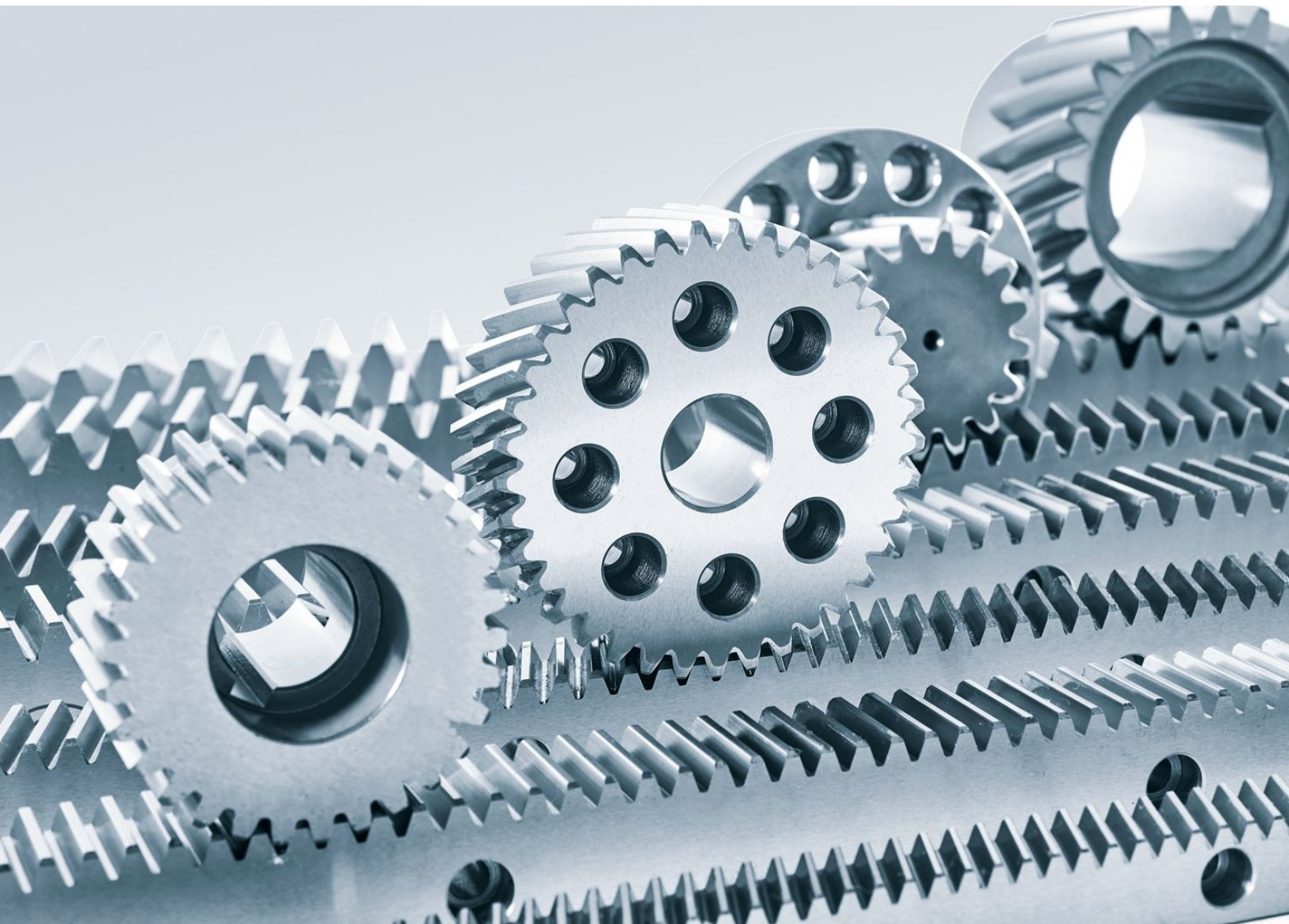


PRECISION LINEAR MOTION

Racks. Pinions. Complete systems.

Helical and straight racks, matching pinions and installation gauges.
Sized, crossed and supported by our engineers in Hudson, Ohio.



