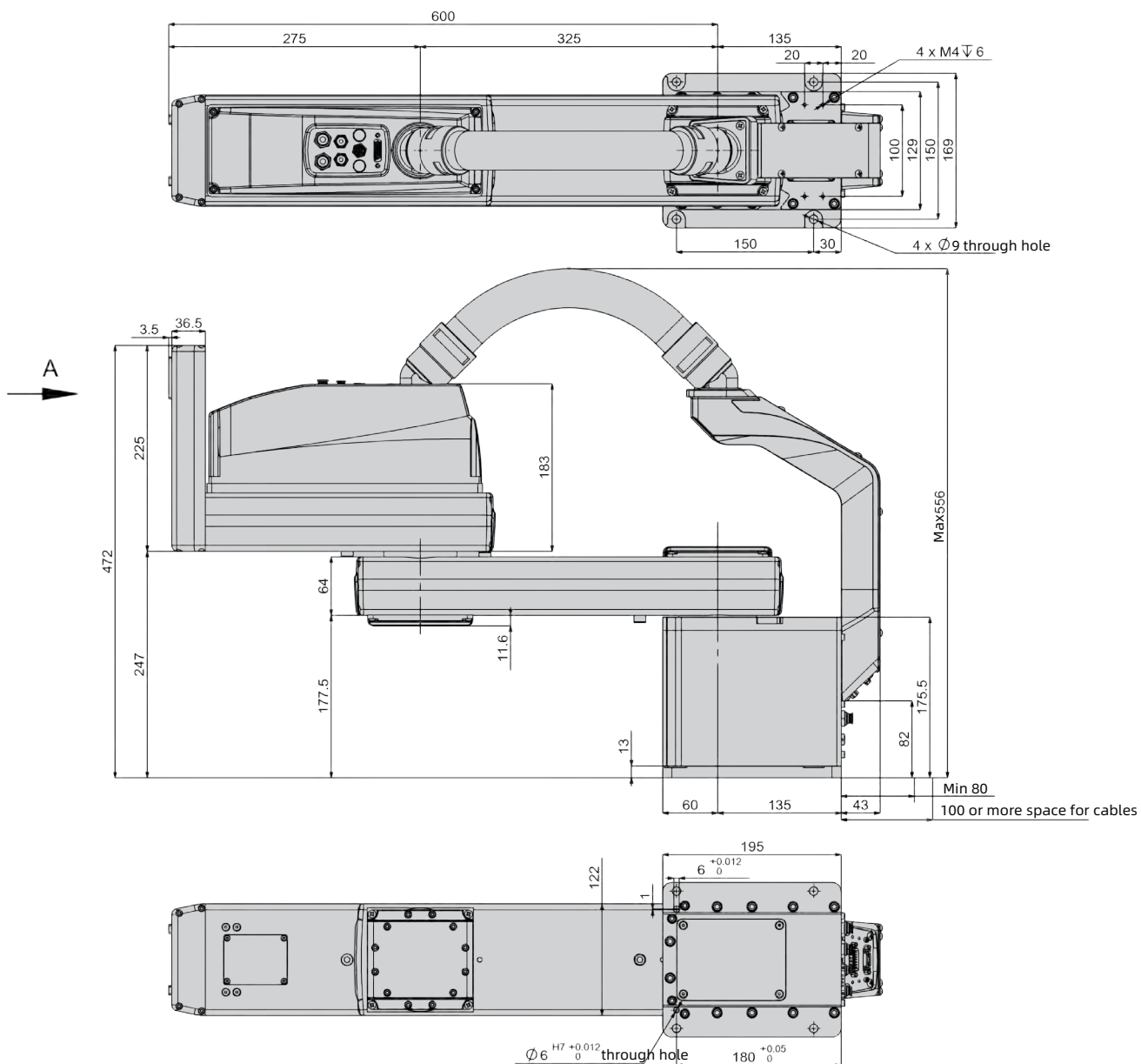
Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

※ Test results under specified conditions of our company.

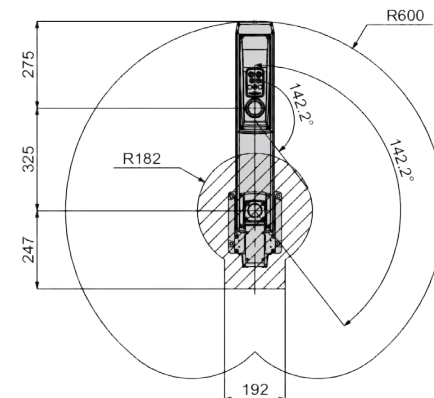
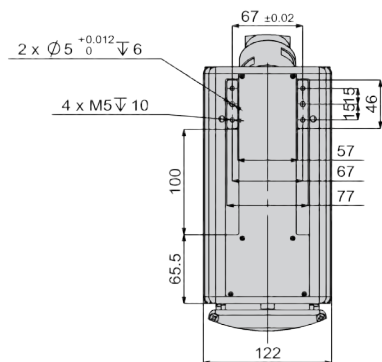
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	7891mm/s		1063mm/s
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$	100mm
Motor Power Consumption	750W	750W	100W
Weight	27kg (cables not included )		

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 700mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

