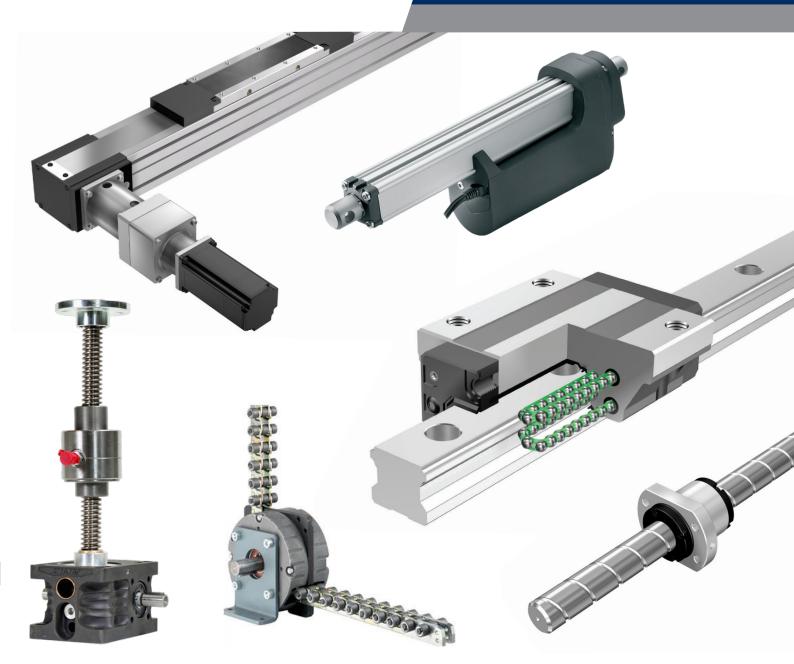


Bearings | Power Transmission | Engineering Supplies

NEW ZEALAND'S LEADING INDUSTRIAL SOLUTIONS PROVIDER



LINEAR MOTION **Product Guide**

Linear Guide Systems | Ball Screws | Actuators | Screw Jacks LinearChain | Spline & Screw Shafts | Gears + Rack & Pinions











THK are the world's largest and foremost manufacturer of linear guide systems, ballscrews and associated products. SAECOWilson are THK's exclusive New Zealand distributor having over 35 years experience with design and application assistance.

LM GUIDE WITH CAGED BALL TECHNOLOGY **CONVENTIONAL TYPE CAGED BALL TYPE** (FULL BALL TYPE) Oil-film contact Ball Extremely low bearing stress High bearing stress due to achieved with ball-to-cage contact ball-to-ball contact <u>)()()()()()()()()()</u> **Caged Ball structure Conventional structure** THK'S patented cage ball technology has taken LM guides to new levels of performance and reliability. Dynamic capacity increased by 30% I ow noise • Extend life by 2.2 times Reduced friction Smoother running Superior lubrication Excellent high speed performance Reduced maintenance FOUR WAY EQUAL LOAD TYPE LM GUIDE WITH CAGED BALL TECHNOLOGY SHS SSR EQUAL LOAD TYPE LM RADIAL LOAD TYPE LM

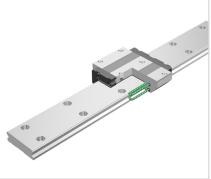
Global dimension standard. Suitable for loads in all orientations.

GUIDE SHS

Connection of the second secon

SHW WIDE, LOW GRAVITY CENTRE TYPE WIDE LM GUIDE SHW

Four way equal load type. Wide, low gravity centre suitable for moment loads and single rail configurations.



SRS MINIATURE LM GUIDES MINIATURE LM GUIDE SRS

Ultra compact miniature guide suitable for loads in all directions available in standard or wide type.



SKR LM GUIDE ACTUATOR

ACTUATOR The linear motion guide and the driving ballscrew are integrated so that space-saving, high rigidity and high accuracy are possible.

GUIDE SSR

Most economical type

Low mounting height

Compact design
More forgiving of mounting error



HCR CIRCULAR MOTION TYPE TYPE HCR GUIDES IN CIRCULAR MOTION

HCR is based on the service-proven LM Guide type HSR that is capable of supporting loads in all orientations.

Segments and full circles



ROLLED BALL SCREWS

- Standard lead, flange mount nut, available in both right and left hand configuration
- Improved recirculation tube design maximises allowable speed

BNT

BLK, WTF

BTK-V

As mounting holes are machined on the square pad of the nut, compact mounting on the machine is possible.

Large lead rolled ball screws for high-speed feed. Designed to meet the needs of high speed

automated machinery.



LMF

LINEAR BALL BUSHINGS LMK



LM, LME, LMB

Complete range including standard, open and self aligning types, also available in stainless steel.

SC

SK

Square Flange type. In comparison to the round flange type, the flange figure is smaller, so that more compact design is possible.

