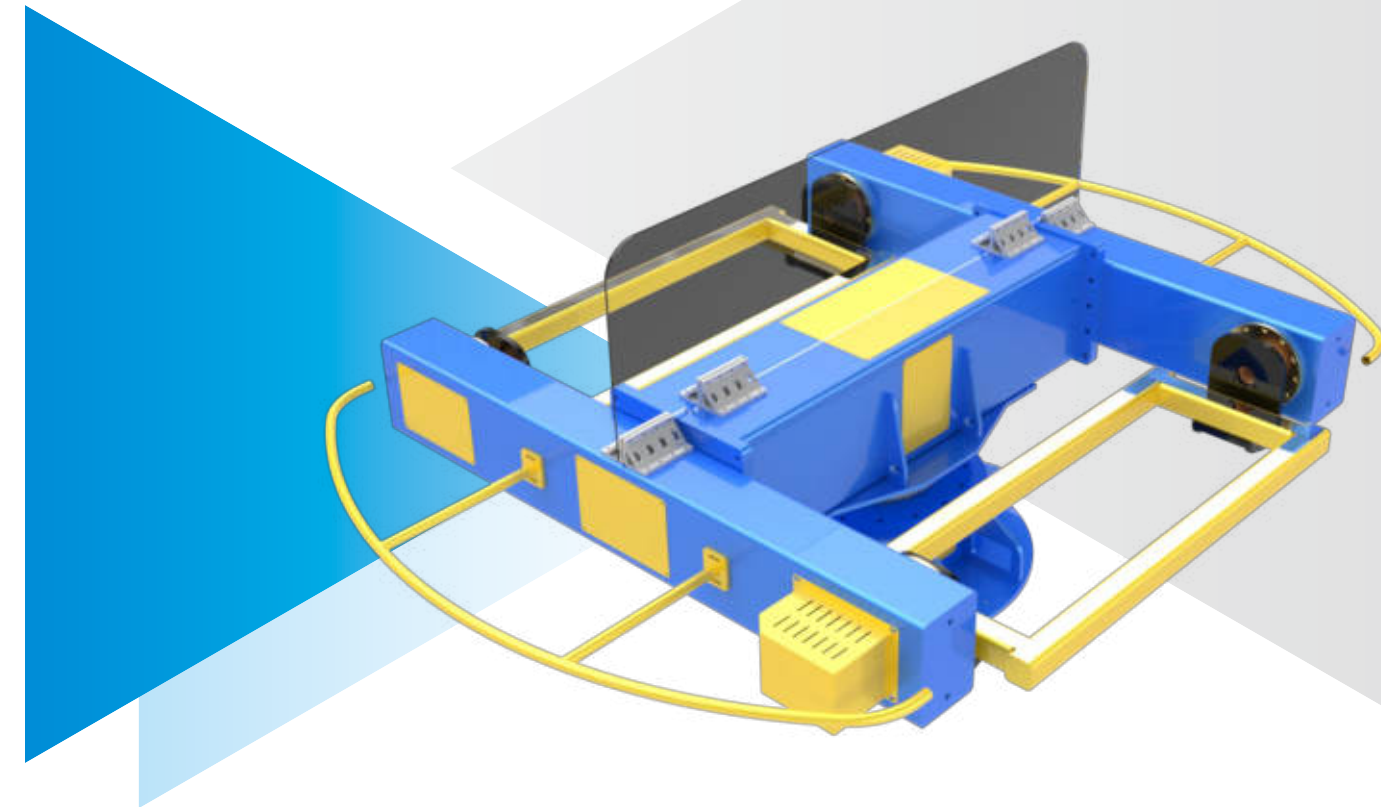
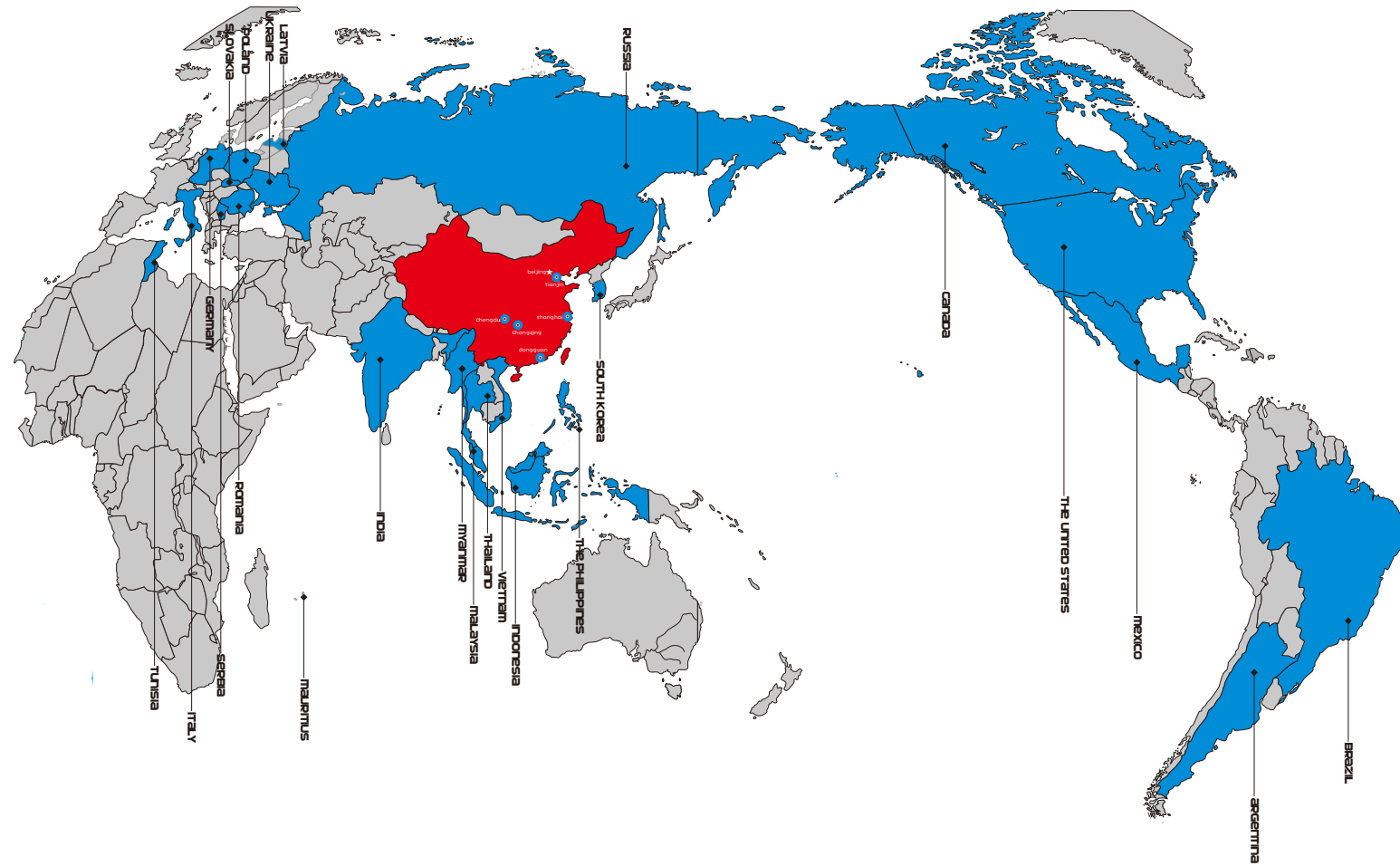


