

ZG Series Straight-Track Welding Carriage

Straight Track Welding Carriage & Long Seam Welding Machine

Rigid rack-type linear track with magnetic bases for long straight seams on flat plate, box beams and panels. Precision linear rail, high repeatability.

Models Covered

ZG-III-Q1/Z-C (straight swing) · dual-track and suction versions available

Technical Specifications

Item	Specification
Carriage model	ZG-III-Q1/Z (straight swing)
Drive mode	Gear drive (main unit travel)
Welding speed	0–1100 mm/min (digital display)
Minimum suction thickness	3 mm (magnetically permeable material)
Carriage dimensions (L×W×H)	236 × 365 × 230 mm
Carriage weight	7.8 kg
Swing mode	Straight swing
Swing width	0–32 mm (digital, simulated value)
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°
Straight track (type C)	Precision linear rail SGR20, aluminium housing with 2 hardened bearing-steel shafts, 1960 × 60 × 20 mm, 9 kg per rail; 15 × 15 module-1.5 rack on the side
Magnetic block	V-type 12 T metal-handle magnetic base, 120 × 50 × 55 mm, 2 kg each, holding force 35 kg per block
Track assembly weight	15 kg; quick-connect joint plate, approx. 10 s to mount one rail
Standard configuration	Carriage ×1 · Straight-swing oscillator ×1 · Type-C straight tracks ×2 · Power unit ×1 · Power cable ×1 · Tool kit ×1 · Documents ×1 · Packaging ×1
Packing	Foam packing 2050 × 90 × 60 mm, 18 kg · Wooden case 510 × 410 × 420 mm, 26 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

- Suction-cup fixing for stainless and non-magnetic plate
- Extra rack track for longer seams or a spare set for continuous production
- Support rod set for thin plate or lightly curved workpieces
- Battery power pack and intermittent welding module

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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