344

standard racks

143

pinions

Q5-Q10

DIN quality

M1.5-M10

modules

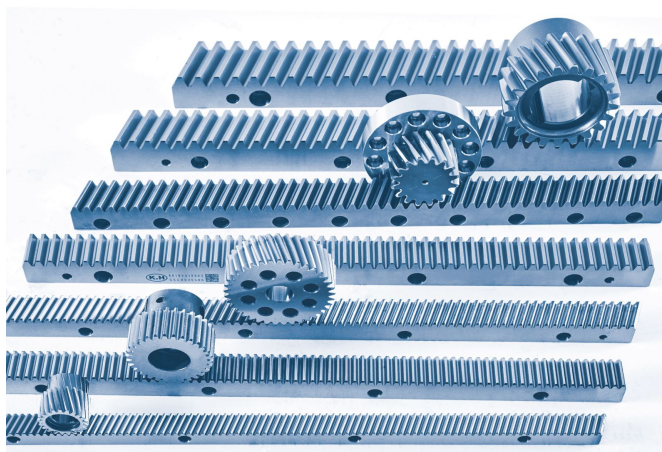
The right grade for every axis

Grade	Finish	Pitch error*	Typical applications
Q5	Ground, induction hardened	$\pm 25 \mu\text{m} / \text{m}$	High-precision machine tools, laser and CNC cutting
Q6	Ground, induction hardened	$\pm 35 \mu\text{m} / \text{m}$	Machine tools, waterjet and plasma, tube bending, robots
Q7	Ground, induction hardened	$\pm 45 \mu\text{m} / \text{m}$	Woodworking, cutting machines, gantries, robots
Q8	Milled, quenched & tempered	$\pm 60 \mu\text{m} / \text{m}$	Portal and handling axes, linear axes
Q9	Milled, soft	$\pm 90 \mu\text{m} / \text{m}$	Low feed forces and adjustment axes
Q10	Milled, hardened or soft	$\pm 200 \mu\text{m} / \text{m}$	Lifting, material handling, welding

*Total pitch error. Refer to the catalog for module- and length-specific values.

Common to every rack

- C45 carbon steel; 42CrMo4, stainless and aluminum on request
- 20° pressure angle; helical racks 19°31'42" right hand
- Ends cut to the tooth for continuous mounting
- Mounting holes and dowel positions per drawing
- Nominal lengths of about 500, 1000, 1500 and 2000 mm

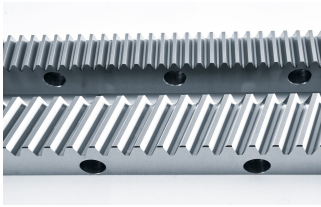


PART NUMBERS THAT READ LIKE A SPECIFICATION

RP-HR-G-M2-Q6-1000

Helical rack / ground / module 2 / DIN quality 6 / 1000 mm

Build the axis around RackPro



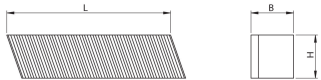
Gear racks

344 helical and straight racks. Module 1.5 to 10, DIN quality 5 to 10.



Pinions

Ground 16CrMo4 (Q5) and milled C45 (Q10). Keyed bores and flanged designs.



Installation gauges

Opposite-tooth gauges set pitch across rack joints. Helical and straight, module 2 to 6.

Already using another brand?

Cross Atlanta, Güdel, KHK, GAM and Wittenstein part numbers online. More than a thousand rack numbers mapped; every cross is confirmed by our engineers before we quote.

www.slewpro.com/crossovers/gear-racks

Typical applications

- Gantry robots and pick-and-place
- Machine tools and routers
- Storage, retrieval and handling
- Woodworking and stone machinery
- Laser, plasma and waterjet cutting
- Tube bending and forming
- Lifting axes and welding positioners
- Long-travel linear axes

From selection to production

Application engineering

Selection, sizing, life and load calculations, and help crossing the part you use today.

3D models and drawings

STEP models and 2D drawings on request for catalog parts.

Quotes in 1-2 business days

Send a part number, a competitor part or your application details.

Programs for OEMs

Blanket orders, scheduled releases and stocking plans that keep your line running.

Start with a part number or your axis data

Browse racks, pinions and gauges at www.slewpro.com/products/gear-racks, or use the full catalog for dimensions. Send moved mass, speed, acceleration and duty so we can size the rack, pinion and gearbox. Ask for STEP models and drawings with your quote.

Talk to our engineering team

330-633-7735 / info@slewpro.com

www.slewpro.com/request-a-quote

1239 Hudson Gate Drive, Hudson, Ohio 44236



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