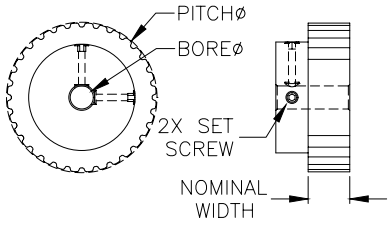
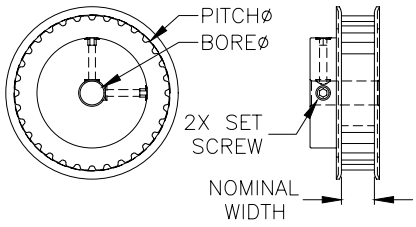
Synchronous Drive Components

MXL Synchronous Timing Belt Pulleys

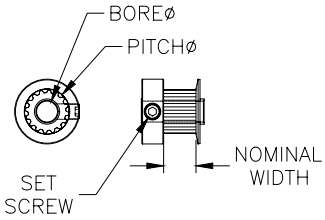
Also referred to as sprockets, SureMotion MXL timing pulleys have a 0.080 inch pitch and 1/4 inch width. Aluminum pulleys are available with a smooth bore and setscrews.



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)

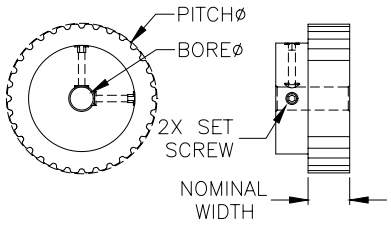
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Material*
APB10MXL025CF-125	$15.00	0.1	10	0.25	Y	0.08	0.255	0.125	Al
APB11MXL025CF-125	$14.50	0.1	11	0.25	Y	0.08	0.280	0.125	Al
APB12MXL025CF-125	$15.00	0.1	12	0.25	Y	0.08	0.306	0.125	Al
APB14MXL025CF-125	$16.00	0.1	14	0.25	Y	0.08	0.357	0.125	Al
APB15MXL025CF-188	$16.00	0.1	15	0.25	Y	0.08	0.382	0.1875	Al
APB16MXL025CF-188	$17.00	0.1	16	0.25	Y	0.08	0.407	0.1875	Al
APB18MXL025BF-188	$17.00	0.1	18	0.25	Y	0.08	0.458	0.1875	Al
APB18MXL025CF-250	Retired	0.1	18	0.25	Y	0.08	0.458	0.25	Al
APB20MXL025BF-188	$17.00	0.1	20	0.25	Y	0.08	0.509	0.1875	Al
APB20MXL025CF-250	$17.50	0.1	20	0.25	Y	0.08	0.509	0.25	Al
APB21MXL025BF-188	$17.00	0.1	21	0.25	Y	0.08	0.535	0.1875	Al
APB21MXL025CF-250	$17.50	0.1	21	0.25	Y	0.08	0.535	0.25	Al
APB22MXL025BF-188	$17.00	0.1	22	0.25	Y	0.08	0.560	0.1875	Al
APB22MXL025CF-250	Retired	0.1	22	0.25	Y	0.08	0.560	0.25	Al
APB24MXL025BF-250	$17.50	0.1	24	0.25	Y	0.08	0.611	0.25	Al
APB25MXL025BF-250	$17.50	0.1	25	0.25	Y	0.08	0.637	0.25	Al
APB28MXL025BF-250	$17.50	0.1	28	0.25	Y	0.08	0.713	0.25	Al
APB30MXL025BF-250	$19.00	0.1	30	0.25	Y	0.08	0.764	0.25	Al
APB32MXL025BF-250	$19.00	0.1	32	0.25	Y	0.08	0.815	0.25	Al
APB36MXL025BF-250	$19.00	0.1	36	0.25	Y	0.08	0.917	0.25	Al
APB40MXL025BF-250	$21.50	0.1	40	0.25	Y	0.08	1.019	0.25	Al
APB42MXL025BF-250	$23.00	0.1	42	0.25	Y	0.08	1.070	0.25	Al
APB44MXL025BF-250	$23.00	0.1	44	0.25	Y	0.08	1.120	0.25	Al
APB48MXL025BF-250	$27.00	0.1	48	0.25	Y	0.08	1.222	0.25	Al
APB60MXL025BF-250	Retired	0.1	60	0.25	Y	0.08	1.528	0.25	Al
APB60MXL025B-250	$30.00	0.1	60	0.25	N	0.08	1.528	0.25	Al
APB72MXL025B-250	$32.00	0.1	72	0.25	N	0.08	1.833	0.25	Al
APB80MXL025B-312	$38.50	0.1	80	0.25	N	0.08	2.037	0.3125	Al
APB90MXL025B-312	$43.50	0.1	90	0.25	N	0.08	2.292	0.3125	Al
APB100MXL025B-312	$49.50	0.1	100	0.25	N	0.08	2.546	0.3125	Al
APB120MXL025B-375	$57.00	0.1	120	0.25	N	0.08	3.056	0.375	Al

