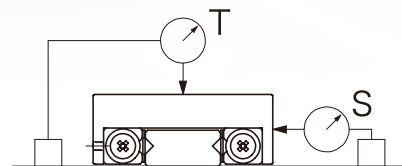


SLIDE WAY

ACCURACY

For NYT(S)/NYT(S)-D type SLIDE TABLE, the motion accuracy is measured by placing indicators at the center of the top and side surface of the table. It is expressed in terms of the indicator deviation when the table is moved the full stroke without any load.



RATED LIFE

The life of the SLIDE TABLE is calculated using the following equations.

Rated Life

$$L = \left(\frac{f_r \cdot C}{f_w \cdot P} \right)^{10/3} \cdot 50$$

L: rated life (km) f_r : temperature coefficient f_w : applied load coefficient
C: basic dynamic load rating (N) P: applied load (N)
* Please refer to page Eng-5 of NB general catalog for the coefficients.

Life Time

$$L_h = \frac{L \cdot 10^3}{2 \cdot \ell \cdot n \cdot 60}$$

L_h : life time (hr) ℓ : stroke length (m)
 n : number of cycles per minute (cpm)

LOAD RATING

The load rating of the SLIDE TABLE differs depending on the direction of the load.

Change of Load Rating Corresponding to Load Direction

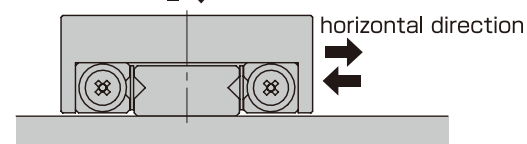
basic dynamic load rating	normal vertical direction	$1.0 \times C$
	horizontal direction	$0.85 \times C$
	reverse vertical direction	$0.7 \times C$
basic static load rating	normal vertical direction	$1.0 \times C_0$
	horizontal direction	$0.85 \times C_0$
	reverse vertical direction	$0.7 \times C_0$

* There may be a difference depending on the size.
Please contact NB for details.

* In calculation of load ratings, consideration has been given to the holes for STUDROLLERS in the raceway surface.

Direction of Load

reverse vertical direction \updownarrow normal vertical direction



USE AND HANDLING PRECAUTIONS

Careful Handling

Dropping the SLIDE TABLE causes the rolling elements to make dents in the raceway surface. This will prevent smooth motion and affect accuracy. Please be sure to handle with care.

Dust prevention

Dust and foreign particles affect the accuracy and lifetime of the SLIDE TABLE. Please protect the table with a cover.

Lubrication

The SLIDE TABLE is prelubricated with lithium soap based grease prior to shipment for immediate use. Please make sure to relubricate with a similar type of grease periodically.

Adjustment/Installation Screw

The SLIDE TABLE is adjusted to achieve optimum accuracy and preload. Please do not adjust the adjustment screws or rail installation screws.



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NB

SLIDE WAY

NYT/NYTS type
NYT-D/NYTS-D type

HIGH-RIGIDITY COMPACT TYPE SLIDE TABLE With STUDROLLER System



[ADVANTAGES] STUDROLLER SYSTEM (Rivet Roller Structure)

Anti cage-creeping system allows usage in all orientations and positions.
Well responsive to high acceleration/deceleration.

HIGH RIGIDITY·HIGH LOAD RATING

Roller-contact area is larger by 30 to 58% compared to conventional type's. Making the roller-pitch smaller in the cage, the load ratings are 1.2 to 2.5 times higher compared to the SYT equivalent size.

HIGH ACCURACY

High degree of running parallelism because of the low elastic-deformation roller and precisely ground raceway rails.

COMPACT DESIGN

Smaller by almost 50% in height and 25 to 30% in width compared to the NVT type.

ANTI-CORROSION

The NYTS type utilizes martensite stainless steel for corrosion resistance.

Compact Slide Way Table "NYT type" is added to NB Slide Way Series. Incorporating the "STUDROLLER System" in the conventional SYT type, the load ratings are increased by 1.2 to 2.5 times because of the increased roller-raceway contact length and number of rollers compared to the conventional type.

Keeping the dimensional equivalence with SYT type, the "NYT type" is best suited to the vertical application in which non-recirculating linear bearings expose weakness, i.e. cage-slippage

The "NYT type" is also applicable to electronic parts assembling machines for high speed cyclic motion with high acceleration/deceleration.

Taking advantage of low frictional resistance and high accuracy running parallelism, NB Slide Way Series is highly practical and problem-solving equipment in the mechanics and electronics fields.



NEW