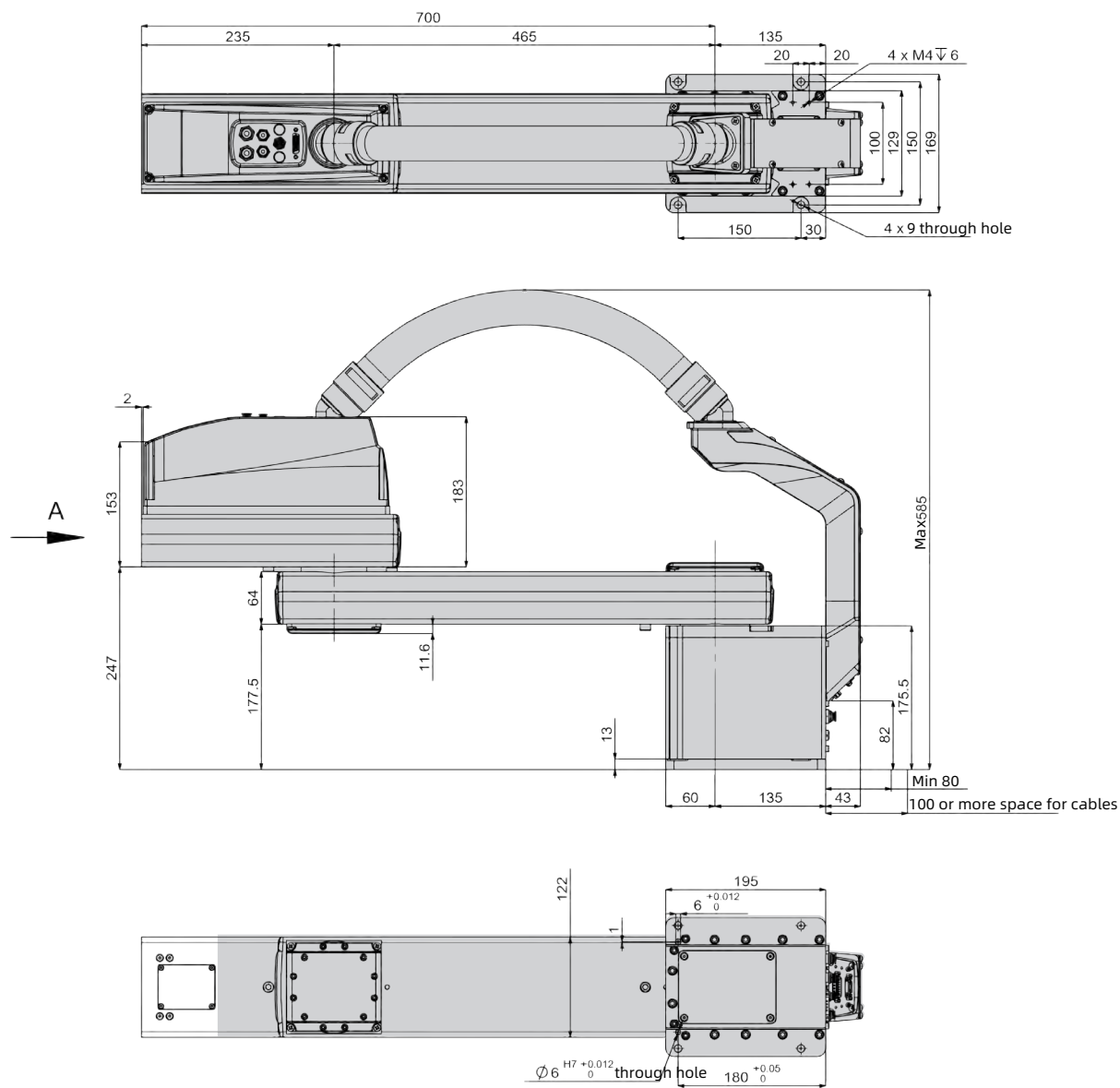
※ Test results under specified conditions of our company.

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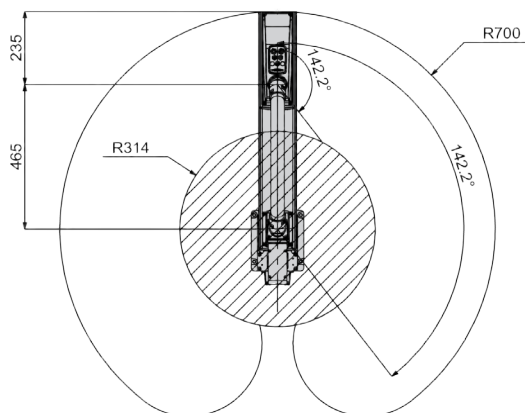
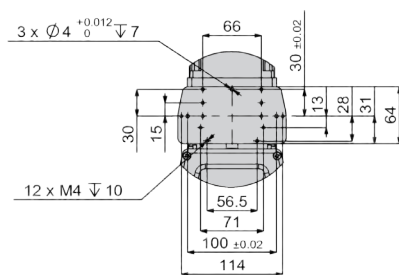
## Motion parameters

Joint Content	#1	#2
Max Operating Speed	8165mm/s	
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$
Motor Power Consumption	750W	750W
Weight	30kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot





## Operating range

Arm length 700mm

Joint#3 stroke 100mm

## Payload

Rated 5kg/Maximum10kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

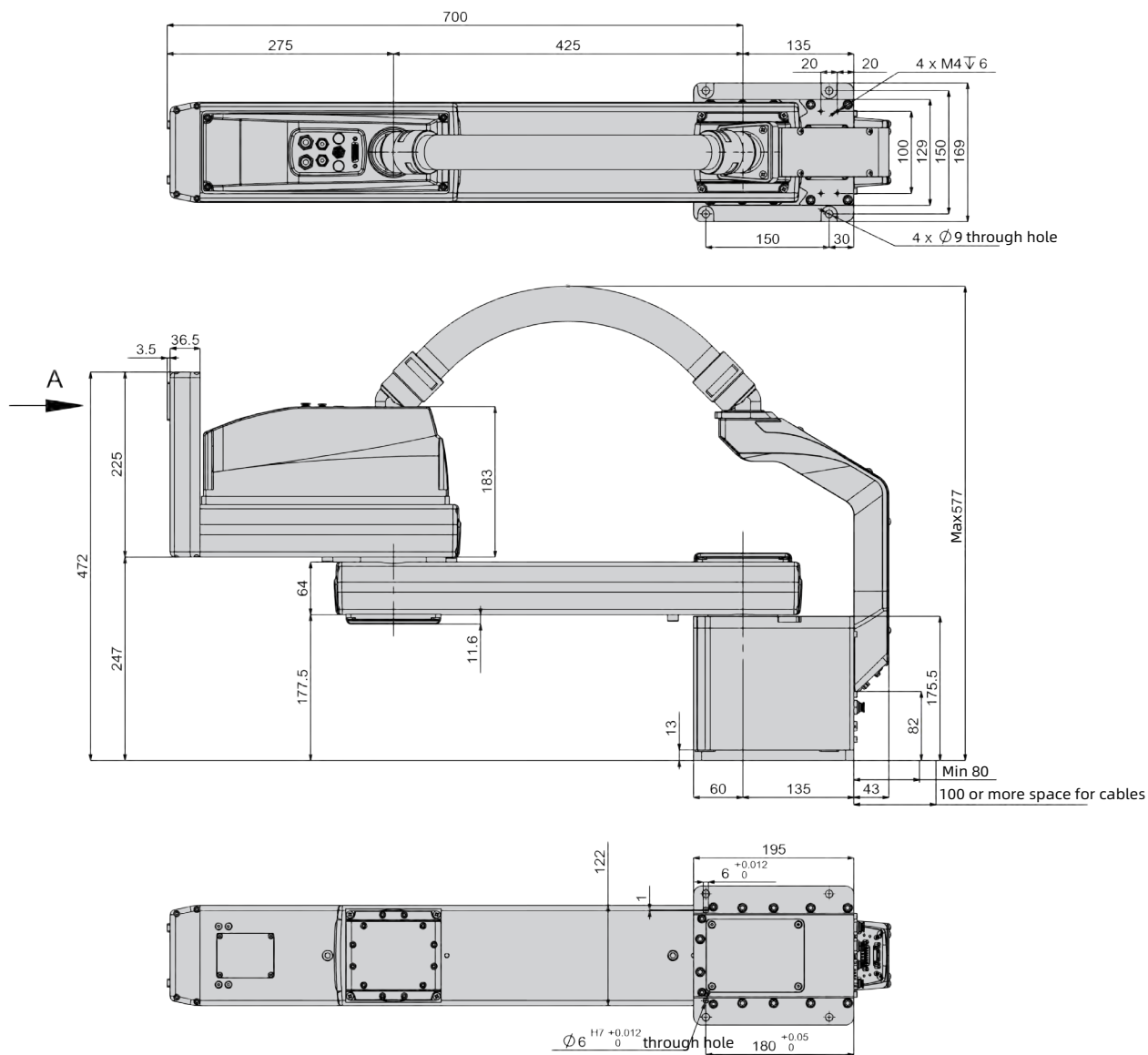
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

