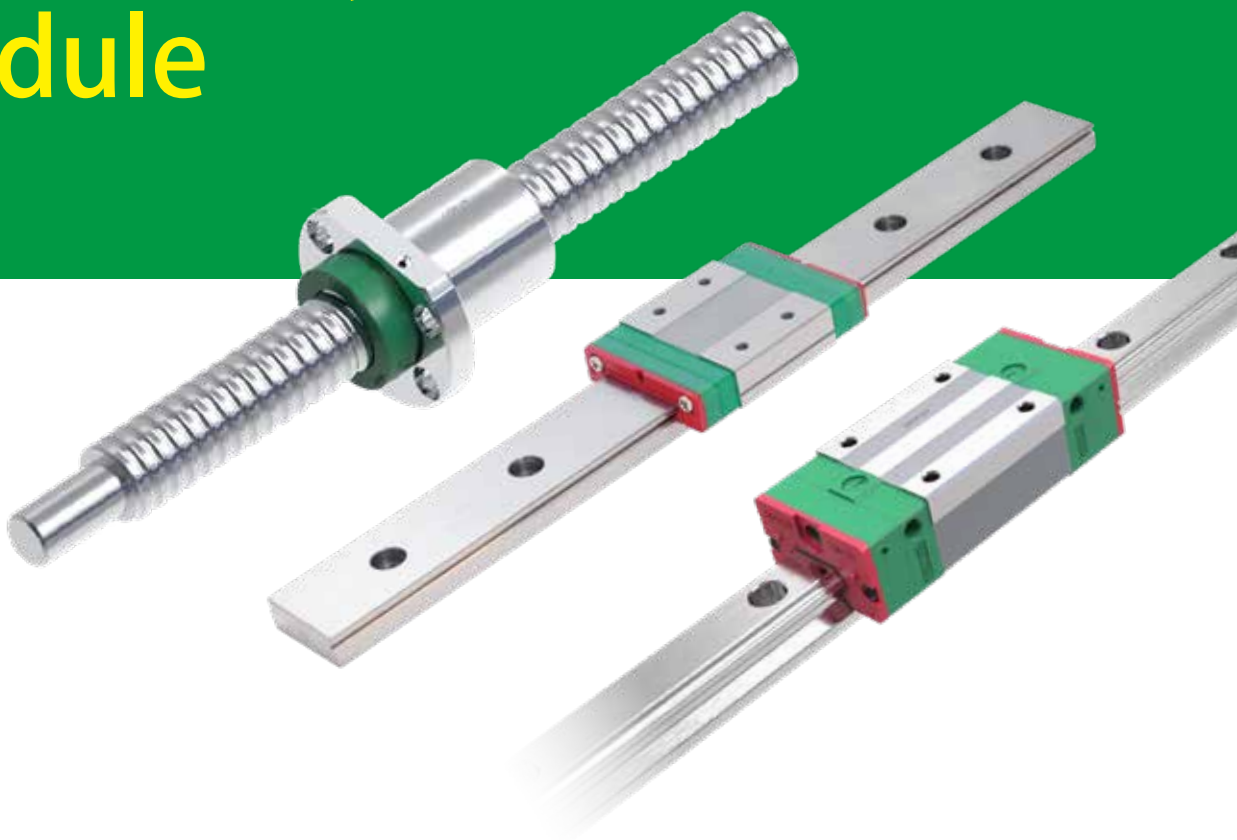
HIWIN®

Eco-friendly
Lubrication

EL Self Lubrication Device
EL Auxiliary Lubrication Module



HIWIN's EL Auxiliary Lubrication Module is installed on both ends of a ballscrew nut or linear guide block, delivering a continuous supply of lubricant. By minimizing contamination caused by lubricant leakage, it ensures long-lasting lubrication performance, reduces maintenance requirements, and extends service intervals.

HIWIN Support

About HIWIN

Features :

- 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

Applications :

- **Automation & Smart Manufacturing**
- **Semiconductor & Advanced Packaging**
- **Electronics & Display Manufacturing**
- **Precision Equipment & Inspection Systems**
- **Material Handling & Conveying Equipment**
- **Food & Packaging Machinery**(Note 3)
- **Industrial Machinery**

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
3. EL is optionally available with NSF H1 food-grade grease. For details, please contact HIWIN.

