

RGW06 Non-Motorized Linear Rails

- Screw driven linear rails in wide format
- Linear rails without screw in wide format

The non-motorized RGW Series features standard wear compensating, anti-backlash driven carriages to ensure repeatable and accurate positioning. All moving surfaces include Kerkite® engineered polymers running on Kerkote® TFE coating, providing a strong, stable platform for a variety of linear motion applications. Recommended for horizontal loads up to 35 lbs (156 N).



RGW06 Wide Series,
Non-Motorized
Screw Driven Linear Rail

Identifying the Non-Motorized RGW Part Numbers when Ordering

| RG | W | 06 | K | A | 0100 | XXX |
|---|--|---|---|---|--|---|
| Prefix RG = Rapid Guide Screw | Frame Style W = Wide Sensor Mount Capability | Frame Size Load 06 = 35 lbs (156 N) (Maximum static load) | Coating K = TFE Kerkote X = Special (example: Kerkote with grease) | Drive / Mounting A = None B = Inline Screw Motor Mount | Nominal Thread Lead Code 0000 = No Screw 0100 = .100-in (2.54) 0200 = .200-in (5.08) 0500 = .500-in (12.70) 1000 = 1.000-in (2.54) | Unique Identifier Suffix used to identify specific motors or a proprietary suffix assigned to a specific customer application. The identifier can apply to either a standard or custom part |

NOTE: Dashes must be included in Part Number (-) as shown above. For assistance call our Engineering Team at 603 213 6290.

Specifications

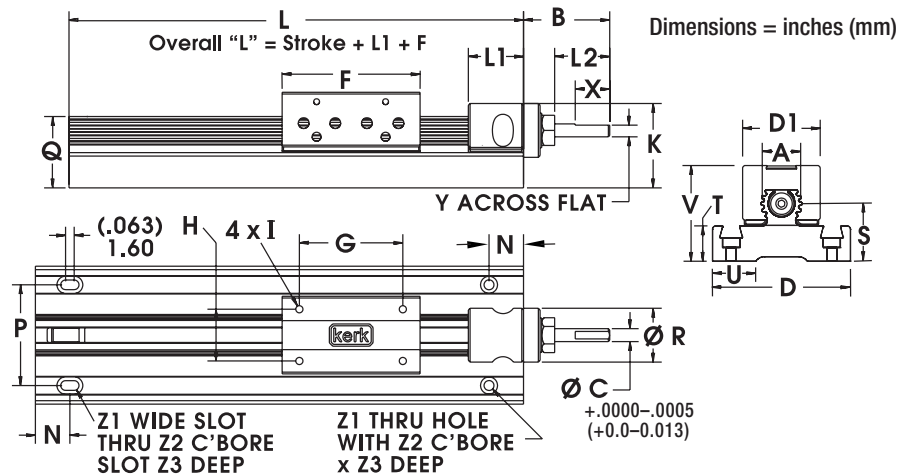
| | Inch Lead | Thread Lead Code | Nominal Rail Diam. | Nominal Screw Diam. | Typical Drag Torque | Life @ 1/4 Design Load* | Torque-to-Move Load | Design Load* | Screw Inertia |
|--------------------------------------|---------------|------------------|--------------------|---------------------|---------------------|---------------------------|---------------------|--------------|---|
| RGW06 Non-Motorized with Guide Screw | inch (mm) | | inch (mm) | inch (mm) | oz - in (N-m) | inch (cm) | oz-inc/lb (Nm/Kg) | lbs (N) | oz-in-sec ² /in (kg-m-sec ² /m) |
| | .100 (2.54) | 0100 | 0.6 (15.2) | 3/8 (9.5) | 4.0 (0.3) | 100,000,000 (254,000,000) | 1.0 (.016) | 35 (156) | 1.5 x 10 ⁻⁵ (4.2 x 10 ⁻⁶) |
| | .200 (5.08) | 0200 | | | 5.0 (.04) | | 1.5 (.023) | | |
| | .500 (12.70) | 0500 | | | 6.0 (.04) | | 2.5 (.039) | | |
| | 1.000 (25.40) | 1000 | | | 7.0 (.05) | | 4.5 (.070) | | |

NOTE: RGW assemblies with lengths over 36 inches (914.4 mm) and/or leads higher than .5 inch (12.7 mm) will likely have higher drag torque than listed values.

