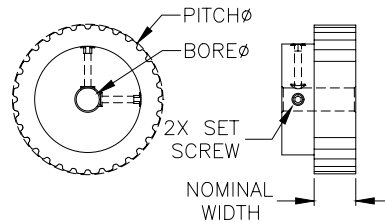


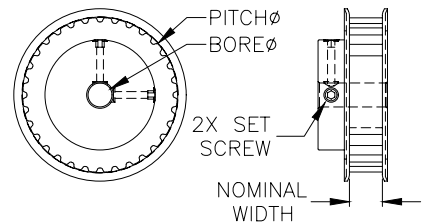
Synchronous Drive Components

MXL Synchronous Timing Belt Pulleys

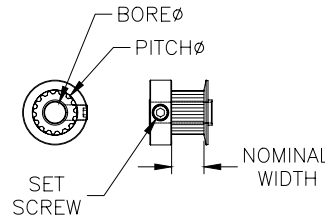
Also referred to as sprockets, SureMotion MXL timing pulleys have a 0.080 inch pitch and 1/4 inch width. Aluminum pulleys are available with a smooth bore and setscrews.



**MXL Pulley with Hub,
No Flange**



**MXL Pulley with Hub
and Flange**

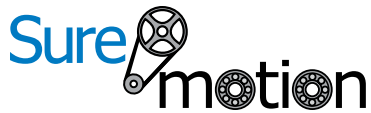


**MXL Pulley with Oversize
Hub and Flange**

Timing Belt Pulleys – Pitch Designation MXL; Plain Bore (With Hub)

Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Material*
APB10MXL025CF-125	Retired	0.1	10	0.25	Y	0.08	0.255	0.125	Al	APB28MXL025BF-250	Retired	0.1	28	0.25	Y	0.08	0.713	0.25	Al
APB11MXL025CF-125	Retired	0.1	11	0.25	Y	0.08	0.280	0.125	Al	APB30MXL025BF-250	Retired	0.1	30	0.25	Y	0.08	0.764	0.25	Al
APB12MXL025CF-125	Retired	0.1	12	0.25	Y	0.08	0.306	0.125	Al	APB32MXL025BF-250	Retired	0.1	32	0.25	Y	0.08	0.815	0.25	Al
APB14MXL025CF-125	Retired	0.1	14	0.25	Y	0.08	0.357	0.125	Al	APB36MXL025BF-250	Retired	0.1	36	0.25	Y	0.08	0.917	0.25	Al
APB15MXL025CF-188	Retired	0.1	15	0.25	Y	0.08	0.382	0.1875	Al	APB40MXL025BF-250	Retired	0.1	40	0.25	Y	0.08	1.019	0.25	Al
APB16MXL025CF-188	Retired	0.1	16	0.25	Y	0.08	0.407	0.1875	Al	APB42MXL025BF-250	Retired	0.1	42	0.25	Y	0.08	1.070	0.25	Al
APB18MXL025BF-188	Retired	0.1	18	0.25	Y	0.08	0.458	0.1875	Al	APB44MXL025BF-250	Retired	0.1	44	0.25	Y	0.08	1.120	0.25	Al
APB18MXL025CF-250	Retired	0.1	18	0.25	Y	0.08	0.458	0.25	Al	APB48MXL025BF-250	Retired	0.1	48	0.25	Y	0.08	1.222	0.25	Al
APB20MXL025BF-188	Retired	0.1	20	0.25	Y	0.08	0.509	0.1875	Al	APB60MXL025BF-250	Retired	0.1	60	0.25	Y	0.08	1.528	0.25	Al
APB20MXL025CF-250	Retired	0.1	20	0.25	Y	0.08	0.509	0.25	Al	APB60MXL025B-250	Retired	0.1	60	0.25	N	0.08	1.528	0.25	Al
APB21MXL025BF-188	Retired	0.1	21	0.25	Y	0.08	0.535	0.1875	Al	APB72MXL025B-250	Retired	0.1	72	0.25	N	0.08	1.833	0.25	Al
APB21MXL025CF-250	Retired	0.1	21	0.25	Y	0.08	0.535	0.25	Al	APB80MXL025B-312	Retired	0.1	80	0.25	N	0.08	2.037	0.3125	Al
APB22MXL025BF-188	Retired	0.1	22	0.25	Y	0.08	0.560	0.1875	Al	APB90MXL025B-312	Retired	0.1	90	0.25	N	0.08	2.292	0.3125	Al
APB22MXL025CF-250	Retired	0.1	22	0.25	Y	0.08	0.560	0.25	Al	APB100MXL025B-312	Retired	0.1	100	0.25	N	0.08	2.546	0.3125	Al
APB24MXL025BF-250	Retired	0.1	24	0.25	Y	0.08	0.611	0.25	Al	APB120MXL025B-375	Retired	0.1	120	0.25	N	0.08	3.056	0.375	Al
APB25MXL025BF-250	Retired	0.1	25	0.25	Y	0.08	0.637	0.25	Al										