# CROBOTP



■ CROBOTP Positioner Product Manual

Let customers make good use of robots



Company: CHENGDU CRP ROBOT TECHNOLOGY CO., LTD.  
Address: No.40-42, Huatai Road, Chengdu District, Chengdu City, China  
Website: [www.crprobot.com](http://www.crprobot.com)  
Phone: +86(28)84203568  
Email: +86(28)83951758

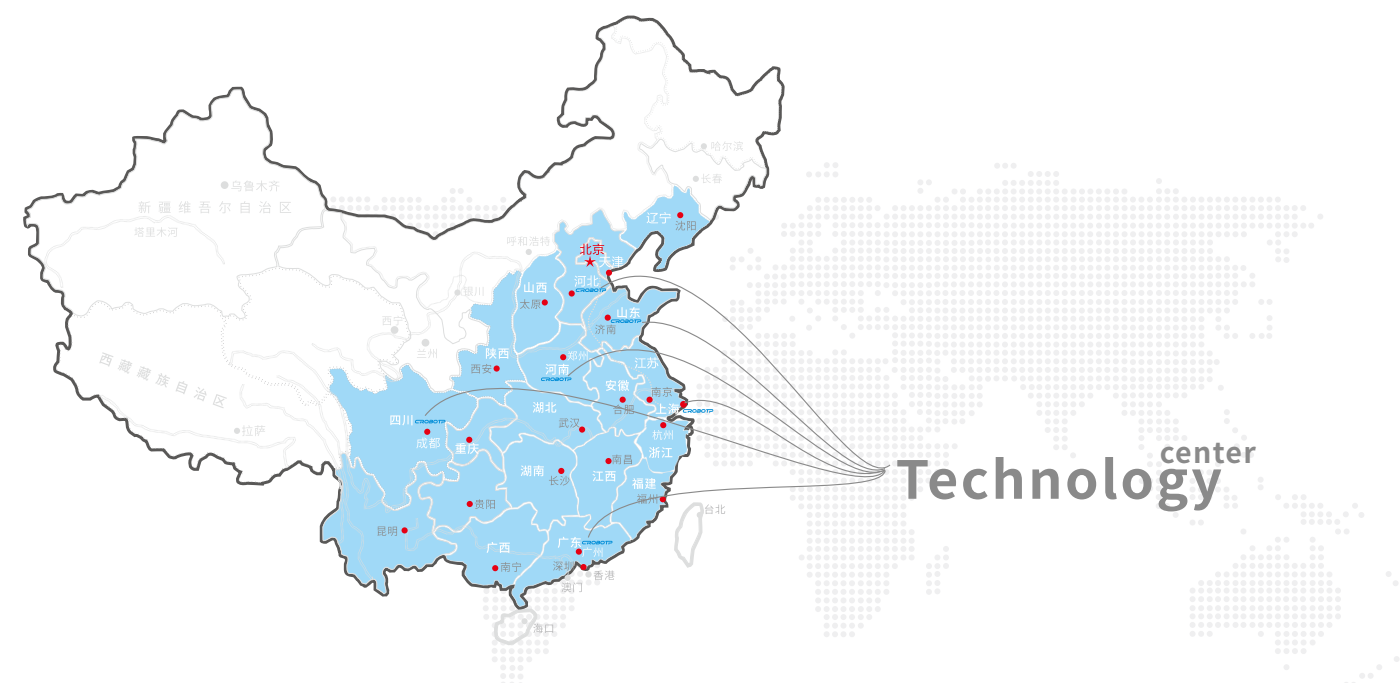
Due to continuous product improvement, product design and specifications are subject to change without notice. (Version number: 202110 Ver1.0)  
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Let customers make good use of robots