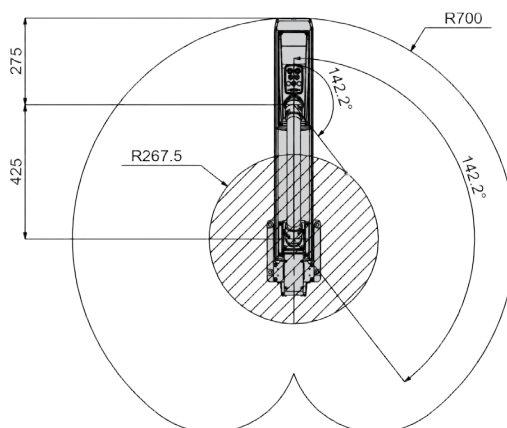
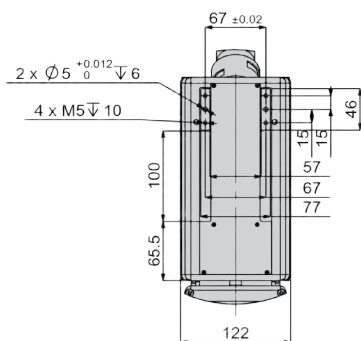
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	8650mm/s		1063mm/s
Max Motion Range	$\pm 142.2^\circ$	$\pm 142.2^\circ$	100mm
Motor Power Consumption	750W	750W	100W
Weight	28kg (cables not included )		

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



### Operating range

Arm length 800mm

### Payload

Rated 20kg/Maximum40kg

### Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

### Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

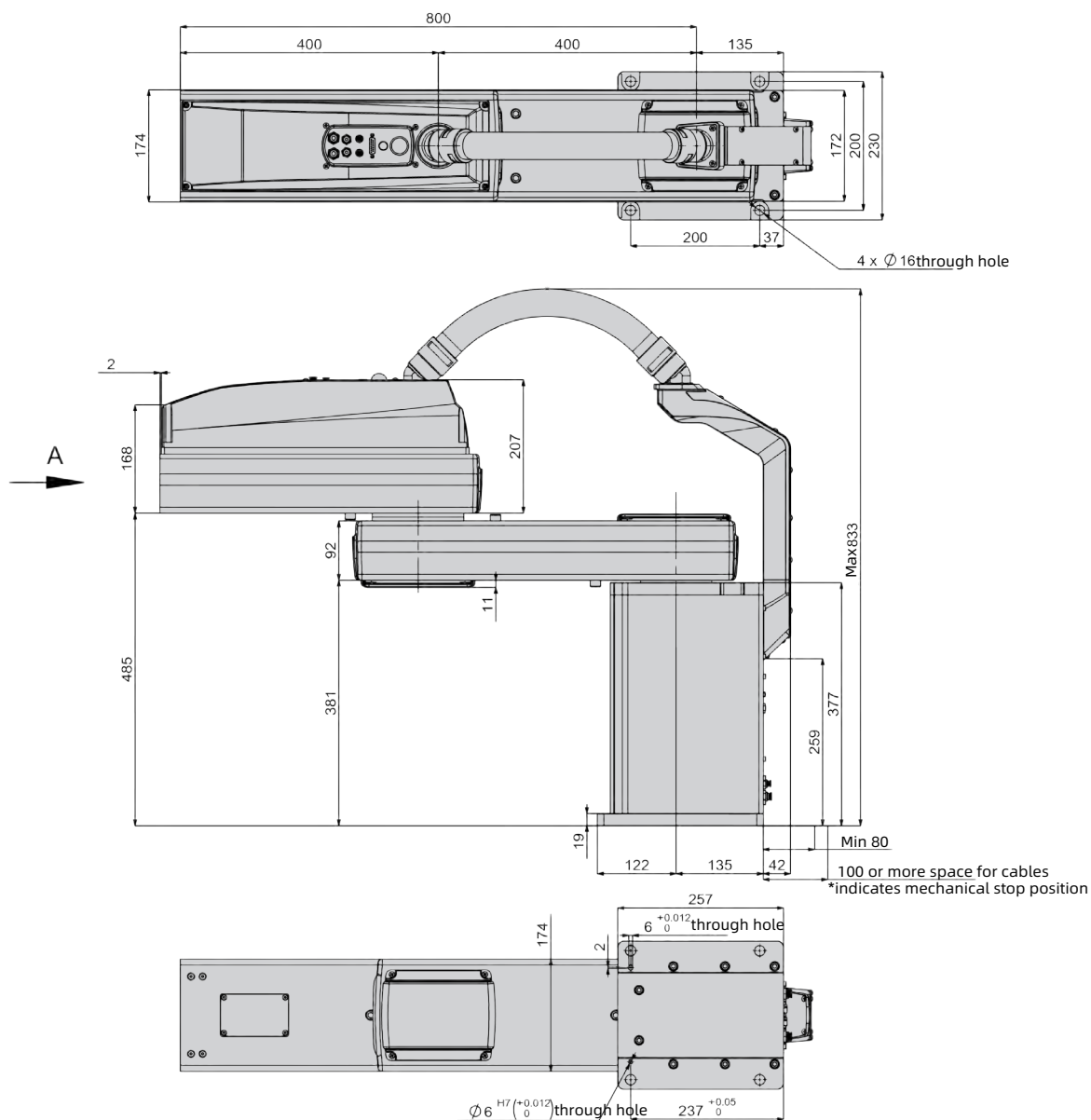
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

