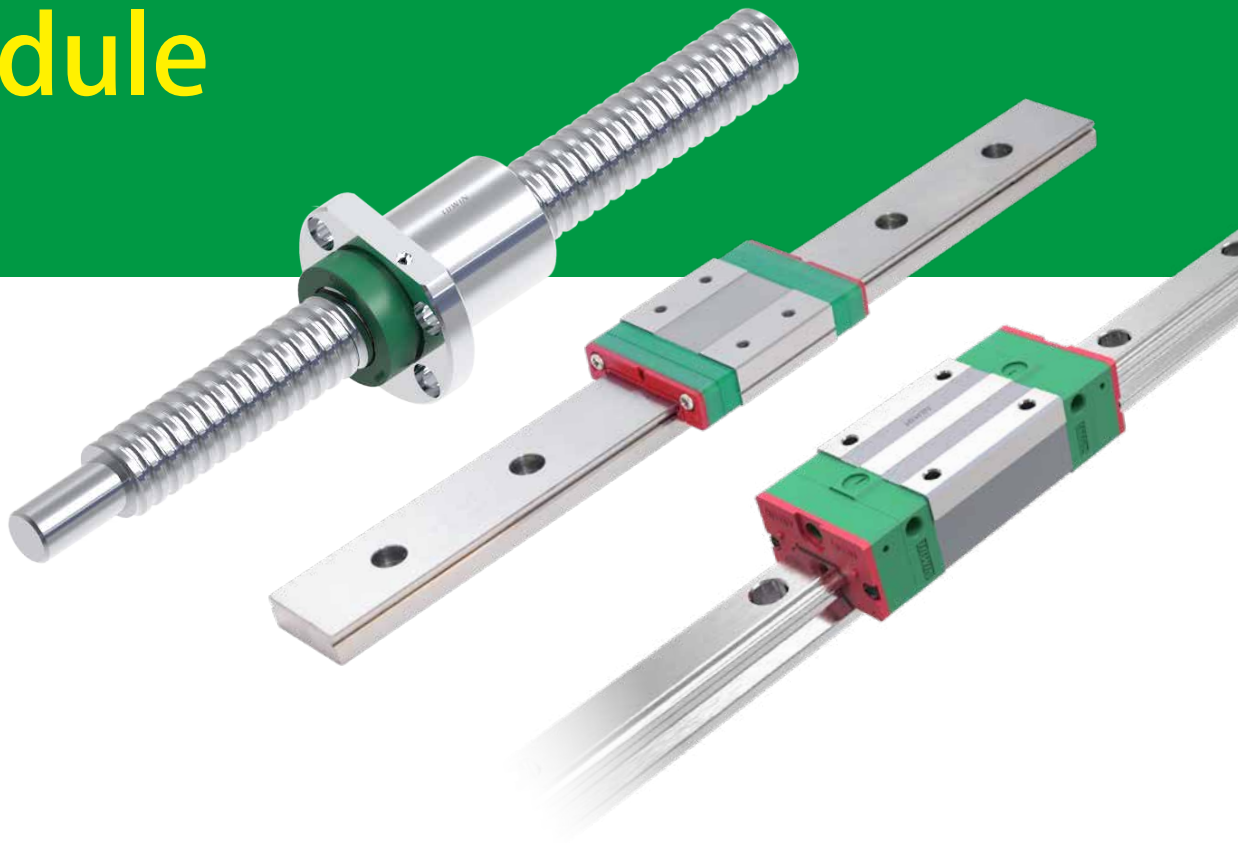


Eco-friendly Lubrication

EL Self Lubrication Device EL Auxiliary Lubrication Module



The HIWIN's EL Auxiliary Lubrication Module, the module is installed on both ends of nut or guideway block and provides extended lubrication through a no-drip encapsulated material for a cleaner environmental solution.



