

An indexing/skewing drive system for rotating the motor cores used for electric motors in automobiles.

Servo-dex EVR1 Series



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The Servo-dex EVR1 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.

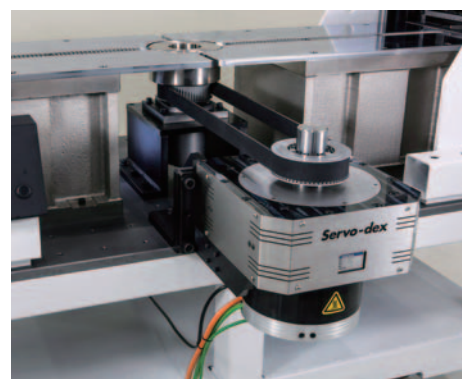
It reduces mold maintenance by suppressing vibration when stopping a workpiece with high-precision positioning.

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



Features

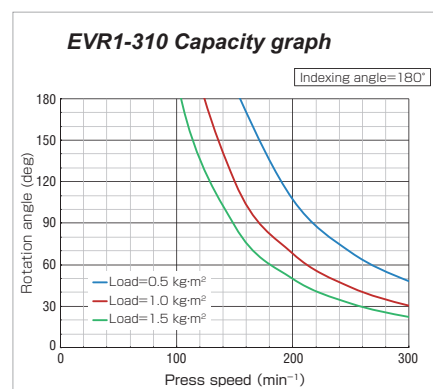
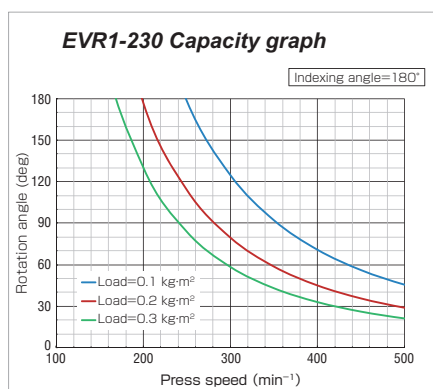
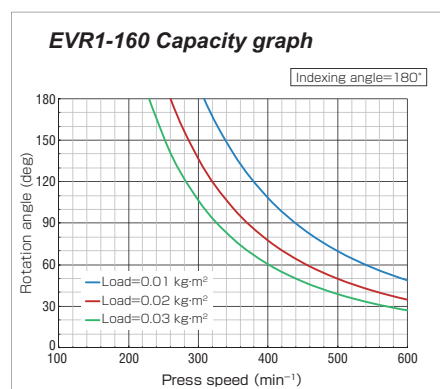
- High-end model combining high speed, high precision and multiple functions
- Outstanding reliability due to our original vibration damping design
- It also supports arbitrary rotation angle settings, and skew processing of the motor core
- Built in preventive maintenance and diagnostic functions to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



Specification table

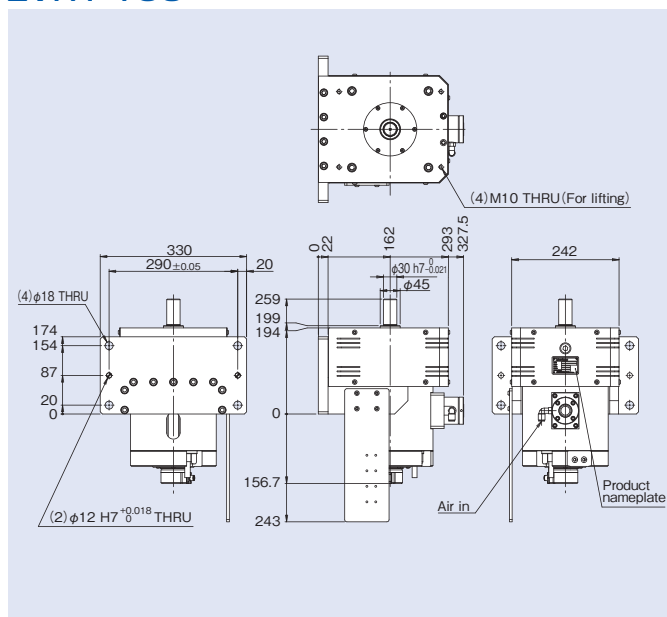
Item	Unit	EVR1-160	EVR1-230	EVR1-310	Note
Load inertia (standard) (max)	kg·m ²	0.03	0.50	1.50	The capacity changes with the load
Rotation angle of the built up core	deg	Any angle	Any angle	Any angle	
Indexing angle	deg	Any angle	Any angle	Any angle	
Permitted axial load	N	100	100	100	Load weight
Permitted radial load	N	1,200	2,000	2,600	At center of the output shaft*1
Operating air pressure	MPa	0.4 to 0.5	0.4 to 0.5	0.4 to 0.5	Cooling air*2
Product weight	kg	142	210	232	

