DINGS'

Precision Motion Specialist

DSM SERIES

PRODUCT CATALOG

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

dingsmotion.com

Founded in 2008, Jiangsu DINGS' Intelligent Control Technology Co., Ltd. is guided by the philosophy, **"Quality stems from responsibility, and details determine success."**

As a global leader in precision linear motion, DINGS' delivers a comprehensive portfolio of precision stepper, DC and BLDC motors, voice coil motors, lead and ball screw linear actuators, PMSM motors for eco-mobility, and advanced motion controllers — setting new benchmarks in the global motion control market.

SCALE

300+	Advanced Machining Equipment	
40+	Automated Assembly Lines	
100+	Precision Testing & Analysis Systems	
140+	Patents & Intellectual Properties	

GROWTH

2008	Company Founded & DINGS' Brand Established
2010	DINGS' Motion USA Established
2016	DINGS' Korea Established
2019	Joined LEILI Group
2021	Changzhou Intelligent Manufacturing Plant Established Listed on China NEEQ Market
2022	Korea R&D Center Established
2023	Listed on Beijing Stock Exchange [Stock Code: 920593] DINGS' Korea Converted to Corporate Entity DINGS' Japan Established
2024	New Headquarters & Plant Established DINGS' Motion Europe Established
2025	Thailand Manufacturing Facility Established
2026	DINGS' Motion Europe Austria Branch Established

CERTIFICATIONS

ISO 9001 — Quality

ISO 14001 — Environmental

ISO 45001 — Health & Safety

ISO 13485 — Medical Device Quality

ISO/IEC 17025 — Laboratory Accreditation

IATF16949 — Automotive Quality

IPMS — Intellectual Property

CE — Safety Standards

RoHS COMPLIANT — Environmental Standards - RoHS

REACH NPS — Environmental Standards - REACH

PRODUCT WARRANTY

Warranty period: 1 year from shipment.

Free repair is provided for defects in materials or workmanship under normal use.

Warranty does not apply to:

- Warranty expiration or damaged/lost nameplates
- Improper installation or operating conditions
- Unauthorized disassembly or modification
- Repairs conducted outside of official service channels
- Force majeure, including natural disasters

DINGS' is committed to quality, reliability, and responsibility

— delivering high-performance motion solutions built on precision engineering.

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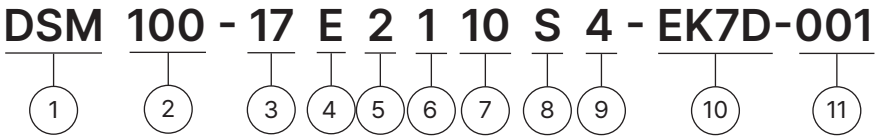
Part number construction



① Product Name
DSM Series Module

② Stroke (mm)
100 = 100mm

③ Motor Size

Motor Size (mm)	14	20	28	35	42
Motor Size (NEMA)	6	8	11	14	17

④ Motor Type
E = External type
N = Non-Captive type

⑤ Motor Step Angle
2 = 2-phase, 1.8° step angle
4 = 2-phase, 0.9° step angle

⑥ Motor Length
1 = Single stack
2 = Double stack

⑦ Rated Current / Phase
XX = X.X (A) / Phase

⑧ Lead Screw Code
Please refer to the lead screw code selection table

⑨ Number of Lead Wires
4 = 4-wire leads
6 = 6-wire leads

⑩ Option
EKX = Encoder [X = Encoder Resolution]
P = Manual Knob
B = Brake
X = Rear Shaft
R = Encoder Ready
C = Customization
N = No rear-end machining

⑪ Customer Sequence Number

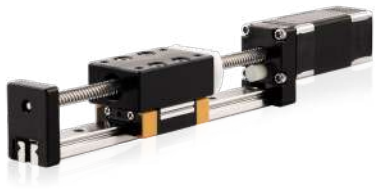
Example

Part Number	DSM100-17E2110S4-EK7D-001
Description	DSM Linear Module 100mm Stroke NEMA 17 External Linear Actuator 2-phase / 1.8° Stepper Single Stack 1.0A / Phase S Lead (0.25" or 6.35mm) 4-wire leads EK7D Encoder with differential output 1,000 lines Serial Number 001

14mm DSM

Based on DINGS' high-precision lead screw linear actuator platform and self-developed compact linear module structure, the DSM 14mm series provides compact, reliable, and high-precision linear motion solutions.