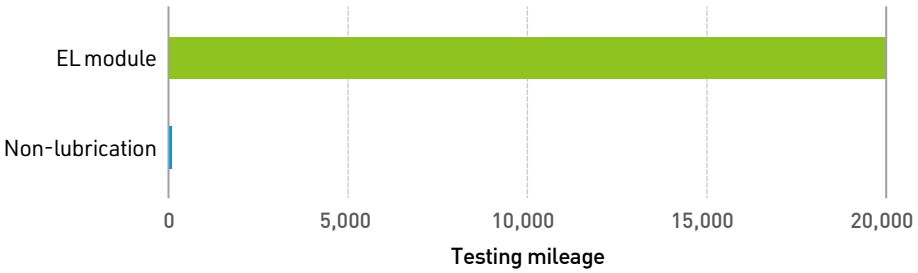
Easy Installation - Modular Design

Only the removal of the securing screws is needed to replace the lubrication module.



• 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.

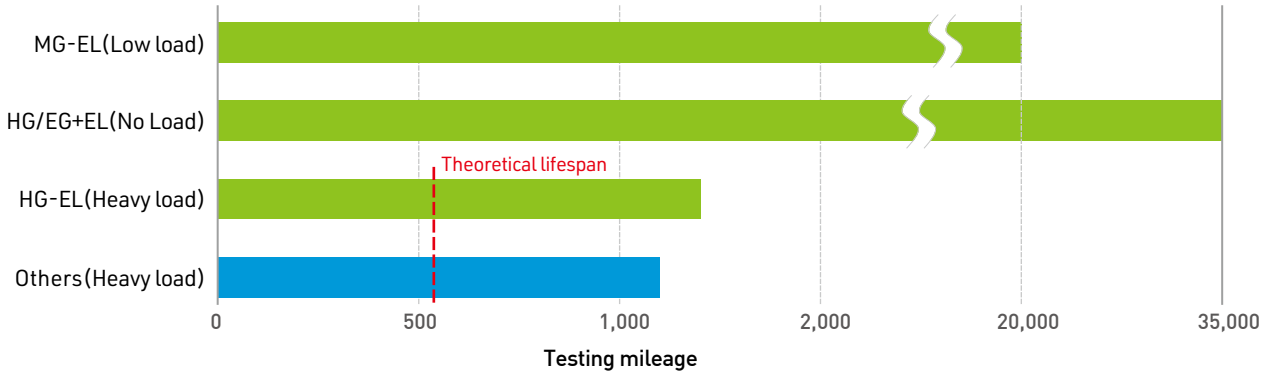


Testing conditions	
Specification	R20
Load	50 kgf
Speed	3,000 RPM
Testing mileage	20,000 km

• Linear Guideway

Regarding the product equipped with the EL lubrication module, the lifespan test shows that the operating mileage can reach up to 35,000 km.

Testing conditions				
Specification	MGW12+EL	HG/EG+EL	HG25+EL	Others + Self-Lubricant
Testing	Low load	No 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	35,000 km	1,400 km	1,200 km



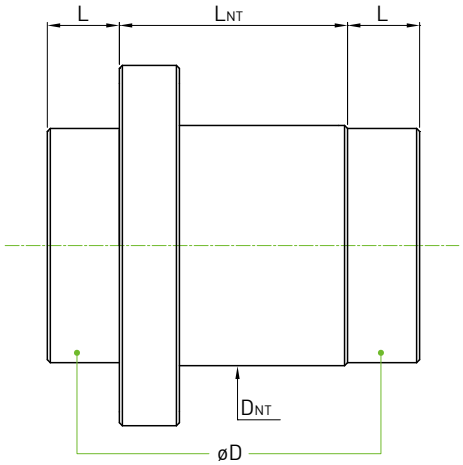
※This data represents test results obtained under controlled laboratory conditions.

• 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.