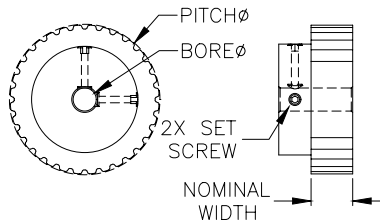
* Al = Aluminum with clear anodized finish; S = Steel



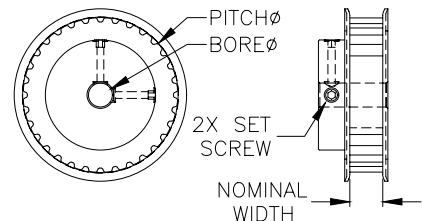
Synchronous Drive Components

XL Synchronous Timing Belt Pulleys

Also referred to as sprockets, SureMotion XL timing pulleys have a 1/5 inch pitch and 1/4 or 3/8 inch width. Both aluminum and steel pulleys are available with a smooth bore and setscrews.



XL Pulley with Hub, No Flange

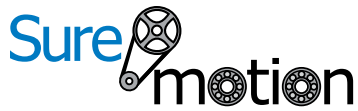


XL Pulley with Hub and Flange

Timing Belt Pulleys – Pitch Designation XL; Plain Bore (With Hub)

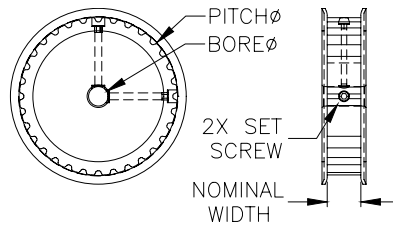
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10XL025BF-250	Retired	0.1	10	0.25	Y	0.20	0.637	0.25	0.25	Al	APB18XL037BF-250	Retired	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al
APB11XL025BF-250	Retired	0.1	11	0.25	Y	0.20	0.700	0.25	0.25	Al	APB19XL037BF-250	Retired	0.1	19	0.375	Y	0.20	1.210	0.25	0.5625	Al
APB12XL025BF-250	Retired	0.1	12	0.25	Y	0.20	0.764	0.25	0.3125	Al	APB20XL037BF-250	Retired	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
APB13XL025BF-250	Retired	0.1	13	0.25	Y	0.20	0.828	0.25	0.3125	Al	APB21XL037BF-250	Retired	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
APB14XL025BF-250	Retired	0.1	14	0.25	Y	0.20	0.891	0.25	0.375	Al	APB22XL037BF-250	Retired	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
APB15XL025BF-250	Retired	0.1	15	0.25	Y	0.20	0.955	0.25	0.4375	Al	APB23XL037BF-250	Retired	0.1	23	0.375	Y	0.20	1.464	0.25	0.75	Al
APB16XL025BF-250	Retired	0.1	16	0.25	Y	0.20	1.019	0.25	0.5	Al	APB24XL037BF-250	Retired	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
APB18XL025BF-250	Retired	0.1	18	0.25	Y	0.20	1.146	0.25	0.5625	Al	APB25XL037BF-250	Retired	0.1	25	0.375	Y	0.20	1.592	0.25	0.8125	Al
APB20XL025BF-250	Retired	0.1	20	0.25	Y	0.20	1.273	0.25	0.6875	Al	APB26XL037BF-250	Retired	0.1	26	0.375	Y	0.20	1.655	0.25	0.8125	Al
APB21XL025BF-250	Retired	0.1	21	0.25	Y	0.20	1.337	0.25	0.6875	Al	APB28XL037BF-250	Retired	0.2	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
APB22XL025BF-250	Retired	0.1	22	0.25	Y	0.20	1.401	0.25	0.75	Al	APB30XL037BF-250	Retired	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
APB24XL025BF-250	Retired	0.1	24	0.25	Y	0.20	1.528	0.25	0.8125	Al	APB32XL037BF-312	Retired	0.2	32	0.375	Y	0.20	2.037	0.312	1.1875	Al
APB26XL025BF-250	Retired	0.1	26	0.25	Y	0.20	1.655	0.25	0.8125	Al	APB32XL037B-312	Retired	0.2	32	0.375	N	0.20	2.037	0.312	1.1875	Al
APB28XL025BF-250	Retired	0.1	28	0.25	Y	0.20	1.783	0.25	0.9375	Al	APB36XL037B-312	Retired	0.3	36	0.375	N	0.20	2.292	0.312	1.1875	Al
APB30XL025BF-250	Retired	0.2	30	0.25	Y	0.20	1.910	0.25	1.0625	Al	APB40XL037B-312	Retired	0.4	40	0.375	N	0.20	2.546	0.312	1.1875	Al
APB10XL037BF-250	Retired	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al	APB42XL037B-312	Retired	0.4	42	0.375	N	0.20	2.674	0.312	1.1875	Al
APB11XL037BF-250	Retired	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al	APB44XL037B-312	Retired	0.4	44	0.375	N	0.20	2.801	0.312	1.1875	Al
APB12XL037BF-250	Retired	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al	APB48XL037B-312	Retired	0.5	48	0.375	N	0.20	3.056	0.312	1.1875	Al
APB13XL037BF-250	Retired	0.1	13	0.375	Y	0.20	0.828	0.25	0.3125	Al	APB60XL037B-375	Retired	0.6	60	0.375	N	0.20	3.820	0.375	1.1875	Al
APB14XL037BF-250	Retired	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al	APB72XL037B-375	Retired	0.9	72	0.375	N	0.20	4.584	0.375	1.1875	Al
APB15XL037BF-250	Retired	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al	SPB28XL037BF-250	Retired	0.5	28	0.375	Y	0.20	1.783	0.25	0.9375	S
APB16XL037BF-250	Retired	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al	SPB30XL037BF-312	Retired	0.6	30	0.375	Y	0.20	1.910	0.312	1.0625	S
APB17XL037BF-250	Retired	0.1	17	0.375	Y	0.20	1.082	0.25	0.5	Al											