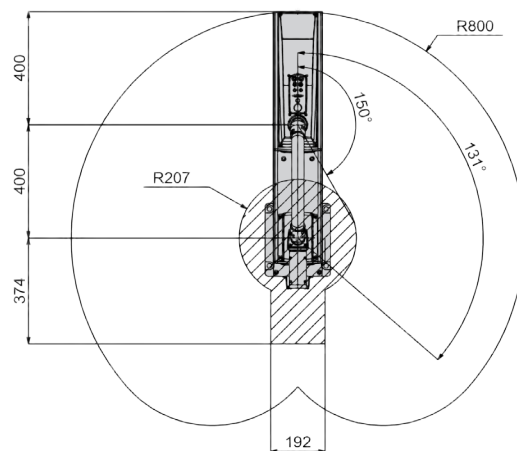
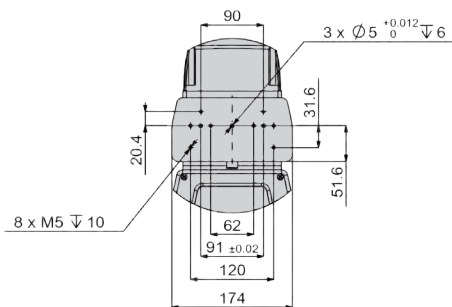
### Motion parameters

Joint Content	#1	#2
Max Operating Speed	9106mm/s	
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$
Motor Power Consumption	1000W	750W
Weight	46kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 800mm

Joint#3 stroke 200mm

## Payload

Rated 20kg/Maximum40kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

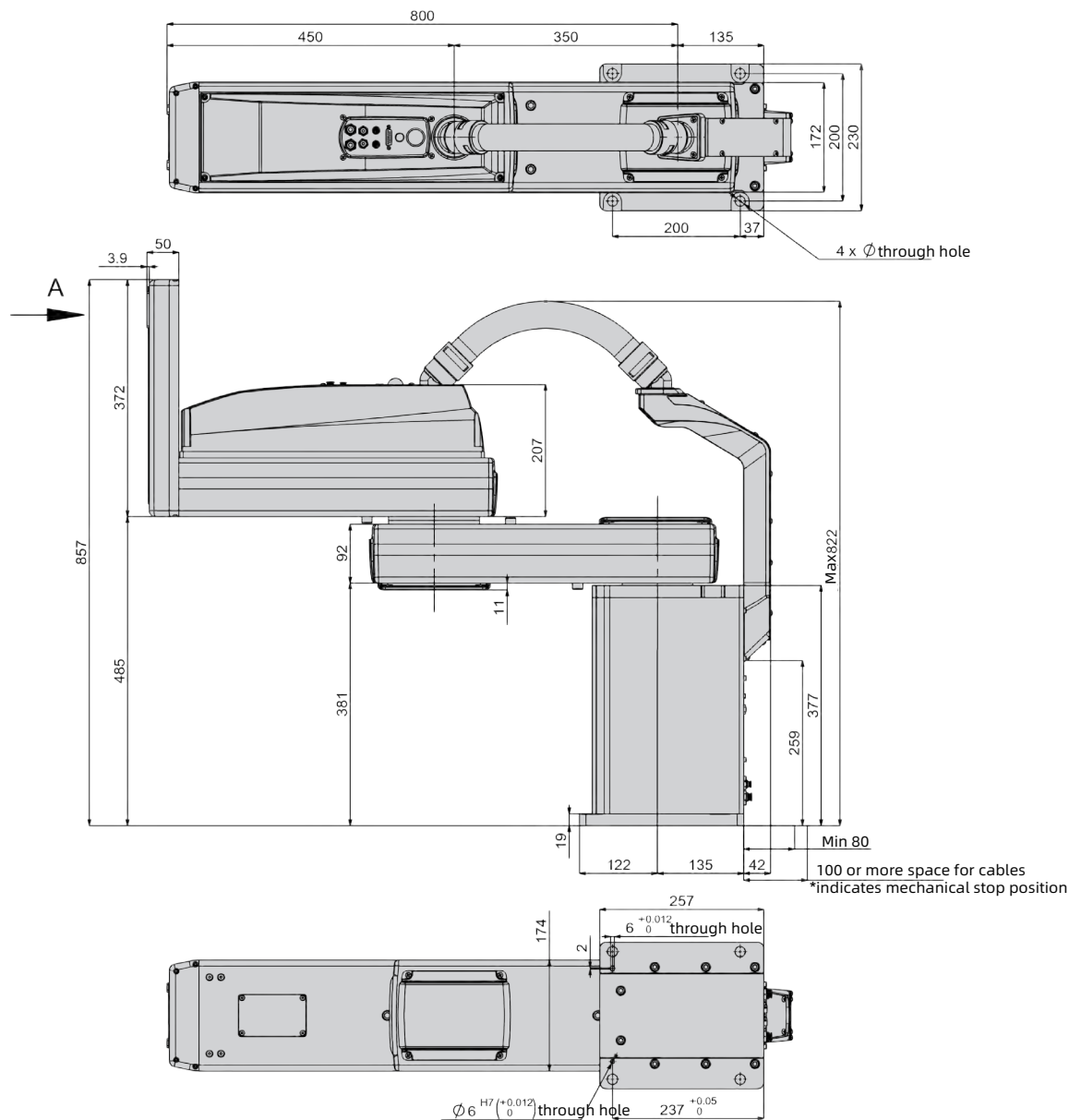
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

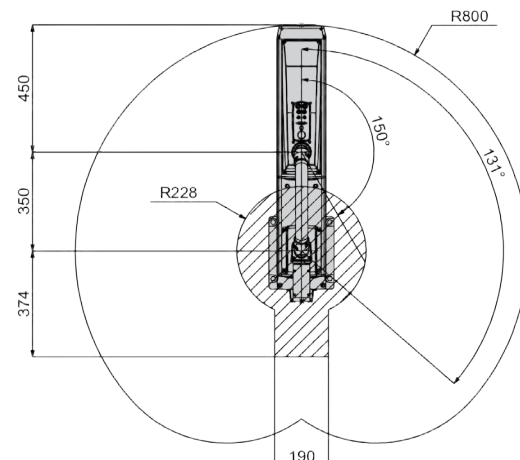
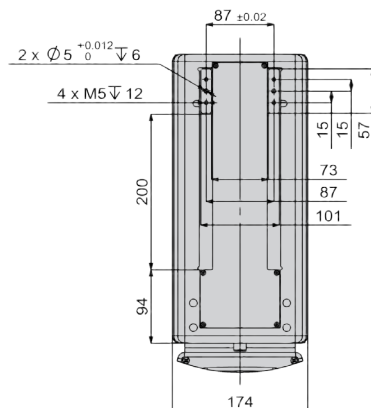
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	9675mm/s		1450mm/s
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	200mm
Motor Power Consumption	1000W	750W	400W
Weight	48kg (cables not included )		

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 900mm

## Payload

Rated 20kg/Maximum40kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standerd/Clean (Customized)

※ Test results under specified conditions of our company.

