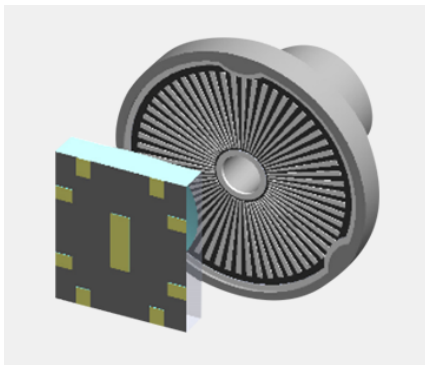


Encoder

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Very compact design encoder was made possible by designing in one body with the motor.



Magnetic encoder

Magnetic sensor detects the change of magnetic density and converts into output signals.

Optical encoder

Consists of a high precision code wheel with reflection/no reflection area patterns, and one-package sensor that includes emitter and detector. Output signals are generated according to motor rotation.

An encoder is a device that "encodes".

An encoder is a device or software that converts information into data code under a fixed rule and records or converts data written in one format to another format. This process is called 'encoding'. Examples include conversion pictorial image or moving image, and data compaction or encryption.

A motor encoder detects speed, position or angle of rotation and converts the information into digital signals, which helps with accurate positioning and speed control.

Namiki has 2 types of encoders, magnetic and optical, depending on the dynamic principles.

Encoder List

Products	Dia.[mm]	Type	Channel	Resolution [ppr]	Max Rotation Speed [rpm]	Motor Combination
EHM07-3B	7	Magnetic	3ch	64	55,000	○ CMS07 series △ BMS07 series (need modification)
ETD07-2B		Optical	2ch	64	50,000	
ETD10-2C		Optical	2ch	128	50,000	
ETD10-2D	10	Optical	2ch	256	50,000	○ CMS10 Series △ BMS10 series (need modification)
ETD10-2E		Optical	2ch	512	50,000	
EHM10-3B		Magnetic	3ch	64	55,000	
ETD12-2C	12	Optical	2ch	128	50,000	○ CMS12 series △ BMS12 series (need modification)
ETD12-2D		Optical	2ch	256	50,000	
ETD12-2E		Optical	2ch	512	50,000	
ETD16-2D		Optical	2ch	256	25,000	
ETD16-2E	16	Optical	2ch	512	25,000	○ CMS16 series △ BMS16 series (need modification)
ETD16-2F		Optical	2ch	1024	25,000	
ETD16-3D		Optical	3ch	256	25,000	
ETD16-3E		Optical	3ch	512	25,000	

Products	Dia.[mm]	Type	Channel	Resolution [ppr]	Max Rotation Speed [rpm]	Motor Combination
ETD16-3F		Optical	3ch	1024	25,000	

	optional, not standard
	under development

Please refer to " " for dimension when combined with motor and gear.