The DSM 14mm series offers a wide range of stroke and lead options with extensive customization capabilities, enabling integrated customized solutions for various applications.



Motor Characteristics

Motor	Voltage (V)	Current (A [RMS])	Resistance (Ω)	Inductance (mH)	Weight (g)	Lead wires	Motor length (mm)
6E2103	6.6	0.25	22	4.5	60	4	32

Available Lead Screw and Travel per Step

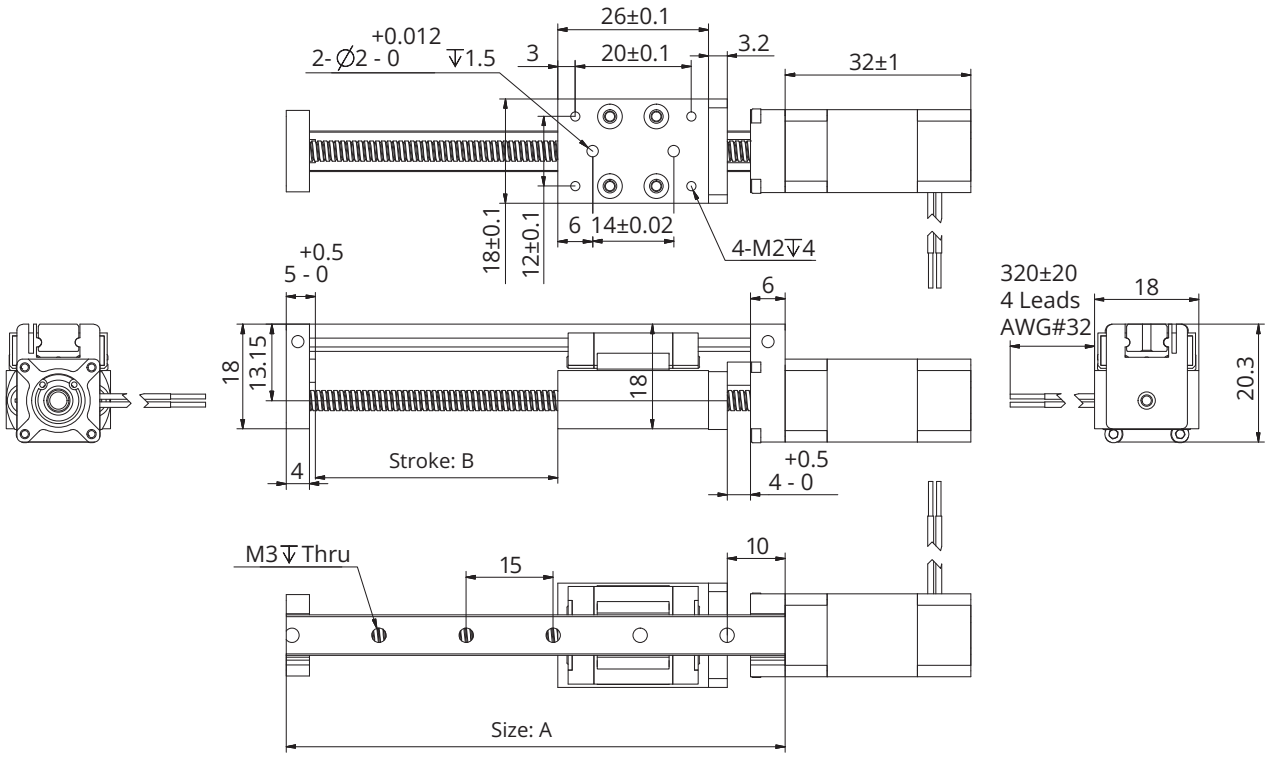
Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.138	3.5	0.0118	0.3	AF	0.0015
0.138	3.5	0.024	0.6096	AA	0.003048
0.138	3.5	0.048	1.2192	B	0.006096
0.138	3.5	0.0787	2	G	0.01
0.138	3.5	0.1575	4	M	0.02
0.138	3.5	0.315	8	T	0.04