*Determined with load in a horizontal position.

Non-Motorized with Guide Screw Dimensional Drawings

- Screw Driven
- Wide Frame



RGW06 Wide Series, Non-Motorized, Screw Driven

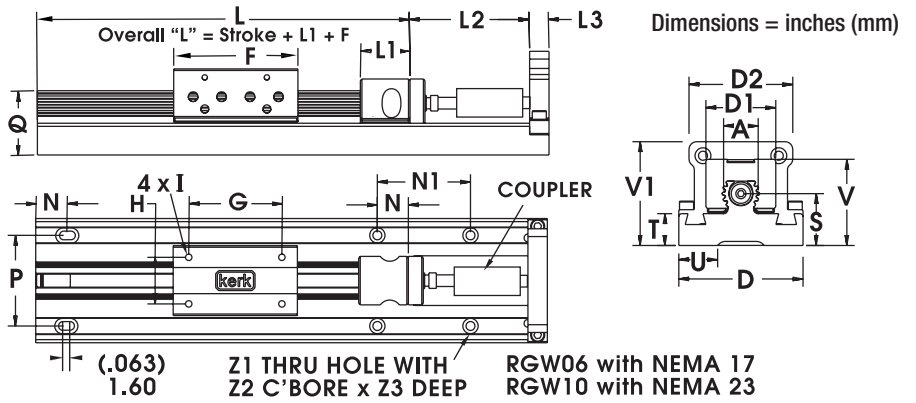
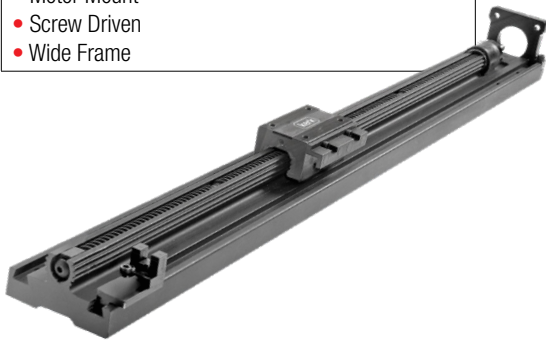
| | A | B | C | D | D1 | F | G | H | I* | K | L1 | L2 | N | P | Q | R | S1 | T | U | V | X | Y | Z1 | Z2 | Z3 |
|------|------|------|-------|------|------|------|------|-------|------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|-----|-----|-----|
| inch | 0.60 | 1.25 | .1875 | 2.0 | 1.13 | 2.0 | 1.50 | 0.750 | 6-32 | 1.2 | .80 | .80 | .50 | 1.46 | 1.04 | .80 | .83 | .51 | .63 | 1.4 | .50 | .170 | .14 | .25 | .14 |
| mm | 15.2 | 31.8 | 4.762 | 50.8 | 28.6 | 50.8 | 38.1 | 19.1 | UNC | 30 | 20.3 | 20.3 | 12.7 | 37.0 | 26.4 | 20.3 | 21.2 | 13.0 | 16.0 | 36 | 12.7 | 4.32 | 3.6 | 6.4 | 3.6 |

*Metric carriage hole sizes available M3, M4, M5, M6.

RGW 06 Non-Motorized Linear Rails

Motor Mount for Non-Motorized with Guide Screw Dimensional Drawings

- Motor Mount
- Screw Driven
- Wide Frame



NOTE: The coupling shown in the dimensional drawing is not included.

