

VEICHI

RB200 Series

Rotary Joint Module





| About Us

Veichi Electric (Stock Code: 688698), a high-tech enterprise specializing in electrical transmission and industrial control, integrates R&D, production, and sales of industrial automation products. With a vision to become a world-class provider of smart industry and green energy solutions, it has three R&D centers in Suzhou, Shenzhen, and Xi'an, three manufacturing bases in Suzhou, Changzhou, and Jiujiang, and wholly-owned subsidiaries overseas. Its business spans multiple countries and regions, continuously delivering competitive, safe, and reliable products and services to global customers.

Under the "One Core, Two New Drivers" strategy, Veichi focuses on industrial automation—AC drives, servo systems, and control systems for heavy and light industries and high-end equipment—supporting manufacturing's digital and intelligent transformation with tailored solutions. In parallel, it pursues two emerging fields: embodied intelligence, offering one-stop solutions for humanoid, collaborative, and mobile robots; and green energy, exploring photovoltaic, energy storage, and hydrogen energy to "connect every device with green power"—fostering synergy between core operations and new ventures.

Sustained R&D has yielded a portfolio of proprietary patented technologies including silicon carbide application, HF injection, motor controls and protections (auto-tuning, flying-start, high-speed flux-weakening, V/F control, vector control), high-density water-cooling layout, and IGBT drive protection. As of June 30th, 2026, Veichi holds 267 patents, with 75 for invention.

Over two decades of steady growth, Veichi has earned numerous certifications and accolades from national and regulatory authorities, including "High-Tech Enterprise," "Postdoctoral Research Workstation," and provincial honors like "Engineering Technology Research Center," "Enterprise Technology Center," and "Industrial Internet Development Demonstration Enterprise (Benchmark Factory Category)."

Guided by its mission to "Drive Smart Industry, Co-create a Green Future," Veichi will continue to intensify R&D and advance into high-performance, high-reliability fields to propel global progress.

267

Granted patents

20+

Development merits

3 R&D centers

Suzhou, Shenzhen, Xi'an

3 manufacturing bases

Suzhou, Changzhou, Jiujiang

RB200 Series

Planetary Joint

- Unified design integrates reducer, motor & encoder — Deeply coupled, all-in-one
- Full in-house R&D & production — Breaks precision-transmission barriers
- Lower material cost, shorter lead time — Empowers the robotics industry



Low backdrive



Wide specs



Fast customization



Low temp-rise design

Model code

RB200- G 12 36 - C 1 - 6

Product series

RB200 series

Voltage level

G : DC48V

I : DC24V

Rated speed

12N·m

Reduction ratio

36

Hollow bore

6mm

Brake

1 : No brake

2 : With brake

Communication

C : CANopen

E : Ethercat

Hollow planetary joint

Model	Ratio /	Rated speed (rpm)	Rated torque (N·m)	Peak torque (N·m)	Dimensions (mm ³)	Hollow bore (mm)	Weight (g)
RB200-G1221-C1-6	21.67	115	12.9	36	Φ68×60.5	6	652
RB200-G2115-C1-8	15.45	129	21	63	Φ80×69.8	8	1200
RB200-G4019-C1-10	19.68	127	45.1	120	Φ96×76	10	1900
RB200-G10024-C1-8	24	102	100	360	Φ124×85	8	2200
RB200-G10021-C1-10	21.13	95	106	310	Φ124×92	10	2300

Standard planetary joint

Model	Ratio /	Rated speed (rpm)	Rated torque (N·m)	Peak torque (N·m)	Dimensions (mm ³)	Max. speed (rpm)	Weight (g)
RB200-G0608-C1	7.75	360	6	17	Φ78.5×45.5	410	400
RB200-G1236-C1	36	78	12	36	Φ56×60	85	380
RB200-G2025-C1	25	131	20	60	Φ88×59.5	135	600
RB200-G3018-C1	18	142	30	94	Φ105×47.5	150	830
RB200-G5012-C1	12	130	50	150	Φ124×61.5	150	1400

RB200 Series

Harmonic Joint

- Integrated design — servo drive, dual hollow-shaft encoder, frameless motor, harmonic reducer, sensors
- Self-developed core components
- Core breakthroughs: high power density/torque, dual hollow-shaft encoder, torque control, load inertia identification
- Modular, lightweight, low-cost, high-performance product line
- One-stop solution — simpler robot R&D, easier automation use



