









# Motor Line-up

	Motor series *	Rated output (kW)	Rated rotational speed (Max. speed) (r/min)	Rotary encoder		Brake	Gear	CE/UL	Enclosure	Features	Applications
				2500P/r incremental	17bit absolute/incremental	Holding	High precision				
Ultra low inertia	MAMA 	0.1-0.75 4 models 0.1, 0.2, 0.4 and 0.75	5000 (6000)	○	○	○	—	○	IP65 (Except shaft through hole and connector)	·Small capacity ·Suitable for the machines directly coupled with high speed ball screw and high stiffness and high repetitive application	·SMT machines ·Inserters ·High repetitive positioning application
Low inertia	MSMD 	0.05-0.75 5 models 0.05, 0.1, 0.2, 0.4 and 0.75	3000 (5000) *For 400W/100V and 750W 3000 (4500)	○	○	○	○	○	IP65 (Except shaft through hole and connector)	·Small capacity ·Suitable for all applications	·Inserters ·Belt driven machines ·Unloading robot
	MQMA (Cube type) 	0.1-0.4 3 models 0.1, 0.2, and 0.4	3000 (5000) *For 400W/100V 3000 (4500)	○	○	○	—	○	IP65 (Except shaft through hole and connector)	·Small capacity ·Suitable for flat type and low stiffness machines with belt driven	·SMT machines ·Inserters ·Belt driven machines ·Unloading robot
	MSMA 	1.0-5.0 6 models 1.0,1.5,2.0, 3.0,4.0 and 5.0	3000 (5000) *For 4kW and 5kW 3000 (4500)	○	○	○	—	○	IP65 (Except cannon plug/connector pins)	·Middle capacity ·Suitable for the machines directly coupled with ball screw and high stiffness and high repetitive application	·SMT machines ·Inserter ·Food machines
Middle inertia	MDMA 	1.0-7.5 7 models 1.0,1.5,2.0, 3.0,4.0,5.0 and 7.5	2000 (3000) *For 7.5kW 1500 (3000)	○	○	○	—	○	IP65 (Except cannon plug/connector pins)	·Middle capacity ·Suitable for low stiffness machines with belt driven	·Belt driven machines ·Conveyers ·Robots
	MGMA (Low speed/High torque type) 	0.9-6.0 5 models 0.9,2.0, 3.0,4.5 and 6.0	1000 (2000)	○	○	○	—	○	IP65 (Except cannon plug/connector pins)	·Middle capacity ·Suitable for machines requiring low speed with high torque	·Belt driven machines ·Conveyers ·Robots
	MFMA (Flat type) 	0.4-4.5 4 models 0.4,1.5, 2.5 and 4.5	2000 (3000)	○	○	○	—	○	IP65 (Except cannon plug/connector pins)	·Middle capacity ·Flat type and suitable for machines with space limitation	·Robots ·Food machines
High inertia	MHMA 	0.5-7.5 8 models 0.5,1.0,1.5, 2.0,3.0,4.0, 5.0 and 7.5	2000 (3000) *For 7.5kW 1500 (3000)	○	○	○	—	○	IP65 (Except cannon plug/connector pins)	·Middle capacity ·Suitable for low stiffness machines with belt driven, and large load moment of inertia	·Belt driven machines ·Conveyers ·Robots

\* Motor is sharing with A4/A4P series