

















LINEAR MOTION PRODUCT GUIDE



Screw Product Line

ACME Screws



- Manufactured by thread rolling, milling, or grinding
- Centralizing thread forms for long lasting smooth, no-wedging performance



- Linear lead accuracy classes of T10, T7, T5, and T3
- · Comply with ISO 3408 ball screw standard
- Precision ground preloaded and non-preloaded ball nuts
- Flanged, V-Threaded, and Cylindrical Keyed mounting options



Roller Screws

- Used in the most demanding and precise linear motion applications
- Greater number of contact points a roller screw provides stiffness and higher load ratings compared to a ball screw





- Standard rolled, precision rolled, and ground screw accuracies
- Efficiently converts rotary motion to linear motion while maintaining high accuracy and repeatability



Miniature Metric Ball Screws

 Designed for light load applications that deliver fast speed and close tolerance positioning



Bearing Supports

 Precision supports can be assembled to precision machined screws to provide a complete solution for any linear motion application



Ball Splines

- Efficient, frictionless linear motion while transmitting torque
- Replace conventional splines due to reliability and high efficiency
- Recirculating bearing balls carry load between rotating (inner race) and rotating/sliding (outer race)



Worm Gear Screw Jacks



- Complete line of standard and custom ball and acme screw iacks from 1/4 to 100 tons
- Use individually or in multiple arrangements for a larger mechanical system



Modular Actuators

- Flexible positioning systems made of self-supporting and wear resistant aluminum profiles
- · Used as single axis solution or assembled for a multitude of gantry XY and XYZ duties including inspection, pick-and-place, assembly or dispensing



NIA5 & ND8 **DC** Actuators

- Economical, general purpose DC actuators for light loads (Ball or Acme Screw) with intermittent duty and max. 7,000N load
- Ball screw version has ant-backlash brake, options include potentiometer and adjustable limit switches



CCTM **Actuators**

• High performance Ball or Acme screw linear actuators

Linear Actuator Product Line



Electric Cylinders

- · Ruggedly designed in standard models with thrust capacities from 500 lbs. to 40,000 lbs.
- Single Reduction, Double Reduction, or In-Line Configurations
- Acme or ball screw drive (Available for outdoor applications)



- · Expanded range of performance, higher loads, longer life, increased duty cycles, higher speed and programmability
- Parallel and In-Line versions



VDM3TM **Actuators**

• Light duty 12/24V DC electric actuators for a wide variety of applications. 200N to 1,000N load capacity



Food Grade Actuators

- IP69K rated for hygienic washdown
- Smooth, stainless steel exterior
- Contamination resistant



Linear Actuator Product Line



Linear Motors

- NEMA 17 & 23 options
- Base and captive (enclosed) models
- Multiple sizes available



Drives & Controls

 Automation Technology and Controls (ATC) featuring integrated stepper motors, drives, controls, and power supplies. ATC also features servo motors.



Profile Rails & Guides

- Stable and efficient linear guidance under variable speeds and high load conditions
- Offered in many sizes as well as Caged Ball Technology



Linear Slides

- Matched components result in better system performance
- When used as sub-assemblies, set-up and alignment is reduced



Linear Shafting, Bearings, & Pillow Blocks

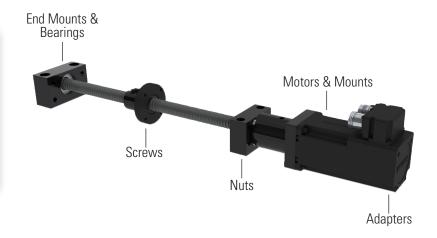
- Hardened and ground shafting used for accurate, round hardened shaft and guide rod (Nook can machine shafting
- Full line of systems and components including solid shell LBB and selfaligning linear bearings, Pillow Blocks

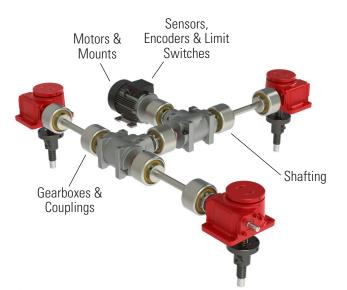


NOOK. Configurable Assemblies & Systems

Configurable Screw Assemblies

- Turn key solutions requiring only a power source (hand operation or motor).
- CAD drawings an easily be configured online.



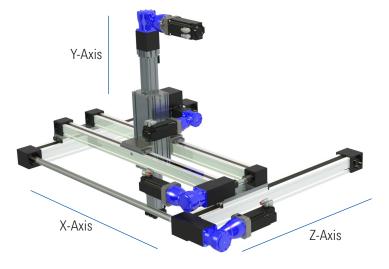


Configurable Actuator System

Nook high-quality, high-performance actuator products can easily be configured into a multitude of different system arrangements.

Modular Linear Actuator Gantry Systems

- Fit. Can be manufactured in virtually any length.
- **Simplicity.** Pre-engineered to provide bidirectional movement across two or more planes.



www.nookind.com

Design Support

Nook provides outstanding technical support with dedicated subject matter experts and a variety of online tools to lower your development costs by simplifying the design process. We collaborate with customers to put your unique designs into motion by providing engineering expertise and state-of-the-art technology.



Applications Support

Collaborate with one of our technical experts on the specifics of your application for the ideal product fit that best meets your performance requirements and budget.

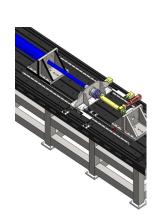


Design Support

Our team of proven, highly experienced design and application engineers can tailor a perfect solution to best fit your specifications, budget, and schedule.



We can help you design better products by simulating many real world scenarios to speed design, improve reliability, determine life cycle, and predict performance.



Industry Solutions

- Medical & Diagnostics
- Military & Defense
- Manufacturing
- Agriculture

- Food & Beverage
- Factory Automation
- Entertainment
- Machine Tool
- Aerospace
- Packaging
- Communications
- Transportation

And Many More...

www.nookind.com

Phone: (216) 271-7900 Toll-free: (800) 321-7800 Also find us at:









