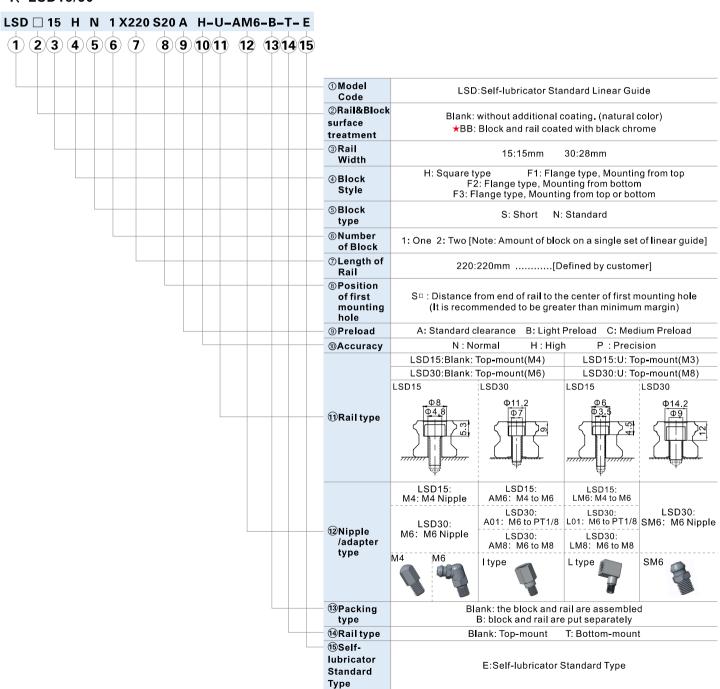


#### I SD Series



# Order Information(Combined)

# 1、LSD15/30



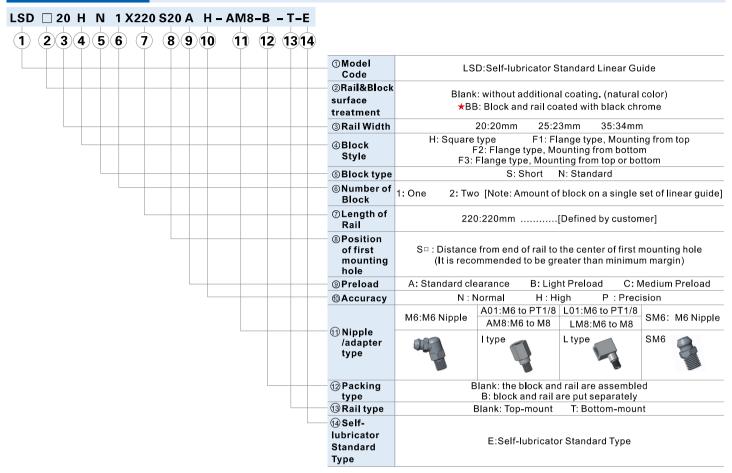
[Note] For LSD-BB series, standard length of a rail is 3 m.

Please contact with our company if length of rail exceeds the maximum.

Add: Rail type indicated in (f) and (f) in ordering code cannot be selected at the same time, only one of them can be selected.



# 2、LSD20/25/35

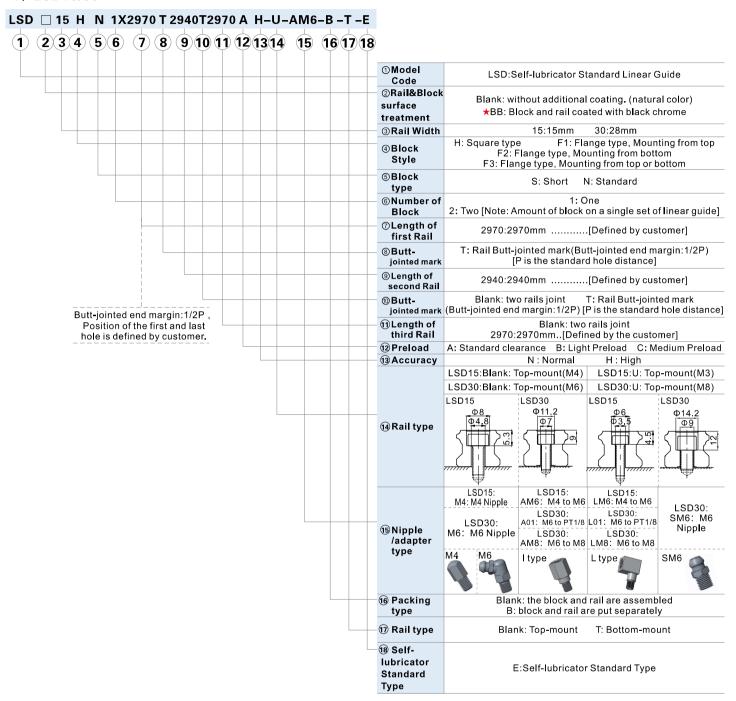


[Note] For LSD-BB series, standard length of a rail is 3 m. Please contact with our company if length of rail exceeds the maximum.



