DINGS'

Precision Motion Specialist

CORELESS PUSH ROD ACTUATOR

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

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

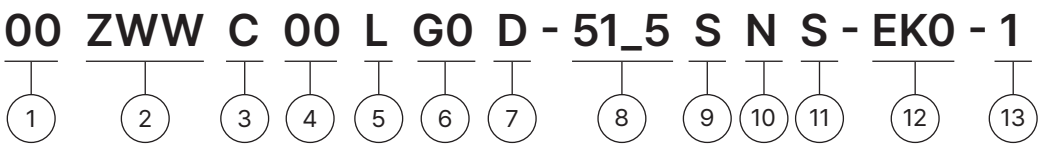
DINGS' is committed to quality, reliability, and responsibility
— delivering high-performance motion solutions built on precision engineering.

Content

CORELESS PUSH ROD ACTUATOR

Part number construction	4
8 mm	5
10 mm	6
12 mm	7
16 mm	8
22 mm	9

Part Number Construction



① Motor Size

Motor Size (mm)	8	10	12	16	22

② Product Name

ZWW = Coreless Brushless DC Motor

③ Motor Shape

C = Circular Type

④ Motor Length

Unit : mm

When the length involves decimal points, use "_" instead

⑤ Motor Casing

L = Aluminum

T = Stainless steel / Iron

⑥ Gear Ratio

00 = Gear Ratio

⑦ Lead Screw Code

Please refer to lead screw code selection table

⑧ Effective Stroke Length

⑨ Screw Surface Treatment

S = Standard (No teflon coating)

⑩ End Machining

C = Customize

N = None

⑪ Nut Style

S = Standard flange nut

⑫ Encoder

0 = Resolution

⑬ Customer Serial Number

Example

Part Number	10ZWWC25L-G18AB-16SNS-EK1024-001
Description	Motor diameter 10 mm Coreless Brushless DC Motor Motor length 25 mm Stainless steel housing Gear ratio 1:18 AB lead Effective stroke 16 mm Customization: None Encoder resolution: 1024 Custom serial number: 001

