Lock Unit

A series compatible with shafts and linear guides is available,

ideal for safety and clamp mechanisms of various devices

Safety

Ensures the safety of workpieces, etc., even during power outages or accidents.

Energy saving

No power such as electricity or air is required while braking/locking.

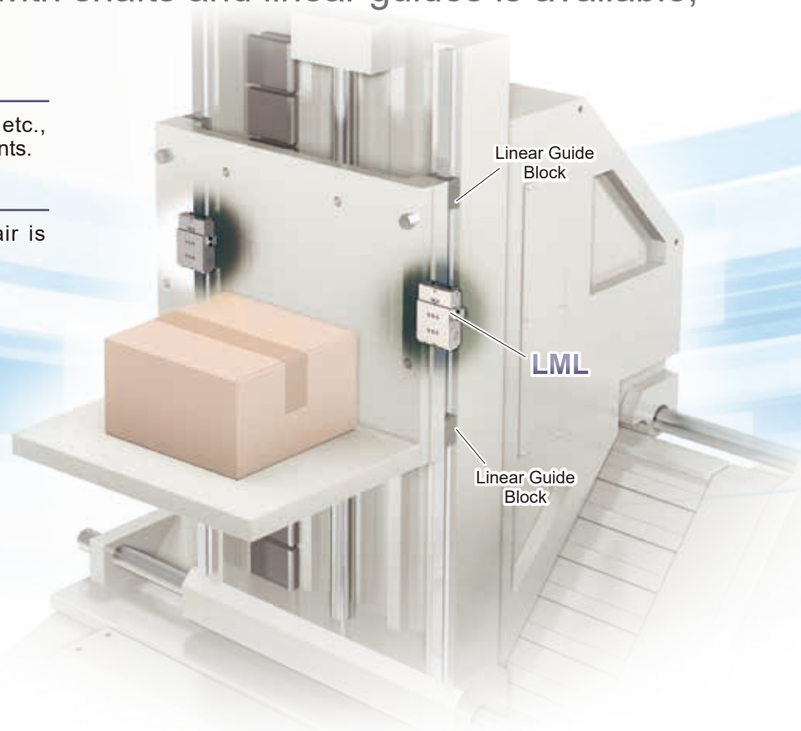
Intermediate Stop/Fall Prevention

Positioning

Easy Air Control

Release — When air is **supplied**, brake/lock is **released**

Operation — When air is **exhausted**, brake/lock **operates**



Product Variation Lineup

Shaft compatible model

Model	Function	Product appearance	Size (shaft diameter: ø) 8 16 20 25 30 35 40 45	Product weight (g)	Holding Force (N)
UB Series	Locking in a stationary state			99 to 578	180 to 450
JSB3 Series	Brake (Stop during operation)			LB*1 : 1800 to 44000 FA*2 : 1800 to 51500	980 to 20000

*1. Axial foot *2. Flange

Linear guide compatible model

Model	Function	Product appearance	Size (rail width: mm) 15 20 25 30 35	Product weight (g)	Holding Force (N)
LMB Series	Locking in a stationary state			600 to 1900	1175 to 2450
LML Series	Locking in a stationary state			600 to 2800	300 to 1150

Features of each series model

UB Series

Locking in stationary state

Lightweight/Slim

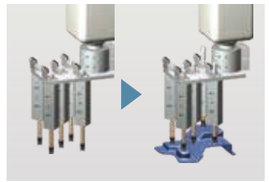
Tracing conveyance possible because it is light and compact. Conveyance by robot becomes faster.

2 types of lock direction

Selection of unidirectional lock and bidirectional lock is possible. For unidirectional lock, the rod is free in the direction opposite to the lock, so even if a workpiece is caught, it can be easily removed.

Usage Example ❶

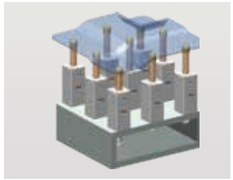
Robot hand



You can make the workpiece conform to its shape simply by pressing it against the shaft.

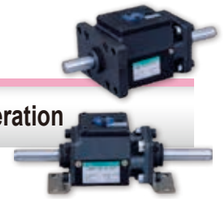
Usage Example ❷

Bottom support tracing unit



By placing the workpiece on the shaft, you can make it conform to the shape of the workpiece.

JSB3 Series



Brake: Stopping during operation

High Precision

Due to the adoption of a unique brake mechanism, the repetitive stopping accuracy of the rod is ±1.0 mm or less (rod speed 300 mm/s, piping 1 m or less, no load). Contributes to improving device accuracy.

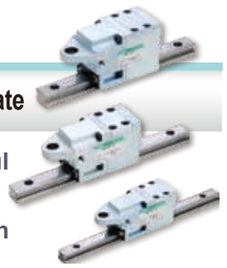
Strong Holding Force

Possesses a strong holding force of 980 N to 20000 N according to rod diameters ø16 to ø45.

Excellent durability

Achieves soft braking force and excellent durability.

LMB Series

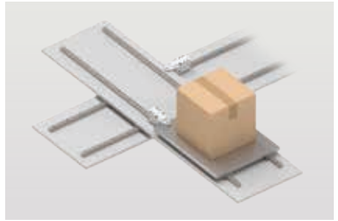


Locking in stationary state

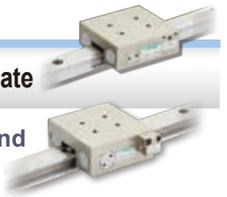
- **Compact but powerful holding force.**
- **Very little backlash when locked**
- **Dust-proofing handled by front and back Lock UnitsScraper provided as standard**

Usage Example

Fixing and holding of X/Y table



LML Series

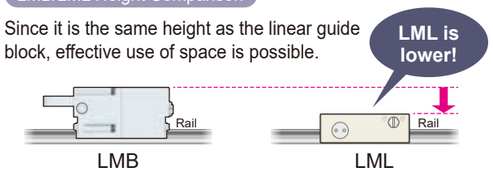


Locking in stationary state

- **Linear guide block and Same height**

LMB/LML Height Comparison

Since it is the same height as the linear guide block, effective use of space is possible.



- **Environmental measures (LML-G Series)**

Can select with scraper as a dustproof measure.

LMB/LML Comparison

	LMB		LML	Remarks
Height	60.5 mm	>	28 mm	For rail size 20
Width	45 mm	<	66 mm	For rail size 20
Holding force	1960 N	>	450 N	For rail size 20
Compatible rail width	3 sizes	<	5 sizes	