Mechanical Specifications

Model	C100B(dyn)(N)	Co(stat)(N)	Mro(Nm)	Mpo(Nm)	Myo(Nm)
DSM 14	714	1071	3.794	2.219	2.219

14mm DSM

Dimensional Drawings



* Note: Stroke length can be customized within the maximum travel range.

Available Stroke Selection

Size A (mm)	Stroke B (mm)	Weight (kg)	
		Single stack	Double stack
66	20	0.090	-
86	40	0.103	-
106	60	0.109	-
126	80	0.115	-
146	100	0.121	-

* Weight values are for reference only and may vary with actual configuration.

Note : All drawings are 1st-angle projection - ISO Compliant (3D models available)

20mm DSM

Based on DINGS' high-precision lead screw linear actuator platform and self-developed compact linear module structure, the DSM 20mm series provides compact, reliable, and high-precision linear motion solutions.

The DSM 20mm series offers a wide range of stroke and lead options with extensive customization capabilities, enabling integrated customized solutions for various applications.

Motor Characteristics

Motor	Voltage (V)	Current (A [RMS])	Resistance (Ω)	Inductance (mH)	Lead wires	Motor length (mm)
8E2105	2.5	0.5	5.1	1.5	4	27.2
8E2205	4.4	0.5	8.8	2.7	4	38.1

Available Lead Screw and Travel per Step

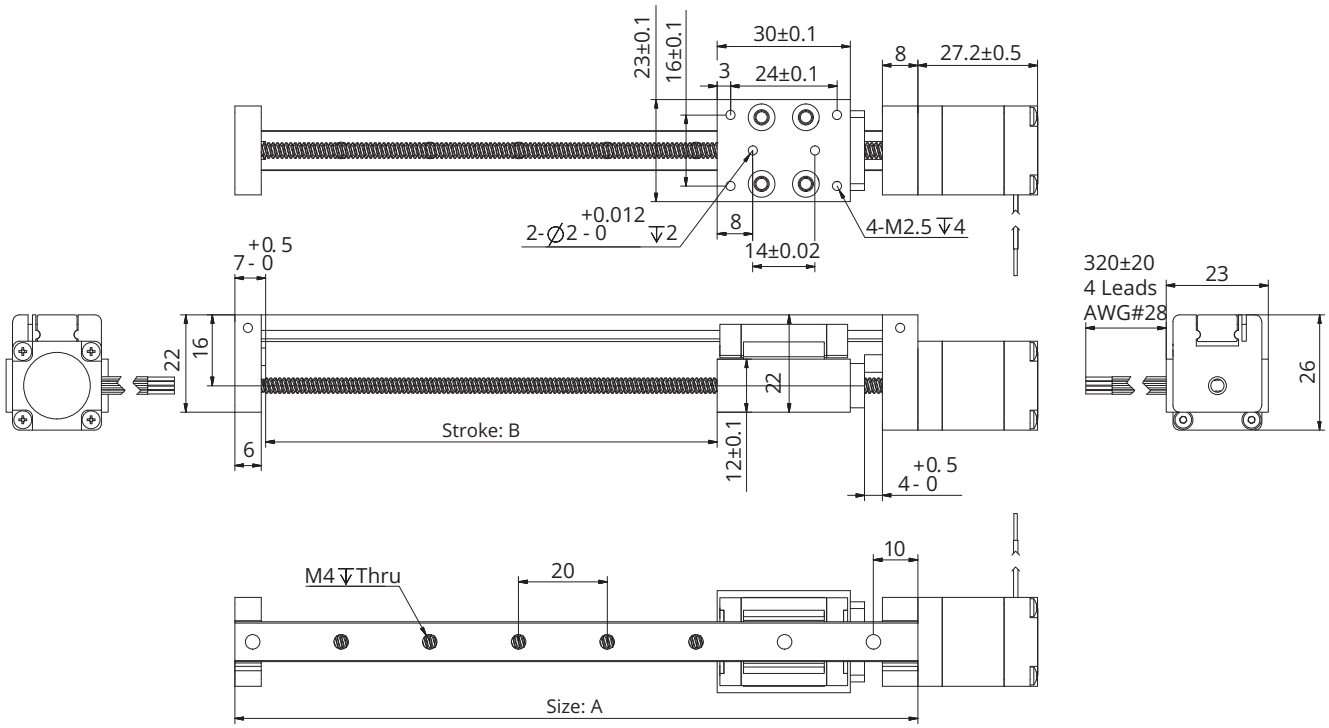
Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.138	3.5	0.0118	0.3	AF	0.0015
0.138	3.5	0.024	0.6096	AA	0.003048
0.128	3.24	0.0394	1	AB	0.005
0.138	3.5	0.048	1.2192	B	0.006096
0.138	3.5	0.0787	2	G	0.01
0.138	3.5	0.096	2.4384	J	0.012192
0.138	3.5	0.1575	4	M	0.02
0.138	3.5	0.315	8	T	0.04

