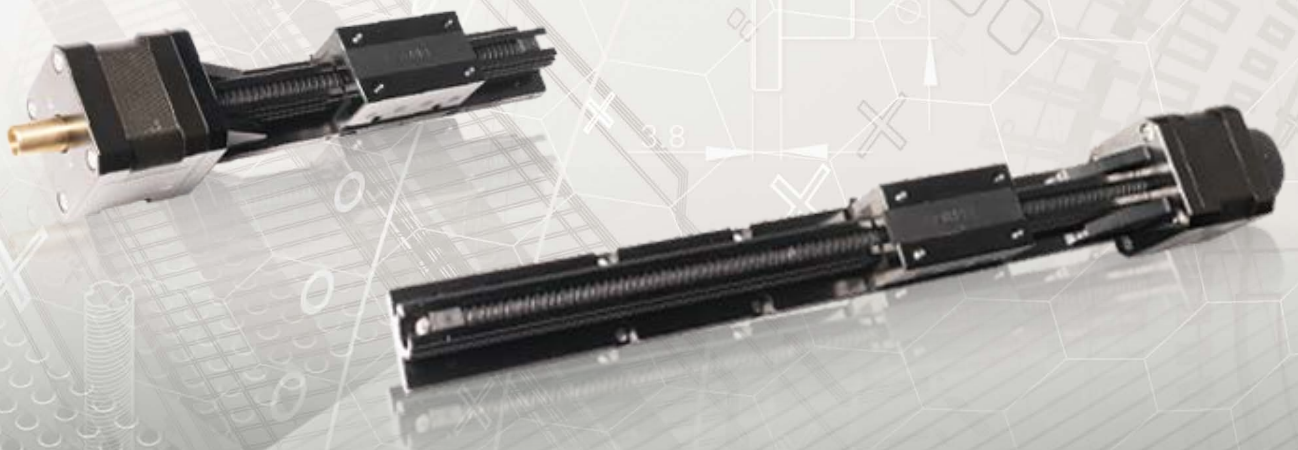


# DINGS'

Precision Motion Specialist

## DSL M SERIES PRODUCT CATALOG



DINGS' DSLM Series is available in NEMA size 14, 17 and 23 offers excellent linear speed and precise positioning performance.

Using spline slide rail as linear guide, it maximizes travel distance as max. 900mm stroke and ensures slider offset. DSLM series offers teflon coating for longer life cycle and employs fixed half nut structure to drive the slide and provides stable structure.



# DSLM SERIES

# CONTENTS

## DSLIM SERIES

Part number construction

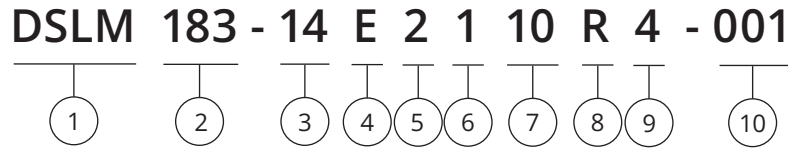
35 mm

42 mm

57 mm



## Part Number Construction - DSLM Series



- |   |                 |    |    |    |                   |    |    |    |   |
|---|-----------------|----|----|----|-------------------|----|----|----|---|
| <p>① Product Name<br/>DSL M Series Module</p> <p>② Stroke (mm)<br/>183 = 183mm</p> <p>③ Motor Size</p> <table border="1" style="margin-left: 20px;"> <tr> <td>Motor Size (mm)</td> <td>35</td> <td>42</td> <td>57</td> </tr> <tr> <td>Motor Size (NEMA)</td> <td>14</td> <td>17</td> <td>23</td> </tr> </table> <p>④ Motor Type<br/>E = External type</p> <p>⑤ Motor Step Angle<br/>2 = 2 Phase with 1.8°</p> | Motor Size (mm) | 35 | 42 | 57 | Motor Size (NEMA) | 14 | 17 | 23 | <p>⑥ Motor Length<br/>1 = Single stack<br/>2 = Double stack</p> <p>⑦ Rated Current / Phase<br/>XX = X.X (A) / Phase</p> <p>⑧ Lead Screw Code<br/>Please refer to lead screw code selection table</p> <p>⑨ Number of Lead Wires<br/>4 = 4 Flying leads</p> <p>⑩ Customer Sequence Number</p> |
| Motor Size (mm)   | 35              | 42 | 57 |    |                   |    |    |    |   |
| Motor Size (NEMA)   | 14              | 17 | 23 |    |                   |    |    |    |   |