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

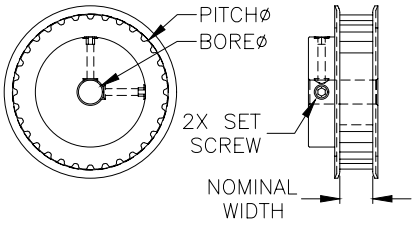
Synchronous Drive Components

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



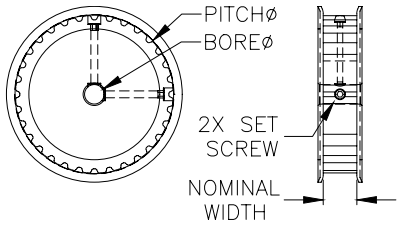
XL Pulley with Hub and Flange

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*
APB10XL025BF-250	$12.50	0.1	10	0.25	Y	0.20	0.637	0.25	0.25	Al
APB11XL025BF-250	$14.50	0.1	11	0.25	Y	0.20	0.700	0.25	0.25	Al
APB12XL025BF-250	$13.00	0.1	12	0.25	Y	0.20	0.764	0.25	0.3125	Al
APB13XL025BF-250	$13.50	0.1	13	0.25	Y	0.20	0.828	0.25	0.3125	Al
APB14XL025BF-250	$15.00	0.1	14	0.25	Y	0.20	0.891	0.25	0.375	Al
APB15XL025BF-250	$17.50	0.1	15	0.25	Y	0.20	0.955	0.25	0.4375	Al
APB16XL025BF-250	$17.50	0.1	16	0.25	Y	0.20	1.019	0.25	0.5	Al
APB18XL025BF-250	$17.00	0.1	18	0.25	Y	0.20	1.146	0.25	0.5625	Al
APB20XL025BF-250	$17.50	0.1	20	0.25	Y	0.20	1.273	0.25	0.6875	Al
APB21XL025BF-250	$20.50	0.1	21	0.25	Y	0.20	1.337	0.25	0.6875	Al
APB22XL025BF-250	$21.50	0.1	22	0.25	Y	0.20	1.401	0.25	0.75	Al
APB24XL025BF-250	$23.00	0.1	24	0.25	Y	0.20	1.528	0.25	0.8125	Al
APB26XL025BF-250	$25.00	0.1	26	0.25	Y	0.20	1.655	0.25	0.8125	Al
APB28XL025BF-250	$27.50	0.1	28	0.25	Y	0.20	1.783	0.25	0.9375	Al
APB30XL025BF-250	$30.50	0.2	30	0.25	Y	0.20	1.910	0.25	1.0625	Al
APB10XL037BF-250	Retired	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al
APB11XL037BF-250	$13.00	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al
APB12XL037BF-250	$13.50	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al
APB13XL037BF-250	$14.50	0.1	13	0.375	Y	0.20	0.828	0.25	0.3125	Al
APB14XL037BF-250	$15.00	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al
APB15XL037BF-250	$15.50	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al
APB16XL037BF-250	$17.00	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al
APB17XL037BF-250	$17.50	0.1	17	0.375	Y	0.20	1.082	0.25	0.5	Al
APB18XL037BF-250	$17.50	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al
APB19XL037BF-250	$17.50	0.1	19	0.375	Y	0.20	1.210	0.25	0.5625	Al
APB20XL037BF-250	$17.50	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
APB21XL037BF-250	$21.50	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
APB22XL037BF-250	$23.00	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
APB23XL037BF-250	$24.00	0.1	23	0.375	Y	0.20	1.464	0.25	0.75	Al
APB24XL037BF-250	$25.00	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