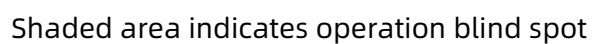
[www.sharewell.cc](http://www.sharewell.cc)

## Motion parameters

Joint Content	#1	#2
Max Operating Speed	9864mm/s	
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$
Motor Power Consumption	1000W	750W
Weight	49kg (cables not included )	



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## Operating range

Arm length 900mm

Joint#3 stroke 200mm

## Payload

Rated 20kg/Maximum40kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

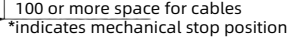
Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

※ Test results under specified conditions of our company.

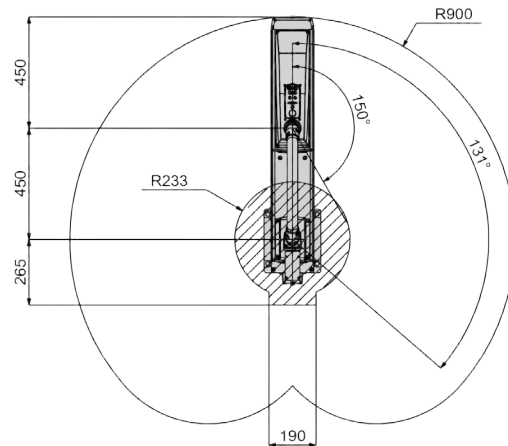
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	10244mm/s		1450mm/s
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	200mm
Motor Power Consumption	1000W	750W	400W
Weight	51kg (cables not included )		

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Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 1000mm

## Payload

Rated 20kg/Maximum40kg

## Repeatability

Joint #1,#2  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

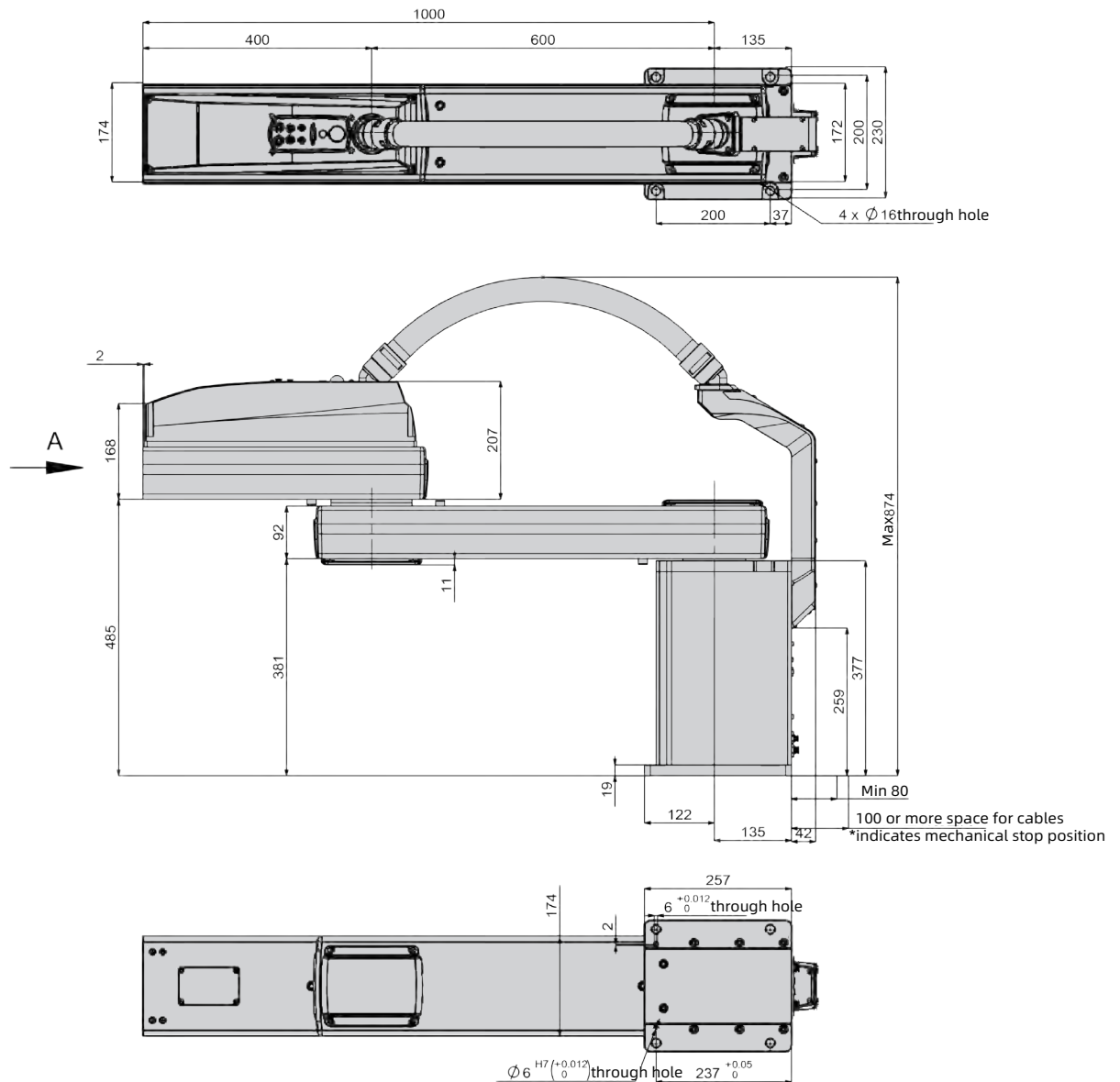
※ Test results under specified conditions of our company.

