

VLA SERIES

Voice Coil Linear Actuator

VLA-16-15

VLA-20-15

VLA-25-25

VLA-30-25



PRODUCT FEATURES

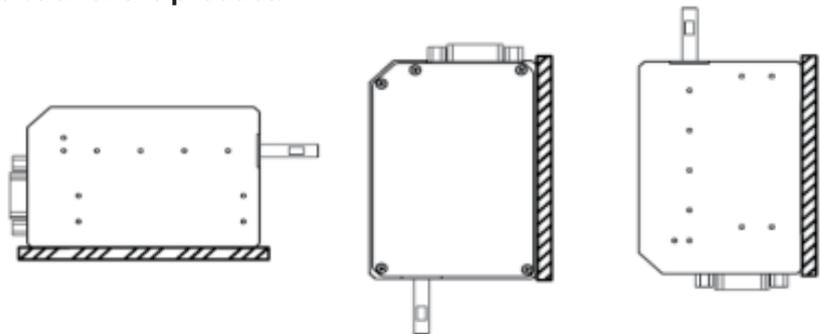
High force repeatability Soft landing	Light, thin, and easy to use Adjustable parameters	High-speed and high-frequency Long life over 100 million cycles
<p>The thrust repeatability of VLA series of products is within ± 3 g, meeting the production and assembly requirements of semiconductors, optoelectronics, and other industries for high force control accuracy.</p>	<p>The product design is compact, light and thin, and has strong maneuverability. You can adjust the speed, thrust, and position parameters and set different modes through the control software.</p>	<p>With high response-ability, high speed, and high frequency, the frequency can reach more than 30 Hz without load. The service life is up to 100 million cycles, and it is stable and durable.</p>

INSTALLATION METHOD

Install it using the screw holes on the back of the product.

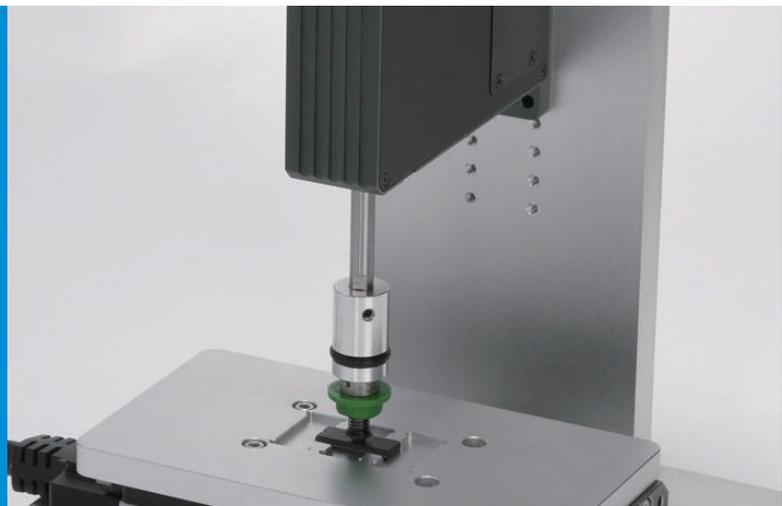
Installation directions:

- Horizontal direction
- Vertical installation with the vertical rod pointing down
- Vertical installation with the vertical rod pointing up