# CRP ROBOTICS

Make good robots for clients.



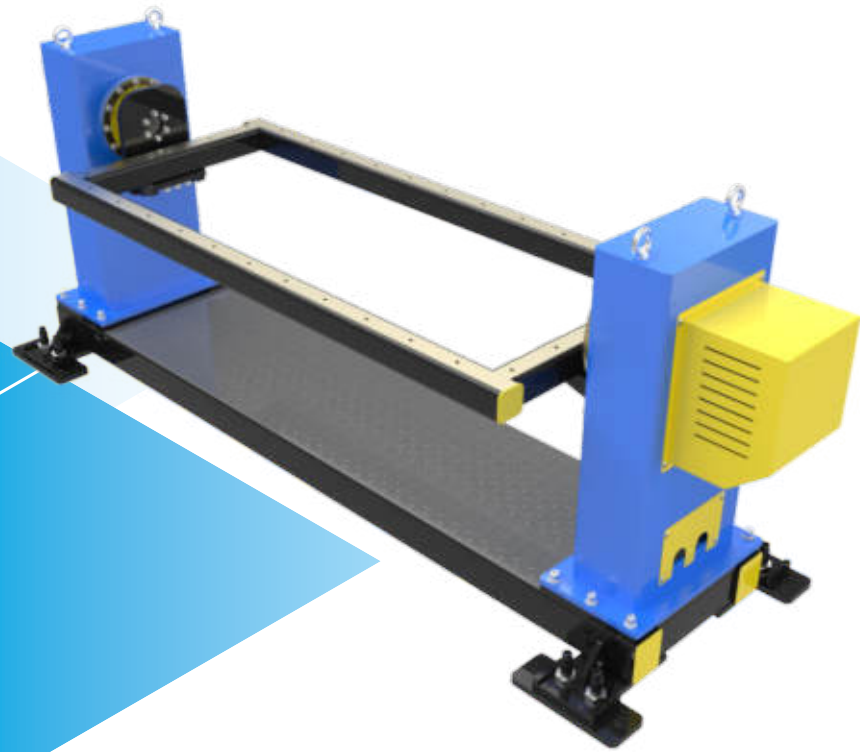
Chengdu CRP Robot Technology Co., Ltd. (hereinafter referred to as "CRP") is a high-tech enterprise, specializing in the R&D, production and sales of industrial robots' core components (control system, servo system and intelligent sensor), complete collaborative robots and industrial robots. It is the main drafting unit of four national standards in the field of industrial robot.

This company was established in 2012, and its core technicians began to engage in the research of robot control system since 2007. The company has 125 full-time technical R&D personnel, accounting for 40.19% of the total. Its R&D and production site is more than 8,000 square meters. After 9 years of development, CRP has become the largest supplier of domestic independent industrial robot controllers, and its market share in subdivisions such as domestic welding and domestic spray robot control has reached nearly 90%. As a uniquely influential robot brand in China, CRP has more than 100 patented technologies that have achieved the transformation of scientific and technological achievements. It is one of the few domestic enterprises with entire industrial chain. Now the annual output value of CRP exceeds 200 million yuan, and it has more than 500 customers. It also exports robot products to other countries, like the United Kingdom, the United States, Germany, Russia, Hungary, Vietnam, Thailand, etc. The products are widely used in spraying, welding, handling, palletizing, polishing, grinding and other fields.

In 2021, CRP invests in the construction of the Southwestern region's first industrial robot core components technology and intelligent industrial robot base with an area of over 30,000 square meters. This base will establish intelligent collaborative robots and industrial robot production lines, make the R&D field proceed wider and deeper, and expand the application technology of robots in new industries actively so as to provide customers with complete robotic technology and application solutions through more professional and stable services and technologies.

