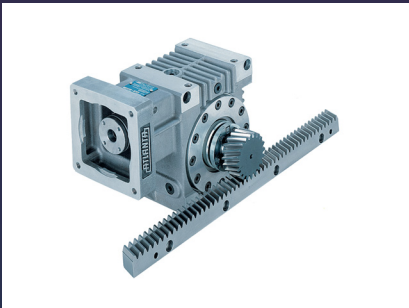




Rack & Pinion Systems



Rack & pinion systems are a great solution for high speed precise positioning of heavy loads. Tek-Matic offers the widest range of standard rack and pinion systems in the world. Our systems (both helical & spur tooth versions), are available in an assortment of sizes, materials and quality levels, to meet almost any axis drive requirement. Rack & pinion systems are less expensive, are nearly as fast, and have better force capabilities than linear motors. They also have longer travel than ballscrews, and can handle heavier loads than belt drive systems.

Advantages

- Heavy load capacity
- High linear force capabilities up to 92,000 lbs
- Precision pitch accuracies < 0.012 mm
- Modular and scalable solution (simply add more rack)
- High speed capabilities (up to 6 m/s)

Options

- Zero backlash
- Hollow shaft servo worm boxes designed to work with pinion shafts
- Motor, drive and gearbox options
- Custom designs and hole patterns
- Turn-key linear systems
- Automatic lubrication systems
- Integrated racks mount to standard rail

Products

- Spur and helical tooth
- Material options: hardened & ground, quenched & tempered, induction hardened, and soft
- Shaft & flange mountable pinions as well as pinion shaft versions
- Din 10 to Din 4 rack qualities

Since 1983:

- Premier Partnering
- Multiple Solution Options
- Sizing Selection Calculations
- Unparalleled Support



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