* Al = Aluminum with clear anodized finish; S = Steel



Synchronous Drive Components

XL Synchronous Timing Belt Pulleys Continued

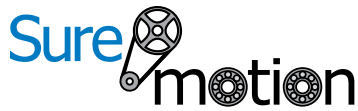


**XL Pulley Hubless,
With Flange**

Timing Belt Pulleys – Pitch Designation XL; Hubless

Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
<u>APB10XL037AF-250</u>	Retired	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al	<u>APB20XL037AF-250</u>	Retired	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
<u>APB11XL037AF-250</u>	Retired	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al	<u>APB21XL037AF-250</u>	Retired	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
<u>APB12XL037AF-250</u>	Retired	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al	<u>APB22XL037AF-250</u>	Retired	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
<u>APB14XL037AF-250</u>	Retired	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al	<u>APB24XL037AF-250</u>	Retired	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
<u>APB15XL037AF-250</u>	Retired	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al	<u>APB28XL037AF-250</u>	Retired	0.1	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
<u>APB16XL037AF-250</u>	Retired	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al	<u>APB30XL037AF-250</u>	Retired	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
<u>APB18XL037AF-250</u>	Retired	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al	<u>APB32XL037AF-250</u>	Retired	0.2	32	0.375	Y	0.20	2.037	0.25	1.1875	Al

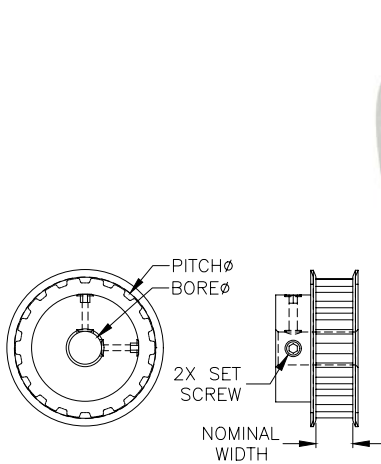
* Al = Aluminum with clear anodized finish; S = Steel



