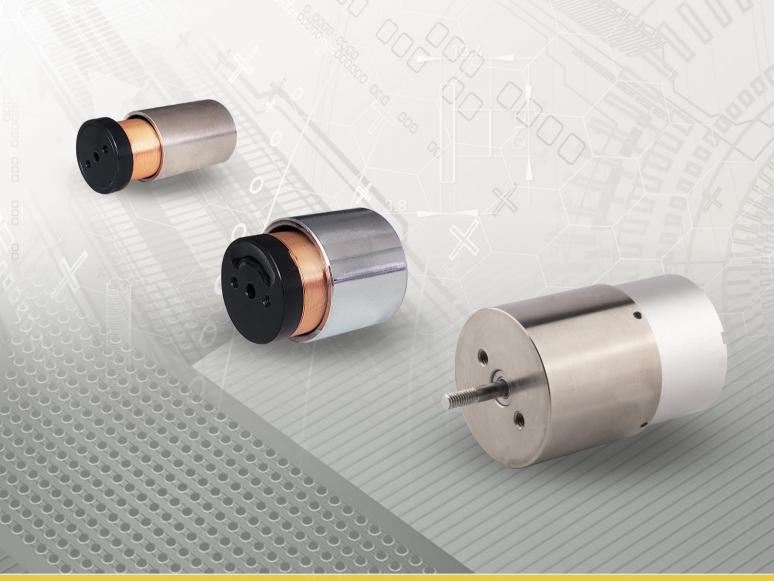


VOICE COIL MOTOR / ACTUATOR PRODUCT CATALOG





DINGS' offers wide range of sizes for VCM (Voice Coil Motor) series & VCA (Voice Coil Actuator) from smaller to bigger diameter of dimensional motors.

Based on fixed diameter sizes, DINGS' can customize different stroke compare to other competitors, DINGS' does not fix standard stroke but according to customer's different requirements, DINGS' is freely to customize stroke.

DINGS' provides very low backlash but fast response of voice coil motors with specialized drivers. Also if customer wants, DINGS' is also able to provide linear scale for accurate positioning and feedback.

For more details, please contact DINGS' or local representatives.





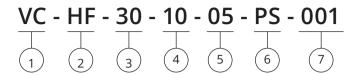
CONTENTS

Part number construction
12.7 mm voice coil motor
13.2 mm voice coil actuator
25.4 mm voice coil motor
30 mm voice coil motor
38 mm voice coil motor
40 mm voice coil actuator
45 mm voice coil motor
60 mm voice coil motor





Part Number Construction



1 Motor Type

VC = Voice Coil Motor

(2) Force Version

None = Standard Series

HF = High Force Series

(3) Frame Size

30 = 30 mm

(4) Stroke

10 = 10mm Stroke

(For custom stroke sizes, please contact DINGS')

(5) Continuous Force

05 = 5N Continuous Force

(For continuous force, refer to the thrust curve. For custom force requirements, please contact DINGS')

(6) Position Sensor

None = No position sensor

PS = With position sensor

(7) Customer Sequence Number

External dimensions, mounting dimensions, and appearance can be customized as required.

Example

Part Number VC-30-15-4.63

Description 30 mm Frame Size

15 mm Stroke

4.63 N Continuous Force



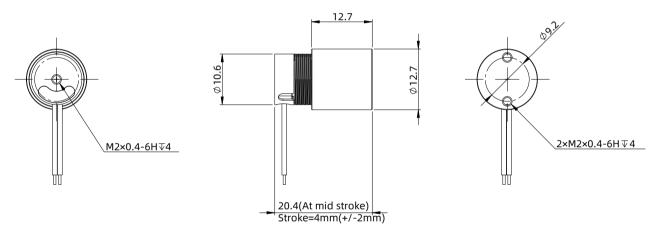


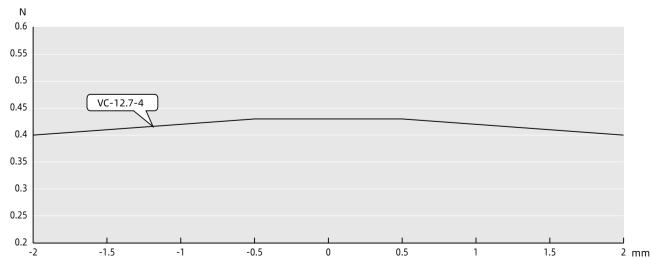
Standard type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
12.7	4	0.4	0.4	1	3.2	0.4	1.3	0.1	0.38	100	3	7.8