# **Butt-jointed Order Information**

### 1、LSD15/30



[Note]For LSD-BB series, standard length of a rail is 3 m.

Maximum length of two-joint rail is 6 m. Maximum length of three-joint rail is 9 m.

Please contact with our company if length of rail exceeds the maximum.

Add: Number of joints cannot be more than 2 times(three rails at most).

For LSD15, maximum length of jointed rail is 11800mm.

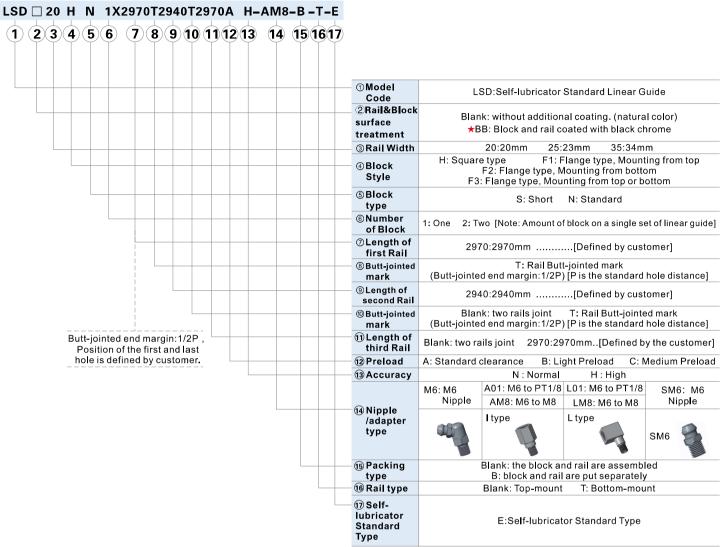
For LSD30, it's 11880.

Customization is needed for joint times more than standard.

Add2 :Rail type indicated in 9 and 0 in ordering code cannot be selected at the same time, only one of them can be selected.



# 2、LSD20/25/35



[Note]For LSD-BB series, standard length of a rail is 3 m.

Maximum length of two-joint rail is 6 m. Maximum length of three-joint rail is 9 m.

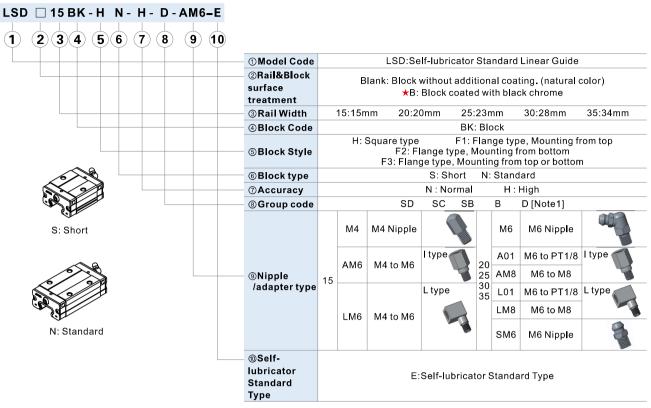
Please contact with our company if length of rail exceeds the maximum.

Add: Number of joints cannot be more than 2 times(three rails at most). For LSD20/25, maximum length of jointed rail is 11800mm. For LSD35, it's 11880.

Customization is needed for joint times more than standard.



### 1. Block Order Information



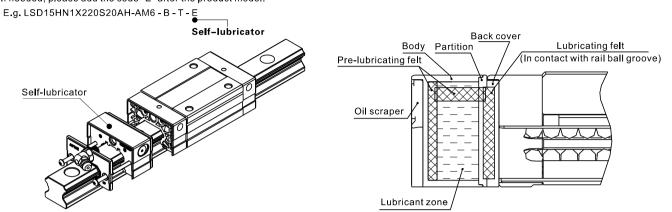
[Note1] When selecting rails and bearings, the different pairing codes can change the units preload, details see "preload pairing chart".



### Self-lubricator illustration

### 1.Code and structure

AirTAC provides self-lubricator for applications e.g. limited spaces, or where grease maintenance is challenging. If needed, please add the code "E" after the product model.