## Single Axis Front and Rear Frame Series

[Pictures are for reference only. The final product is subject to the actual product]

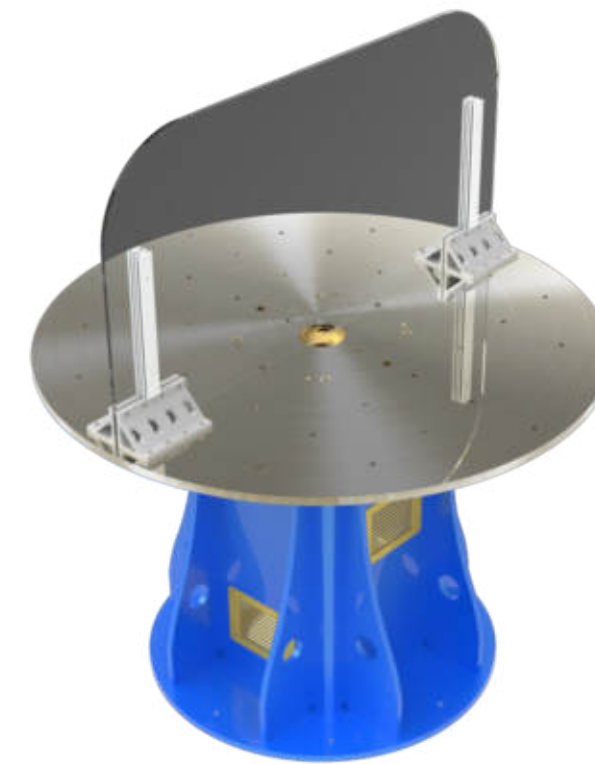


### Parameter

Model	Payload (kg)	Height from spindle center to base (mm)	Frame size (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB1K-250-1880	250	650	1800×800	78	±1.0	±360	≤150	≤300	40E-153	153	1.5
CRP-WB1K-500-1880	500	650	1800×800	78	±1.0	±360	≤150	≤300	80E-153	153	2.0
CRP-WB1K-1000-1880	1000	650	1800×800	74	±1.2	±360	≤100	≤200	110E-161	161	3.0
CRP-WB1K-250-2580	250	650	2500×800	78	±1.0	±360	≤150	≤300	40E-153	153	1.5
CRP-WB1K-500-2580	500	650	2500×800	78	±1.0	±360	≤150	≤300	80E-153	153	2.0
CRP-WB1K-1000-2580	1000	650	2500×800	74	±1.2	±360	≤100	≤200	110E-161	161	3.0
CRP-WB1K-2000-3080	2000	950	3000×800	64.8	±1.2	±360	≤100	≤200	320E-185	185	3.0
CRP-WB1K-3000-3080	3000	950	3000×800	22.63	±1.8	±360	≤80	≤150	320E-185	530.34	4.3

## Single Axis Horizontal Rotary Series

[Pictures are for reference only. The final product is subject to the actual product]



### Parameter

Model	Payload (kg)	Dia of circle plate (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB1S-250-0470	250	400	76.4	±1.0	±360	≤200	≤200	27C-157	157	1.0
CRP-WB1S-500-0470	500	400	67.8	±1.0	±360	≤200	≤200	50C-177	177	2.0
CRP-WB1S-750-0470	750	400	45.3	±1.0	±360	≤200	≤200	100C-264.6	264.6	2.0

## Single Axis L-type Series

[Pictures are for reference only. The final product is subject to the actual product]