Round flange type. simple.

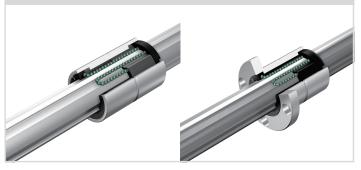
LMB - Imperial Standard Ball Bush



• Precision ground ball screws for high accuracy and repeatability Preloaded for zero backlash • Preloaded • Full complement ball and caged ball types available Finish machined assemblies ready to mount to standard support units **BALL SPLINES** SLS/SLF Caged ball design

PRECISION BALL SCREWS

- Large torque load can be transmitted via the six ball rows
- · Zero angular backlash with a single spline nut



BALL SCREW SUPPORT UNITS BK/BF

FK/FF



TRAPEZOIDAL SCREW SHAFT AND NUTS **SPLINE SHAFTS AND NUTS**

DC/DCM

EK/E

- Trapezoidal 30 degrees precision rolled lead screw • Special die cast
- high performance alloy nuts

DP/DPM

- Plain splines
- Minimum backlash
- High torque ratings



- Stainless steel



As this type can be bolted directly to the housing, mounting is

LM - Asian Ball Bush • LME - European Standard Ball Bush

MOTION & CONTROL^M

NSK, one of the world's largest manufacturers of linear motion and bearing technologies is represented exclusively in New Zealand for their range of precision machine components including linear guides, ball screws, monocarriers and associated components.



- Supplies lubricant oil for long periods of time
- Service life: in excess of 100,000 hours

BALL SCREWS AND MONOCARRIERS

Exceptional production and quality control techniques have enabled NSK to become the largest global manufacturer of ball screws in the world.

BALL SCREWS

- Rolled and ground screws
- Standard and compact sizes
- Tough steel for high load applications
- High performance coatings for special environments
- Ball screw support bearings
- Ball screw support units

MONOCARRIERS

- All-in-one structure (ball screw, linear guide and base integrated) Ball type
- Roller type Toughcarrier for high loads and moment loads



Portion containing high proportion of lubricating o Portion containing high proportion of polyolefin

ROLLON[®]

ROLLON of Italy has developed many unique linear motion products designed to solve many of the problems encountered in machine design and mechanical fields.

TELESCOPIC LINE

LINEAR LINE

COMPACT RAIL

- Self-aligning cold drawn induction hardened and ground raceways
- High speed low noise

CURVILINE

- Track roller guide for non-linear movements
- Constant or variable radii

X-RAIL

- Simple and economical • Zinc plated and stainless steel
- for ultimate corrosion resistance Optional hardened with
- **ROLLON NOX Treatment**

SPEEDY RAIL

• Self-supporting linear rail in extruded aluminium with steel rollers coated in plastic







Europe's #1 manufacturer of screw jacks and mechanical jacking systems.

SCREW JACK BUILDING BLOCK SYSTEM

- Pioneering product design
- Most extensive modular system in the industry
- Standard anti-corrosion protection
- Online system configurator
- Massive time saving in design
- Heavy load actuation
- Accurate and controllable
- · Can replace hydraulics





Satellite roller screw technology. **Planetary roller screws for extremely** high loads, duty, speed and precision.



- 20mm 1200mm stroke
- Sophisticated feedback options
- Integrated controller (IC)
- MODBUS, CANBUS
- Low maintenance
- · IECEx options for explosive atmospheres



Heavy duty screw jacks for industrial Duff-Norton' applications made in the USA.



LINAK J WE IMPROVE YOUR LIFE

LINAK Techline rugged industrial actuators made in Denmark.

ELECTRIC ACTUATORS

- 20kg 1500kg capacity



LINEARCHAIN

- LinearChain can push and pull • Ideal where the available space is insufficient for a solution with
- "normal" linear drives • The chain can be wound up and stored
- Ideal for long strokes
- Suitable for high and low temperatures
- Up to 3500kg force per chain • Multiple units can be
- synchronised for very heavy loads



LINEAR ACTUATOR MINI

- · Compact design integrated in one housing
- Full stainless steel body

- IP65 ingress protection
- ATEX 95 explosion proof option
- Optional mechanical override protection
- Five sizes with lifting forces up 2650kg
- Stroke speed up to 136mm/sec
- Stroke length up to 500mm

KHK offers an extensive range of premium quality stock gears made in Japan.



- Spur gears
- Worm gears
- Bevel gears
- Rack and pinion
- Miter gears
- Internal gears
- Gearboxes







An in-house cutting facility offers a fast, reliable and high guality finish to customers specifications. A full machining service is also available for machine to standard or customers specifications.

SAECOWILSON MARKET LEADER IN LINEAR MOTION

LEADING BRANDS • LARGEST STOCK • COMPREHENSIVE RANGE

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