

Indexing / skewing drive system for rotating motor core

# ***Servo-dex EVR Series***



The Servo-dex EVR series is an indexing or skewing drive system for rotating the motor core for production lines making motor cores for hybrid, PHEV, and EV car motors.

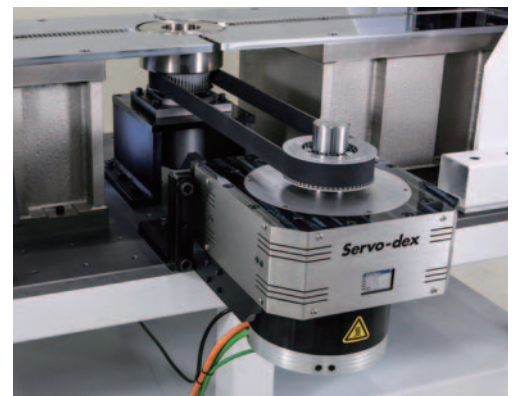
By connecting a high-performance servo motor directly to the motor core, it can index core stacks with high-speed and high-torque, while allowing you to set the rotation angle freely.

Through the combination of a servo motor and cam curves, production of high-quality motor cores can be improved.

**Servo-controlled rotating-core building device is an improvement from the previous mechanical rotating-core building device. Any angle of rotation can be set freely.**

## **Features**

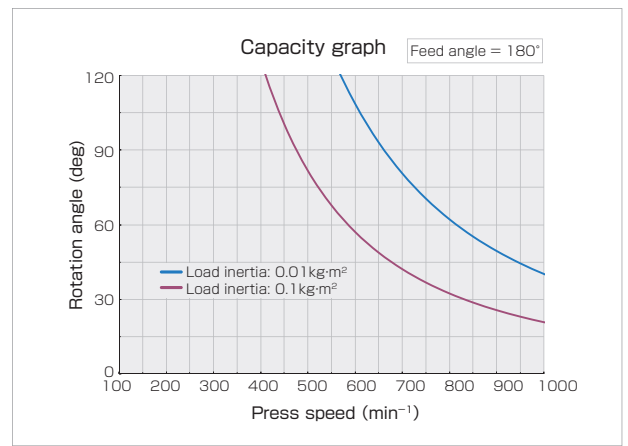
- World-class performance using a high-performance motor
- Outstanding reliability due to our original vibration damping design
- It also supports arbitrary rotation angle settings, and skew processing of the motor core
- Built in preventive maintenance and diagnostic functions to support IoT compatibility
- The combination of a servo driven feeder and a servodex device results in maximum motor core line optimization



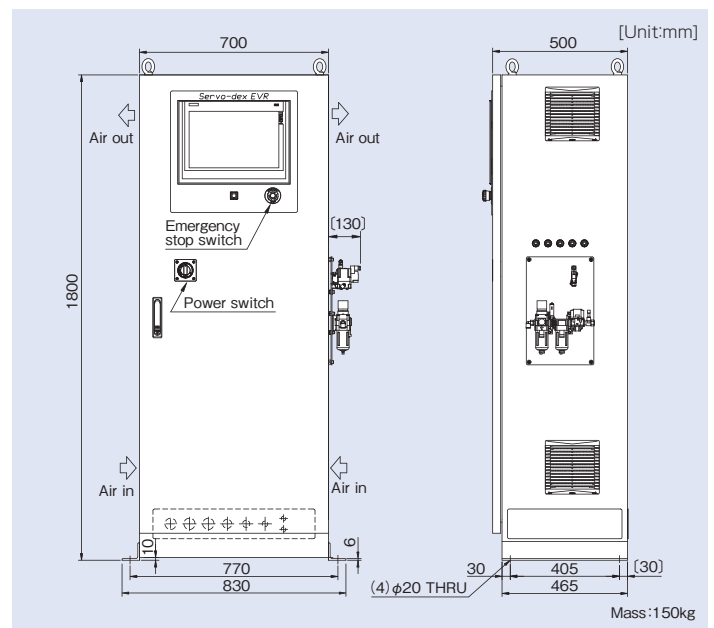
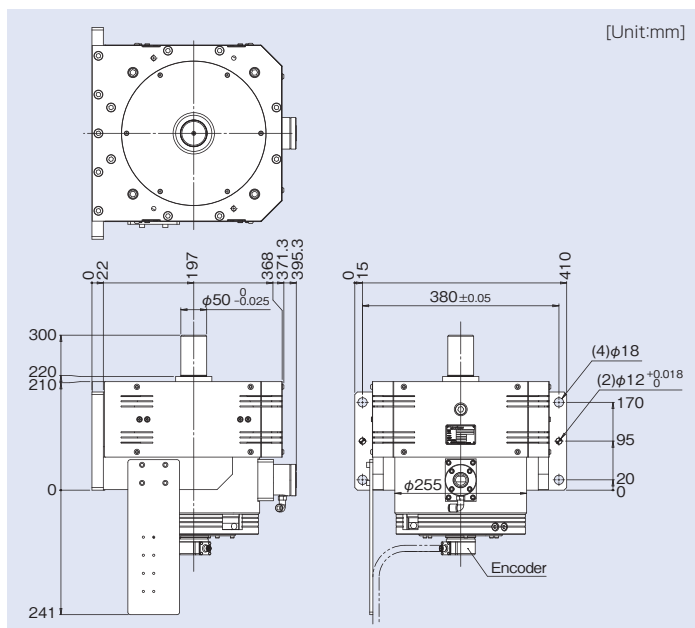
# Specification table

