

RG Series Flexible-Track Welding Carriage

Flexible Track Welding Carriage & Tank Shell Welding Machine

Belt-type stainless-steel flexible track with magnetic blocks — follows curved shells and large-diameter workpieces. For vertical and horizontal seams on tanks, vessels and curved plate.

Models Covered

RG-III-Q1/Z-C (straight swing) · RG-III-Q1/J-C (angle swing)

Technical Specifications

Item	Specification
Carriage model	RG-III-Q1/Z (straight swing) · RG-III-Q1/J (angle swing)
Drive mode	Chain-sprocket drive (main unit travel)
Welding speed	0–1100 mm/min (digital display)
Minimum workpiece diameter	Ø1800 mm and above (magnetically permeable material)
Minimum suction thickness	3 mm
Carriage dimensions (L×W×H)	RG-III-Q1/Z: 240 × 365 × 302 mm · RG-III-Q1/J: 260 × 503 × 302 mm
Carriage weight	8.7 kg
Swing mode	Straight swing (Z) / angle swing (J)
Swing width	0–32 mm (digital, simulated value)
Swing angle	30° (angle-swing version)
Swing speed	0–2700 mm/min
Dwell time left / right	0–4 s each
Centre offset compensation	±5 mm
Torch adjustment — vertical	65 mm (vertical slide)
Torch adjustment — horizontal	90 mm (main unit left/right adjustment)
Oscillator rotation	±60°
Torch nozzle travel angle	±25°
Flexible track (type C)	Custom stainless steel belt, 1784 × 102 × 2 mm, 2 kg per rail
Magnetic block	V-type 12 T metal-handle magnetic base, 120 × 50 × 55 mm, 2 kg each, holding force 35 kg per block (room temperature, thick plate, vertical)
Track assembly weight	10 kg; quick-plug joint, approx. 15 s to mount one rail
Standard configuration	Carriage ×1 · Type-C flexible tracks ×2 · Power unit ×1 · Power cable ×1 · Tool kit ×1 · Documents ×1 · Packaging ×1
Packing	Foam packing 1850 × 140 × 30 mm, 5 kg · Wooden case 510 × 410 × 420 mm, 40 kg

Standard Configuration

Each machine is supplied complete and test-welded before packing, with export documents in order. See the specification table above for the exact bill of items.

Options & Customization

- Track variant /C (magnetic) for carbon steel, /X (vacuum suction) for stainless steel, /B (clamping) for Ø700–2000 mm range
- Floating support rod set for extra stability on thin or lightly curved plate
- Battery power pack for sites without convenient mains access
- Custom torch fixtures and track lengths built to your workpiece

Why Fabricators Choose Little Gecko®

- Single-purpose engineering team — we build welding carriages and crawler welding robots, nothing else.
- Works with your existing power source, wire feeder and torch: no extra investment in welding equipment.
- Every machine test-welded before packing; ISO quality management system and registered trademark behind it.
- Full English documentation, installation video guidance and responsive pre-sales support.
- Customization built to your workpiece — track length, torch fixture, dual-torch setup, expanding-head size.

Request a quotation or a live demo

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