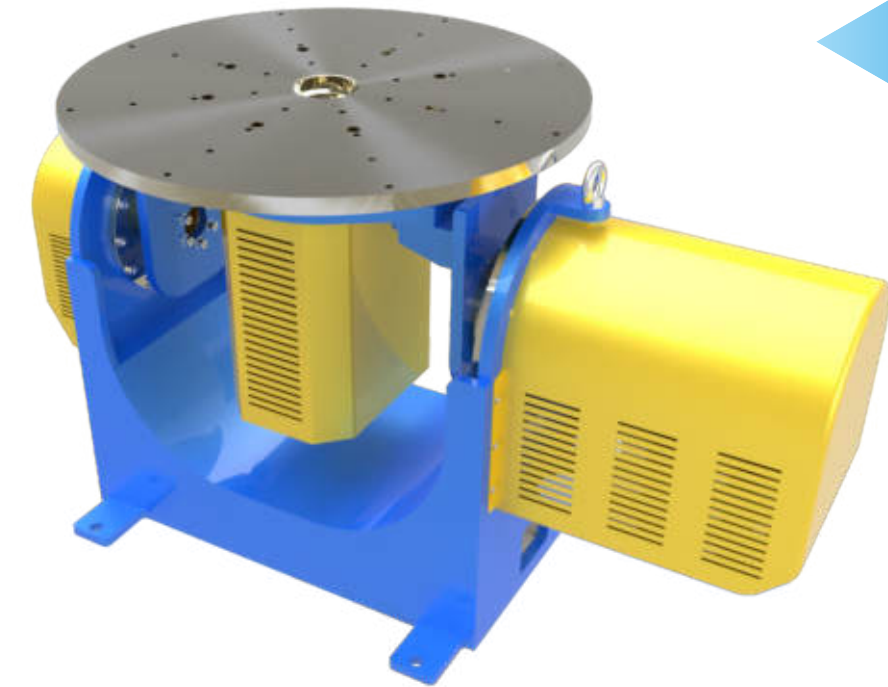


### Parameter

Model	Payload (kg)	Dia of circle plate (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB1L-250-0465	250	400	67.7	±1.0	±360	≤150	≤150	27C-177	177	1.5
CRP-WB1L-500-0495	500	400	45	±1.0	±360	≤150	≤150	100C-264.6	264.6	3.0
CRP-WB1L-1000-0812	1000	800	12.6	±1.8	±360	≤100	≤100	160E-171	951.19	3.0
CRP-WB1L-2000-0812	2000	800	11.66	±1.8	±360	≤100	≤100	320E-185	1029.06	4.3

## Two Axis Horizontal Rotary Series

[Pictures are for reference only. The final product is subject to the actual product]

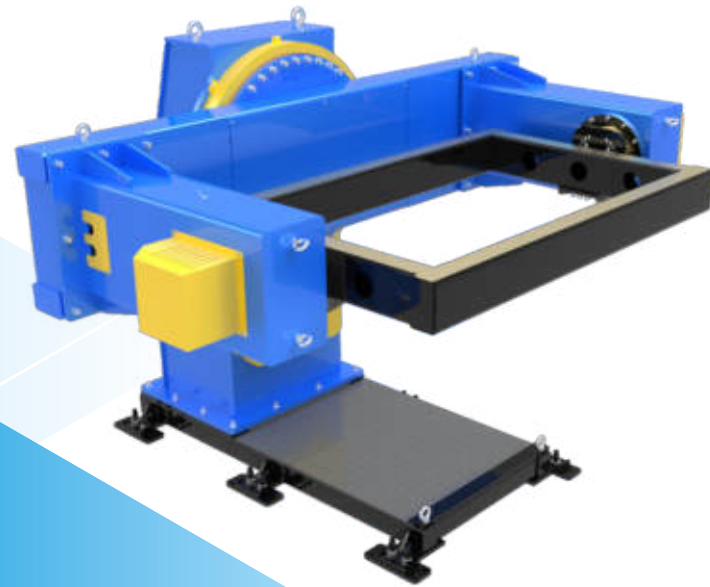


### Parameter

Model	Payload (kg)	Dia of circle plate (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB2S-250-0885	250	800	Flip axis: 78 Rotation axis: 76.4	±1.5	Flip axis: ±90 Rotation axis: ±360	≤100	≤100	Flip axis: 40E-153 Rotation axis: 27C-157	Flip axis: 153 Rotation axis: 157	Flip axis: 2.0 Rotation axis: 1.5
CRP-WB2S-500-0885	500	800	Flip axis: 45 Rotation axis: 67.7	±1.5	Flip axis: ±90 Rotation axis: ±360	≤100	≤100	Flip axis: 100C-264.6 Rotation axis: 50C-177	Flip axis: 264.6 Rotation axis: 177	Flip axis: 3.0 Rotation axis: 2.0

## Two Axis C-type Series

[Pictures are for reference only. The final product is subject to the actual product]



### Parameter

Model	Payload (kg)	Frame size (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB2C-250-1880	250	1800*800	Flip axis: 42.7 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤200	≤100	Flip axis: 200C-281 Rotation axis: 40E-153	Flip axis: 281 Rotation axis: 153	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2C-500-1880	500	1800*800	Flip axis: 12.5 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤150	≤100	Flip axis: 160E-171 Rotation axis: 80E-153	Flip axis: 951.19 Rotation axis: 153	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2C-1000-1880	1000	1800*800	Flip axis: 12.5 Rotation axis: 70	±1.5	Flip axis: ±180 Rotation axis: ±360	≤150	≤100	Flip axis: 160E-171 Rotation axis: 160E-171	Flip axis: 951.19 Rotation axis: 171	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2C-2000-1880	2000	1800*800	Flip axis: 11.66 Rotation axis: 64.86	±2.0	Flip axis: ±180 Rotation axis: ±360	≤150	≤100	Flip axis: 320E-185 Rotation axis: 320E-185	Flip axis: 1029.06 Rotation axis: 185	Flip axis: 4.3 Rotation axis: 3.0

## Two Axis U-type Series

[Pictures are for reference only. The final product is subject to the actual product]