Mechanical Specifications

Model	C100B(dyn)(N)	Co(stat)(N)	Mro(Nm)	Mpo(Nm)	Myo(Nm)
DSM 20	1379	1820	8.288	5.733	5.733

20mm DSM

Dimensional Drawings



* Note: Stroke length can be customized within the maximum travel range.

Available Stroke Selection

Size A (mm)	Stroke B (mm)	Weight (kg)	
		Single stack	Double stack
74	20	0.128	0.151
94	40	0.136	0.159
114	60	0.143	0.166
134	80	0.151	0.174
154	100	0.158	0.181

* Weight values are for reference only and may vary with actual configuration.

Note : All drawings are 1st-angle projection - ISO Compliant (3D models available)

28mm DSM

Based on DINGS' high-precision lead screw linear actuator platform and self-developed compact linear module structure, the DSM 28mm series provides compact, reliable, and high-precision linear motion solutions.

The DSM 28mm series offers a wide range of stroke and lead options with extensive customization capabilities, enabling integrated customized solutions for various applications.

Motor Characteristics

Motor	Voltage (V)	Current (A [RMS])	Resistance (Ω)	Inductance (mH)	Lead wires	Motor length (mm)
11E2105	4.55	0.5	9.1	6.0	4	33.35
11E2110	2.1	1.0	2.1	1.5	4	33.35
11E2209	3.9	0.95	4.1	4.0	4	45
11E2216	2.4	1.6	1.5	1.3	4	45