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



13.2mm Voice Coil Actuator

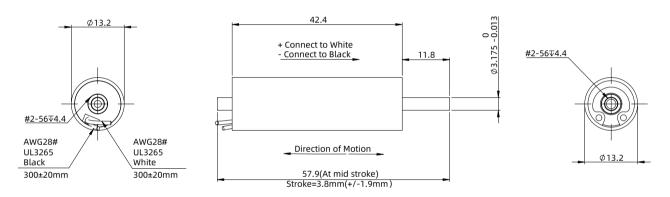


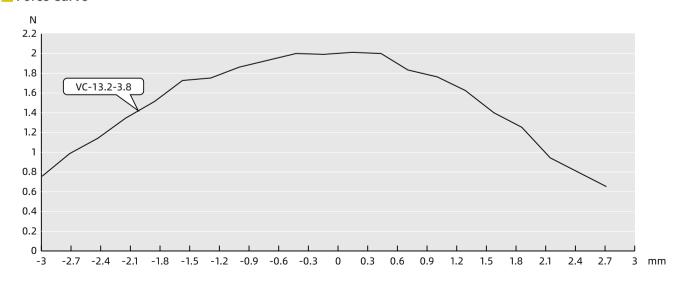
High-Force type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
13.2	3.8	3.2	2.2	0.7	6.7	3.2	3.5	0.25	0.4	100	12	49

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



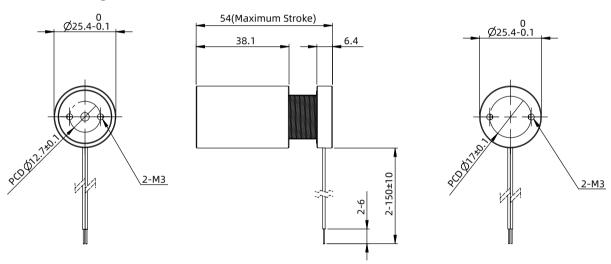


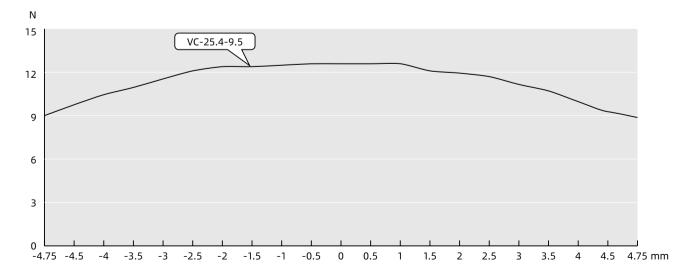
Standard type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
25.4	9.5	9	11	1.25	31	9	6.9	2	0.38	100	33	102

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.

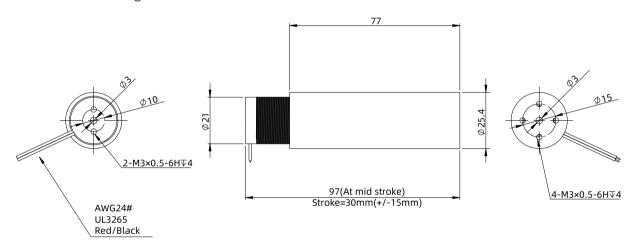


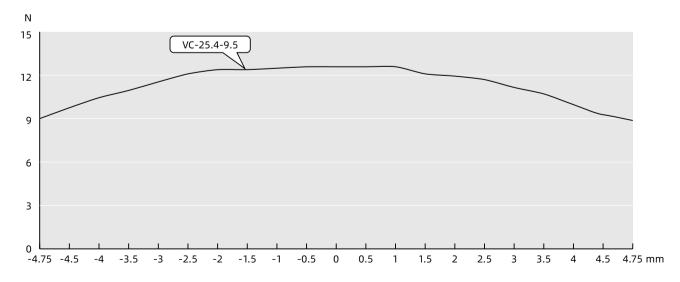
High-Force type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
25.4	30	6	6	1	55	6	17.4	5.04	0.5	100	59	225

■ Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.