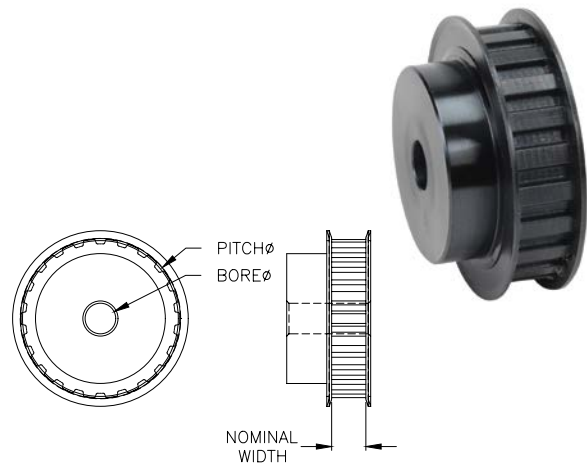
Synchronous Drive Components

L Synchronous Timing Belt Pulleys

Also referred to as sprockets, SureMotion L timing pulleys have a 3/8 inch pitch and 1/2 or 1 inch width. Aluminum pulleys are available with a smooth bore and setscrews. Steel plain bore pulleys require machining by the end user for desired shaft mounting (i.e. bore, keyway, setscrews). Steel pulleys also available to fit Taper-Lock or QD style drive bushings. Bushings sold separately.



L Pulley with Hub, Flange, and Setscrews

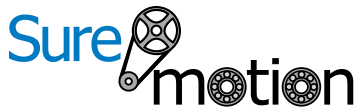


L Pulley with Hub, Flange, No Setscrews

Timing Belt Pulleys – Pitch Designation L; Plain Bore (With Hub)

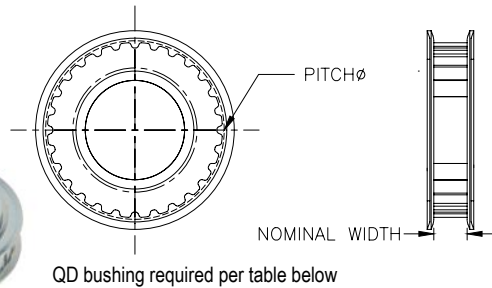
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10L050BF-375	Retired	0.1	10	0.50	Y	0.375	1.194	0.375	0.5625	Al	SPB30L050BF-500	Retired	2.4	30	0.50	Y	0.375	3.581	0.50	1.625	S
APB12L050BF-375	Retired	0.2	12	0.50	Y	0.375	1.432	0.375	0.8125	Al	SPB32L050BF-500	Retired	2.8	32	0.50	Y	0.375	3.820	0.50	1.875	S
APB13L050BF-375	Retired	0.2	13	0.50	Y	0.375	1.552	0.375	0.8125	Al	SPB36L050BF-500	Retired	4.0	36	0.50	Y	0.375	4.297	0.50	1.875	S
APB14L050BF-375	Retired	0.2	14	0.50	Y	0.375	1.671	0.375	0.875	Al	SPB40L050BF-500	Retired	4.7	40	0.50	Y	0.375	4.775	0.50	1.875	S
APB15L050BF-375	Retired	0.3	15	0.50	Y	0.375	1.790	0.375	0.9375	Al	SPB14L100BF-375	Retired	0.8	14	1.0	Y	0.375	1.671	0.375	0.875	S
APB16L050BF-500	Retired	0.3	16	0.50	Y	0.375	1.910	0.50	1.125	Al	SPB16L100BF-500	Retired	1.1	16	1.0	Y	0.375	1.910	0.50	1.125	S
APB17L050BF-500	Retired	0.3	17	0.50	Y	0.375	2.029	0.50	1.125	Al	SPB18L100BF-500	Retired	1.4	18	1.0	Y	0.375	2.149	0.50	1.1875	S
APB18L050BF-500	Retired	0.4	18	0.50	Y	0.375	2.149	0.50	1.1875	Al	SPB20L100BF-500	Retired	1.7	20	1.0	Y	0.375	2.387	0.50	1.1875	S
APB19L050BF-500	Retired	0.4	19	0.50	Y	0.375	2.268	0.50	1.1875	Al	SPB22L100BF-625	Retired	2.1	22	1.0	Y	0.375	2.626	0.625	1.5	S
APB20L050BF-500	Retired	0.5	20	0.50	Y	0.375	2.387	0.50	1.25	Al	SPB24L100BF-625	Retired	2.4	24	1.0	Y	0.375	2.865	0.625	1.625	S
APB21L050BF-500	Retired	0.5	21	0.50	Y	0.375	2.507	0.50	1.3125	Al	SPB26L100BF-625	Retired	2.8	26	1.0	Y	0.375	3.104	0.625	1.625	S
APB22L050BF-500	Retired	0.6	22	0.50	Y	0.375	2.626	0.50	1.5	Al	SPB28L100BF-625	Retired	3.3	28	1.0	Y	0.375	3.342	0.625	1.875	S
APB24L050BF-500	Retired	0.7	24	0.50	Y	0.375	2.865	0.50	1.625	Al	SPB30L100BF-625	Retired	3.8	30	1.0	Y	0.375	3.581	0.625	1.875	S
SPB22L050BF-500	Retired	1.5	22	0.50	Y	0.375	2.626	0.50	1.5	S	SPB32L100BF-625	Retired	4.5	32	1.0	Y	0.375	3.820	0.625	1.875	S
SPB24L050BF-500	Retired	1.7	24	0.50	Y	0.375	2.865	0.50	1.625	S	SPB36L100BF-625	Retired	5.7	36	1.0	Y	0.375	4.297	0.625	1.875	S
SPB26L050BF-500	Retired	1.9	26	0.50	Y	0.375	3.104	0.50	1.625	S	SPB40L100BF-625	Retired	6.8	40	1.0	Y	0.375	4.775	0.625	1.875	S
SPB28L050BF-500	Retired	2.1	28	0.50	Y	0.375	3.342	0.50	1.625	S											