Lightweight



Full-stack in-house



High torque



High precision

Model code

RB200-G 70 14-R10 30-100 D JM 2 E-L

Product series

RB200 series

Voltage level

G : DC48V

I : DC24V

Outer diameter

70mm

Specification

14

Rated power

R10: 100W

Rated speed

30: 3000rpm

Reducer

100

Encoder(motor)

D: Single-turn

DM: Multi-turn

Configuration

L: Short

None : Standard

Communication

C : CANopen

E : Ethercat

Brake

1 : No brake

2 : With brake

Encoder (reducer)

J : Single-turn

JM : Multi-turn

Harmonic joint

Model	Ratio /	Rated torque (N·m)	Max avg load (N·m)	Peak torque (N·m)	Rated speed (rpm)	Max speed (rpm)	Dimensions (mm ³)	Hollow bore (mm)	Weight (g)	Configuration
RB200-G4008	50	1.25	1.6	4.6	70	100	Φ40×55.6	7	165	Short
	100	1.65	2.3	6.3	35	50	Φ40×55.6	7	165	Short
RB200-G5211	50	3.5	5.5	17	60	70	Φ52×59.9	7	400	Short
	100	5	8.9	25	30	35	Φ52×71.4	7	430	Short
RB200-G7014	50	6.6	8.6	43	60	70	Φ70×61	10	850	Short
	100	9.6	13.5	66	30	35	Φ70×71.6	10	920	Short
RB200-G7014	50	6.6	8.6	43	60	70	Φ70×86	17	/	Large-Bore
	100	9.6	13.5	66	30	35	Φ70×86	17	/	Large-Bore
RB200-G8017	50	19.8	32	86	60	70	Φ80×68.5	12	1020	Short
	100	30	49	134	30	35	Φ80×77.2	12	1180	Short
RB200-G8017	50	19.8	32	86	60	70	Φ80×77.5	18	/	Large-Bore
	100	30	49	134	30	35	Φ80×77.5	18	/	Large-Bore
RB200-G9020	50	32	42	121	60	70	Φ90×72	18	1500	Short
	100	50	61	182	30	35	Φ90×83	18	1750	Short
RB200-G11025	100	84	133	351	30	30	Φ110×79	18	3200	Short
	120	84	133	376	25	35	Φ110×89.9	18	3400	Short
RB200-G14232	120	169	267	848	21	29	Φ142×118.5	18	6100	Short
RB200-G17040	120	363	557	1458	16.6	21	Φ170×142	18	8500	Standard

Lightweight harmonic joint

Model	Ratio /	Rated torque (N·m)	Max avg load (N·m)	Peak torque (N·m)	Rated speed (rpm)	Max speed (rpm)	Dimensions (mm³)	Hollow bore (mm)	Weight (g)
RB200-6014	100	9.6	13.5	66	35	68	Φ60×72	12	700
RB200-7017	100	30	31.5	94.5	30	45	Φ70×74.5	15	1000
RB200-8020	100	41	41	123	30	40	Φ80×71	12	1200

Force-controlled harmonic joint

Model	Rated torque (N·m)	Max avg load (N·m)	Peak torque (N·m)	Rated speed (rpm)	Max speed (rpm)	Dimensions (mm³)	Hollow bore (mm)
RB200-G4008	1.65	2.3	6.3	35	50	Φ40×55.6	7
RB200-G5211	5	8.9	25	30	45	Φ52×77.4	7
RB200-G7014	9.6	13.5	66	30	45	Φ70×79.1	10
RB200-G8017	30	49	134	30	45	Φ80×86.2	12
RB200-G9020	50	61	182	30	45	Φ90×93	18
RB200-G11025	84	133	351	30	45	Φ110×102.4	18
RB200-G14232	169	267	848	21	29	Φ142×120	18
RB200-G17040	363	557	1458	16.6	21	Φ170×156	18

≤0.5%FS

Sensor Resolution



≥1kHz

Sampling Frequency



≥80Hz

Force-Control Closed-Loop Bandwidth



Drive Forever

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