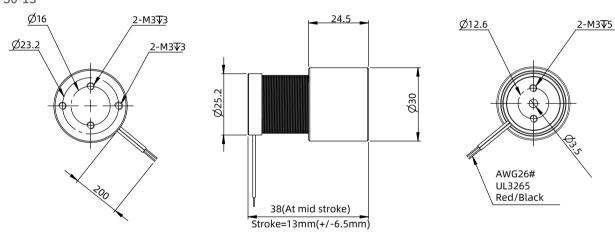
Standard type

Motor Characteristics

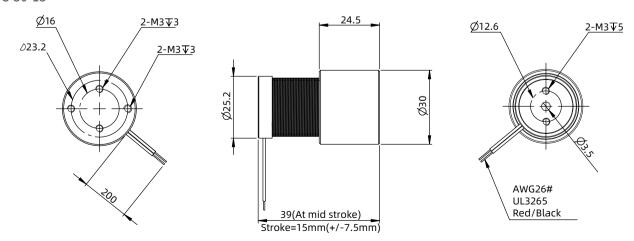
Moto	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
30	13	7.35	4.63	0.63	29.4	7.35	11.34	2.63	0.6	100	25	96
30	15	7.35	4.63	0.63	29.4	7.35	11.35	2.63	0.6	100	25	96

Dimensional Drawings

VC-30-13



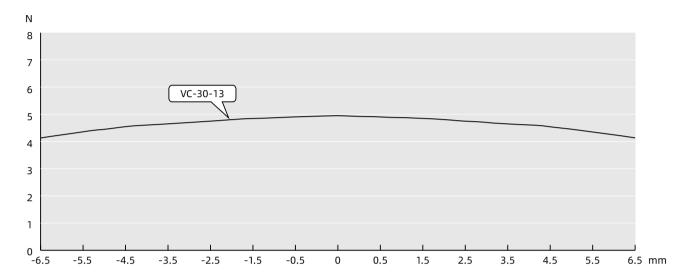
VC-30-15



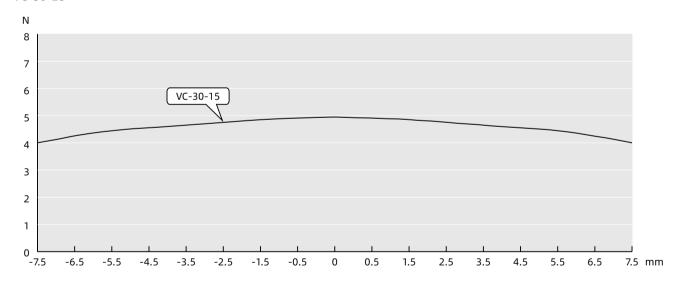


Force Curve

VC-30-13



VC-30-15



^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



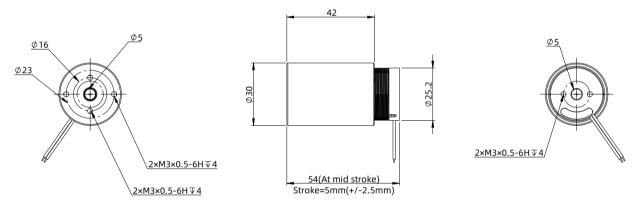
High-Force type

Motor Characteristics

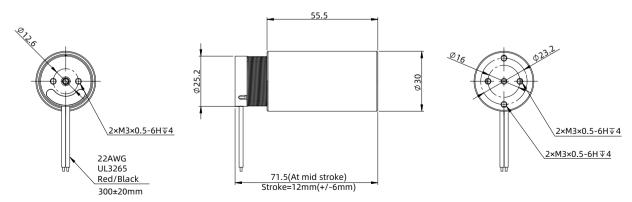
Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
30	5	11.87	9.5	0.8	65	11.87	10.15	2.24	0.5	100	41	158
30	12	9.12	13	1.5	80	9.12	5.21	1.9	0.5	100	64	190

