Linear Rail System

SBI High-load Linear Rail System

Accuracy

(Unit: μm)   N(Normal)   H(High)   P(Precision)
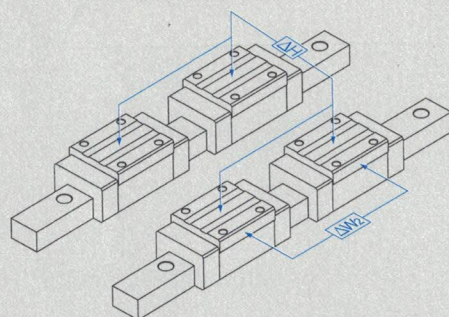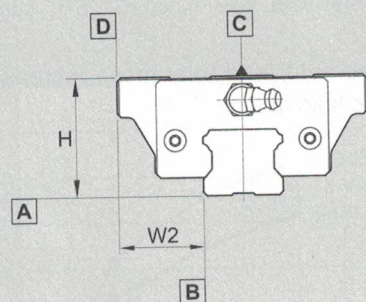
- Measuring dimension difference H and W2 between the carriages of the same guide

△W2 (Dimension difference W2 between the carriages of the same guide): measuring the center of block side surface(reference surface

△H (Dimension difference H between the carriages of the same guide): measuring the center of block top
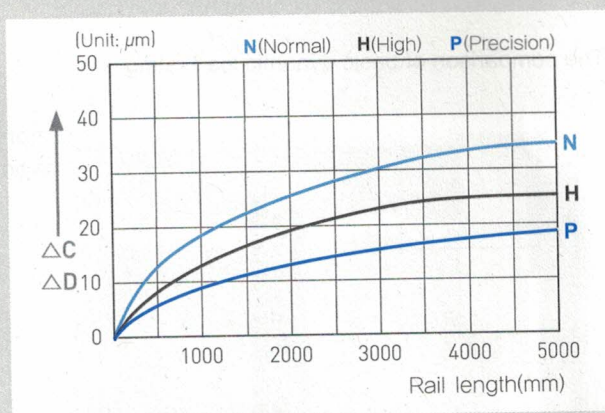
(Unit : mm)

Item	N	H	P
Tolerance for the height H	±0.1	±0.04	±0.02
Tolerance for the rail-to-block lateral distance W2	±0.1	±0.04	±0.02
Tolerance for the height H difference among blocks	0.03	0.015	0.007
Tolerance for rail-to-block lateral distance W2 distance among blocks	0.03	0.015	0.007
Running parallelism of surface C with surface A	△C		
Running parallelism of surface D with surface B	△D		

- N : Normal   - H : High   - P : Precision

Preload

Reference	Volume of preload
K0 (None)	Clearance within 0.01mm
K1 (Normal)	Max. 0.02C
K2 (Light)	0.04 ~ 0.06C
K3 (Heavy)	0.08 ~ 0.10C

- C(kN) : Basic dynamic load rating
※ "K3" Preload is not available for SBI15 type