Available Lead Screw and Travel per Step

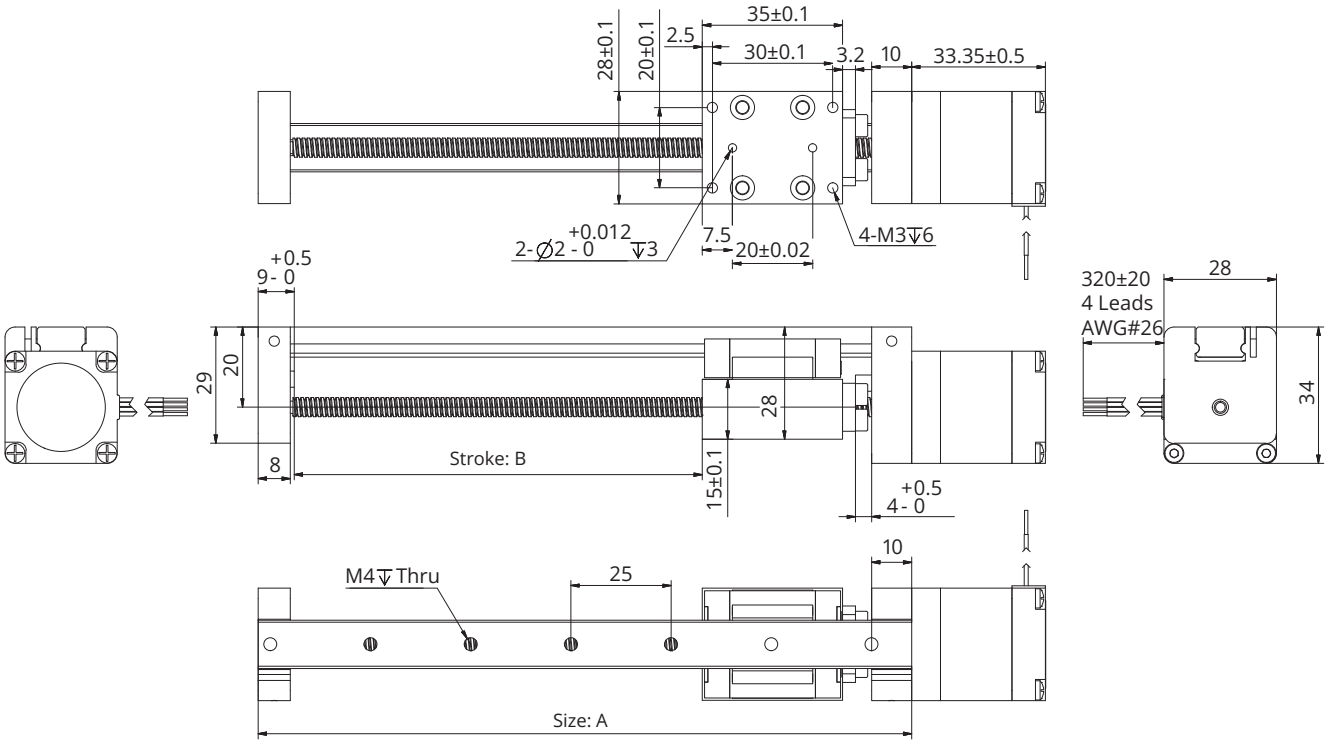
Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.188	4.77	0.0125	0.3175	AL	0.0016
0.188	4.77	0.025	0.635	A	0.003175
0.188	4.77	0.05	1.27	D	0.00635
0.188	4.77	0.0625	1.5875	F	0.0079
0.188	4.77	0.1	2.54	K	0.0127
0.188	4.77	0.192	4.8768	Q	0.0244
0.188	4.77	0.2	5.08	R	0.0254
0.188	4.77	0.4	10.16	X	0.0508

Mechanical Specifications

Model	C100B(dyn)(N)	Co(stat)(N)	Mro(Nm)	Mpo(Nm)	Myo(Nm)
DSM 28	2128	2702	16.541	8.799	8.799

28mm DSM

Dimensional Drawings



* Note: Stroke length can be customized within the maximum travel range.

Available Stroke Selection

Size A (mm)	Stroke B (mm)	Weight (kg)	
		Single stack	Double stack
83	20	0.286	0.342
103	40	0.300	0.356
123	60	0.315	0.371
143	80	0.329	0.385
163	100	0.344	0.400

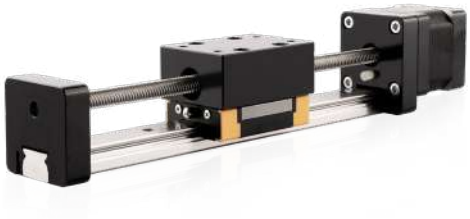
* Weight values are for reference only and may vary with actual configuration.

