

1.1. Structure and Features of the Precision Linear Pack

Precision Linear Pack model ER is a slide unit using a stainless steel plate that is precision formed, heat-treated and then ground. It has a structure where balls roll between the V-shaped grooves machined on the outer rail and the inner block to allow the system to slide. It is an ultra-thin, lightweight unit in which the balls circulate in a ball case incorporated in the inner block to perform infinite linear motion.

This model is used in extensive applications such as magnetic disc device, electronic equipment, semiconductor manufacturing machine, medical equipment, measuring equipment, plotting machine and photocopier.

●Reduced design and assembly costs

It provides a highly accurate linear guide system with lower design cost and fewer man-hours than the conventional miniature ball bearings used in precision machines and other equipment.

●Maintains long-term stability

It is a ball-circulating type slide unit with an extremely small friction coefficient. This slide unit maintains stable performance over a long period of time.

●Light weight, compact design and high-speed response

The outer rail and the inner block are composed of very thin stainless steel plates. Since the linear pack is light, it has a small inertial moment and demonstrates superbly high-speed response.