[www.sharewell.cc](http://www.sharewell.cc)

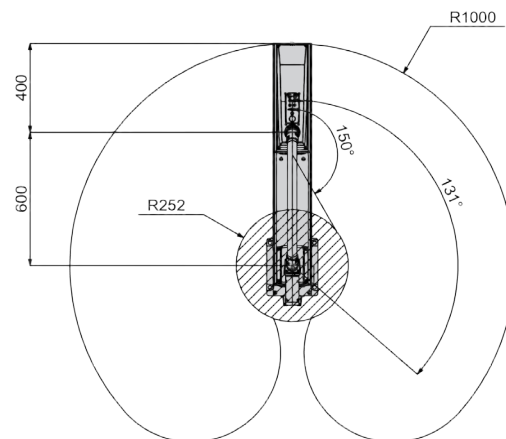
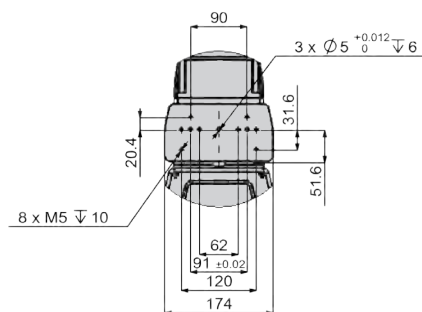
## Motion parameters

Joint Content	#1	#2
Max Operating Speed	10623mm/s	
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$
Motor Power Consumption	1000W	750W
Weight	52kg (cables not included )	

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



## Operating range

Arm length 1000mm

Joint#3 stroke 200mm

## Payload

Rated 20kg/Maximum40kg

## Repeatability

Joint #1,#2  $\pm 0.025\text{mm}$

Joint #3  $\pm 0.01\text{mm}$

## Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 2$ , $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

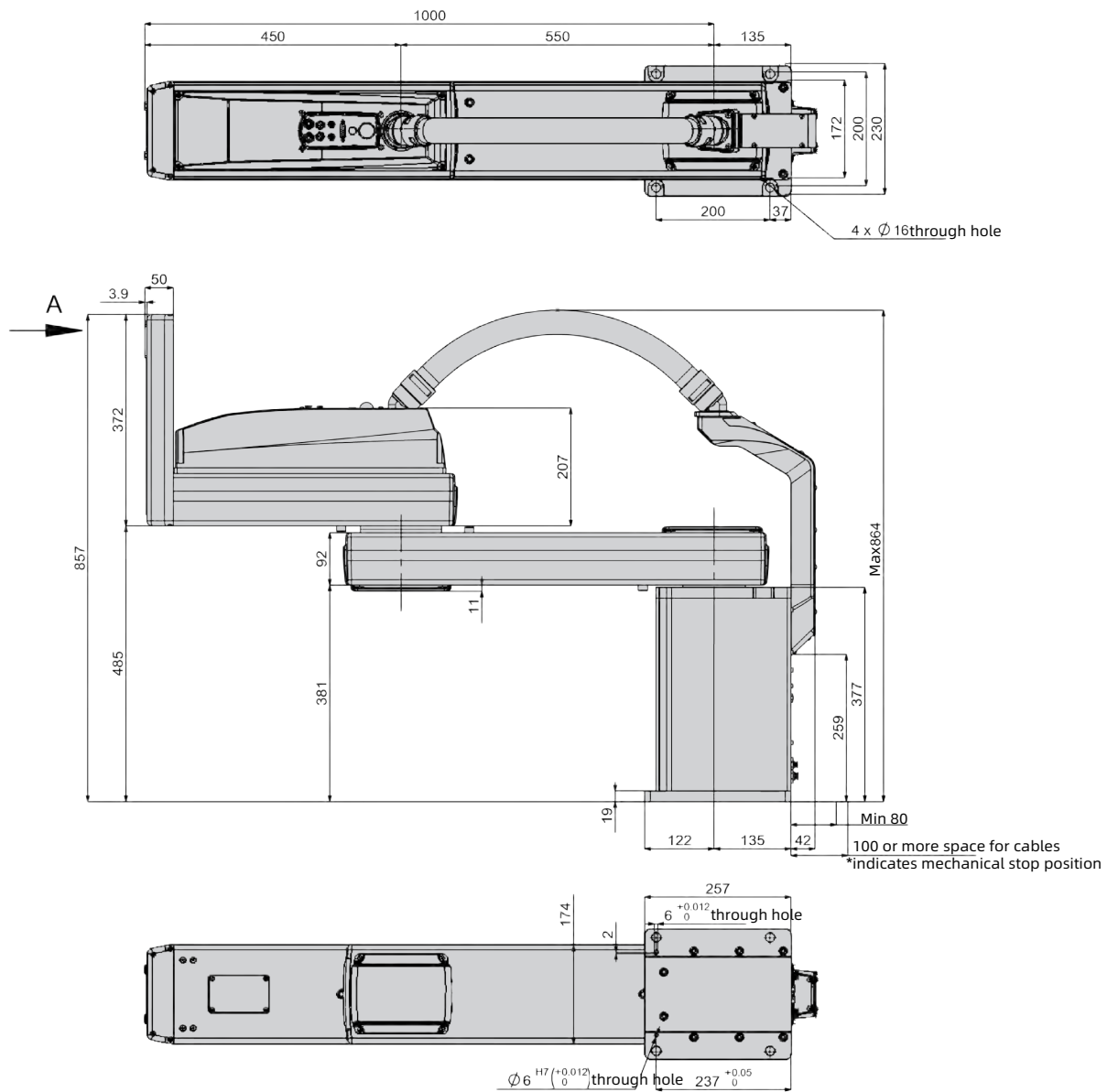
※ Test results under specified conditions of our company.