APPLICATION SCENARIOS

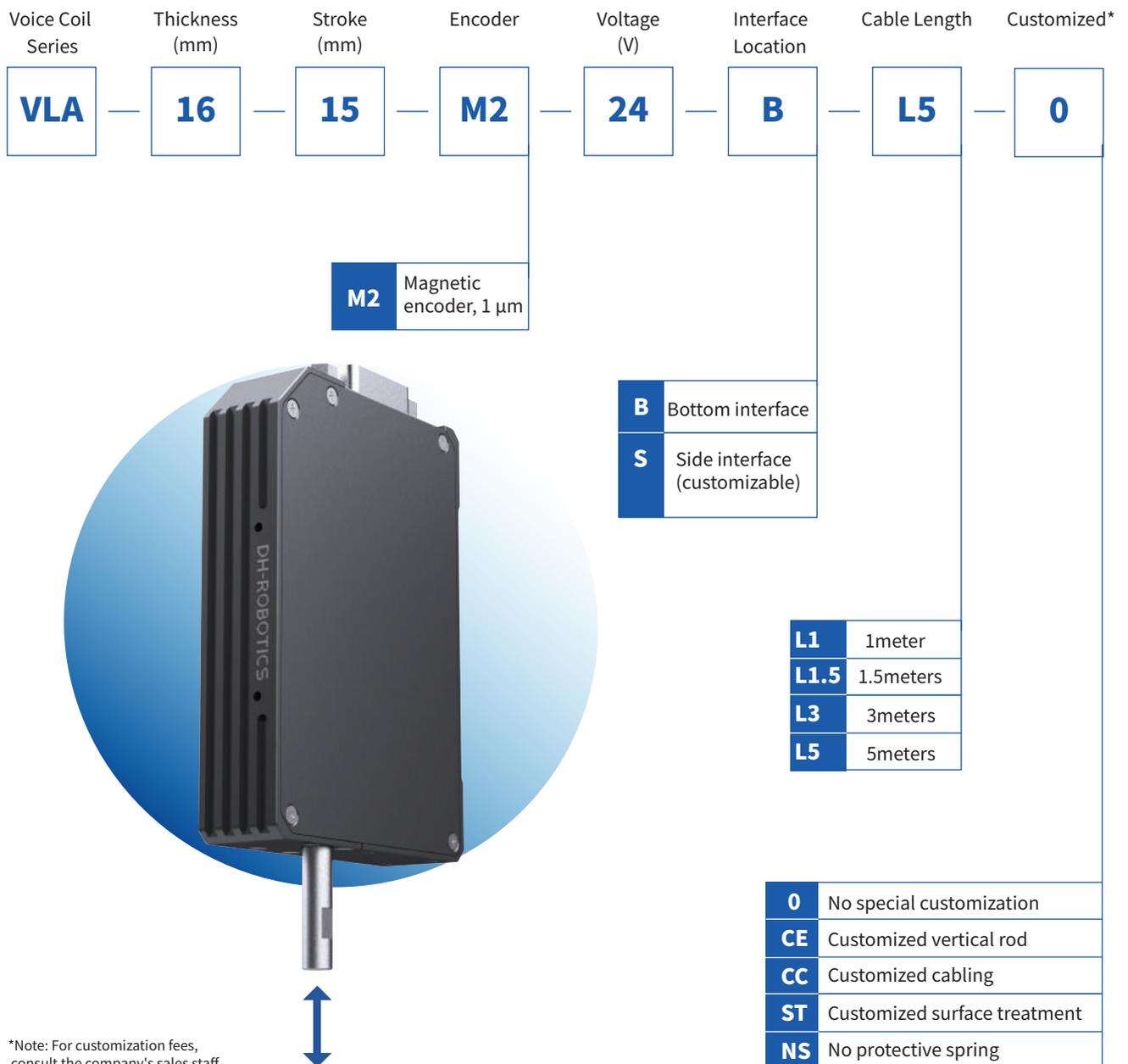
The force repeatability of ± 3 g, micron-level resolution, and ultra-high motion frequency of the VLA series help to improve the efficiency and yield rate of quick pick-and-place, assembly, testing, and other scenarios in semiconductor, 3C electronics, optoelectronics, and other industries.



VLA-16-15

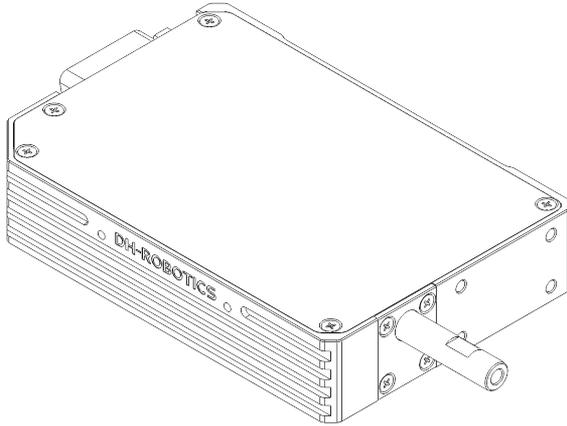
VOICE COIL LINEAR ACTUATOR

SELECTION METHOD



*Note: For customization fees, consult the company's sales staff.