APB25XL037BF-250	$27.00	0.1	25	0.375	Y	0.20	1.592	0.25	0.8125	Al
APB26XL037BF-250	$27.00	0.1	26	0.375	Y	0.20	1.655	0.25	0.8125	Al
APB28XL037BF-250	$27.50	0.2	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
APB30XL037BF-250	$30.50	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
APB32XL037BF-312	$30.50	0.2	32	0.375	Y	0.20	2.037	0.312	1.1875	Al
APB32XL037B-312	$32.50	0.2	32	0.375	N	0.20	2.037	0.312	1.1875	Al
APB36XL037B-312	$38.50	0.3	36	0.375	N	0.20	2.292	0.312	1.1875	Al
APB40XL037B-312	$40.50	0.4	40	0.375	N	0.20	2.546	0.312	1.1875	Al
APB42XL037B-312	$41.00	0.4	42	0.375	N	0.20	2.674	0.312	1.1875	Al
APB44XL037B-312	$45.50	0.4	44	0.375	N	0.20	2.801	0.312	1.1875	Al
APB48XL037B-312	$48.00	0.5	48	0.375	N	0.20	3.056	0.312	1.1875	Al
APB60XL037B-375	$54.00	0.6	60	0.375	N	0.20	3.820	0.375	1.1875	Al
APB72XL037B-375	$59.00	0.9	72	0.375	N	0.20	4.584	0.375	1.1875	Al
SPB28XL037BF-250	$32.50	0.5	28	0.375	Y	0.20	1.783	0.25	0.9375	S
SPB30XL037BF-312	Retired	0.6	30	0.375	Y	0.20	1.910	0.312	1.0625	S

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

XL Synchronous Timing Belt Pulleys Continued



XL Pulley Hubless, With Flange

Timing Belt Pulleys – Pitch Designation XL; Hubless

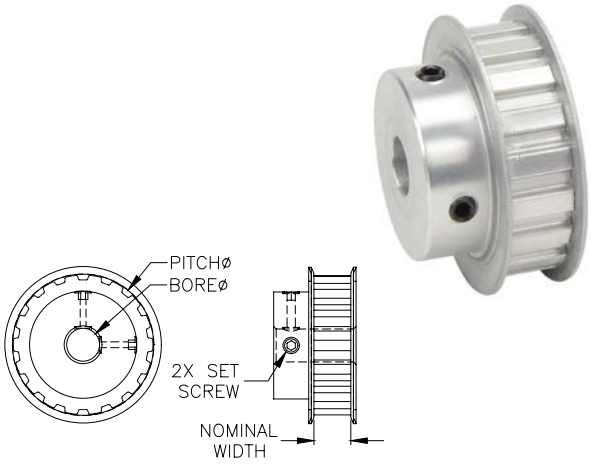
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10XL037AF-250	$14.50	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al
APB11XL037AF-250	$14.50	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al
APB12XL037AF-250	$14.50	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al
APB14XL037AF-250	$17.50	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al
APB15XL037AF-250	$17.50	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al
APB16XL037AF-250	$17.50	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al
APB18XL037AF-250	$19.00	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al
APB20XL037AF-250	$20.50	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
APB21XL037AF-250	$21.50	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
APB22XL037AF-250	$23.00	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
APB24XL037AF-250	$24.00	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
APB28XL037AF-250	$27.50	0.1	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
APB30XL037AF-250	$30.50	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
APB32XL037AF-250	$34.00	0.2	32	0.375	Y	0.20	2.037	0.25	1.1875	Al