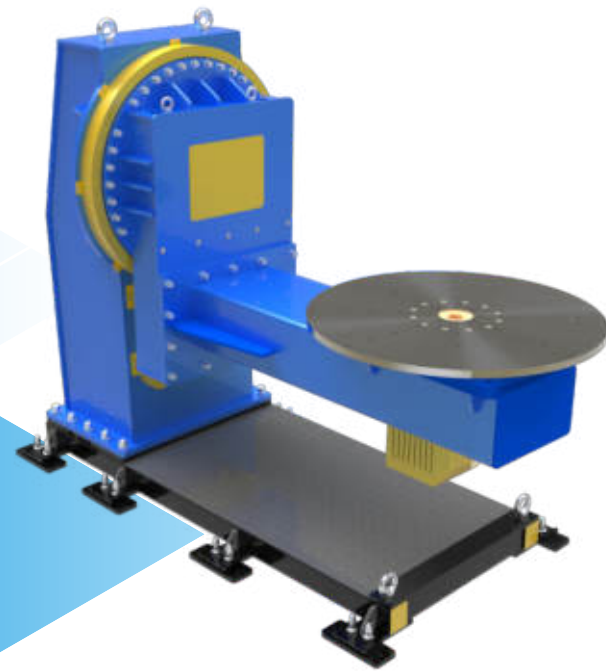


### Parameter

Model	Payload (kg)	Dia of circle plate (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB2U-250-1280	250	1200	Flip axis: 45 Rotation axis: 67.7	±1.0	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 100C-264.6 Rotation axis: 27C-177	Flip axis: 264.6 Rotation axis: 157	Flip axis: 3.0 Rotation axis: 1.5
CRP-WB2U-500-1280	500	1200	Flip axis: 45 Rotation axis: 67.7	±1.0	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 100C-264.6 Rotation axis: 50C-177	Flip axis: 264.6 Rotation axis: 157	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2U-250-1480	250	1400	Flip axis: 45 Rotation axis: 67.7	±1.0	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 100C-264.6 Rotation axis: 27C-177	Flip axis: 264.6 Rotation axis: 177	Flip axis: 3.0 Rotation axis: 1.5
CRP-WB2U-500-1480	500	1400	Flip axis: 45 Rotation axis: 67.7	±1.0	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 100C-264.6 Rotation axis: 50C-177	Flip axis: 264.6 Rotation axis: 157	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2U-1000-1580	1000	1500	Flip axis: 42 Rotation axis: 42	±1.5	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 200C-281 Rotation axis: 200C-281	Flip axis: 281 Rotation axis: 281	Flip axis: 3.0 Rotation axis: 3.0
CRP-WB2U-1000-1680	1000	1600	Flip axis: 42 Rotation axis: 42	±1.5	Flip axis: ±90 Rotation axis: ±360	≤100	≤200	Flip axis: 200C-281 Rotation axis: 200C-281	Flip axis: 281 Rotation axis: 281	Flip axis: 3.0 Rotation axis: 3.0

## Two Axis L-type Series

[Pictures are for reference only. The final product is subject to the actual product]

