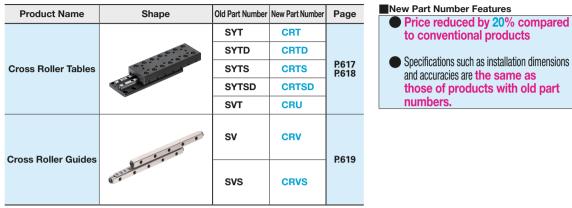
About Part Numbers

Part numbers of MISUMI Cross Roller Tables and Cross Roller Guides have been changed since the 2010 catalog. See the information below.



Structure

Structure and Features

Features

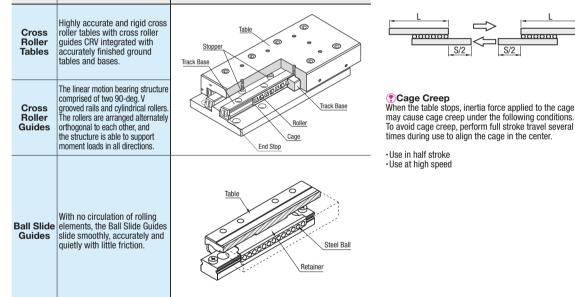
Product Name

Stroke

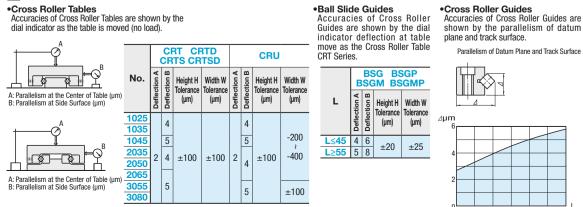
The travel will be symmetrically 1/2 of the total stoke.

S/2

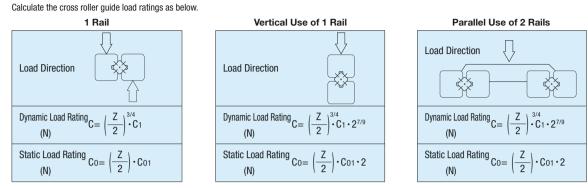
400



Precision



Load Rating



C1: Basic Dynamic Load Rating per Roller (N) C01: Basic Static Load Rating per Roller (N) Z: Number of Rolling Elements

Rated Life

Calculate the rated life of cross roller guide with the following formula.



fr: Temperature Factors (See Fig. 2) C: Dynamic Load Rating (N) L : Operating Life (km) fw: Load Factors (See Table-4) P: Applied Load (N)

Life Hours

Lh=	L·10 ³	
	2• £ s•n1•60	
h: Life Hours (hr)		L : Operating Life (km)
es: Stroke Length (m)		n1: Reciprocating Cycles per Minute (cpm)

Load Factor (fw)

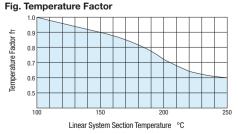
To calculate load applied to the Cross Roller Tables, other than object weight, it requires inertia force attributed to motion velocity or moment loads. Further, it is necessary to accurately determine the temporal change of each. It, however, is difficult to attain accurate calculations due to potential vibration and impacts caused during reciprocating motion, other than repeated start-stop motions. Therefore, Load Factor Table helps simplify operating life calculations.

Load Factor Table

Condition of Use	fw		
No shocks/vibrations, low speed: 15m/min. or less	1.0~1.5		
No significant shocks/vibrations, medium speed: 60m/ min. or less	1.5~2.0		
With shocks/vibrations, high speed: 60m/min. or more	2.0~3.5		

• Temperature Factor (fT)

If the Cross Roller Table temperature exceeds 100°C, the Cross Roller Table and shaft hardness decreases, resulting in less allowable load and shorter life than used at a room temperature. Please correct the rated life according to the temperature factors. Please use Cross Boller Guides under the allowable temperature shown on each product page



Cross Roller Guides Mounting Procedures

(1) Secure rails A, B and C on the table and base with screws and temporarily tighten screws on rail D. (Fig. 1)

Remove end stops and insert the cage from the end. (Fig. 2)

Adjust the table position to place the cage in the center of the rail. Mount the dial indicator to the predetermined position. (Fig. 3)

5) Stroke the table and tighten the adjustment screws within the cage ($a \sim e$) with a torque wrench (Fig $4 \sim 6$)

Repeat (5) until the dial indicator value becomes and remains minimum.

) Fully tighten the adjustment screws while the dial indicator value remains minimum 8) Fully tighten the screws on rail D.