Dimensional Drawings

VCHF-30-5



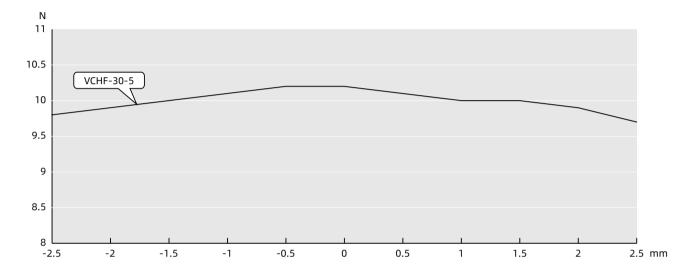
VCHF-30-12



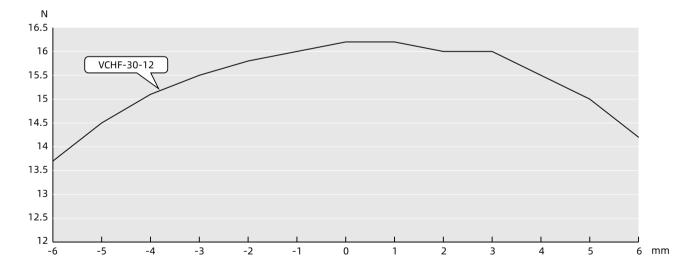


Force Curve

VCHF-30-5



VCHF-30-12



^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



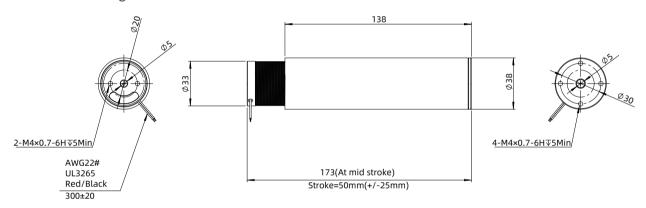


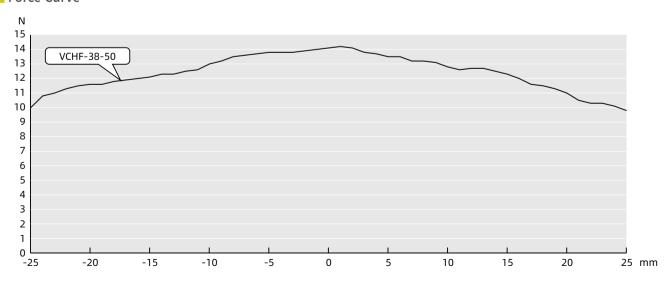
High-Force type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
38	50	10.1	10	1	78	10.1	10.93	5.21	0.5	100	252	707.3

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



40mm Voice Coil Actuator

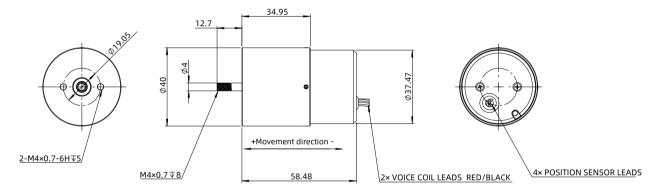


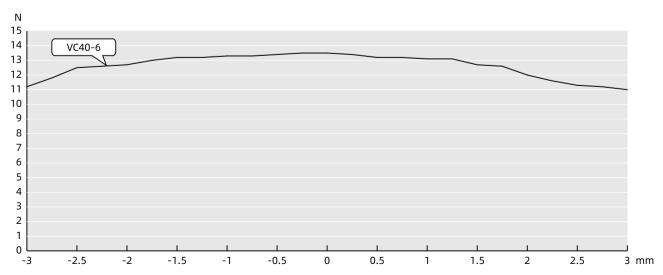
Standard type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)	
40	6	11	11	1	40	11	5	1.32	0.5	100	48	244	