Example

Part Number	DSL M183-14E2110R4-001
Description	<p>DSL M Linear Module</p> <p>183mm Stroke</p> <p>NEMA 14 External Linear Actuator</p> <p>2 Phase / 1.8° Stepper</p> <p>Single Stack</p> <p>1.0A / Phase</p> <p>R Lead (0.2" or 5.08mm)</p> <p>4 Flying Wires</p> <p>Serial Number 001</p>

## Size 35mm DSLM

DINGS' DSLM Series in NEMA Size 14 [35mm] offers excellent linear speed and precise positioning performance.

Using spline slide rail as linear guide, it maximizes travel distance as max. 900mm stroke and ensures slider offset.

DSLm series offers teflon coating for longer life cycle and employs fixed half nut structure to drive the slide and provides stable structure.



### Motor Characteristics

Motor	Voltage (V)	Current (A (RMS))	Resistance ( $\Omega$ )	Inductance (mH)	Lead wire No.	Motor length (mm)
14E2105	6.6	0.5	13.2	14	4	33.6
14E2110	3.5	1.0	3.5	3.6	4	33.6
14E2115	2.7	1.5	1.8	1.9	4	33.6
14E2205	12.0	0.5	24.0	29	4	45.6
14E2210	6.0	1.0	6.0	7.2	4	45.6
14E2215	4.0	1.5	2.7	3.2	4	45.6

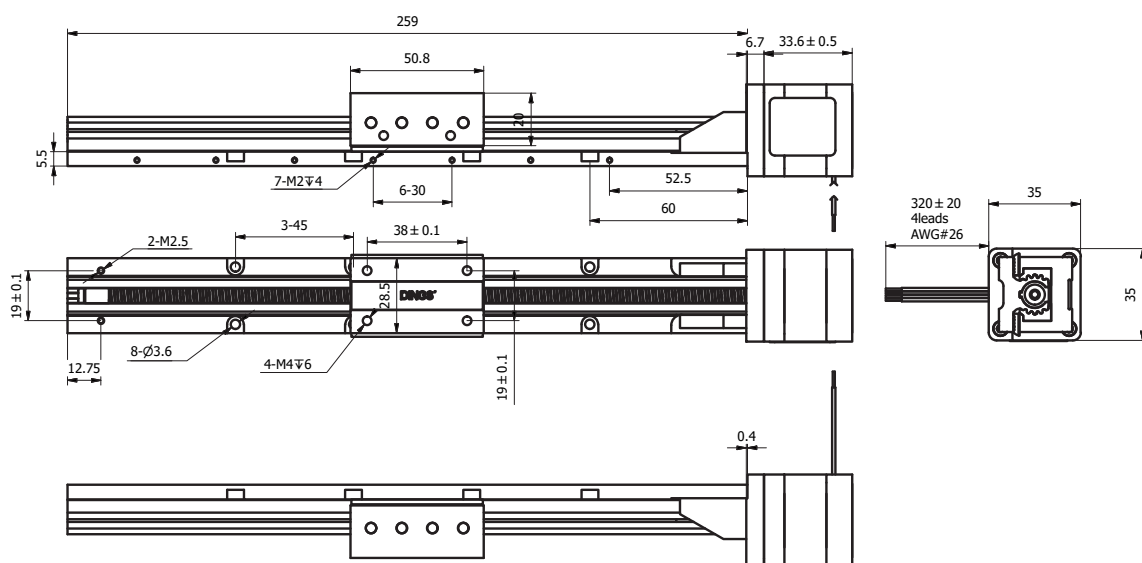
### Available Lead Screw and Travel per Step

Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.25	6.35	0.2	5.08	R	0.0254

### Dimensional Drawings

#### Available Stroke Selection

Stroke (mm)	Base Length
50	126
100	176
150	226
200	276
250	326
300	376
350	426
400	476
450	526
500	576

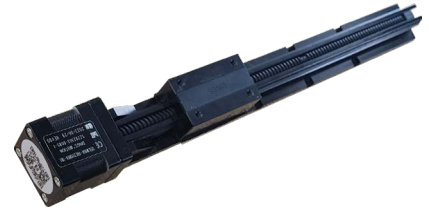


## Size 42mm DSLM

DINGS' DSLM Series in NEMA Size 17 [42mm] offers excellent linear speed and precise positioning performance.

Using spline slide rail as linear guide, it maximizes travel distance as max. 900mm stroke and ensures slider offset.

DSLm series offers teflon coating for longer life cycle and employees fixed half nut structure to drive the slide and provides stable structure.



### Motor Characteristics

Motor	Voltage (V)	Current (A (RMS))	Resistance (Ω)	Inductance (mH)	Lead wire No.	Motor length (mm)
17E2105	7.2	0.5	14.4	19.8	4	34.1
17E2110	3.8	1.0	3.8	5.0	4	34.1
17E2115	2.85	1.5	1.9	2.2	4	34.1
17E2205	11.0	0.5	22	46	4	48.1
17E2212	4.5	1.2	3.8	8.0	4	48.1
17E2225	2.5	2.5	1.0	1.8	4	48.1

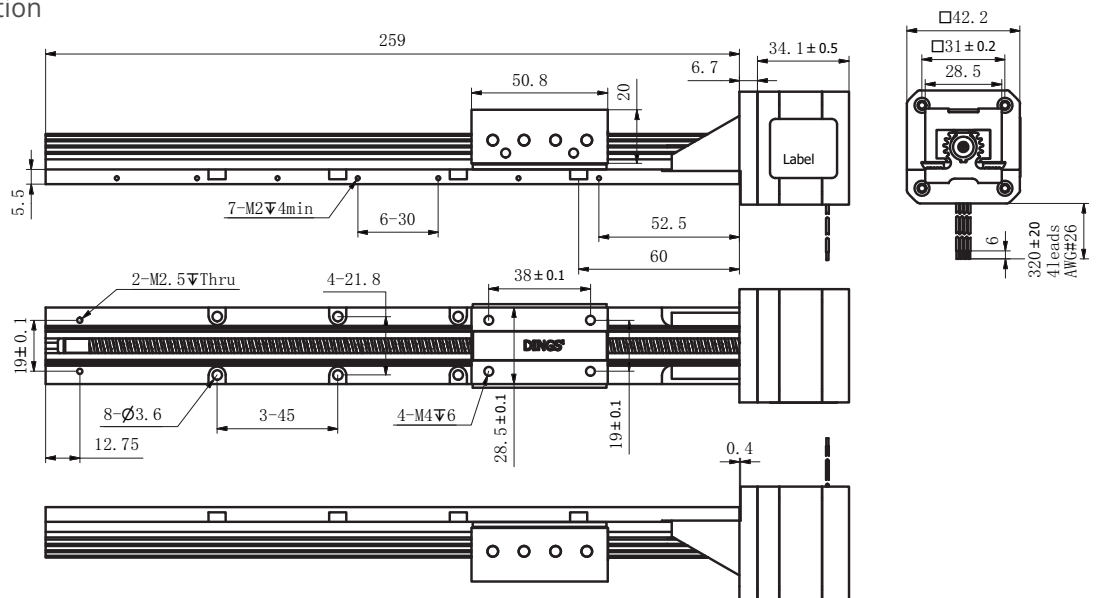
### Available Lead Screw and Travel per Step

Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.25	6.35	0.2	5.08	R	0.0254

### Dimensional Drawings

#### Available Stroke Selection

Stroke (mm)	Base Length
50	126
100	176
150	226
200	276
250	326
300	376
350	426
400	476
450	526
500	576



## Size 57mm DSLM

DINGS' DSLM Series in NEMA Size 23 [57mm] offers excellent linear speed and precise positioning performance.

Using spline slide rail as linear guide, it maximizes travel distance as max. 900mm stroke and ensures slider offset.

DSLm series offers teflon coating for longer life cycle and employs fixed half nut structure to drive the slide and provides stable structure.



### Motor Characteristics

Motor	Voltage (V)	Current (A (RMS))	Resistance (Ω)	Inductance (mH)	Lead wire No.	Motor length (mm)
23E2110	6.4	1.0	6.4	16.4	4	45
23E2120	3.2	2.0	1.75	4.1	4	45
23E2130	2.4	3.0	0.8	1.7	4	45
23E2210	10.8	1.0	11.5	32	4	65
23E2225	4.2	2.5	2.0	5.2	4	65
23E2240	2.8	4.0	0.7	2.0	4	65

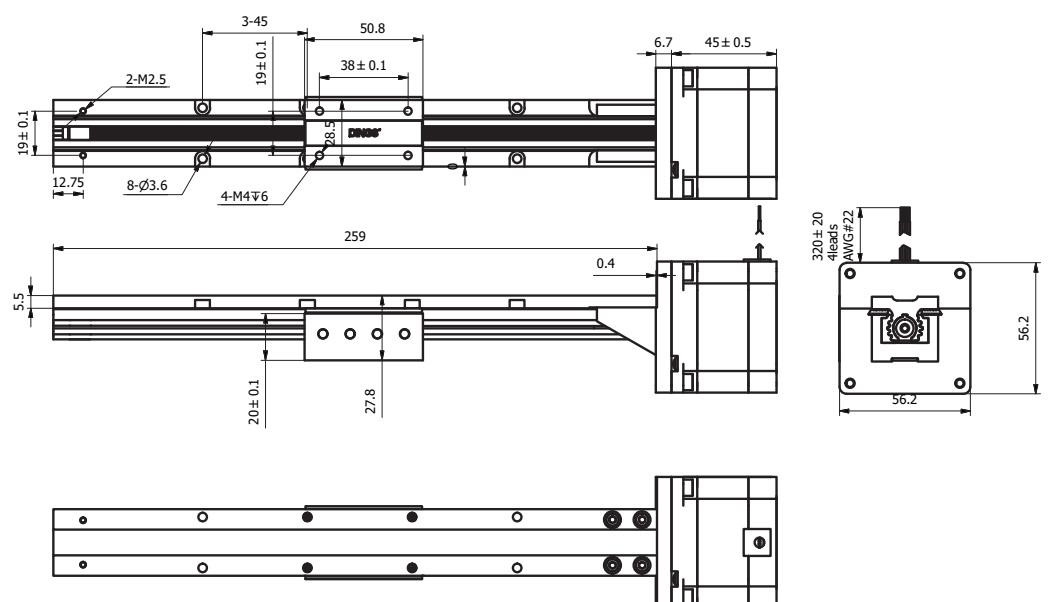
### Available Lead Screw and Travel per Step

Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.25	6.35	0.2	5.08	R	0.0254

### Dimensional Drawings

#### Available Stroke Selection

Stroke (mm)	Base Length
50	126
100	176
150	226
200	276
250	326
300	376
350	426
400	476
450	526
500	576



Since DSLM module adopts pure sliding friction, please refer to standard linear thrust force information and secure 1~2kg of margin in product selection.

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