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

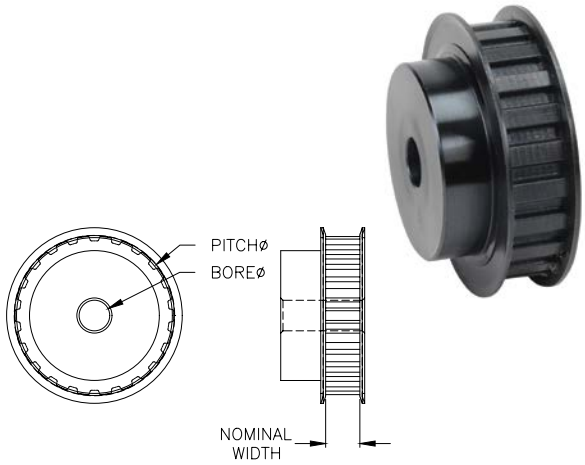
Synchronous Drive Components

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

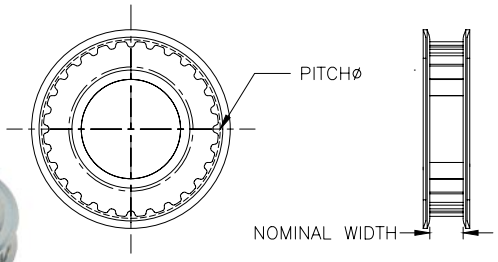
Timing Belt Pulleys – Pitch Designation L; Plain Bore (With Hub)

Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10L050BF-375	$25.00	0.1	10	0.50	Y	0.375	1.194	0.375	0.5625	Al
APB12L050BF-375	$27.50	0.2	12	0.50	Y	0.375	1.432	0.375	0.8125	Al
APB13L050BF-375	$30.00	0.2	13	0.50	Y	0.375	1.552	0.375	0.8125	Al
APB14L050BF-375	Retired	0.2	14	0.50	Y	0.375	1.671	0.375	0.875	Al
APB15L050BF-375	$37.00	0.3	15	0.50	Y	0.375	1.790	0.375	0.9375	Al
APB16L050BF-500	Retired	0.3	16	0.50	Y	0.375	1.910	0.50	1.125	Al
APB17L050BF-500	$39.50	0.3	17	0.50	Y	0.375	2.029	0.50	1.125	Al
APB18L050BF-500	$40.50	0.4	18	0.50	Y	0.375	2.149	0.50	1.1875	Al
APB19L050BF-500	Retired	0.4	19	0.50	Y	0.375	2.268	0.50	1.1875	Al
APB20L050BF-500	$54.00	0.5	20	0.50	Y	0.375	2.387	0.50	1.25	Al
APB21L050BF-500	$59.00	0.5	21	0.50	Y	0.375	2.507	0.50	1.3125	Al
APB22L050BF-500	$64.00	0.6	22	0.50	Y	0.375	2.626	0.50	1.5	Al
APB24L050BF-500	$79.00	0.7	24	0.50	Y	0.375	2.865	0.50	1.625	Al
SPB22L050BF-500	Retired	1.5	22	0.50	Y	0.375	2.626	0.50	1.5	S
SPB24L050BF-500	$57.00	1.7	24	0.50	Y	0.375	2.865	0.50	1.625	S
SPB26L050BF-500	$59.00	1.9	26	0.50	Y	0.375	3.104	0.50	1.625	S
SPB28L050BF-500	$68.00	2.1	28	0.50	Y	0.375	3.342	0.50	1.625	S
SPB30L050BF-500	$77.00	2.4	30	0.50	Y	0.375	3.581	0.50	1.625	S
SPB32L050BF-500	$78.00	2.8	32	0.50	Y	0.375	3.820	0.50	1.875	S
SPB36L050BF-500	$84.00	4.0	36	0.50	Y	0.375	4.297	0.50	1.875	S
SPB40L050BF-500	$96.00	4.7	40	0.50	Y	0.375	4.775	0.50	1.875	S
SPB14L100BF-375	$34.00	0.8	14	1.0	Y	0.375	1.671	0.375	0.875	S
SPB16L100BF-500	$39.50	1.1	16	1.0	Y	0.375	1.910	0.50	1.125	S
SPB18L100BF-500	$50.00	1.4	18	1.0	Y	0.375	2.149	0.50	1.1875	S
SPB20L100BF-500	$57.00	1.7	20	1.0	Y	0.375	2.387	0.50	1.1875	S
SPB22L100BF-625	$64.00	2.1	22	1.0	Y	0.375	2.626	0.625	1.5	S
SPB24L100BF-625	$68.00	2.4	24	1.0	Y	0.375	2.865	0.625	1.625	S
SPB26L100BF-625	$77.00	2.8	26	1.0	Y	0.375	3.104	0.625	1.625	S
SPB28L100BF-625	$78.00	3.3	28	1.0	Y	0.375	3.342	0.625	1.875	S
SPB30L100BF-625	$91.00	3.8	30	1.0	Y	0.375	3.581	0.625	1.875	S
SPB32L100BF-625	$107.00	4.5	32	1.0	Y	0.375	3.820	0.625	1.875	S
SPB36L100BF-625	$123.00	5.7	36	1.0	Y	0.375	4.297	0.625	1.875	S
SPB40L100BF-625	$139.00	6.8	40	1.0	Y	0.375	4.775	0.625	1.875	S

