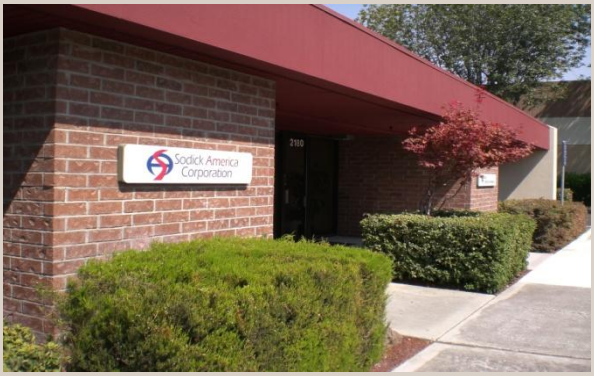
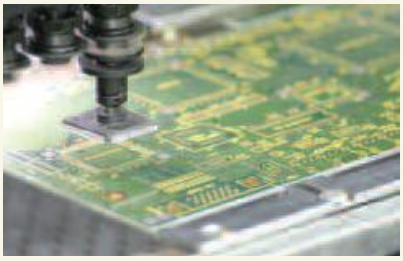
SODICK AMERICA CORPORATION

Located in San Jose, California in the heart of the Silicon Valley, Sodick America operates as a Research and Development facility for Sodick Co., Ltd. since 2000. Sodick America Corp. develops state-of-the-art motion control technology, the "K-SMC$_{TM}$" series motion controller was developed for Sodick's linear motor driven machine tools resulting in the world's best precision machining. Now, Sodick America presents the latest products in Linear Motion Control Technology: KSMC$_{TM}$-SiLink and KSMC$_{TM}$-MaLink.



SODICK TECHNOLOGY COMPANY
IN SILICON VALLEY



Specifications	KSMC-SiLink	KSMC-MALINK
Type of Product	Motion Controller	Motion Controller
Number of Axes	8 axes	32 Axes
Controllable Motor Type	Sinusoidal Communication for Stnchronous AC Motor	Sinusoidal Communication for Synchronous AC Motor
Output Signal	PWM & DAC	PWM & DAC
Number of Encoder Channels	Maximum 16 Channels	Maximum 32 Channels
Quadrature Decode of Encoder Input	x1, x2, x4 quadrature decode	x1, x2, x4 quadrature decode
Maximum Ecoder Count Rate	60MHz (1/2, 1/4, 1/8)	60MHz (1/2, 1/4, 1/8)
Available Encorder Type	INC-Encoder, Analog Encoder (optional), Endat (optional)	INC-Encoder, Analog Encoder (optional), Endat (optional)
ADC-Input Resolution	Up to 16 bit	Up to 16 bit
PWM Frequency	Maximum 50 kHz	Maximum 50 kHz
PWM Count Frequency	Typically 120 MHz	Typically 120 MHz
DAC Resolution	Maximum 16 bit	Maximum 16 bit
Number on DAC Channels	8 Channel Digital Output (Requires DAC Board)	32 Channel Digital Output (Requires DAC Board)
Sin-Wave Table Size	4096	4096
Processor Type & Speed	SH4R @ 240 MHz / PowerPC 405 @ 300 MHz	BCM1125H @ 800MHz / PowerPC 405 @ 300MHz
ASIC	PWM-Circuit, Encoder Counter, DAC, I/O, Serial Bus Current-Loop	PWM-Circuit, Encoder Counter, DAC, I/O, Serial Bus Current-Loop
Bus Interface	PCI	PCI
PCI-Common Memory Size	16 MB	16 MB
Additional Communications	RS-232C, H-UDI Port (Hitachi User Debugging Interface: JTAG)	RS-232(JTAG)
Board Structure (see structure diagram)	Two Boards	Two Boards

K-SMC™ Motion Controller

KSMC™-SiLink

&

K-SMC 3rd Generation Motion Controller

KSMC™-MaLink

KSMC$_{TM}$-SiLink and KSMC$_{TM}$-MaLink are two of Sodick America's latest motion control technologies that utilize multiple central processing units to yield the highest level of motion control performance.

KSMC$_{TM}$-SiLink is capable of controlling up to 8 axes and has been designed for Sodick's Electrical Discharge Machining and High-Speed Milling Machines.

KSMC$_{TM}$-MaLink controls up to 32 axes for Sodick's high-end machine tools.