EL auxiliary lubrication module

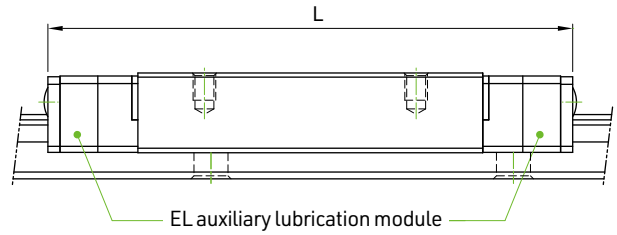


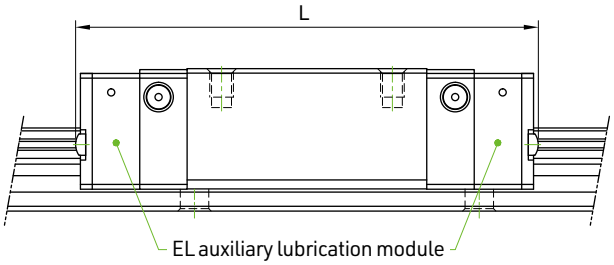
• Linear Guideway

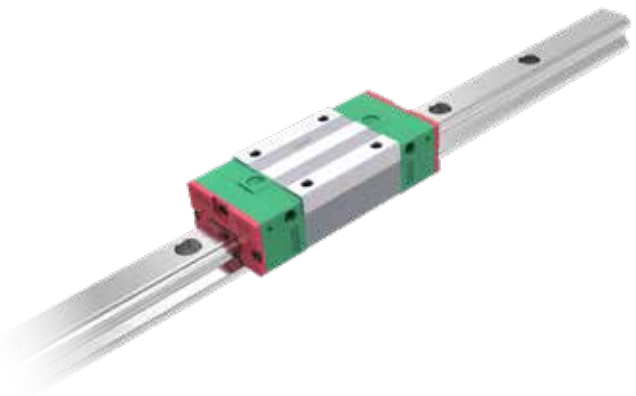
Unit : mm

Specification	Standard block length (Not included EL)	Single-sided lubrication module (EL)	Total Length (L) with EL block + SS	Total Length (L) with EL block + ZZ	Total Length (L) with EL block + DD	Total Length (L) with EL block + KK
MGN7-C/H	22.5 / 30.8	3.5	29.5 / 37.8	-	-	-
MGN9-C/H	28.9 / 39.9	5	38.9 / 49.9	-	-	-
MGN12-C/H	34.7 / 45.4	5	44.7 / 55.4	-	-	-
MGN15-C/H	42.1 / 58.8	6	54.1 / 70.8	-	-	-
MGW9-C/H	39.3 / 50.7	5	49.3 / 60.7	-	-	-
MGW12-C/H	46.1 / 60.4	5	56.1 / 70.4	-	-	-
MGW15-C/H	54.8 / 73.8	6	66.8 / 85.8	-	-	-
HG15-C	61.4	10	81.4	89	88	95.6
HG20-C/H	77.5 / 92.2	10	97.5 / 112.2	102.5 / 117.2	102.5 / 117.5	107.5 / 122.2
HG25-C/H	84 / 104.6	10	104 / 124.6	109 / 129.6	109 / 129.6	114 / 134.6
QH15-C	61.4	10	81.4	88.4	88	95
QH20-C/H	76.7 / 91.4	10	96.7 / 111.4	101.9 / 116.6	101.7 / 116.4	106.9 / 121.6
QH25-C/H	83.4 / 104.0	10	103.4 / 124.0	109.4 / 130	108.4 / 129	114.4 / 135
EG15-S/C	40.1 / 56.8	10	60.1 / 76.8	61.7 / 78.4	64.1 / 80.8	65.7 / 82.4
EG20-S/C	50.0 / 69.1	10	70 / 89.1	71.6 / 90.7	74 / 93.1	75.6 / 94.7
EG25-S/C	59.1 / 82.6	10	79.1 / 102.6	81.1 / 104.6	83.1 / 106.6	85.1 / 108.6
QE15-S/C	40.1 / 56.8	10	60.1 / 76.8	62.1 / 78.8	64.1 / 80.8	66.1 / 82.8
QE20-S/C	50.0 / 69.1	10	70 / 89.1	72 / 91.1	74 / 93.1	76 / 95.1
QE25-S/C	60.1 / 83.6	10	80.1 / 103.6	82.1 / 105.6	85.1 / 108.6	87.1 / 110.6

※For any additional requests, please contact HIWIN.
※If the operating environment involves dust (e.g., wood powder, flour, or other hygroscopic particulates) or liquid exposure (e.g., cutting fluid, water), please consult HIWIN prior to selection.







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