
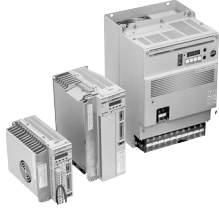


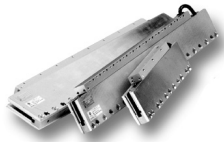
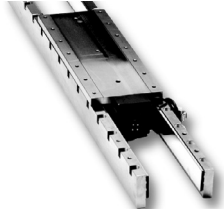

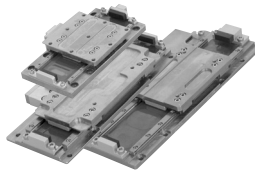

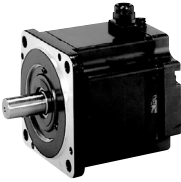
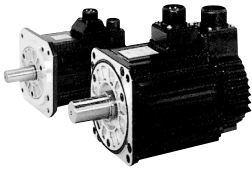


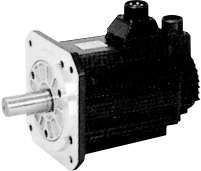
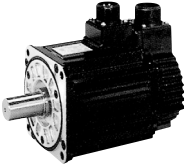

# Selection table



Servo drives			
			
	<b>XtraDrive</b>	<b>Sigma-II</b>	<b>SmartStep</b>
	All in one! servo drive and motion controller integrated	Designed with ZERO compromise	Servo capability with stepper simplicity
<b>Ratings 230 V single-phase</b>	30 W to 1,500 W	30 W to 1,500 W	30 W to 800 W
<b>Ratings 400 V single-phase</b>	0.5 kW to 5 kW	0.5 kW to 55 kW	N/A
<b>Motors applicable</b>	Sigma linear motors, rotary Sigma-II and SmartStep motors	Rotary Sigma-II, rotary direct drives and Sigma linear motors	SmartStep motors
<b>Positioning control</b>	Internal program, pulse train input or via PROFIBUS	Pulse train input or via option unit	Pulse train input
<b>Speed control</b>	Internal program, analogue $\pm 10$ V or via PROFIBUS	Analogue $\pm 10$ V or via option unit	N/A
<b>Torque control</b>	Internal program, analogue $\pm 10$ V or via PROFIBUS	Analogue $\pm 10$ V or via option unit	N/A
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Sigma linear servo motors			
			
	<b>SGLFW</b>	<b>SGLGW</b>	<b>SGLTW</b>
	Iron-core Sigma linear motor, making the difference	Coreless GW linear motor construction results in zero attraction force	Iron-core TW linear motor with magnetic attraction cancellation
<b>Rated force range</b>	25 N to 2250 N	12.5 N to 325 N	300 N to 2000 N
<b>Peak force range</b>	86 N to 5400 N	40 N to 1300 N	600 N to 7500 N
<b>Maximum speed</b>	5 m/sec	5 m/sec	5 m/sec
<b>Design type</b>	Iron-core coil	Coreless coil	Iron-core coil
<b>Magnetic attraction</b>	314 N to 14600 N	zero	zero
<b>Drives applicable</b>	Sigma-II and XtraDrive	Sigma-II and XtraDrive	Sigma-II and XtraDrive
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Sigma linear servo motors	
	
	
	<b>LETLA</b>
	Linear axes ready to use
<b>Rated force range</b>	80 N to 1120 N
<b>Peak force range</b>	220 N to 2400 N
<b>Maximum speed</b>	5 m/sec
<b>Design type</b>	Iron-core coil
<b>Magnetic attraction</b>	810 N to 6520 N
<b>Drives applicable</b>	Sigma-II and XtraDrive
<b>Page</b>	221
	<b>SGTMM</b>
	Flat construction for mounting at narrow spaces
<b>Rated force range</b>	3.5 N to 7 N
<b>Peak force range</b>	10 N to 25 N
<b>Maximum speed</b>	1.5 m/sec
<b>Design type</b>	Moving magnet
<b>Magnetic attraction</b>	zero
<b>Drives applicable</b>	Sigma-II
<b>Page</b>	235

Sigma linear servo motors			
			
	<b>SGMAH</b>	<b>SGMPH</b>	<b>SGMGH</b>
	Sigma-II rotary motors (6 different motor families to cover all application needs)		
	Low-inertia design for high dynamics	Medium inertia design with flat profile	High torque servo motors
<b>Rated speed</b>	3000 rpm	3000 rpm	1500 rpm
<b>Maximum speed</b>	5000 rpm	5000 rpm	3000 rpm
<b>Rated torque</b>	0.095 Nm to 2.39 Nm	0.318 Nm to 4.77 Nm	2.84 Nm to 95.4 Nm
<b>Sizes</b>	30 to 750 W	100 to 1500 W	0.45 to 15 kW
<b>Drives applicable</b>	Sigma-II and XtraDrive	Sigma-II and XtraDrive	Sigma-II and XtraDrive
<b>Encoder resolution</b>	13 bits-incremental / 16 bits-absolute	13 bits-incremental / 16 bits-absolute	17 bits-incremental and absolute
<b>IP rating</b>	IP55	IP55 (optional IP67)	IP67
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Sigma linear servo motors			
			
	<b>SGMSH</b>	<b>SGMUH</b>	<b>SGMBH</b>
	Sigma-II rotary motors (6 different motor families to cover all application needs)		
	Low-inertia motors for high dynamics	High speed servo motors	High power applications
<b>Rated speed</b>	3000 rpm	6000 rpm	1500 rpm
<b>Maximum speed</b>	5000 rpm	6000 rpm	2000 rpm
<b>Rated torque</b>	3.18 Nm to 15.8 Nm	1.59 Nm to 6.3 Nm	140 Nm to 350 Nm
<b>Sizes</b>	1 to 5 kW	1 to 5 kW	22 kW to 55 kW
<b>Drives applicable</b>	Sigma-II and XtraDrive	Sigma-II and XtraDrive	Sigma-II
<b>Encoder resolution</b>	17 bits-incremental and absolute	17 bits-incremental	17 bits-incremental and absolute
<b>IP rating</b>	IP67	IP67	IP44
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Sigma linear servo motors		
		
	<b>SmartStep</b>	<b>SGMCS</b>
	SmartStep motors	
	Ultra compact motor	Direct drive
	Gearless high torque rotary motors	
<b>Rated speed</b>	3000 rpm	150 / 200 rpm
<b>Maximum speed</b>	4500 rpm	500 rpm
<b>Rated torque</b>	0.095 Nm to 2.39 Nm	2 Nm to 80 Nm
<b>Sizes</b>	30 to 800 W	42 to 1.5 kW
<b>Drives applicable</b>	SmartStep and XtraDrive	Sigma-II
<b>Encoder resolution</b>	2000 pulses/revolution	20 bits-absolute
<b>IP rating</b>	IP55	IP42
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