HIWIN Support



About HIWIN

Feature :

- Equipped with auxiliary lubrication to extend maintenance period to reach more than 20,000km^(Note 1)
- Eco-friendly, low-pollution, module design
- Optimized lubrication positions for direct lubrication of ballscrew rolling grooves and linear guideway ball grooves
- Highly compatible with various types and accuracy grades of ballscrews and linear guideway
- Compliant with ISO Class 6 cleanroom standards

Note : 1. Actual service life may vary depending on installation conditions or operating environment. Please refer to the actual setup for accurate assessment.
2. Suggested operating temperature : 25~50 °C

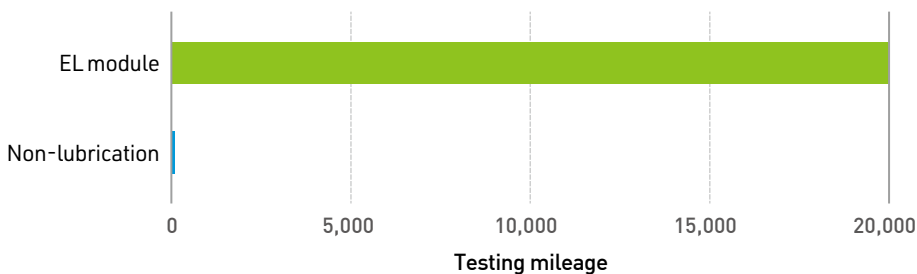
Application :

- Automation
- Conveying Equipment
- Industrial Machine
- Semi-conductor
- Inspection Machine

Durability Test

• Ballscrew

A service life test was conducted on the product equipped with the EL lubrication module, achieving an operating distance of up to 20,000 km.

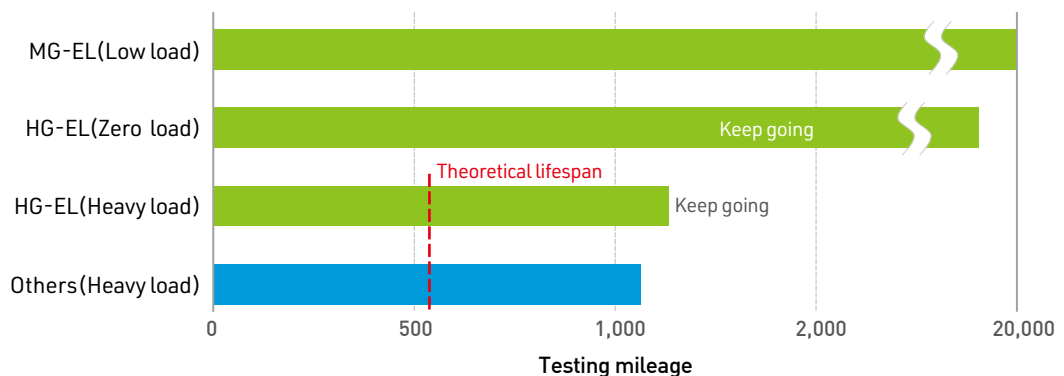


Testing conditions	
Specification	R20
Load	50 kgf
Speed	3,000 RPM
Testing mileage	20,000 km

• Linear Guideway

Regarding the product equipped with the EL lubrication module, the lifespan test shows that the operating mileage can reach up to 20,000 km.

Testing conditions				
Specification	MGW12+EL	HGH25+EL		Others + Self-Lubricant
Testing	Low load	Zero load	Heavy load	Heavy load
Lubrication condition	Initial lubrication only			
Load	20 kgf	0 kgf	1,069 kgf	845 kgf
Speed	3m/s	2.5m/s	0.8m/s	0.8m/s
Testing mileage	20,000 km	16,000 km	1,300 km	1,200 km



Easily Installed - Module Design

Only the removal of the securing screws is needed to replace the oil tank.