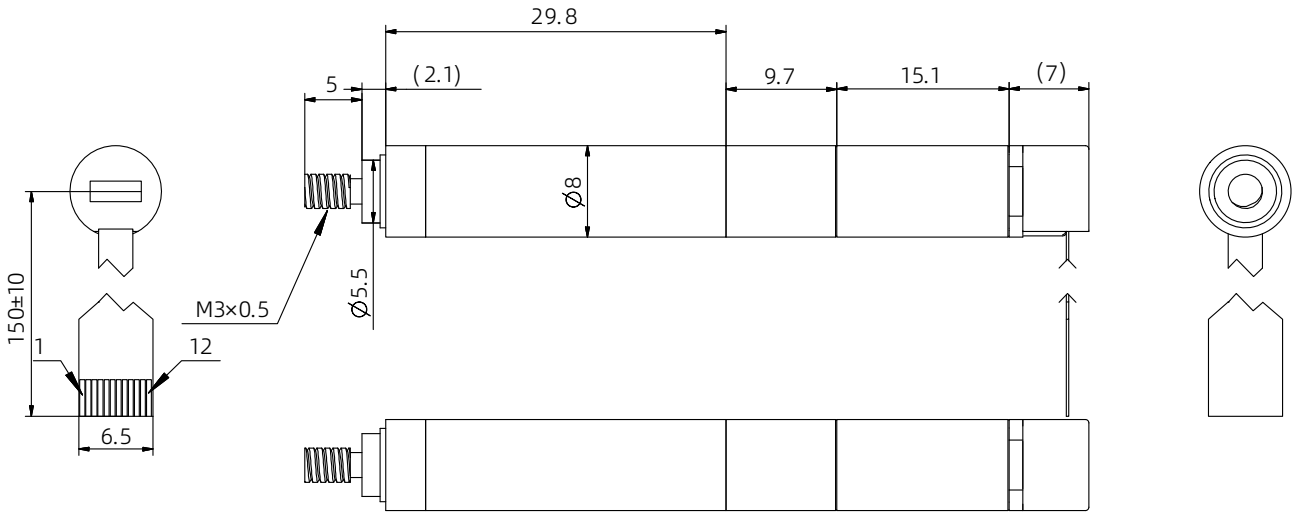
8mm Series

Motor Characteristics

Motor part number		8ZWWC15L
Motor size	mm	8
Rated voltage	V	12
Rated current	A	0.085
Lead screw pitch	mm	0.5
Standard stroke (customizable)	mm	15
Maximum stroke	mm	25
Maximum speed	mm/s	3.58
Rated thrust	N	25
Peak thrust (short-time)	N	50
Gear ratio	-	4, 16
Weight	g	15.7
Overall dimensions	mm	Φ8 × 68.7
Operating temperature	°C	−20 ~ +50
Repeatability	mm	±0.08
Encoder type	-	Encoder

*Ø8 model is available with two motor options: Cored Brushed DC and Cored Brushless DC.

Dimensional Drawings



For customized options, please contact DINGS' or your local distributor

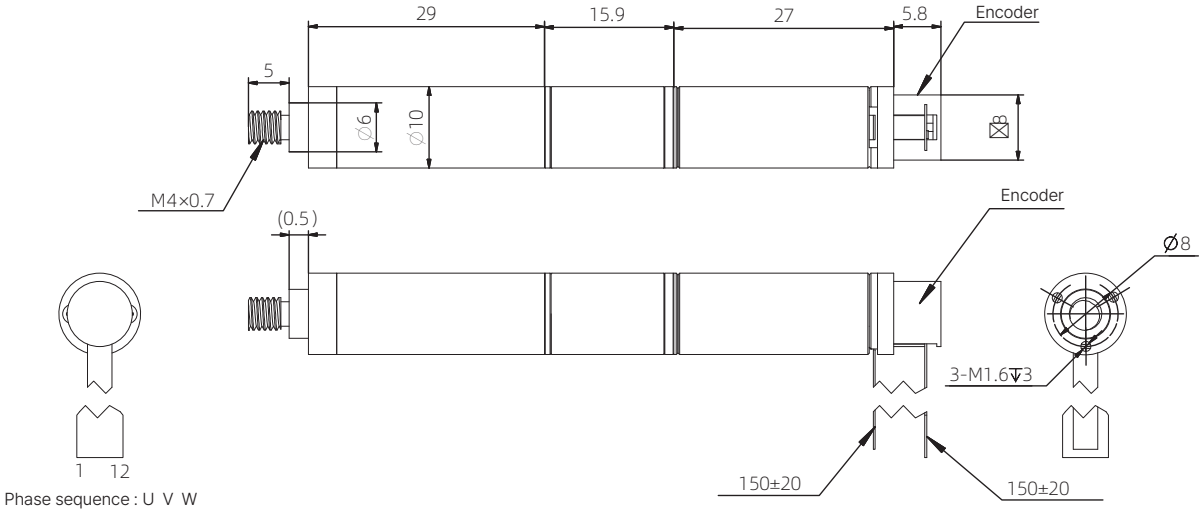
10mm Series

Motor Characteristics

Motor part number		10ZWWC27L
Motor size	mm	10
Rated voltage	V	12
Rated current	A	0.8
Lead screw pitch	mm	1
Standard stroke (customizable)	mm	15
Maximum stroke	mm	25
Maximum speed	mm/s	28
Rated thrust	N	80
Peak thrust (short-time)	N	160
Gear ratio	-	4.25, 18
Weight	g	31.9
Overall dimensions	mm	Φ10 × 83.2
Operating temperature	℃	−20 ~ +50
Repeatability	mm	±0.08
Encoder type	-	Incremental magnetic encoder
Number of channels	-	3
Encoder supply voltage	V	3.3
Resolution	-	1024

The above data is based on a gear ratio of 18:1

Dimensional Drawings



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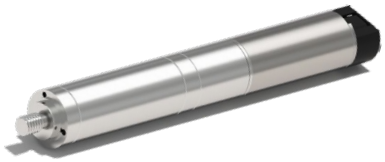
12mm Series