*1: Use a timing belt that has low elastic deformation to suppress residual vibration *2: These capacities change according to the amount of air cooling that is supplied.



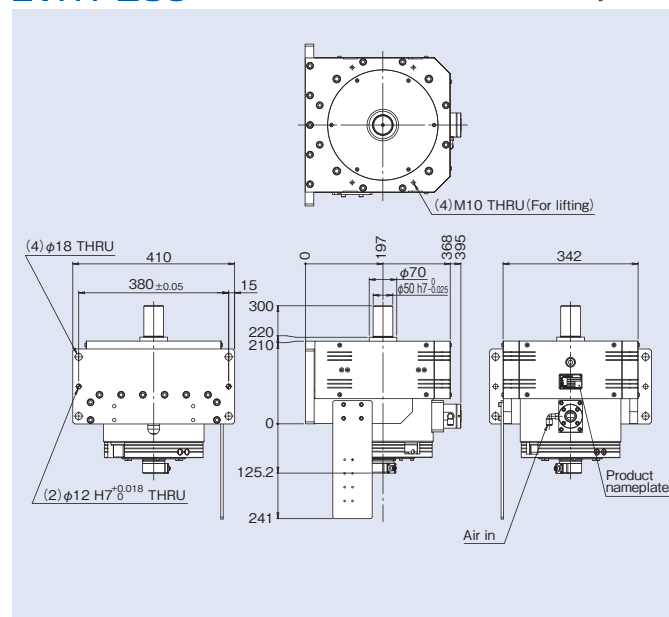
Dimensional drawing

EVR1-160

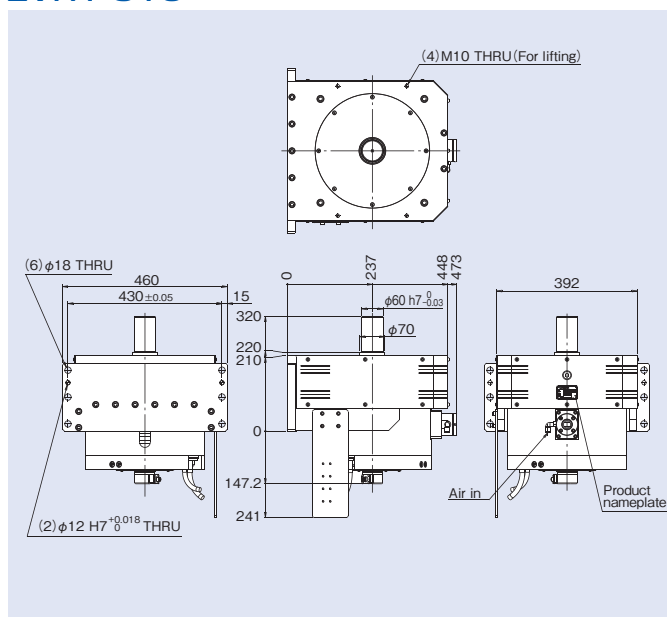


EVR1-230

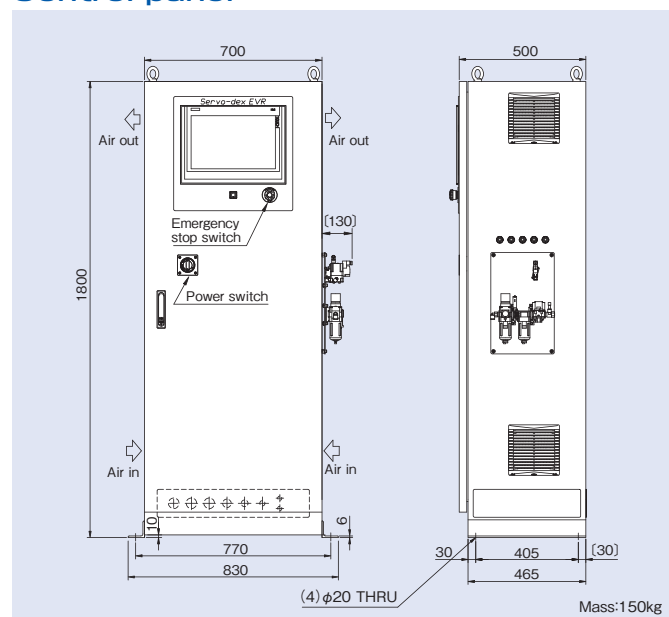
[Unit:mm]



EVR1-310