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



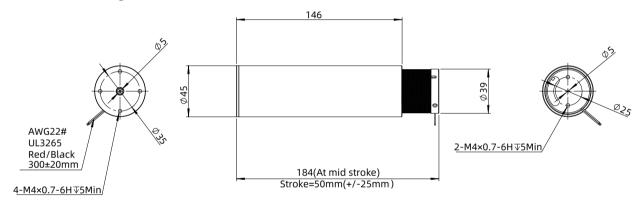


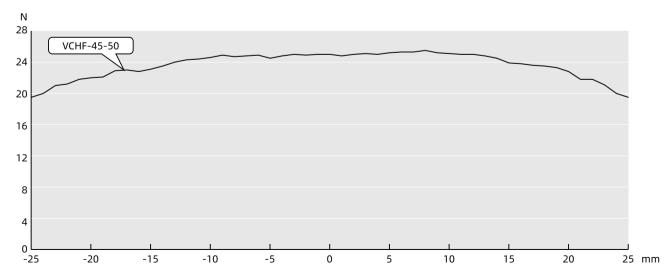
High-Force type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
45	50	19.1	19	1	120	19.1	14.03	6.45	0.5	100	324	1154

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



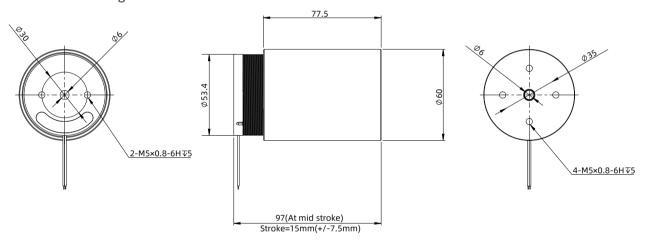


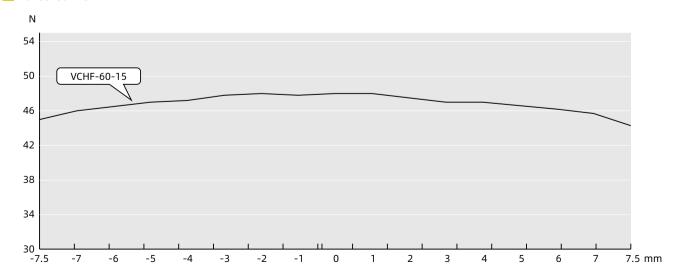
High-Force type

Motor Characteristics

Motor	Stroke (mm)	Back EMF constant (V/m/s)	Continuous force (N)	Continuous current 100°C (A)	Peak thrust force (N)	Force sensitivity (N/A) middle position	Resistance (Ω)	Inductance (mH)	Coil gap (mm)	Coil Max. temperature (°C)	Coil assembly mass (g)	Body assembly mass (g)
60	15	36.66	44	1.2	182	36.66	10.57	3.67	0.7	100	251	1183

Dimensional Drawings





^{*} This curve is the thrust curve under the rated current and the thrust is affected by the current change.



Headquarter, CHINA

Jiangsu DINGS' Intelligent Control Technology Co., LTD

No. 2850 Luheng Road, Changzhou Economic Development Zone, Jiangsu Province, China

Phone: +86-519-85177826
Fax: +86-519-85177807
E-mail: info@dingsmotion.com

www.dingsmotion.com

Shenzhen Office

Room 1105, Block C, CIMC industry demonstation park, Qiaoming Road, Guangming district, Shenzhen City

E-mail: info@dingsmotion.com

International Office

DINGS' Motion USA

355 Cochrane Circle Morgan Hill, CA 95037

Phone: +1-408-612-4970

E-mail: sales@dingsmotionusa.com

www.dingsmotionusa.com

DINGS' Motion Europe

4 Avenue du Grand Trémoutier 44120 - Vertou - France

Phone: +33-(0)6-41-37-80-07 E-mail: sebastien@dingsmotion.com

http://fr.dingsmotion.com

DINGS' KOREA Co., Ltd

C-702, 158, Haneulmaeul-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do, Republic of Korea

Phone: +82-31-994-0755 Fax: +82-70-4325-0755 E-mail: daniel@dingsmotion.com

www.dingsmotion.kr

DINGS' JAPAN

101, 2-27-18, Nishi-kojiya, Ota-ku, Tokyo 144-0034 JAPAN

Phone: +81-3-6811-1335

E-mail: tsukahara@dingsmotion.com

www.dingsmotion.com

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