Item	Unit	Numeric value	Note
Load inertia (standard) (max)	kg·m <sup>2</sup>	0.5	The capacity changes with the load
Rotation angle of the built up core	deg	Any angle	
Indexing angle	deg	90~270	
Precision core buildup thickness at each angle of rotation	deg	±0.05	Motor shaft positioning accuracy
Permitted axial load	N	100	
Permitted radial load	N	2000	Distance to center of the output shaft
Power supply	V	3-phase, 380-480VAC±10%, 50/60HZ	
Power capacity	KW	16.7(30A)	
Operating air pressure	MPa	0.5~0.6	Cooling air
Air consumption (max)	ℓ/min	200	
Product weight	kg	125	

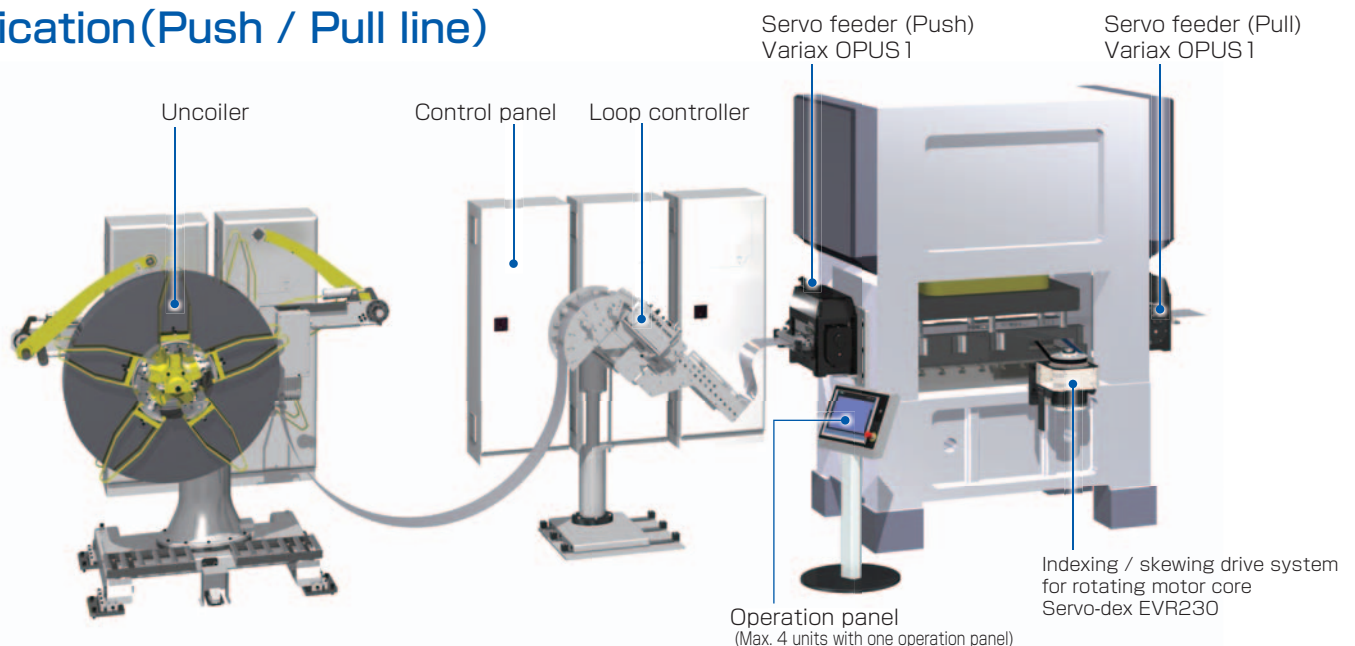
\*1 Use a timing belt that has low elastic deformation to suppress residual vibration



# Dimensional drawing



# Application (Push / Pull line)



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