* Al = Aluminum with clear anodized finish; S = Steel

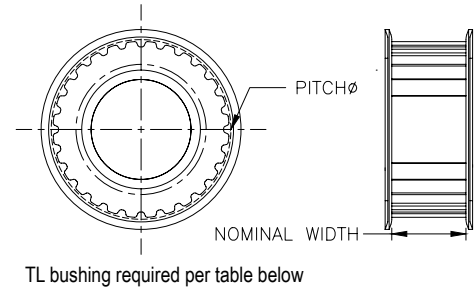


Synchronous Drive Components

L Synchronous Timing Belt Pulleys



SQD Pulley



STL Pulley

Timing Belt Pulleys – Pitch Designation L; Plain Bore (Without Hub)																			
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	*QD Type Bushing Required	Material**	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	*Taper-Lock Bushing Required	Material**
SQD20L050AF-JA	Retired	0.6	20	0.50	Y	0.375	2.387	JA	S	STL20L050AF-1108	Retired	0.6	20	0.50	Y	0.375	2.387	1108	S
SQD20L100AF-JA	Retired	1.0	20	1.0	Y	0.375	2.387	JA	S	STL20L100AF-1108	Retired	0.8	20	1.0	Y	0.375	2.387	1108	S
SQD22L050AF-JA	Retired	0.8	22	0.50	Y	0.375	2.626	JA	S	STL22L050AF-1108	Retired	0.8	22	0.50	Y	0.375	2.626	1108	S
SQD22L100AF-JA	Retired	1.0	22	1.0	Y	0.375	2.626	JA	S	STL22L100AF-1108	Retired	1.2	22	1.0	Y	0.375	2.626	1108	S
SQD24L050AF-SH	Retired	0.6	24	0.50	Y	0.375	2.865	SH	S	STL24L050AF-1210	Retired	0.8	24	0.50	Y	0.375	2.865	1210	S
SQD24L100AF-SH	Retired	1.0	24	1.0	Y	0.375	2.865	SH	S	STL24L100AF-1210	Retired	1.1	24	1.0	Y	0.375	2.865	1210	S
SQD26L050AF-SH	Retired	0.9	26	0.50	Y	0.375	3.104	SH	S	STL26L050AF-1210	Retired	1.1	26	0.50	Y	0.375	3.104	1210	S
SQD26L100AF-SH	Retired	1.4	26	1.0	Y	0.375	3.104	SH	S	STL26L100AF-1210	Retired	1.4	26	1.0	Y	0.375	3.104	1210	S
SQD28L050AF-SH	Retired	1.1	28	0.50	Y	0.375	3.342	SH	DI	STL28L050AF-1210	Retired	1.5	28	0.50	Y	0.375	3.342	1210	DI
SQD28L100AF-SH	Retired	1.8	28	1.0	Y	0.375	3.342	SH	DI	STL28L100AF-1610	Retired	1.4	28	1.0	Y	0.375	3.342	1610	DI
SQD30L050AF-SDS	Retired	1.1	30	0.50	Y	0.375	3.581	SDS	DI	STL30L050AF-1610	Retired	1.3	30	0.50	Y	0.375	3.581	1610	DI
SQD30L100AF-SDS	Retired	1.9	30	1.0	Y	0.375	3.581	SDS	DI	STL30L100AF-1610	Retired	1.9	30	1.0	Y	0.375	3.581	1610	DI
SQD32L050AF-SDS	Retired	1.4	32	0.50	Y	0.375	3.820	SDS	DI	STL32L050AF-1610	Retired	1.7	32	0.50	Y	0.375	3.820	1610	DI
SQD32L100AF-SDS	Retired	2.3	32	1.0	Y	0.375	3.820	SDS	DI	STL32L100AF-1610	Retired	2.4	32	1.0	Y	0.375	3.820	1610	DI
SQD36L050AF-SDS	Retired	2.0	36	0.50	Y	0.375	4.297	SDS	DI	STL36L050AF-1610	Retired	2.3	36	0.50	Y	0.375	4.297	1610	DI
SQD36L100AF-SDS	Retired	2.6	36	1.0	Y	0.375	4.297	SDS	DI	STL36L100AF-1610	Retired	3.4	36	1.0	Y	0.375	4.297	1610	DI