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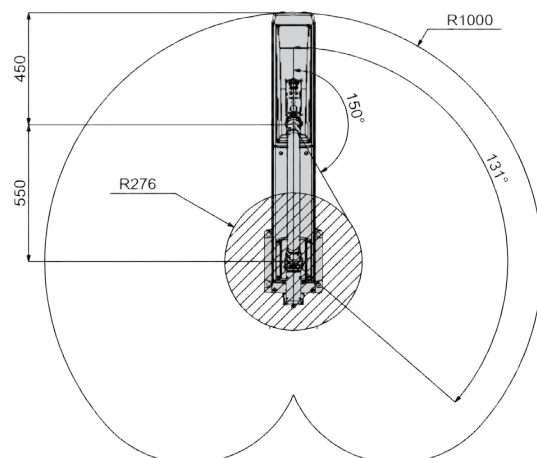
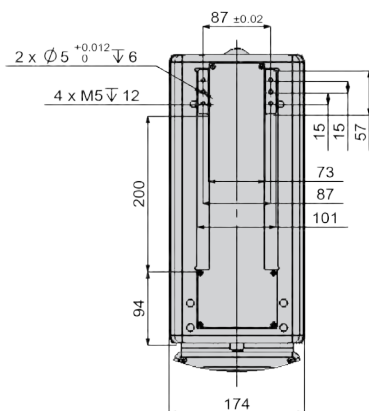
## Motion parameters

Joint Content	#1	#2	#3
Max Operating Speed	11003mm/s		1450mm/s
Max Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	200mm
Motor Power Consumption	1000W	750W	400W
Weight	54kg (cables not included )		

## Outer Dimensions and Motion Range



Detailed view from A



Shaded area indicates operation blind spot



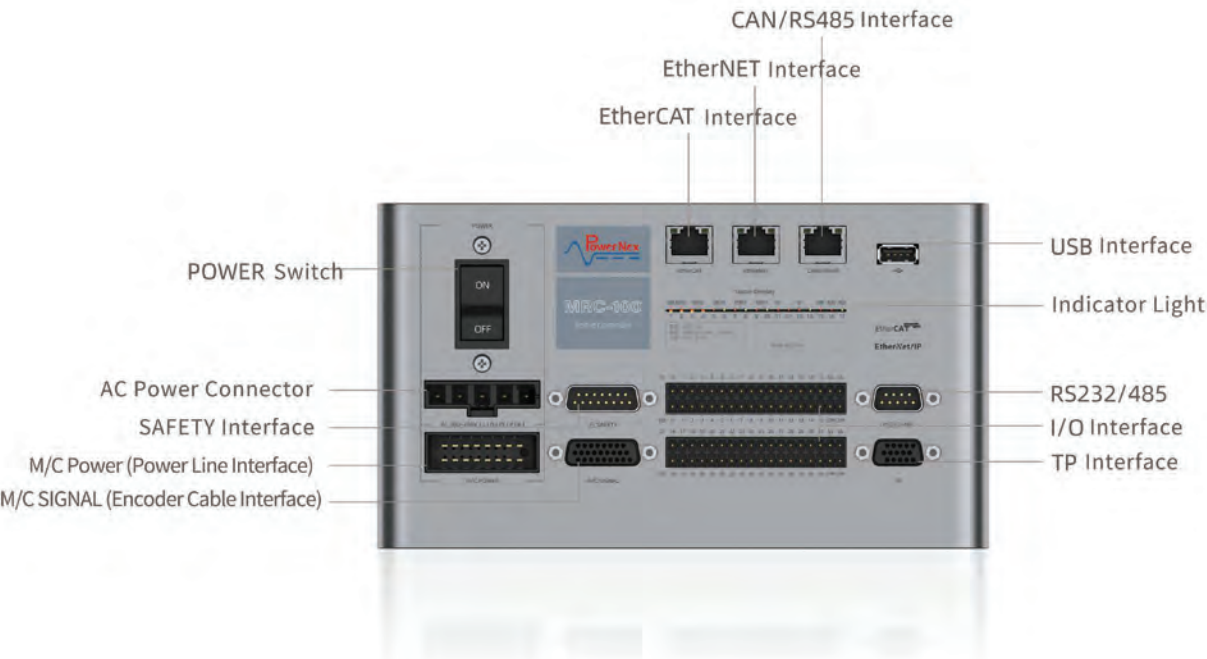
# MRC-100

## Robot Controller— Robot Controller

Abundant device interfaces, designed for the expansion of specialized four-axis robotic arms



External Dimensions:  
L217mm \* W237mm \* H125mm



Maximum number of control axes	4-axis
Supported robot models	P3/P6/P10/P20/P40
Types of exercise	PTP (Point-To-Point) mode CP (Continuous Path) mode
IO	Input: 16 (standard) Output: 16 (standard)
Interface configuration	EtherCAT(network port)*1、EtherNet(network port)*1 CAN/RS485(network port)*1、USB2.0*1 RS232/485(serial port)*1、safety door interface*1
Communication protocol (standard)	EtherNet/IP(Slave)、EtherCAT(Master) ModBus - TCP/RTU(Master/Slave) TCP/IP、Mitsubishi PLC-MC Protocol (Slave)
Communication protocol (Expansion)	PROFINET(Master Station) - Additional gateway module required

Rated capacity	Maximum input power 4kW The actual rated capacity depends on the type, motion and load of the robotic arm P3 : 0.8 Kw E4 : 1.1 Kw P6/R6 : 1.2 Kw P10 : 2.4 Kw P20/P40/E10 : 2.65 Kw
Input voltage	220V AC±10%
frequency	50Hz
noise	50dB
Installation and Usage Environment	Indoor installation (avoid direct sunlight), free from corrosive gases (avoid oil fumes, flammable gases, and fine dust); Ambient temperature 5~45°C (if exceeding 45°C or above, enforce surrounding air circulation)
Net weight of controller	6KG