TECHNICAL SPECIFICATIONS



Performance specifications

Peak thrust	6 N
Continuous thrust	3 N
Total stroke	15 mm
Force repeatability	± 3 g
Force constant	3 N/A
Linear stroke resolution	1 μ m
Positioning repeatability	± 5 μ m
No-load frequency	More than 30 Hz

Mechanical specifications

Overall mass	190 g
Movable part mass	30 g
Size	80 mm x 55 mm x 16 mm

Operating environment

Operating voltage	24 V DC $\pm 10\%$
Continuous current	1.0 A
Peak current	2.0 A
IP rating	IP 40
Recommended operating environment	0°C-40°C, 85% RH or less
International standard compliance	CE, FCC, RoHS



Intelligent feedback

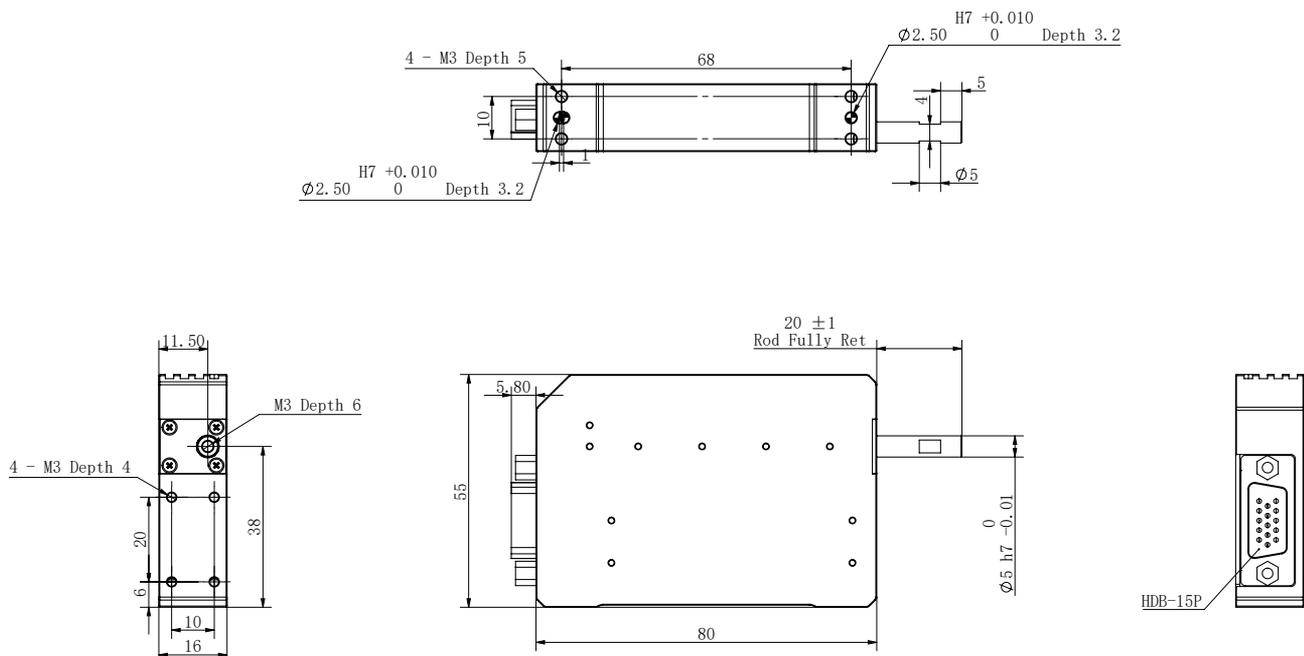


Adjustable parameters



Long life

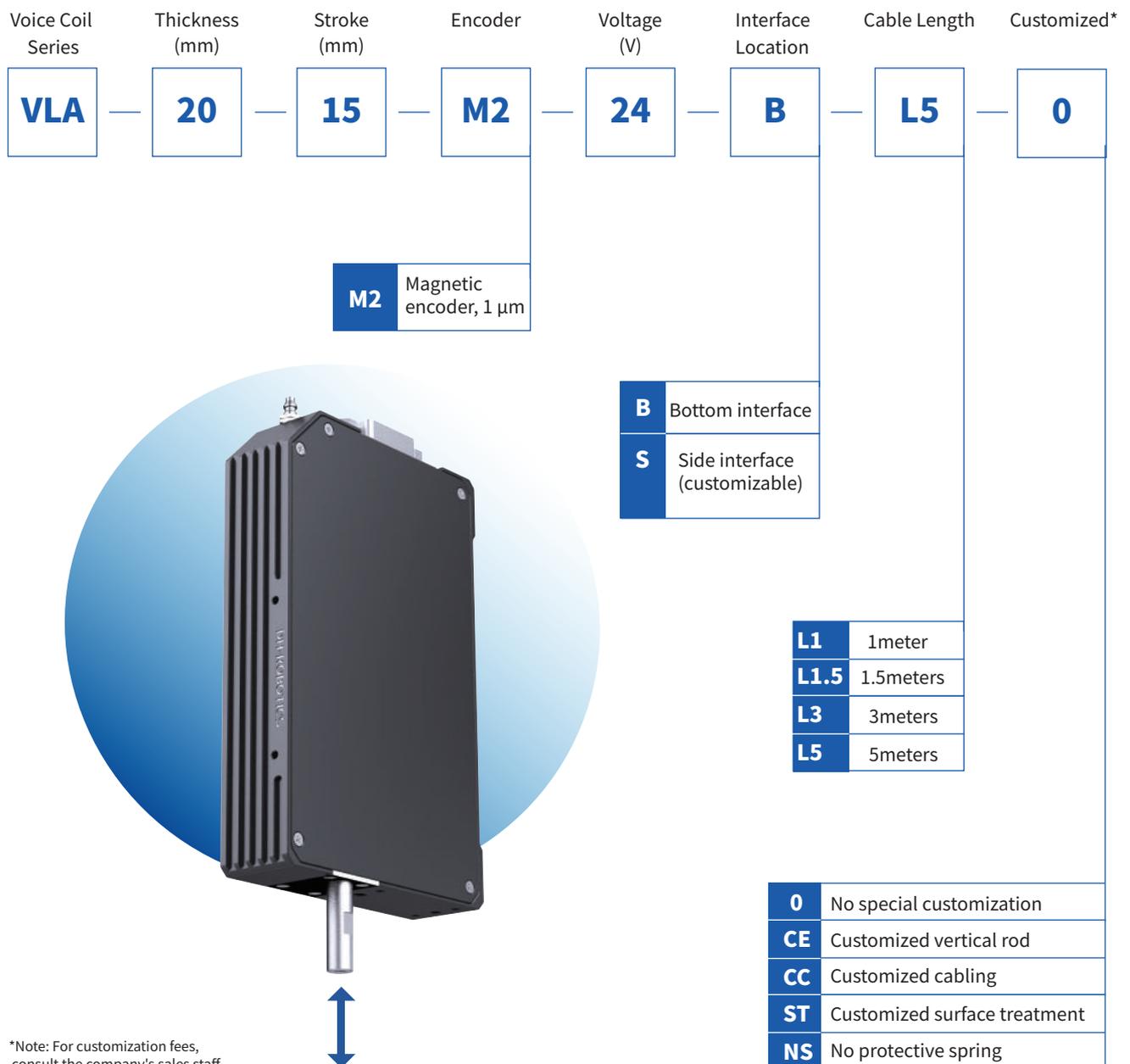
Dimensions



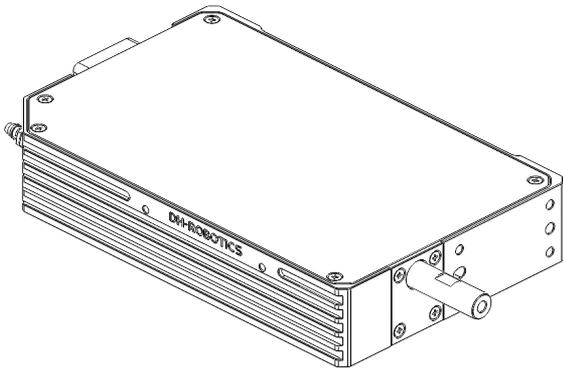
VLA-20-15

VOICE COIL LINEAR ACTUATOR

SELECTION METHOD



TECHNICAL SPECIFICATIONS



Performance specifications

Peak thrust	8.3 N
Continuous thrust	3.8 N
Total stroke	15 mm
Force repeatability	± 3 g
Force constant	3.8 N/A
Linear stroke resolution	1 μ m
Positioning repeatability	± 5 μ m
No-load frequency	More than 30 Hz