SQD40L050AF-SDS	Retired	2.7	40	0.50	Y	0.375	4.775	SDS	DI	STL40L050AF-2012	Retired	3.2	40	0.50	Y	0.375	4.775	2012	DI
SQD40L100AF-SDS	Retired	3.5	40	1.0	Y	0.375	4.775	SDS	DI	STL40L100AF-2012	Retired	3.8	40	1.0	Y	0.375	4.775	2012	DI
SQD44L050AF-SDS	Retired	3.4	44	0.50	Y	0.375	5.252	SDS	DI	STL48L050AF-2012	Retired	5.5	48	0.50	Y	0.375	5.730	2012	DI
SQD44L100AF-SDS	Retired	4.3	44	1.0	Y	0.375	5.252	SDS	DI	STL48L100AF-2012	Retired	6.4	48	1.0	Y	0.375	5.730	2012	DI
SQD48L050AF-SDS	Retired	4.2	48	0.50	Y	0.375	5.730	SDS	DI	STL60L050A-2012	Retired	6.4	60	0.50	N	0.375	7.162	2012	CI
SQD48L100AF-SDS	Retired	5.1	48	1.0	Y	0.375	5.730	SDS	DI	STL60L100A-2012	Retired	11	60	1.0	N	0.375	7.162	2012	CI
SQD60L050AF-SD ***	Retired	5.5	60	0.50	Y	0.375	7.162	SD	CI	STL72L050A-2012	Retired	8.9	72	0.50	N	0.375	8.594	2012	CI
SQD60L100AF-SD ***	Retired	6.6	60	1.0	Y	0.375	7.162	SD	CI	STL72L100A-2012	Retired	12.0	72	1.0	N	0.375	8.594	2012	CI
SQD72L050AF-SD ***	Retired	8.5	72	0.50	Y	0.375	8.594	SD	CI	STL84L050A-2517	Retired	16.1	84	0.50	N	0.375	10.027	2517	CI
SQD72L100AF-SD ***	Retired	7.3	72	1.0	Y	0.375	8.594	SD	CI	STL84L100A-2517	Retired	12.2	84	1.0	N	0.375	10.027	2517	CI
SQD84L050AF-SD ***	Retired	11.9	84	0.50	Y	0.375	10.027	SD	CI										
SQD84L100AF-SD ***	Retired	9.4	84	1.0	Y	0.375	10.027	SD	CI										

* "QD" is a registered trademark of Emerson Electric, "Taper-Lock" (TL) is a registered trademark of Reliance Electric.

** S = Steel; DI = Ductile Iron; CI = Cast Iron

*** SQDxxxxxAF-SD pulleys do not have flanges.



Synchronous Drive Components

Timing (Toothed) Belts

SureMotion timing belts are an excellent choice for many industrial applications. Several pitches and widths are available to cover a wide range of power transmission requirements.

- Neoprene with fiberglass reinforcement
- Polyurethane with polyester reinforcement (MXL pitch only)
- MXL (Mini Xtra Light) pitch = 0.080"
- XL (Xtra Light) pitch = 0.200"
- L (Light) pitch = 0.375"
- Range from 30 - 160 teeth
- 0.25, 0.375, 0.50 and 1.0-inch widths
- Timing belts start at \$3.50 (60XL025NG)

Timing Pulleys

Both aluminum and steel pulleys (sprockets) are available with a smooth bore and setscrew. Steel pulleys also available to fit Taper-Lock or QD style drive bushings. Bushings sold separately.