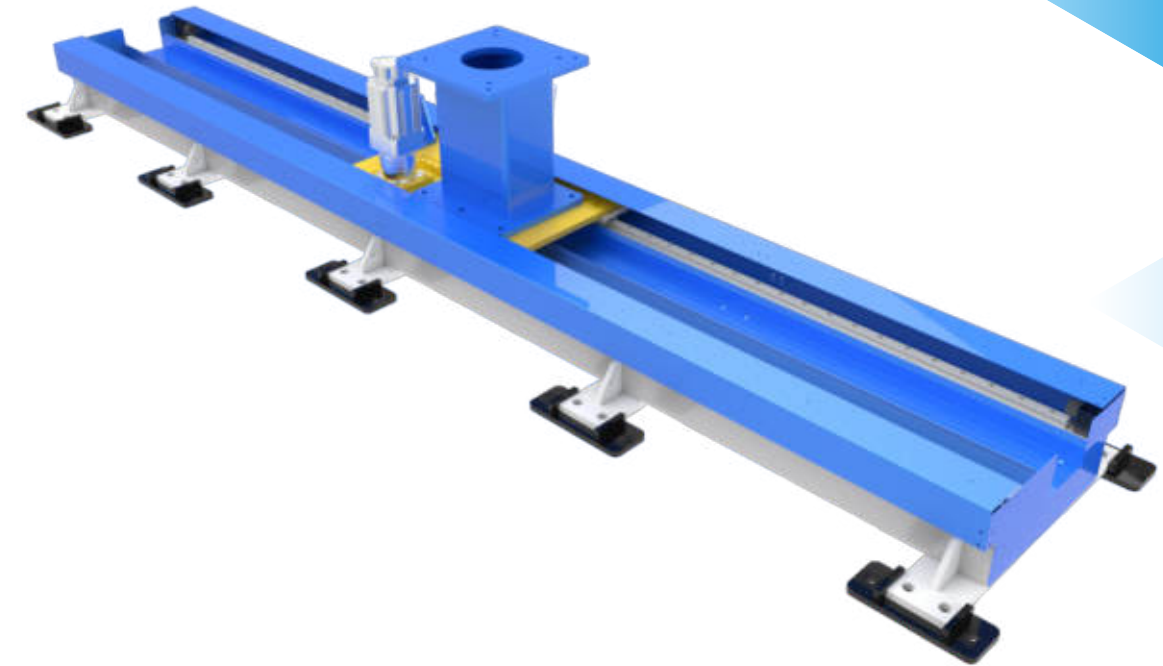


### Parameter

Model	Payload (kg)	Dia of circle plate (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB2L-250-9565-800	250	800	Flip axis: 45.3 Rotation axis: 76.43	±1.5	Flip axis: ±180 Rotation axis: ±360	≤200	≤200	Flip axis: 100C-264.6 Rotation axis: 27C-157	Flip axis: 264.6 Rotation axis: 157	Flip axis: 3.0 Rotation axis: 1.5
CRP-WB2L-500-9565-800	500	800	Flip axis: 42 Rotation axis: 67.8	±1.5	Flip axis: ±180 Rotation axis: ±360	≤250	≤300	Flip axis: 200C-281 Rotation axis: 50C-177	Flip axis: 281 Rotation axis: 177	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2L-1000-9565-1200	1000	1200	Flip axis: 12.6 Rotation axis: 42.7	±1.8	Flip axis: ±180 Rotation axis: ±360	≤250	≤300	Flip axis: 160E-171 Rotation axis: 200C-281	Flip axis: 1029.06 Rotation axis: 281	Flip axis: 3.0 Rotation axis: 2.0
CRP-WB2L-2000-14095-1200	2000	1200	Flip axis: 11.66 Rotation axis: 24.48	±1.8	Flip axis: ±180 Rotation axis: ±360	≤150	≤200	Flip axis: 320E-185 Rotation axis: 160E-171	Flip axis: 1029.06 Rotation axis: 490.21	Flip axis: 4.3 Rotation axis: 3.0

## Walking Track Series (Ground Track)

[Pictures are for reference only. The final product is subject to the actual product]

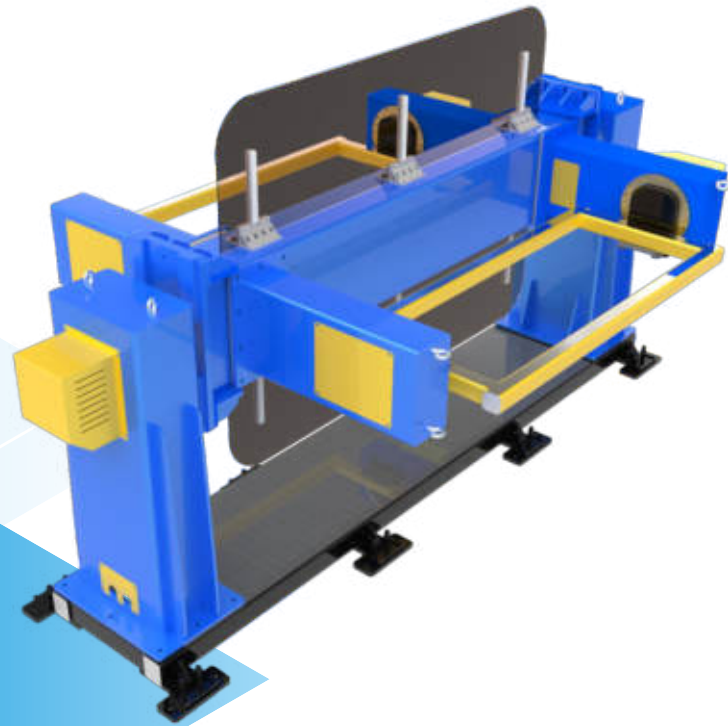


### Parameter

Model	Payload (kg)	Effective length(mm)	Maximum speed of moving(mm/s)	Repeatability (mm)	Total reduction ratio	Servo motor power (kw)
CRP-WD500-total length-speed	500	The standard (no piano cover) effective length is 3 meters / total length is 4 meters, including the base. The maximum length of a single section is 6 meters, including installation accessories (common for welding models) Note: When adding the piano cover, the actual effective length = the original effective length * 0.8	800	±0.1	14.2742	1.5
CRP-WD1000-total length-speed	1000	Effective length is 2.5 meters/ total length is 4 meters, including base. The maximum length of a single section is 6 meters, including installation accessories	800	±0.1	13.4070	3.0
CRP-WD2000-total length-speed	2000	Effective length is 2.5 meters/ total length is 4 meters, including base. The maximum length of a single section is 6 meters, including installation accessories	500	±0.15	20.8227	3.0

## Three Axis Vertical Series

[Pictures are for reference only. The final product is subject to the actual product]

