

**Rolling and Ball bearings**

The performance of lubricant in the bearing industry is an important issue. The key is to prevent or minimize friction and wear long and well. FEREX offers an extensive collection of storage oils and greases which provide a sufficient lubrication film over a range of operating temperatures, speeds and loads and resists oxidation thermal decomposition and evaporation.

Slide screw and ball screw

Many facts have to be taken into consideration in the design or a linear positioning of the component. Operating load, speed, accuracy, environmental and power requirements requirements all play important roles in the design decisions. Whether the engineer chooses a rolled ball screw, precision ground ball screw or acme lead screw also the lubricant should be chosen carefully. A well chosen lubricant minimizes friction, reduces torque, increases the efficiency of the screw and extends her life.

Rails

Siliding elements provide a unique challenge for lubricants. In contrast to ball or roller bearings that rotate sufficiently high speeds to produce a lubricating film that separates physically the ball out of the barrel, the speeds and loads from cams, latches and gears takes and does not allow him to reach a point at which one such film is produced. Thus it is to get a far greater potential for matching parts in physical contact and generate friction and hold it. Synthetic lubricants can meet these challenges. By selecting the appropriate oils, gelling agents and additives they can not only minimize friction but also prevent wear or corrosion.

Product	Base Oil	Thickener / Additives	Temperature Range	Application
Ferex M Litek 720/	Mineral	Lithium complex / PTFE	-25 + 140°C	Multiple application for bearings
Ferex M 607 MS	Silicone	PTFE + MoS2	-40 + 200°C	Ball-bearings in contact with H2O
Ferex M Litek 720/T	Mineral	Lithium complex / PTFE	-25 + 140°C	Lubricants for multiple functional applications
Ferex M 346 B	Semi-synthetic	Metallic soap	--	Lubricants with corrosion inhibitor
Ferex M 607	Silicone	PTFE	-40 + 200°C	For valves in low temperature range
Ferex M 506M	PFPE	PTFE	-80 + 230°C	Synthetic PFPE for aggressive environments
Ferex M 901	PFPE	PTFE	-20 + 280°C	Gear Motors in aggressive environments
Ferex M 77 MS	Semi-synthetic	Metallic soap / solid lubricants	-30 + 130°C	for actuators and gears
Ferex M RETRAC 40	PAG	Lithium / EP	-35 + 150°C	Synthetic grease with NLGI 00 for long life in gears