- Aluminum, steel, cast iron, or ductile iron
- MXL pitch = 0.080" with 1/4" width
- XL pitch = 0.200" with 1/4 or 3/8 inch width
- L pitch = .375" with 1/2 or 1 inch width
- Plain bores and TL or QD type bore
- Timing pulleys start at Retired (APB10XL025BF-250)

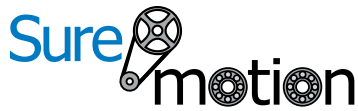
Tapered Drive Bushings

Bushings allow the connection of pulleys to different sized shafts.

- TL (Taper-Lock) and QD (quick detach) types are available
- Steel
- Standard bore sizes from 0.50 to 1.375 inch
- Taper-Lock® bushings start at Retired (TL-1108-0500)
- QD® style bushings start at Retired (QD-JA-0500)

*"Taper-Lock" is a registered trademark of Reliance Electric
"QD" is a registered trademark of Emerson Electric*





Synchronous Drive Components

Product Overview



Timing Pulleys



Bushings

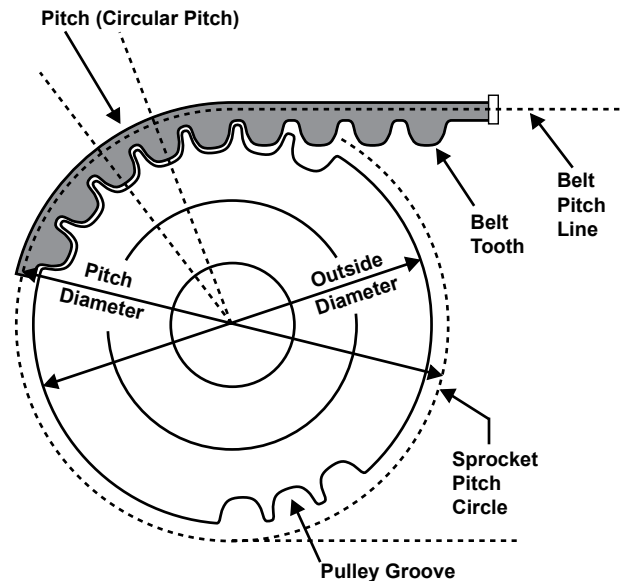


Timing Belts

Timing pulleys, bushings, and belts allow you to change speed and torque while connecting mechanically rotating components.

- Select pulley sizes in order to accomplish the speed or torque change that you need.
- Bushings allow you to connect the same pulleys to different sized shafts, or vice versa.
- Synchronous drive belts and pulleys utilize teeth to prevent slippage and unwanted speed variations.

Note: For pulley speeds in excess of 6,000 RPM, pulleys should be dynamically balanced.



Drive Component Selection

1. Determine required torque (ft·lbs) and rpm of driven shaft.
2. Determine design horsepower:

$$\text{DHP} = \frac{T \cdot N \cdot sf}{5,252}$$

Where: T = torque (ft·lb)
N = rpm
sf = service factor per table

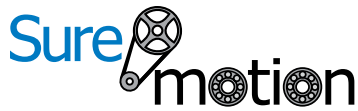
Service Factors

Machine Type	<8hr per day	8-16 hr per day	Continuous
Smooth Running	1.0	1.2	1.4
Light Shock Loads	1.3	1.5	1.7
Heavy Shock Loads	1.7	1.9	2.1

3. Determine Pitch (MXL XL or L) and belt width required by reading Design Horsepower Chart.
4. Select driver and driven pulleys to match desired speed or torque change.
5. Determine belt length per belt length calculation.