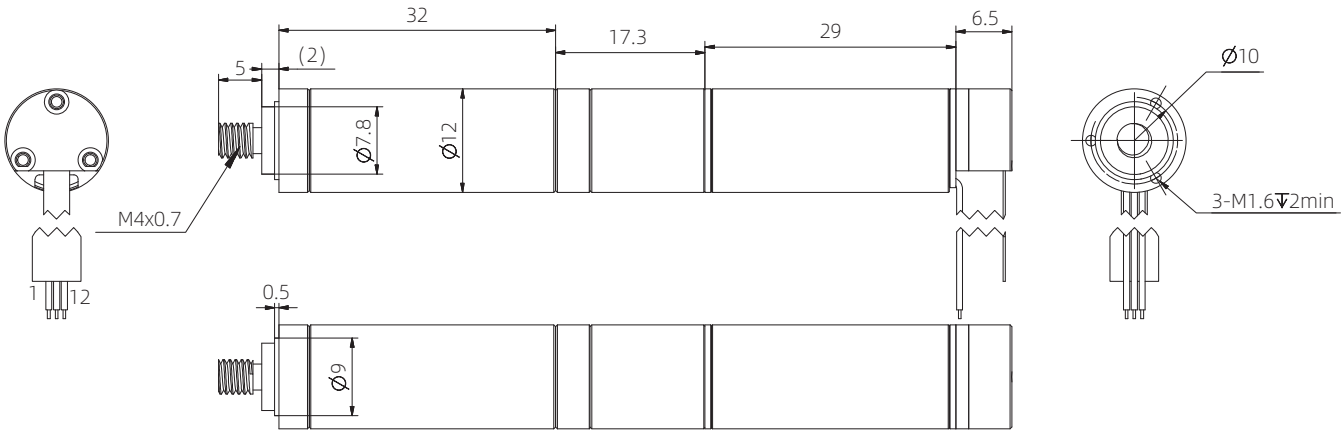


Motor Characteristics

Motor part number		12ZWWC29L
Motor size	mm	12
Rated voltage	V	12
Rated current	A	0.65
Lead screw pitch	mm	1.27
Standard stroke (customizable)	mm	20
Maximum stroke	mm	30
Maximum speed	mm/s	14
Rated thrust	N	85
Peak thrust (short-time)	N	170
Gear ratio	-	4.25, 18
Weight	g	51.3
Overall dimensions	mm	Φ12 × 91.8
Operating temperature	℃	−20 ~ +50
Repeatability	mm	±0.08
Encoder type	-	Incremental magnetic encoder
Number of channels	-	3
Encoder supply voltage	V	3.3
Resolution	-	1024

The above data is based on a gear ratio of 18:1

Dimensional Drawings



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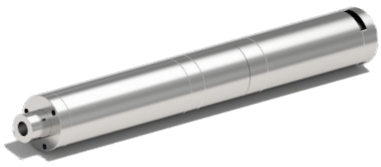
16mm Series

