Selection Flowchart

1. Determining the operating conditions Dimensions of machines and systems Speed Space in the guide section Operating frequency (duty cycle) Mounting orientation Required service life (horizontal, vertical, slant mount, wall mount, suspended) Kinetic frequency Magnitude and direction of the working load Environment Stroke length Selecting a drive method 2. Selecting a type (ball screw, trapezoidal threads) Select a type that suits the operating conditions Cylinder ●Belt ●Wire ●Chain LM Guide LM stroke ●Rack and pinion ●Linear motor Miniature guide Cross-roller guide Slide pack Linear stage Ball spline Roller type Linear bushing 3. Predicting 4. Rigidity 5. Accuracy the service life Select an accuracy Select size Select clearance Select the number of blocks/nuts Select preload grade Determine the number of rails/shafts Determine the securing method (feeding accuracy, Determine the rigidity of the runout accuracy) mounting section ● Determine the accuracy of the mounting surface 6. Lubricating and protecting an LM System Determine lubricant (grease, oil, special lubricant) Determine lubrication method (periodic lubrication, forced lubrication) Determine material (standard material, stainless steel, high-temperature material) Determine surface treatment (anti-rust, appearance) Design contamination protection (bellows, telescopic cover, etc.) 7. Calculating the thrust force

Selection completed

Obtain the thrust force required for linear motion