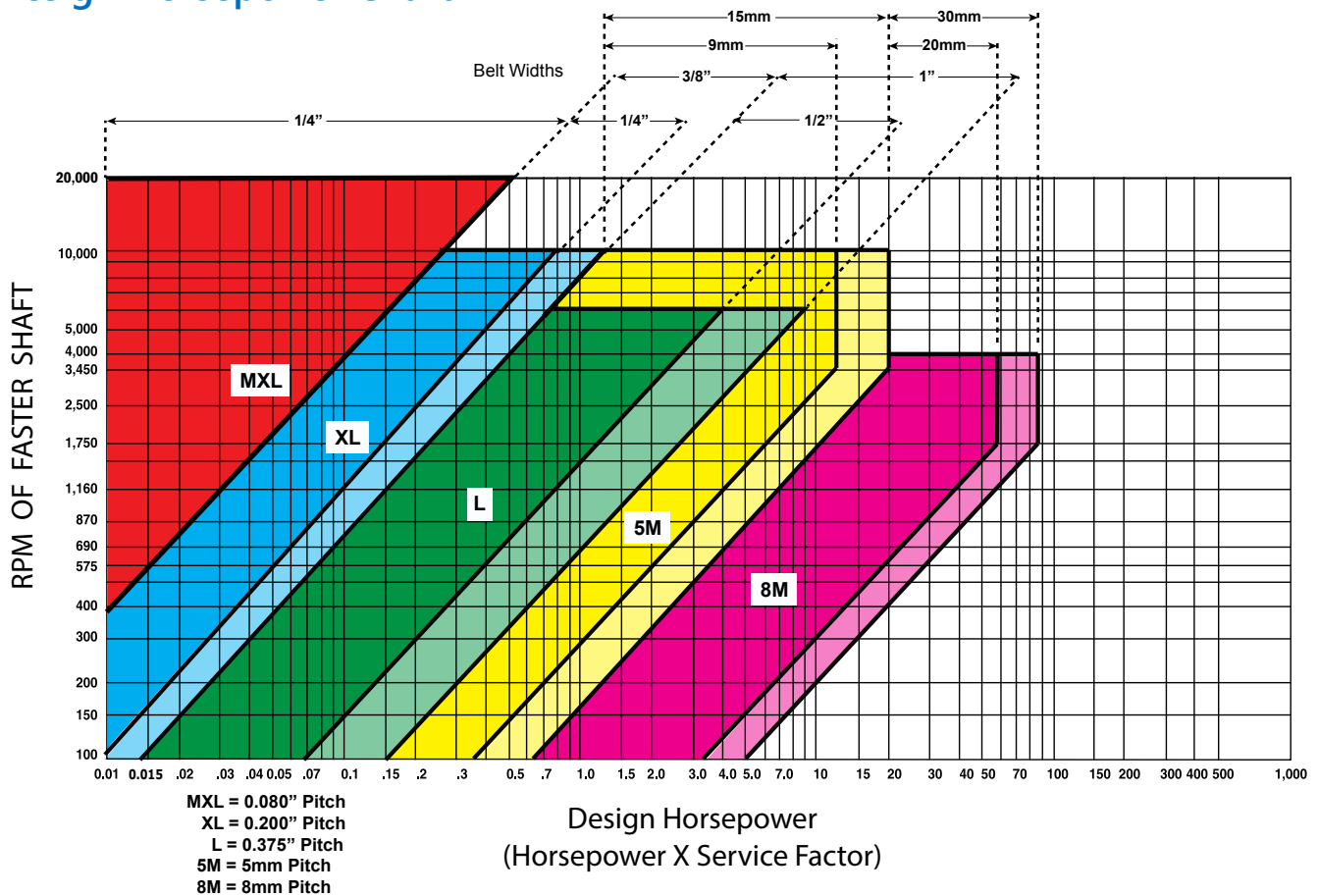
Note: AutomationDirect provides an online configuration tool to assist with pulley and belt sizing.

See: www.automationdirect.com/selectors/beltandpulley

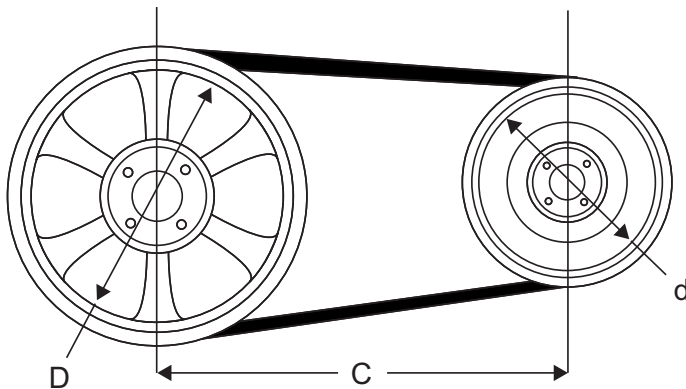


Synchronous Drive Components

Design Horsepower Chart



Drive Component Selection Continued



Belt Length Calculations

$$L = 2C + 1.57 (D + d) + \frac{(D-d)^2}{4C}$$

Where:

- L = Length of belt at pitch line (in inches)
- C = Center distance (in inches)
- D = Pitch diameter (in inches) of large sprocket
- d = Pitch diameter (in inches) of small sprocket