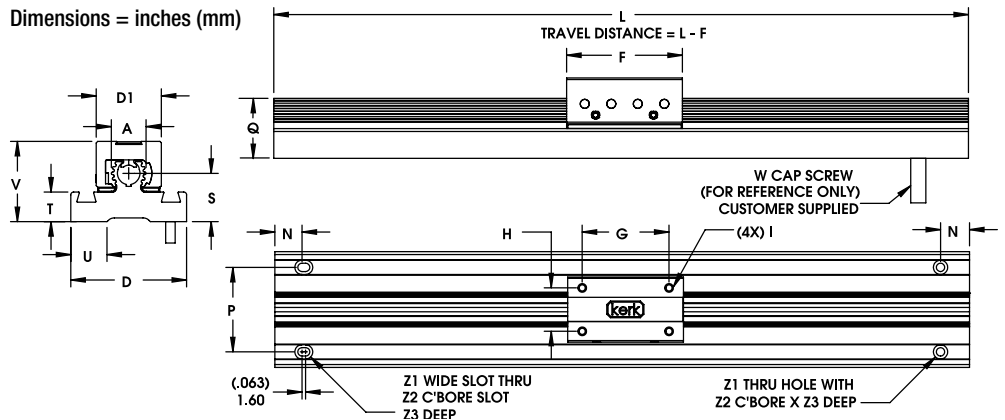
RGW06 Motor Mount, Wide Series, Non-Motorized, Screw Driven

| | A | B | C | D | D1 | F | G | H | I* | K | L1 | L2 | N | P | Q | R | S1 | T | U | V | X | Y | Z1 | Z2 | Z3 |
|------|------|------|-------|------|------|------|------|-------|------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|-----|-----|-----|
| inch | 0.60 | 1.25 | .1875 | 2.0 | 1.13 | 2.0 | 1.50 | 0.750 | 6-32 | 1.2 | .80 | .80 | .50 | 1.46 | 1.04 | .80 | .83 | .51 | .63 | 1.4 | .50 | .170 | .14 | .25 | .14 |
| mm | 15.2 | 31.8 | 4.762 | 50.8 | 28.6 | 50.8 | 38.1 | 19.1 | UNC | 30 | 20.3 | 20.3 | 12.7 | 37.0 | 26.4 | 20.3 | 21.2 | 13.0 | 16.0 | 36 | 12.7 | 4.32 | 3.6 | 6.4 | 3.6 |

*Metric carriage hole sizes available M3, M4, M5, M6.

Non-Motorized without Guide Screw Dimensional Drawings

- Without Guide Screw
- Wide Frame



RGW06 Wide Series, Non-Motorized, Without Screw Driven

| | A | D | D1 | F | G | H | I* | N | P | Q | S | T | U | V | Z1 | Z2 | Z3 |
|------|------|------|------|-----|------|-----|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| inch | 0.60 | 1.13 | 1.13 | 2.0 | 1.50 | .75 | 6-32 | .50 | 1.46 | 1.04 | .83 | .51 | .63 | 1.4 | .14 | .25 | .14 |
| mm | 15.2 | 28.6 | 28.6 | 51 | 38.1 | 19 | UNC | 12.7 | 37 | 26.4 | 21.2 | 13 | 16 | 36 | 3.6 | 6.4 | 3.6 |

*Metric carriage hole sizes available M3, M4, M5, M6.

Material Coatings

Kerkite® Polymers

Compounded with lubricants, reinforcements and thermoplastic polymers.

- Injection molded
- High performance
- Exceptional wear properties

Kerkote® TFE Coating

A dry lubricant, Kerkote will not become dry and paste-like, and does not attract dirt or debris.

- Reduces friction
- Cost effective
- Requires no additional external lubrication or maintenance

Accessory

RGW06 Sensor Mount Kits

Sensor mounting kits based on U-channel optical sensor. Each kit includes one flag, three sensor mounts and all mounting hardware. Sensors are not included in the kit and must be ordered separately from sensor manufacturer. Part # RGW06SK

Linear Rail Check List