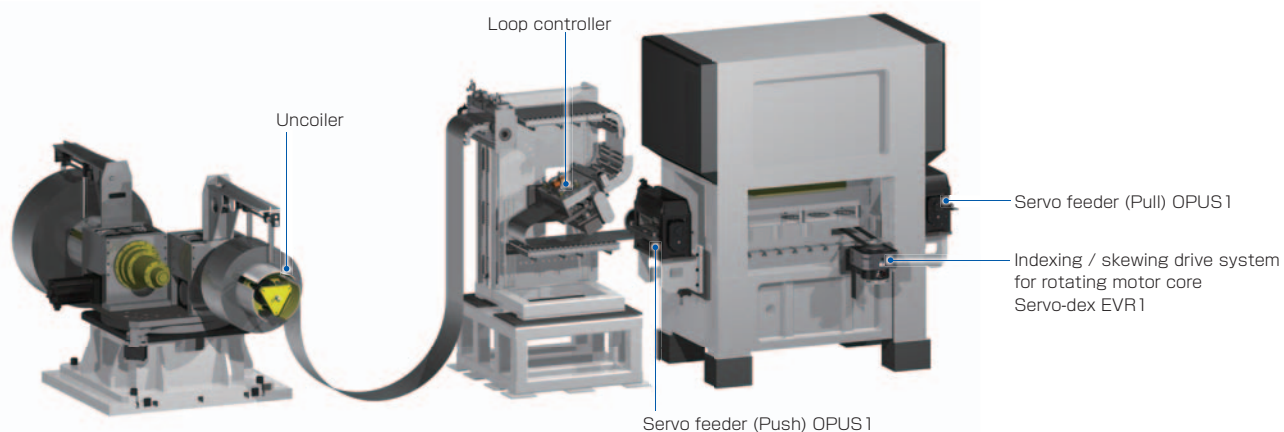


Control panel



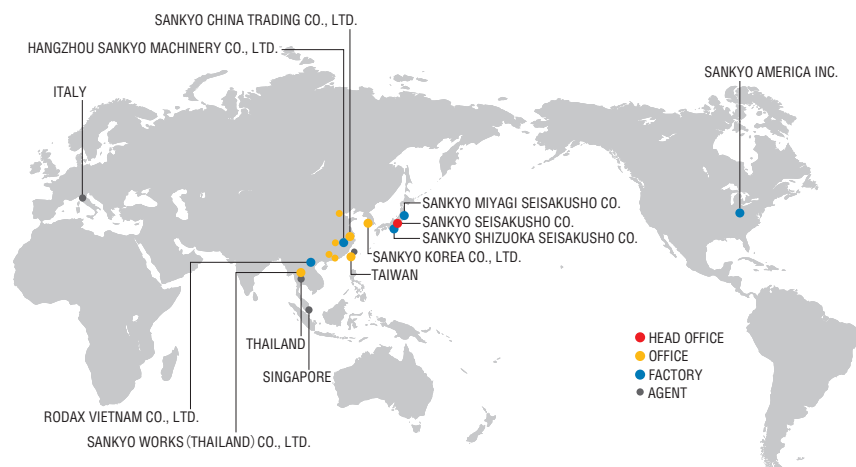
※ The control panel dimensions for the EVR1-310 are different. Please contact us.

Application: Motor core line for electric motors used in automobiles (OPUS1×2, EVR1)



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Global network



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