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TECHNOLOGY GROUP

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Product Information

Pressure-resistant explosion-proof AC servo motor

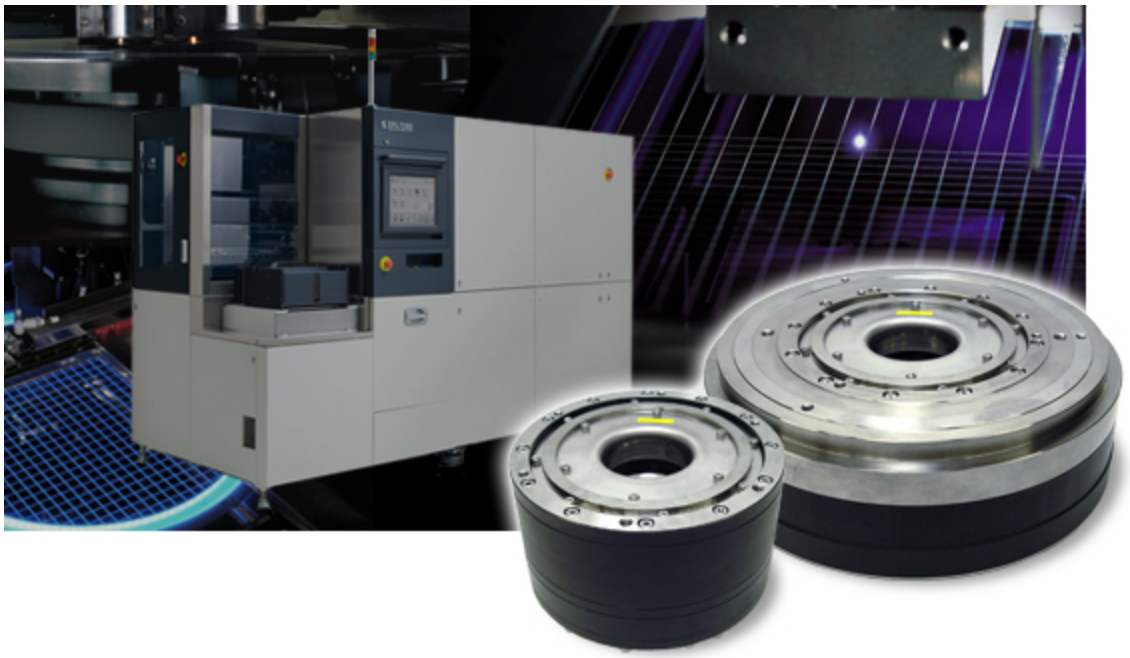
Direct drive motor

High-speed brushless motor

Direct drive motor

Equipped with ultra-high-precision positioning function.

This is a high-torque, high-precision outer rotor type direct drive motor.
It incorporates an optical encoder and features a large-diameter hollow bore for high precision and rigidity.



Equipped with the HDM200AA / HDM300AA ultra-high resolution encoder, a dramatic improvement in stopping accuracy is possible.

■ Ultra high resolution

-It employs an ultra-high-resolution laser encoder with 33.55 million pulses/revolution, achieving high-precision positioning and stopping accuracy.
-Absolute positioning accuracy: 25 seconds or less (= 0.007° or less)
-No-load stopping accuracy: within ±4 pulses (= ±0.15 seconds = ±0.000043°)

–Error data can be attached in increments of 0.2° , 1° , and 5° as an option.
*This error data can be used to correct for angular position.

■ Large hollow diameter: φ50mm

–Wiring, piping, laser light, etc., can be passed through the hollow holes, enabling energy supply and signal transmission.

■ mechanical precision

–High-precision cross rollers are employed, and the standard surface runout accuracy of the output shaft is 5μm or less.
–2μm or less is also available as an option.

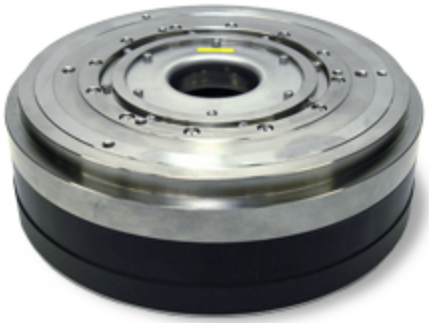
HDM200AA Specifications



Motor system	Permanent magnet type AC servo motor	
Winding method	Three-phase, three-wire Y-connection	
Rated torque (*1)	7 N·m	
Maximum torque (*1)	15 N·m	
Rated rotational speed	1sec−1 60min−1	Limitation by the number of detector pulses
Maximum rotation speed	1.16sec−1 70min−1	
Rated current	2.03Arms	
maximum current	4.35 Arms	
Motor position detector	1,048,576 × 32 (33,554,432)	
Cumulative error	25 seconds	
Output shaft runout accuracy	5μm or less (output shaft φ150 part)	
size	Inner diameter φ50, outer diameter φ160, height 95mm (details)	
weight	8.4kg	

*1: Includes bearing friction torque

HDM300AA Specifications



Motor system	Permanent magnet type AC servo motor	
Winding method	Three-phase, three-wire Y-connection	
Rated torque (*1)	20 N·m	
Maximum torque (*1)	45 N·m	
Rated rotational speed	1sec-1 60min-1	Limitation by the number of detector pulses
Maximum rotation speed	1.16sec-1 70min-1	
Rated current	2.89Arms	
maximum current	6.50 Arms	
Motor position detector	1,048,576 × 32 (33,554,432)	
Cumulative error	25 seconds	
Output shaft runout accuracy	5 μm or less (output shaft φ200 part)	
size	Inner diameter φ50, outer diameter φ250, height 95mm (details)	
weight	19.0kg	

*1: Includes bearing friction torque

We accept consultations for new designs.

Contact us here

Product Information TOP

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