# MRC-200

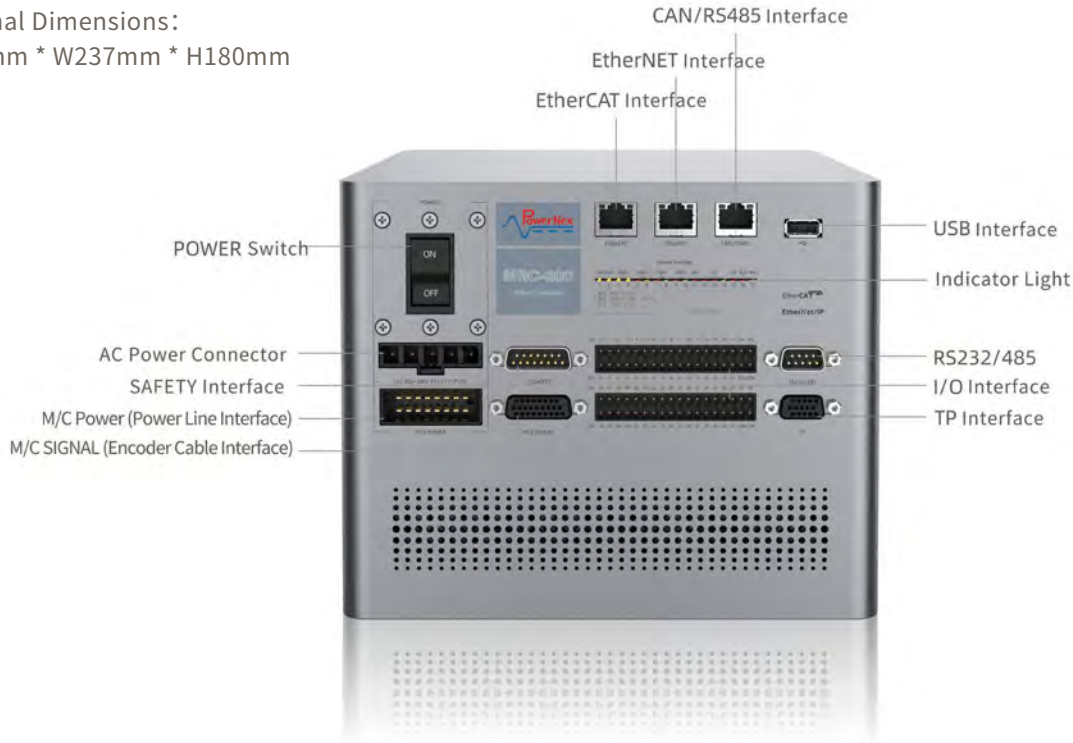
## Robot Controller— Robot Controller

Extensive device interfaces, intended for the expansion of heavy-duty robotic arm specialized machines



External Dimensions:

L217mm \* W237mm \* H180mm



Maximum number of control axes	4-axis
Supported robot models	P60-1004S/P60-1204S P100-1204S
Types of exercise	PTP (Point-To-Point) mode CP (Continuous Path) mode
IO	Input: 16 (standard) Output: 16 (standard)
Interface configuration	EtherCAT(network port)*1、EtherNet(network port)*1 CAN/RS485(network port)*1、USB2.0*1 RS232/485(serial port)*1、safety door interface*1
Communication protocol (standard)	EtherNet/IP(Slave)、EtherCAT(Master) ModBus - TCP/RTU(Master/Slave) TCP/IP、Mitsubishi PLC-MC Protocol (Slave)
Communication protocol (Expansion)	PROFINET(Master Station) - Additional gateway module required

Rated capacity	Maximum input power 7.5kW The actual rated capacity depends on the type, motion and load of the robotic arm  P60/P100 : 4.6 Kw
Input voltage	220V AC $\pm$ 10% / 380V AC $\pm$ 5%
frequency	50Hz
noise	50dB
Installation and Usage Environment	Indoor installation (avoid direct sunlight), free from corrosive gases (avoid oil fumes, flammable gases, and fine dust); Ambient temperature 5-45°C (if exceeding 45°C or above, enforce surrounding air circulation)
Net weight of controller	9KG

# Teach Pendant

Features:

- 1. 1.7-inch 16:9 LCD with touch screen
- 2. TFT LED screen
- 3. Supports FDM standard (75×75mm hole spacing) for bracket and wall mount installation
- 4. Combines buttons and touch functionality, providing wider application scenarios and more flexible options
- 5. Color display with 16.77 million true colors



Performance specifications	Touch panel:	4-wire precision resistive network (surface hardness 4H)
	Programmable Button	10Pcs
	Programmable LED	2Pcs
	Emergency stop switch:	1Pcs
	Three-Position Selector Switch	1Pcs
	Serial Port:	1 Pcs RS485-2, RS232
	Communication Port:	RS485-2、RS232
Structural Specifications	Dimensions:	220×156×45(mm)
	Weight:	3KG
	Case Material:	Black Engineering Plastic
Electrical Specifications	Input Range:	DC16V~DC32V, Built-in Isolated Power Supply
	Allowable Power Loss:	<3ms
	Insulation Resistance:	>50MΩ@500V DC
	Cable Length:	5M
Environmental specifications	Operating Ambient Temperature:	0~50℃
	Operating Ambient Humidity:	10~ 90% RH (non-condensing)
	Sine Vibration Test:	10~500Hz, 30m/s <sup>2</sup> , Three Axes / 1 Hour
	Cooling method:	Natural Air Cooling

# S Series compact 6-axis robot

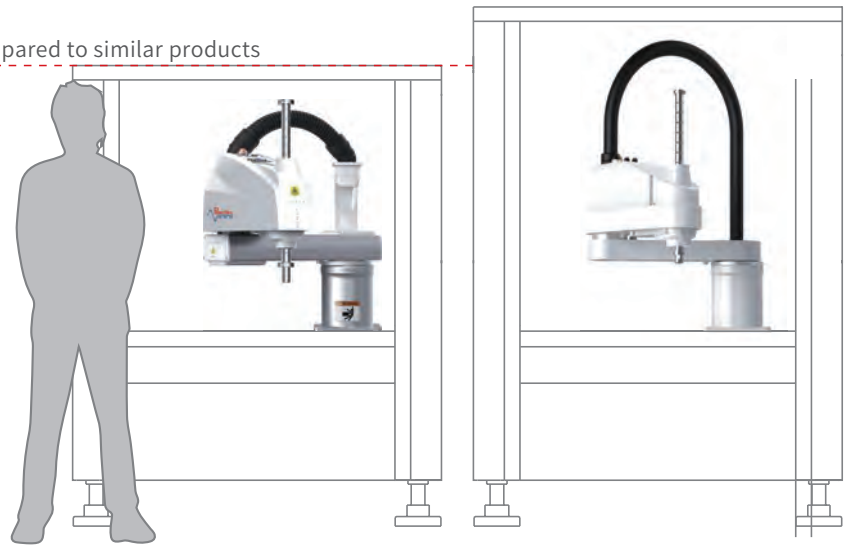
Precise, Agile, Economical



# PowerNex Innovation



Reduced Body Height compared to similar products



## Reduced Body Height, Saving 15% Space

Compared to similar robots, PowerNex has reduced its height by 140mm, reducing installation space requirements.



## Customizable Arm Length to Meet More Personalized Needs

Flexible Arm Length Customization to Meet More Complex and Personalized Needs in the Field of Automation



# Richer Interfaces, Deployment Efficiency Improved by 3 Times

Equipped with 2 camera interfaces, up to 42 I/O interfaces, and 4 standard pneumatic connectors, significantly enhancing deployment efficiency and reducing maintenance costs.

## 2 Camera Interfaces

Gigabit Network Interface, Easier Deployment, More Durable.

## 42 I/O Interfaces

Standard: 26 via( D-Sub Interface)

Maximum: 42 I/O interfaces ( D-Sub Interface+M12\*2  
Aviation Connector)

## 4 Pneumatic Connectors

$\Phi 4*2$

$\Phi 6*2$





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