Note : All drawings are 1st-angle projection - ISO Compliant (3D models available)

35mm DSM

Based on DINGS' high-precision lead screw linear actuator platform and self-developed compact linear module structure, the DSM 35mm series provides compact, reliable, and high-precision linear motion solutions.

The DSM 35mm series offers a wide range of stroke and lead options with extensive customization capabilities, enabling integrated customized solutions for various applications.



Motor Characteristics

Motor	Voltage (V)	Current (A [RMS])	Resistance (Ω)	Inductance (mH)	Lead wires	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

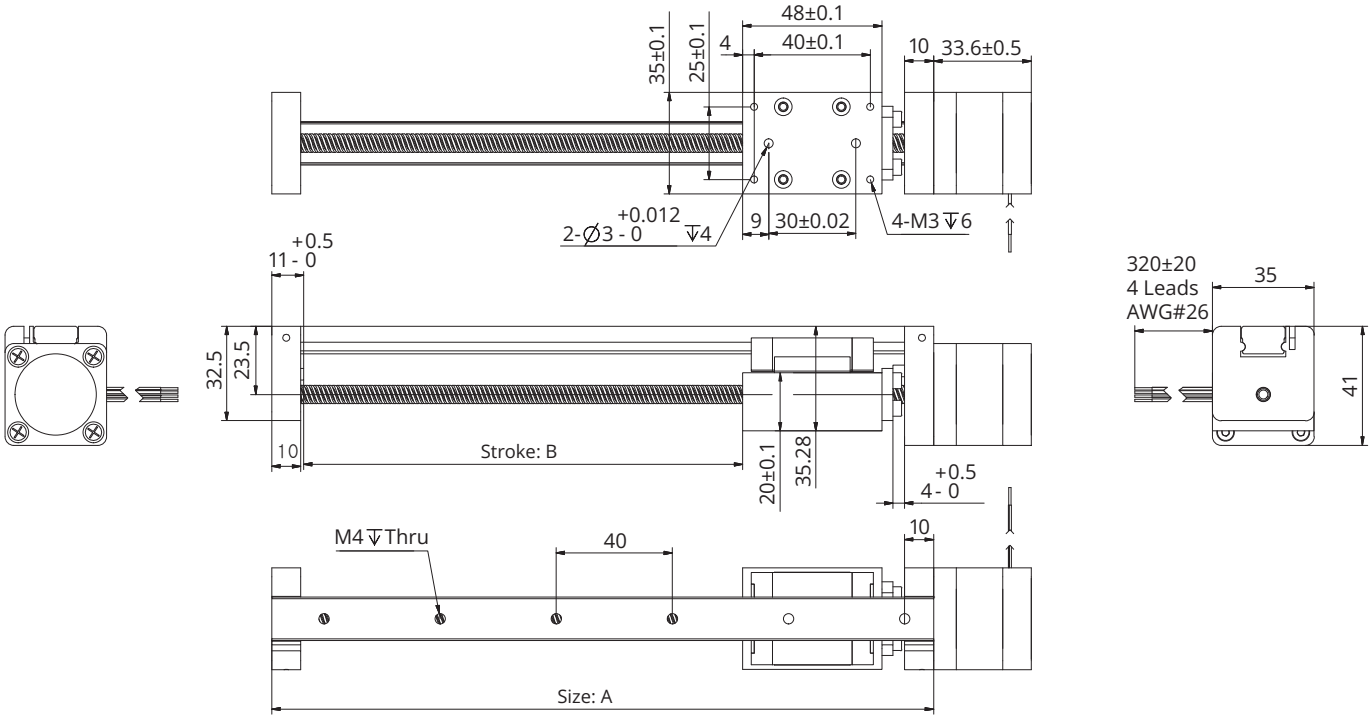
Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.25	6.35	0.024	0.6096	AA	0.003048
0.25	6.35	0.0394	1	AB	0.005
0.25	6.35	0.048	1.2192	B	0.006096
0.25	6.35	0.05	1.27	D	0.00635
0.25	6.35	0.0625	1.5875	F	0.0079
0.25	6.35	0.096	2.4384	J	0.0122
0.25	6.35	0.1	2.54	K	0.0127
0.25	6.35	0.125	3.175	L	0.0159
0.25	6.35	0.192	4.8768	Q	0.024
0.25	6.35	0.2	5.08	R	0.0254
0.25	6.35	0.25	6.35	S	0.0318
0.25	6.35	0.333	8.4667	U	0.0423
0.25	6.35	0.384	9.7536	W	0.0488
0.25	6.35	0.5	12.7	Y	0.0635
0.25	6.35	1	25.4	Z	0.127
0.315	8	0.1575	4	M	0.02
0.315	8	0.315	8	T	0.04
0.315	8	0.0787	2	G	0.01
0.315	8	0.3937	10	C	0.05