# **Product Features**

- 1. Easy Maintenance and Long-Term Maintenance-Free Operation: In normal applications, basically no additional grease maintenance is required throughout lifespan of linear guide.
- 2. Cost Savings: No additional lubrication is needed for the block, reducing labor and material costs.
- 3. Flexible Use in Specific Environments: Equipped with a high-capacity grease tank, allowing the use of specific lubricants for specific environments.
- 4. Dustproof Design: Built-in dustproof structure extends lifespan.
- 5. Flexible in usage and installation: the assembling and disassembling of self-lubricator in integrity structure is convenient, can have it according to different working condition.

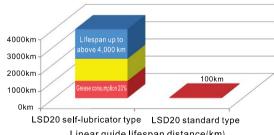
[Note] Self-lubricator type block is not applicable for ultra-smooth application, as the higher viscosity of the lubricant in self-lubricator will increases friction by approximately 5–7N.

### Durability test of self-lubricator

■Test specification	Test specification	Model	Speed	Stroke	Lubricant type
	Lubricating effect	LSD20	30m/min	1200mm	ISO VG680 high-quality extreme pressure lubricant

### Test result

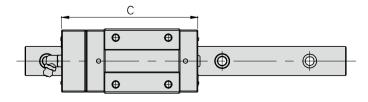
Test result shows that after running 1,000 km, only 20% of the grease is consumed, and the linear guide remains lubricated. The expected service life can possibly exceed 4,000 km.



Linear guide lifespan distance(km)

When comparing each sub-series with the self-lubricator and the standard model, the length of block will change. Please refer to the table below for details.

•Block dimension comparison (only dimension C is different from the standard, the rest remains the same)



		Length C(mm)			
Model	Туре	Standard (Blank)	Self-Iubricator Standard Type		
LSD15□S	Short	40.5	55		
LSD15□N	Standard	57	71.5		
LSD20□S	Short	46	62		
LSD20□N	Standard	65	81		
LSD25□S	Short	59	75		
LSD25□N	Standard	83	99		
LSD30□S	Short	68.5	84.5		
LSD30□N	Standard	97	113		
LSD35□S	Short	73.5	89.5		
LSD35□N	Standard	106.5	122.5		



### I SD Series

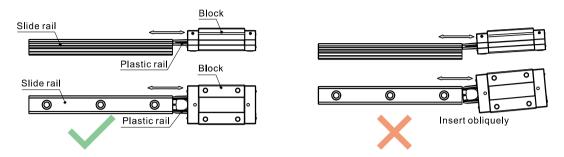
### Precautions on use

#### 1. Block disassembly

With ball retainers and a dustproof cover, normally the balls are prevented from falling out when block is removed from rail.

However, if obliquely insert rail into blocks or quickly assembled or disassembled, there is a risk for balls of falling out.

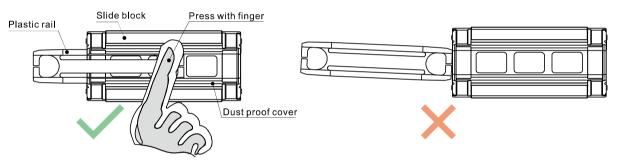
Please carefully assemble the linear guide or use plastic rails to assist.



### 2. Plastic rail installation

A plastic rail is equipped for block set. Please do not remove plastic rail whenever it is not necessary.

If plastic rail falls out and needs to be reinstalled, press the dustproof covers with fingers and install slowly to prevent balls from falling out due to misalignment of plastic rail.



Press the dust-proof covers and insert plastic rail in alignment.

Without pressing dust-proof covers or insert plastic rail obliquely.

### 3. Caution

- Parts may slide out if linear guide is put unevenly. Please be careful.
- Hitting or dropping linear guide could have huge effect on accuracy and lifespan even though appearance may remain intact. Please be careful.
- Do not dissemble linear guide as external objects may enter blocks and cause accuracy problem.

### 4. Lubrication

- Linear guide have been treated with anti-rust oil during production. Before use, wipe the rail and treat it with lubrication.
- Do not mix lubricating oil (grease) with different properties.
- •After lubrication, move block back and forth for the length of three blocks long and repeat at least 2 times to ensure there is a grease file on rail.

### 5. Use

- The operating environment temperature should not exceed 80°C, and the maximum temperature should not exceed 100°C.
- Do not separate blocks from rail whenever it is not necessary. If you need to separate them, please use plastic rails to prevent steel balls from falling out.

# 6. Storage

• When storing blocks, rails or linear guide set, please be sure that anti-rust oil is well applied and product is well sealed as well as placed horizontally.

Avoid humidity and high temperatures environment.