Mechanical specifications

Overall mass	404.7 g
Movable part mass	50.9 g
Size	110 mm x 70 mm x 20 mm

Operating environment

Operating voltage	24 V DC $\pm 10\%$
Continuous current	1.0 A
Peak current	2.4 A
IP rating	IP 40
Recommended operating environment	0°C-40°C, 85% RH or less
International standard compliance	CE, FCC, RoHS



Intelligent feedback

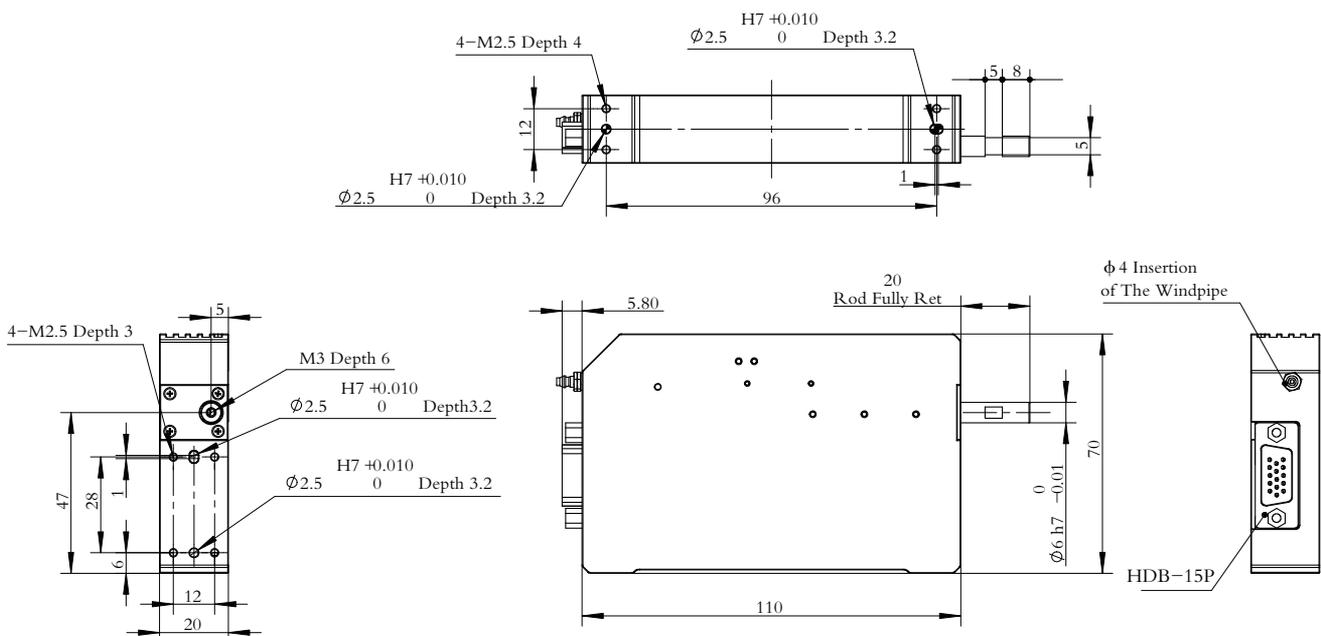


Adjustable parameters



Long life

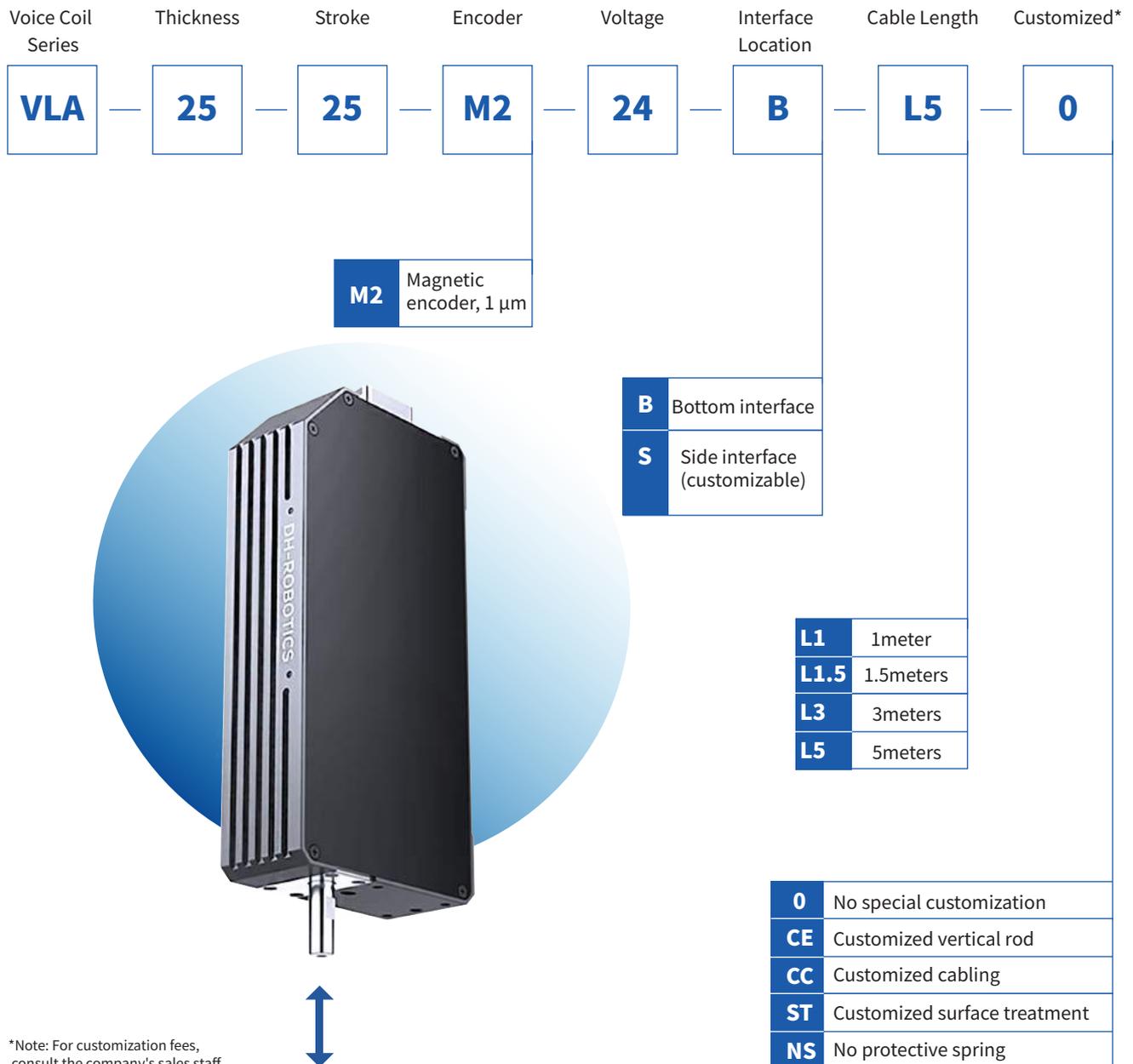