35mm DSM

Mechanical Specifications

Model	C100B(dyn)(N)	Co(stat)(N)	Mro(Nm)	Mpo(Nm)	Myo(Nm)
DSM 35	2989	3990	31.535	16.135	16.135

Dimensional Drawings



* Note: Stroke length can be customized within the maximum travel range.

Available Stroke Selection

Size A (mm)	Stroke B (mm)	Weight (kg)	
		Single stack	Double stack
98	20	0.465	0.486
118	40	0.481	0.502
138	60	0.498	0.519
158	80	0.514	0.535
178	100	0.530	0.551
228	150	0.589	0.610

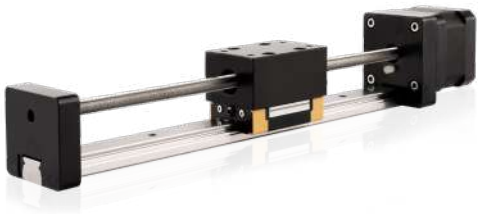
* Weight values are for reference only and may vary with actual configuration.

Note : All drawings are 1st-angle projection - ISO Compliant (3D models available)

42mm DSM

Based on DINGS' high-precision lead screw linear actuator platform and self-developed compact linear module structure, the DSM 42mm series provides compact, reliable, and high-precision linear motion solutions.

The DSM 42mm series offers a wide range of stroke and lead options with extensive customization capabilities, enabling integrated customized solutions for various applications.



Motor Characteristics

Motor	Voltage (V)	Current (A [RMS])	Resistance (Ω)	Inductance (mH)	Lead wires	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