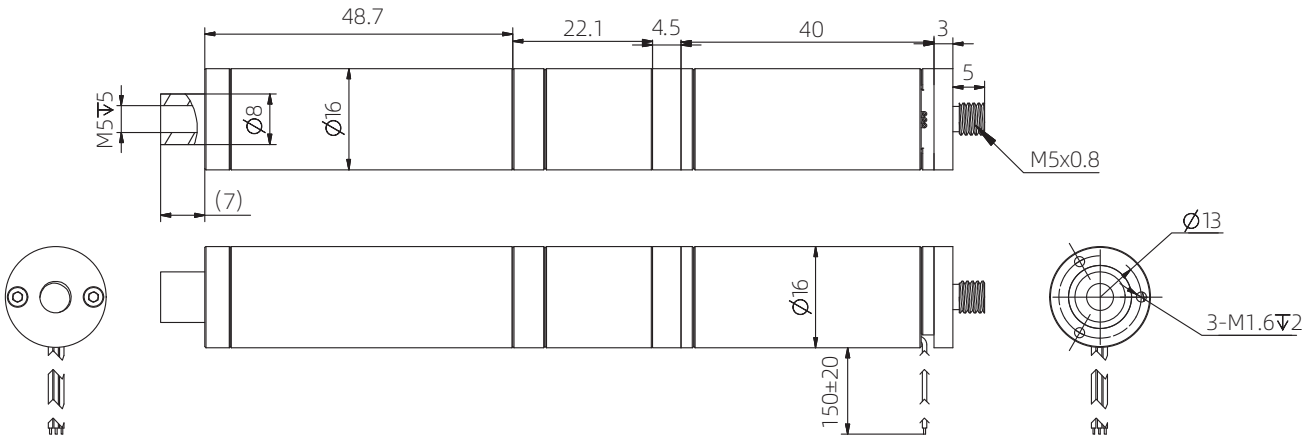


Motor Characteristics

Motor part number		16ZWWC40L
Motor size	mm	16
Rated voltage	V	12
Rated current	A	2.6
Lead screw pitch	mm	1.27
Standard stroke (customizable)	mm	30
Maximum stroke	mm	40
Maximum speed	mm/s	20
Rated thrust	N	200
Peak thrust (short-time)	N	400
Gear ratio	-	5.3, 28
Weight	g	131.4
Overall dimensions	mm	Φ16 × 131.3
Operating temperature	℃	−20 ~ +50
Repeatability	mm	±0.08
Encoder type	-	Incremental magnetic encoder
Number of channels	-	3
Encoder supply voltage	V	5
Resolution	-	1024

The above data is based on a gear ratio of 18:1

Dimensional Drawings



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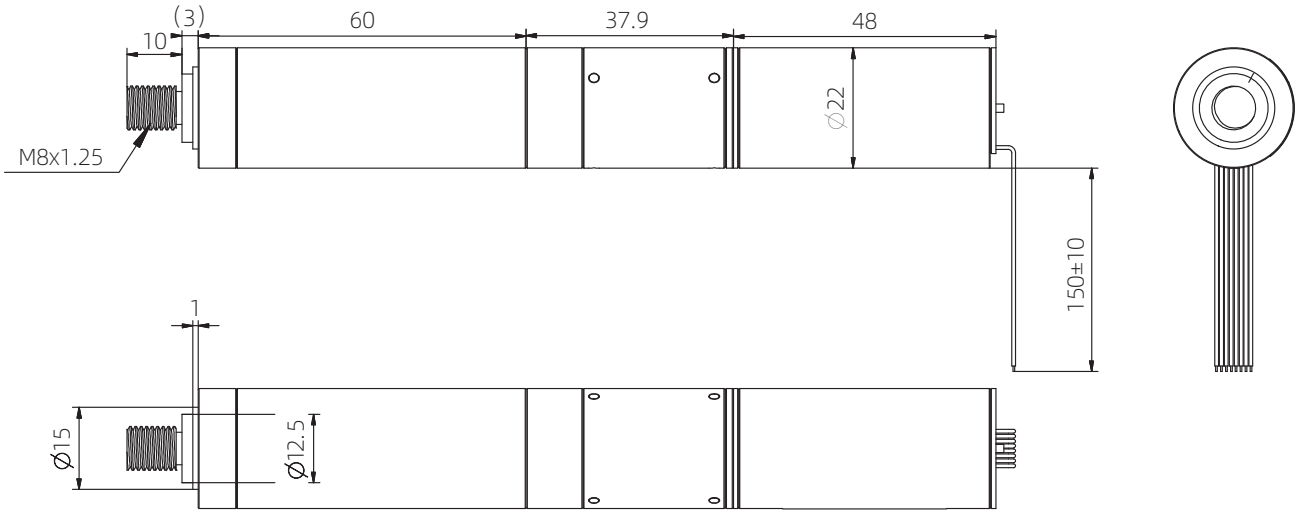
22mm Series

Motor Characteristics

Motor part number		22ZWWC48L
Motor size	mm	22
Rated voltage	V	24
Rated current	A	1.1
Lead screw pitch	mm	1
Standard stroke (customizable)	mm	40
Maximum stroke	mm	50
Maximum speed	mm/s	5
Rated thrust	N	750
Peak thrust (short-time)	N	1500
Gear ratio	-	5.3, 26
Weight	g	318
Overall dimensions	mm	Φ22 × 168.9
Operating temperature	°C	−20 ~ +50
Repeatability	mm	±0.08
Encoder type	-	Incremental magnetic encoder
Number of channels	-	3
Encoder supply voltage	V	5
Resolution	-	1024

The above data is based on a gear ratio of 18:1

Dimensional Drawings



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DINGS'
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