Dimensions



VLA-25-25

VOICE COIL LINEAR ACTUATOR

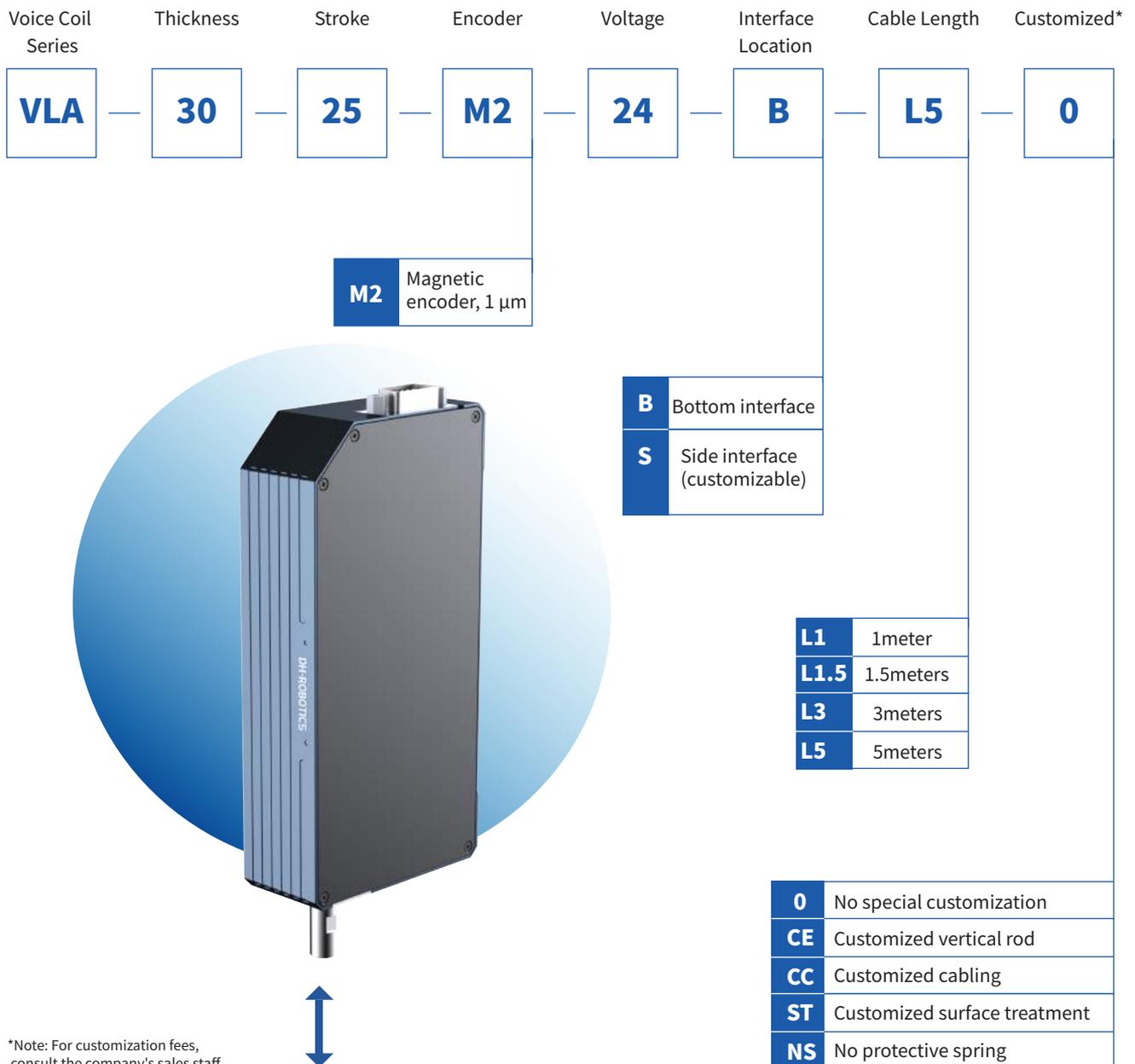
SELECTION METHOD



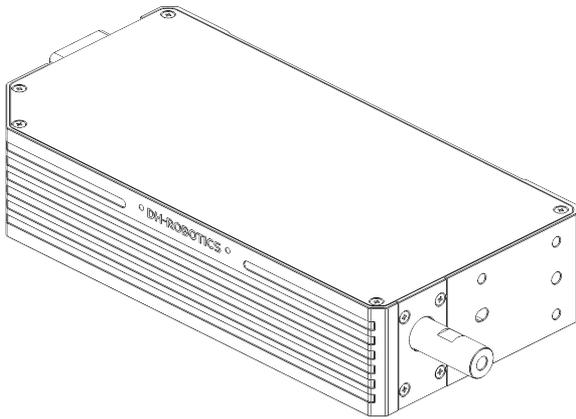
VLA-30-25

VOICE COIL LINEAR ACTUATOR

SELECTION METHOD



TECHNICAL SPECIFICATIONS



Performance specifications

Peak thrust	24 N	30 N
Continuous thrust	12 N	16 N
Total stroke	25 mm	
Force repeatability	± 3 g	
Force constant	8.0 N/A	
Linear stroke resolution	1 μ m	
Positioning repeatability	± 5 μ m	
No-load frequency	More than 30 Hz	

Mechanical specifications

Overall mass	860 g	
Movable part mass	130 g	
Size	140 mm x 70 mm x 30 mm	

Operating environment

Operating voltage	24 V DC $\pm 10\%$	48 V DC $\pm 10\%$
Continuous current	1.5 A	2 A
Peak current	3 A	4 A
IP rating	IP 40	
Recommended operating environment	0°C-40°C, 85% RH or less	
International standard compliance	CE, FCC, RoHS	

Intelligent feedback

Adjustable parameters

Long life

Dimensions