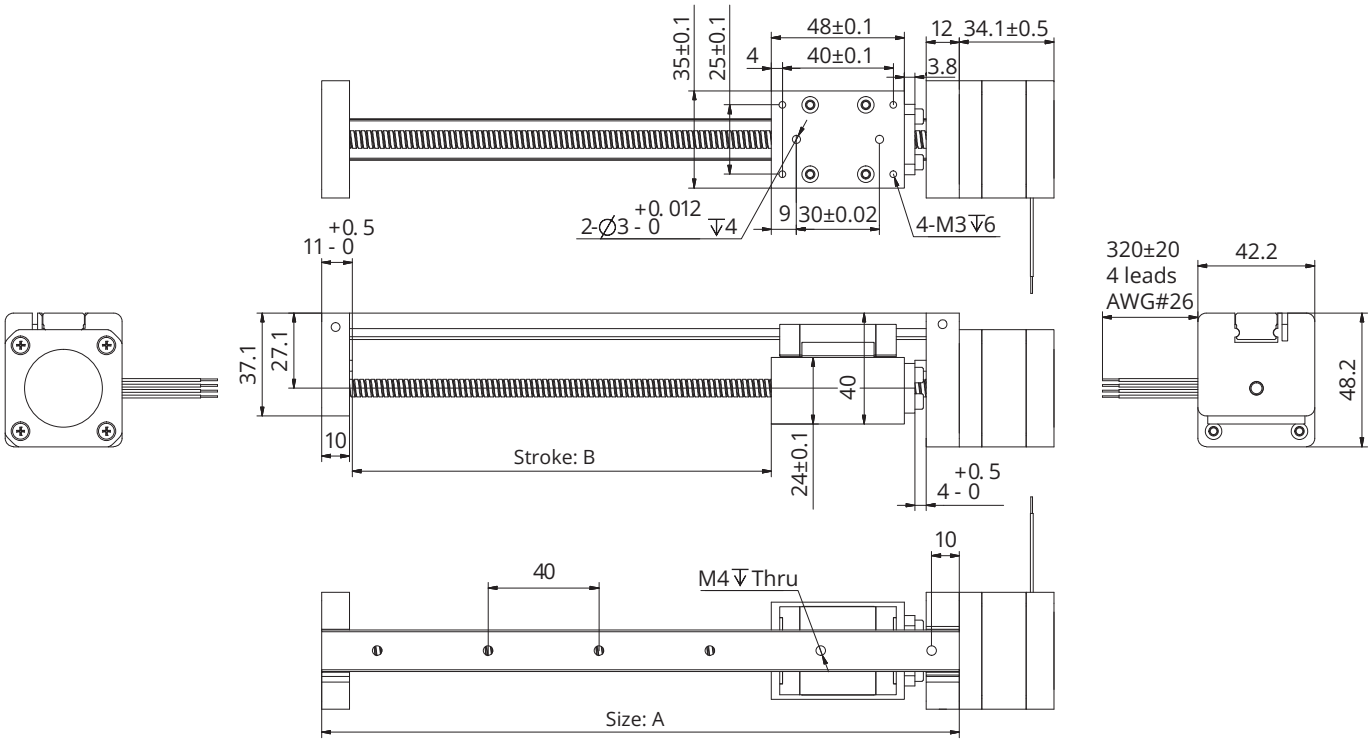
Screw Dia. (inch)	Screw Dia. (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step @1.8° (mm)*
0.25	6.35	0.024	0.6096	AA	0.003048
0.25	6.35	0.0394	1	AB	0.005
0.25	6.35	0.048	1.2192	B	0.006096
0.25	6.35	0.05	1.27	D	0.00635
0.25	6.35	0.0625	1.5875	F	0.0079
0.25	6.35	0.096	2.4384	J	0.0122
0.25	6.35	0.1	2.54	K	0.0127
0.25	6.35	0.125	3.175	L	0.0159
0.25	6.35	0.192	4.8768	Q	0.024
0.25	6.35	0.2	5.08	R	0.0254
0.25	6.35	0.25	6.35	S	0.0318
0.25	6.35	0.333	8.4667	U	0.0423
0.25	6.35	0.384	9.7536	W	0.0488
0.25	6.35	0.5	12.7	Y	0.0635
0.25	6.35	1	25.4	Z	0.127
0.315	8	0.1575	4	M	0.02
0.315	8	0.315	8	T	0.04
0.315	8	0.0787	2	G	0.01
0.315	8	0.3937	10	C	0.05

42mm DSM

Mechanical Specifications

Model	C100B(dyn)(N)	Co(stat)(N)	Mro(Nm)	Mpo(Nm)	Myo(Nm)
DSM 42	2989	3990	31.535	16.135	16.135

Dimensional Drawings



* Note: Stroke length can be customized within the maximum travel range.

Available Stroke Selection

Size A (mm)	Stroke B (mm)	Weight (kg)	
		Single stack	Double stack
100	20	0.628	0.760
120	40	0.653	0.785
140	60	0.678	0.810
160	80	0.702	0.834
180	100	0.727	0.859
230	150	0.788	0.920

* Weight values are for reference only and may vary with actual configuration.

Note : All drawings are 1st-angle projection - ISO Compliant (3D models available)

DINGS'
Precision Motion Specialist

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