

## F0 guide

### Raw material and processing technology of guide rail body and circular guide rail

The main body of each type of guide rail adopts 6065 aluminum alloy as the production raw material and is formed by 10,000tons of aluminum profile extruder. The accuracy of the body conforms to the national ultra-high precision standard of aluminum alloy profile.

Use CNC processing equipment parts and the molded body mounting hole to ensure the accuracy of the finished rail.

The round shaft adopts chrome-plated bearing steel round guide rails produced in Taiwan. The processing technology is to quench and temper the bearing steel round guide rails through high frequency heat treatment, and the body hardness reaches Rockwell hardness  $62 \pm 2^\circ$ . After grinding, the outer diameter tolerance is  $-6 \sim -17 \mu\text{m}$ , the surface is chrome-plated to prevent rust and increase wear resistance.

### Assembly and positioning process of guide rail body and circular guide rail

1. Interference fit and fixation: Put the round shaft into the prefabricated round shaft column holes on the two sides of the guide rail body, place the steel sleeve into the fixing hole in the middle of the guide rail body, and the two round shafts and the middle steel sleeve are inside the body. An interference fit is generated in the space, so that the circular guide rail is fixed on both sides of the guide rail.

The positioning technology is applied to the outer clamp double-axis linear guide products ( type LGD12B )

2. Locating pin fixing: CNC machining the positioning pin holes on the two sides of the guide body, placing the round shaft into the prefabricated round shaft column holes on the two sides of the guide body, placing the  $\Phi 4$  positioning pins into the positioning pin holes to position the round shaft And fixed.

The positioning technology is applied to double-axis guide rails, structured guide rails, timing belt guide rails, modular guide rails, and linear slide products.

### Raw material and production process of slider

The body of each type of sliders uses 6065 aluminum alloy as the raw material and is produced by 10,000 tons of aluminum profile extruder. The accuracy of the body conforms to the national ultra-high precision standard of aluminum alloy profile.

Use CNC each mounting hole molding processing equipment and parts of the body to ensure the accuracy of the finished integrated slider.

The steel wheels and special fixing screws for assembling the sliders are produced by grinding-grade technology. Angular contact bearings are mounted inside the steel wheel.

### XF Modular Linear Guide

Our company's modular guide rail products are designed by combining our company's standard guide rails with the driving tool's tooling. This product is processed and produced using CNC equipment to ensure the accuracy of each part of the product. After the guide rails are purchased, customers only need to connect the drive components The rail tooling is ready for use.

### 泷福 Straight slide

Xifu linear slide table is based on our company's various modular linear guides, and is equipped with drive components such as ball screws or timing belts, as well as front and rear tooling assemblies. The linear slide table is connected to the motor and can be used.

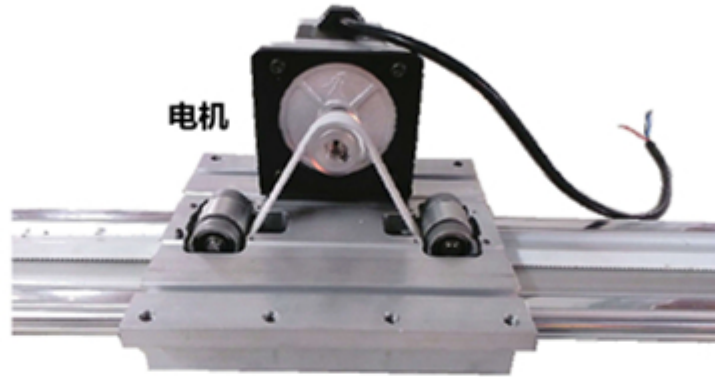
Various slide tables can be combined and assembled to form single-axis, dual-axis, three-axis and multi-axis automatic processing systems.

Main application industries : 1. Robots , manipulators , reclaiming and feeding systems. 2. Packaging equipment. 3. Machine tool equipment. 4. Wood processing machinery. 5. Assembly equipment. 6. Detect scanning equipment. 7. Medical equipment. 8.Printing equipment . 9 textile equipment.

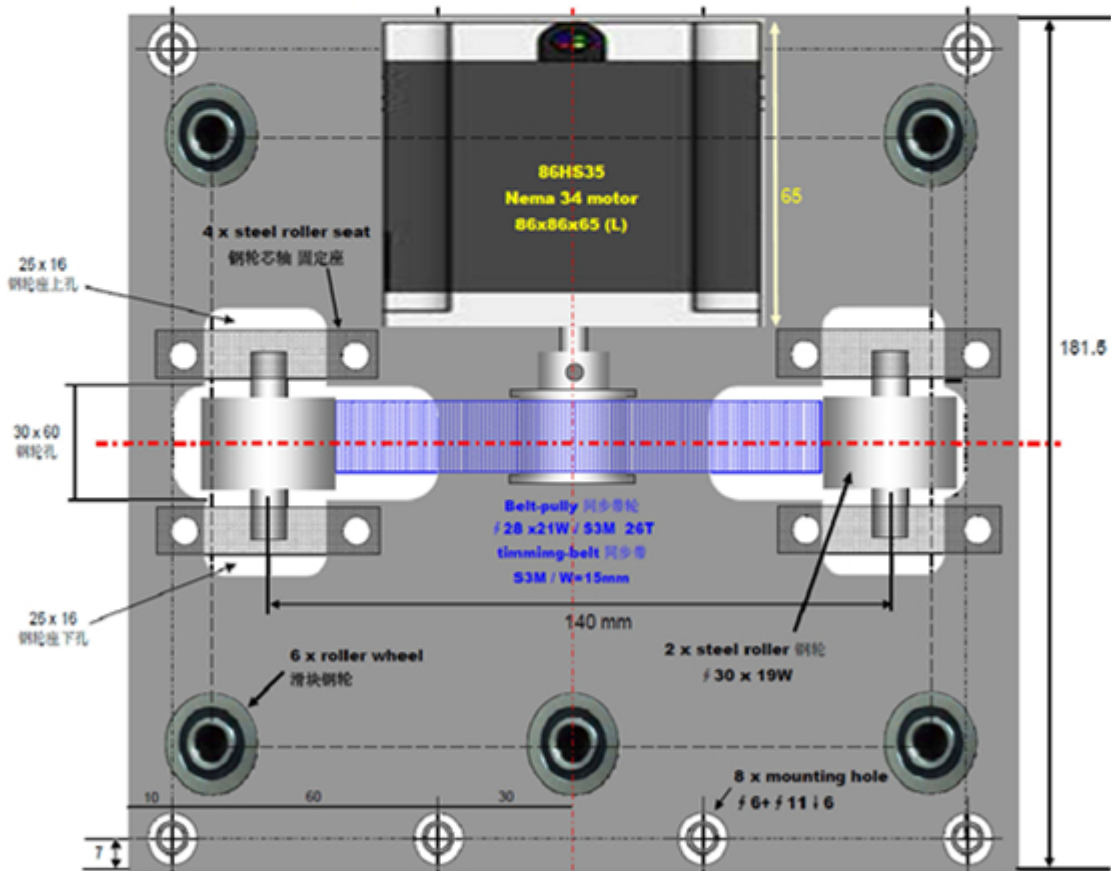
Belt-drive Type



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Website: WWW.LF-TW.COM  
E-mail: TWLFZT@163.COM



TEL: +86 411 8431 9129  
FAX: +86 411 8431 9029