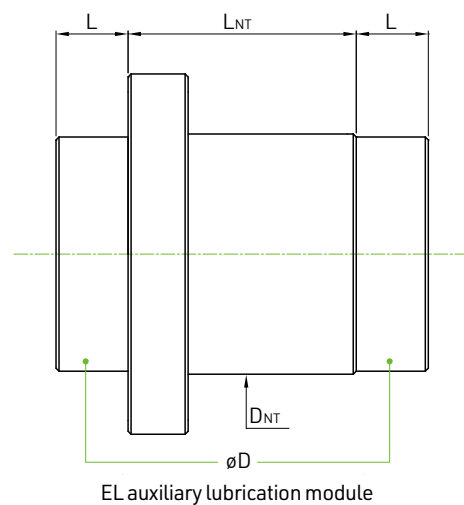


• Ballscrew

Unit : mm

Specification (According to outer diameter)	EL module outer diameter (D)	Protrusion length of nut (one side) – EL module (L)
ø12	22	10
ø15, ø16	28	14
ø20	35	14
ø25	39	12
ø32	55	15
	47	12
ø36	65	15
	55	15
ø40	62.5	15

※For any additional requests, please contact HIWIN.

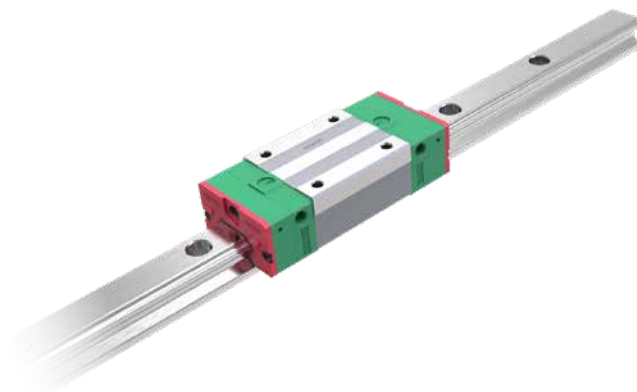
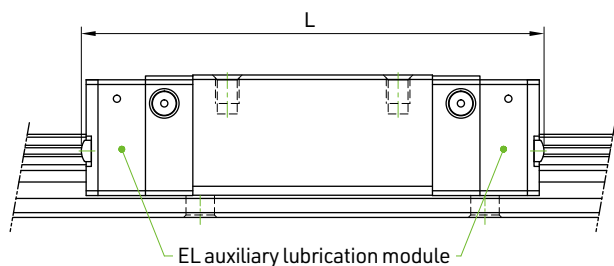
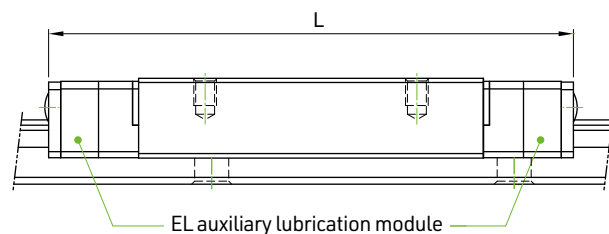


• Linear Guideway

Unit : mm

Specification	Single-sided lubrication module (EL)	Standard block length (Not included EL)	Total length with EL block (L)
MGN7-C/H	3.5	22.5 / 30.8	29.5 / 37.8
MGN9-C/H	5	28.9 / 39.9	38.9 / 49.9
MGN12-C/H	5	34.7 / 45.4	44.7 / 55.4
MGN15-C/H	6	42.1 / 58.8	54.1 / 70.8
MGW9-C/H	5	39.3 / 50.7	49.3 / 60.7
MGW12-C/H	5	46.1 / 60.4	56.1 / 70.4
MGW15-C/H	6	54.8 / 73.8	66.8 / 85.8
HG15-C	10	61.4	81.4
HG20-C/H	10	77.5 / 92.2	97.5 / 112.2
HG25-C/H	10	84 / 104.6	104 / 124.6
QH15-C	10	61.4	81.4
QH20-C/H	10	76.7 / 91.4	96.7 / 111.4
QH25-C/H	10	83.4 / 104.0	103.4 / 124.0

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