

1.1. Structure and Features of the Cross Roller Table

The Cross Roller Table is a compact, highly rigid finite linear guide unit that has the Cross Roller Guide(s) between the precision-machined table and base.

There are two types of the Cross Roller Table: model VRU, and a miniature type model VRT. The Cross Roller Table is used in extensive applications such as OA equipment and peripherals, measuring instruments and printed board drilling machine.

● Easy Installation

Since the Cross Roller Guide(s) is installed between the precision-machined table and base, a highly accurate linear guide mechanism is achieved simply by mounting the product with bolts.

● Large Permissible Load

Since rollers with large rated loads are installed in short pitches, the cross roller guide is capable of bearing a heavy load, achieving a highly rigid linear guide mechanism and gaining a long service life.

● Diversified Usage

Since the rollers are orthogonally arranged one after another, the guide system is capable of evenly receiving loads in all directions applied on the table (Fig. 2).

● High Corrosion Resistance

The base and the table of models VRT-M and VRT-AM use stainless steel. Their rails, rollers, roller cages and screws are also made of stainless steel. As a result, these guide systems have significantly high corrosion resistance.

The base and the table of model VRU-M are made of aluminum.

