

## Dust Proof

### Code of contamination protection

#### Code of contamination protection for Carriage

• MSA, MSB Series :

Code	Contamination Protection
no symbol	Scraper(both ends)
UU	Bidirectional end seal(both ends)
SS	Bidirectional end seal+Bottom seal
ZZ	SS+Scraper
DD	Double bidirectional end seal+Bottom seal
KK	DD+Scraper
LL	Low frictional end seal
RR	LL+Bottom seal
HD	high dust prove end seal +high dust prove inner and bottom seal (reference[B1-238])

• MSG, MSR, SMR, SME Series

Code	Contamination Protection
no symbol	Scraper(both ends)
UU	Bidirectional end seal(both ends)
SS	Bidirectional end seal+Bottom seal+Inner seal
ZZ	SS+Scraper
DD	Double bidirectional end seal+Bottom seal+Inner seal
KK	DD+Scraper

• SMA, SMB Series

Code	Contamination Protection
no symbol	Scraper(both ends)
UU	Bidirectional end seal(both ends)
SS	Bidirectional end seal+Bottom seal
ZZ	SS+Scraper
DD	Double bidirectional end seal+Bottom seal
KK	DD+Scraper
LL	Low frictional end seal
RR	LL+Bottom seal

• MSC, MSD Series :

Code	Contamination Protection
LL	Low frictional end seal
RR	LL+Bottom seal

#### Code of contamination protection for Rail

• MSA、MSB、MSG、MSR、SMR、SME、SMA、SMB Series

Code	Contamination Protection
/CC	Cover strip (Buckle Type)
/CB	Cover strip (Rail have steel strip groove)
/CD	Cover strip (Rail without steel strip groove)
/MC	Copper bolt cap
/MD	Stainless bolt cap

Note: There are two metallic bolt caps of copper and stainless that could be supplied by customer's choice.

Note: Buckle Type: Apply to MSR, SMR Series

#### Seal materials choice

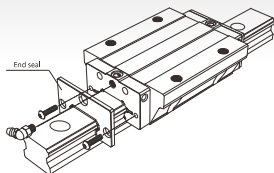
Beside the standard seal NBR that FKM (Fluorocarbon Rubber) seal or HNBR (Hydrogenated Nitrile Butadiene Rubber) seal could be supplied as requirement by customer's choice.

Because FKM and HNBR series are not standard products, we do not prepare stocks. Customization is necessary.

## Contamination protection

Each series of linear guideway offers various kinds of dust protection accessory to keep the foreign matters from entering into the carriage.

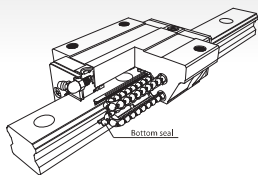
### End seal



Two types sealing are available:

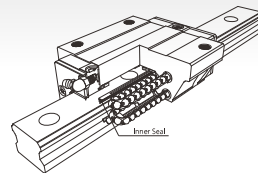
1. Seal for high dust protection required.
2. Seal for low frictional resistance required.

### Bottom seal



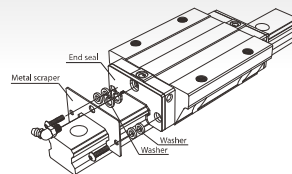
Prevent the inclusion of foreign matters from the bolt hole.

### Inner Seal



Preventing the inclusion of foreign matters from bottom of carriage.

### Metal scraper



Removing spatters, iron chips, and large foreign matters as well as protecting the end seals.