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

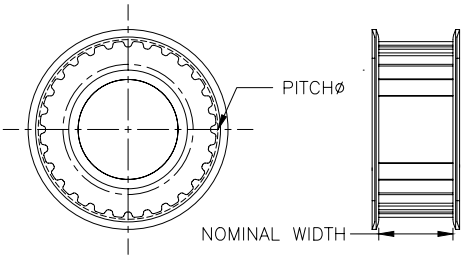
Synchronous Drive Components

L Synchronous Timing Belt Pulleys



QD bushing required per table below

SQD Pulley



TL bushing required per table below

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**
SQD20L050AF-JA	$54.00	0.6	20	0.50	Y	0.375	2.387	JA	S
SQD20L100AF-JA	$62.00	1.0	20	1.0	Y	0.375	2.387	JA	S
SQD22L050AF-JA	$56.00	0.8	22	0.50	Y	0.375	2.626	JA	S
SQD22L100AF-JA	$65.00	1.0	22	1.0	Y	0.375	2.626	JA	S
SQD24L050AF-SH	$56.00	0.6	24	0.50	Y	0.375	2.865	SH	S
SQD24L100AF-SH	$68.00	1.0	24	1.0	Y	0.375	2.865	SH	S
SQD26L050AF-SH	$57.00	0.9	26	0.50	Y	0.375	3.104	SH	S
SQD26L100AF-SH	$68.00	1.4	26	1.0	Y	0.375	3.104	SH	S
SQD28L050AF-SH	$60.00	1.1	28	0.50	Y	0.375	3.342	SH	DI
SQD28L100AF-SH	$73.00	1.8	28	1.0	Y	0.375	3.342	SH	DI
SQD30L050AF-SDS	$65.00	1.1	30	0.50	Y	0.375	3.581	SDS	DI
SQD30L100AF-SDS	$78.00	1.9	30	1.0	Y	0.375	3.581	SDS	DI
SQD32L050AF-SDS	$65.00	1.4	32	0.50	Y	0.375	3.820	SDS	DI
SQD32L100AF-SDS	$84.00	2.3	32	1.0	Y	0.375	3.820	SDS	DI
SQD36L050AF-SDS	$112.00	2.0	36	0.50	Y	0.375	4.297	SDS	DI
SQD36L100AF-SDS	$129.00	2.6	36	1.0	Y	0.375	4.297	SDS	DI
SQD40L050AF-SDS	$142.00	2.7	40	0.50	Y	0.375	4.775	SDS	DI
SQD40L100AF-SDS	$148.00	3.5	40	1.0	Y	0.375	4.775	SDS	DI
SQD44L050AF-SDS	$129.00	3.4	44	0.50	Y	0.375	5.252	SDS	DI
SQD44L100AF-SDS	$149.00	4.3	44	1.0	Y	0.375	5.252	SDS	DI
SQD48L050AF-SDS	$148.00	4.2	48	0.50	Y	0.375	5.730	SDS	DI
SQD48L100AF-SDS	$156.00	5.1	48	1.0	Y	0.375	5.730	SDS	DI
SQD60L050AF-SD ***	$153.00	5.5	60	0.50	Y	0.375	7.162	SD	CI
SQD60L100AF-SD ***	$159.00	6.6	60	1.0	Y	0.375	7.162	SD	CI
SQD72L050AF-SD ***	$156.00	8.5	72	0.50	Y	0.375	8.594	SD	CI
SQD72L100AF-SD ***	$173.00	7.3	72	1.0	Y	0.375	8.594	SD	CI
SQD84L050AF-SD ***	Retired	11.9	84	0.50	Y	0.375	10.027	SD	CI
SQD84L100AF-SD ***	$170.00	9.4	84	1.0	Y	0.375	10.027	SD	CI

Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	*Taper-Lock Bushing Required	Material**
STL20L050AF-1108	Retired	0.6	20	0.50	Y	0.375	2.387	1108	S
STL20L100AF-1108	$78.00	0.8	20	1.0	Y	0.375	2.387	1108	S
STL22L050AF-1108	$77.00	0.8	22	0.50	Y	0.375	2.626	1108	S
STL22L100AF-1108	$82.00	1.2	22	1.0	Y	0.375	2.626	1108	S
STL24L050AF-1210	$81.00	0.8	24	0.50	Y	0.375	2.865	1210	S
STL24L100AF-1210	$85.00	1.1	24	1.0	Y	0.375	2.865	1210	S
STL26L050AF-1210	$84.00	1.1	26	0.50	Y	0.375	3.104	1210	S
STL26L100AF-1210	$98.00	1.4	26	1.0	Y	0.375	3.104	1210	S
STL28L050AF-1210	$87.00	1.5	28	0.50	Y	0.375	3.342	1210	DI
STL28L100AF-1610	$109.00	1.4	28	1.0	Y	0.375	3.342	1610	DI
STL30L050AF-1610	$91.00	1.3	30	0.50	Y	0.375	3.581	1610	DI
STL30L100AF-1610	Retired	1.9	30	1.0	Y	0.375	3.581	1610	DI
STL32L050AF-1610	$96.00	1.7	32	0.50	Y	0.375	3.820	1610	DI
STL32L100AF-1610	$145.00	2.4	32	1.0	Y	0.375	3.820	1610	DI
STL36L050AF-1610	$125.00	2.3	36	0.50	Y	0.375	4.297	1610	DI
STL36L100AF-1610	$156.00	3.4	36	1.0	Y	0.375	4.297	1610	DI
STL40L050AF-2012	$148.00	3.2	40	0.50	Y	0.375	4.775	2012	DI
STL40L100AF-2012	$156.00	3.8	40	1.0	Y	0.375	4.775	2012	DI
STL48L050AF-2012	$180.00	5.5	48	0.50	Y	0.375	5.730	2012	DI
STL48L100AF-2012	$192.00	6.4	48	1.0	Y	0.375	5.730	2012	DI
STL60L050A-2012	$260.00	6.4	60	0.50	N	0.375	7.162	2012	CI
STL60L100A-2012	Retired	11	60	1.0	N	0.375	7.162	2012	CI
STL72L050A-2012	$268.00	8.9	72	0.50	N	0.375	8.594	2012	CI
STL72L100A-2012	$306.00	12.0	72	1.0	N	0.375	8.594	2012	CI
STL84L050A-2517	$292.00	16.1	84	0.50	N	0.375	10.027	2517	CI
STL84L100A-2517	$331.00	12.2	84	1.0	N	0.375	10.027	2517	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**
***** SQDxxxxxxAF-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 $12.50 (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
- Sandard bore sizes from 0.50 to 1.375 inch
- Taper-Lock® bushings start at $25.00 (TL-1108-0500)
- QD® style bushings start at $20.50 (QD-JA-0500)

