

6. Types of Ball Screws

Classification of Ball Screws

For THK Ball Screws, a broad array of types are offered as standard so that the optimal product can be selected to meet diversified applications. By ball circulation method, the Ball Screws are divided into return-pipe type, deflector type and end-cap type. And by preloading method, fixed-point preloading (double-nut method, offset preloading) and constant-pressure preloading are selectable.

By screw shaft, they are divided into precision Ball Screws, which are ground with precision (six accuracy grades from C7 to C0), and rolled Ball Screws, which are formed through rolling with high accuracy (three accuracy grades from C10 to C7).

Also, a series of nut-rotating Ball Screws, which are optimal for usage based on nut rotation, are also offered in addition to those types designed for conventional use based on axial rotation. In addition, THK also offers support units, which are incorporated with nut bracket, rock nut and support bearing, as peripherals for Ball Screws as standard.