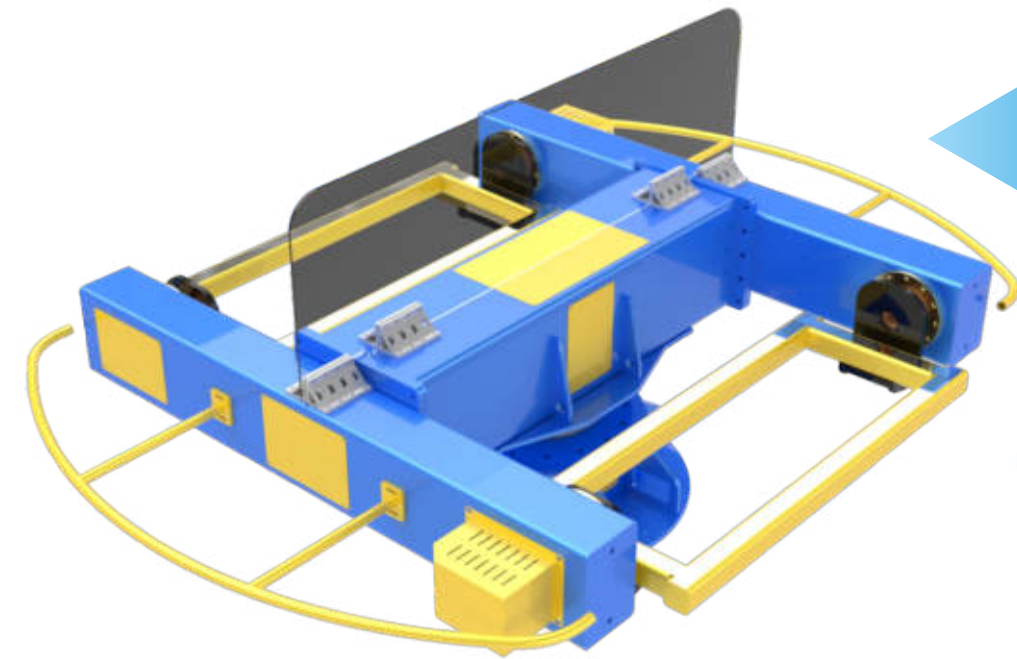


### Parameter

Model	Payload (kg)	Frame size (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB3C-250-1880	250	1800*800	Flip axis: 64 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 40E-153	Flip axis: 185 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3C-500-1880	500	1800*800	Flip axis: 64 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 80E-153	Flip axis: 185 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3C-1000-1880	1000	1800*800	Flip axis: 22.63 Rotation axis: 70	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 160E-171	Flip axis: 530.34 Rotation axis*2: 171	Flip axis: 3.0 Rotation axis*2: 3.0
CRP-WB3C-250-2580	250	2500*800	Flip axis: 64 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 40E-153	Flip axis: 185 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3C-500-2580	500	2500*800	Flip axis: 64 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 80E-153	Flip axis: 185 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3C-1000-2580	1000	2500*800	Flip axis: 22.63 Rotation axis: 70	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 160E-171	Flip axis: 530.34 Rotation axis*2: 171	Flip axis: 3.0 Rotation axis*2: 3.0

## Three Axis Horizontal Frame Type Series

[Pictures are for reference only. The final product is subject to the actual product]



### Parameter

Model	Payload (kg)	Frame size (mm)	Rotary speed (°/s)	Repeatability (arcmin)	Rotary angle (°)	Eccentricity length (mm)	Gravity distance (mm)	RV reducer	Total reduction ratio	Servo motor power (kw)
CRP-WB3S-250-1880	250	1800*800	Flip axis: 42 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 200C-281 Rotation axis: 40E-153	Flip axis: 281 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3S-500-1880	500	1800*800	Flip axis: 24.48 Rotation axis: 78	±1.8	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320C-202.36 Rotation axis: 80E-153	Flip axis: 202.36 Rotation axis*2: 153	Flip axis: 4.3 Rotation axis*2: 2.0
CRP-WB3S-1000-1880	1000	1800*800	Flip axis: 11.66 Rotation axis: 74.5	±1.8	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 110E-161	Flip axis: 1029.06 Rotation axis*2: 161	Flip axis: 4.3 Rotation axis*2: 3.0
CRP-WB3S-250-2580	250	2500*800	Flip axis: 42 Rotation axis: 78	±1.5	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 200C-281 Rotation axis: 40E-153	Flip axis: 281 Rotation axis*2: 153	Flip axis: 3.0 Rotation axis*2: 1.5
CRP-WB3S-500-2580	500	2500*800	Flip axis: 24.48 Rotation axis: 78	±1.8	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320C-202.36 Rotation axis: 80E-153	Flip axis: 202.36 Rotation axis*2: 153	Flip axis: 4.3 Rotation axis*2: 2.0
CRP-WB3S-1000-2580	1000	2500*800	Flip axis: 11.66 Rotation axis: 74.5	±1.8	Flip axis: ±180 Rotation axis: ±360	≤100	≤150	Flip axis: 320E-185 Rotation axis: 110E-161	Flip axis: 1029.06 Rotation axis*2: 161	Flip axis: 4.3 Rotation axis*2: 3.0