Synchronous Drive Components

Product Overview

Timing Pulleys

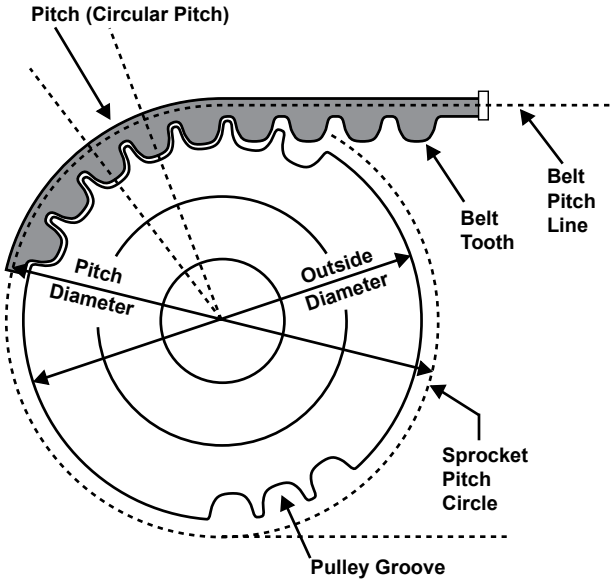
Bushings

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:

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

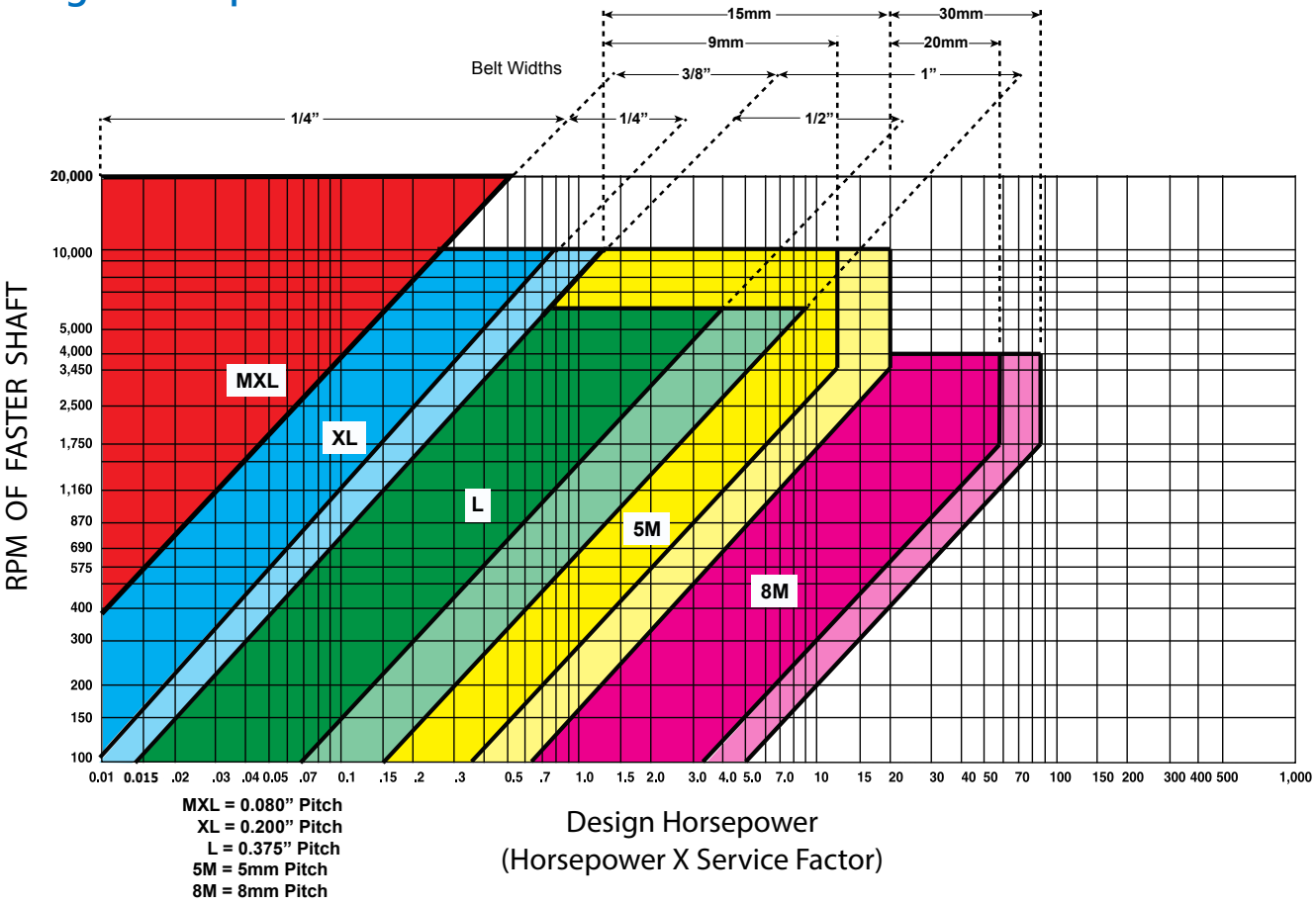
Where: T = torque (ft·lb)
N = rpm
sf = service factor per table

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

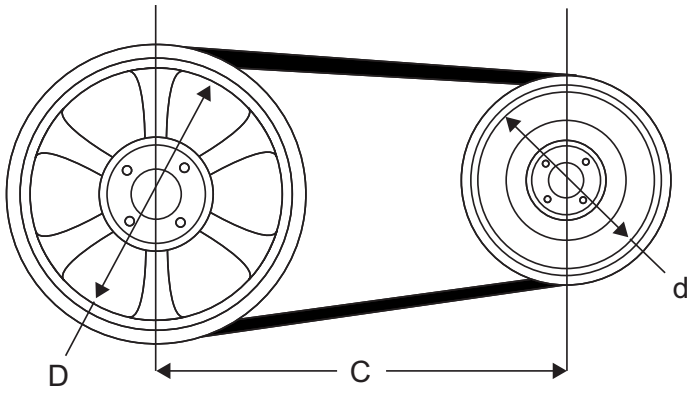
3. Determine Pitch (MXL XL or L) and belt width required by reading Design Horsepower Chart.
4. Select driver and driven pulleys to match desired speed or torque change.
5. Determine belt length per belt length calculation.

Note: AutomationDirect provides an online configuration tool to assist with pulley and belt sizing. See: www.automationdirect.com/selectors/beltandpulley

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