

E*P*S* SYNCHRONOUS TIMING BELTS

Synchronous timing belts provide an economic means of positive power transmission. They are basically flat belts with teeth on the inside circumference resulting in high efficiencies and the capability to carry heavy loads at high speeds. The belts will maintain the relative rotational positions (timing) of pulleys. Required clearance between belt and pulley teeth (.003-.012) can result in a slight backlash.

E*P*S* synchronous timing belts are available in two materials, neoprene and urethane. Neoprene belts are faced with a nylon wear surface and reinforced with fiberglass cord. Urethane belts are reinforced with polyester cord.

PIC urethane belts' high abrasion resistance allows operation in applications where the carbon black dusting encountered with other belts cannot be tolerated. The polyester cord provides shock absorption and some vibration damping capability. This belt is well suited for high speed operation with small pulleys due to its high flexibility.

Neoprene belts offer greater load carrying capabilities. The high modulus fiberglass reinforcement allows operation without periodic retensioning.

E*P*S* belts are available from PIC with two tooth forms, the usual trapezoidal form and the New, High Efficiency, HTD® Form. The HTD® belt employs a curvilinear tooth which is deeper than the trapezoidal tooth, offering the following advantages:

- Substantial belt size reductions for comparable loads. HTD® belts will carry 120% to 200% more horsepower than equivalent trapezoidal tooth belts.
- Speed ratios to 20:1.
- Up to 5.5 hp at speeds to 24000 rpm.
- Energy efficient replacement for "V" belt systems.
- Cost savings; narrower belts will handle larger loads.

HTD® belts should be considered for new designs and as cost saving replacements to solve existing problems. The stress diagram below (Figure 1) illustrates the increased load carrying ability of HTD® curvilinear form vs. the trapezoidal form.

The Design Guide for E*P*S* HTD® and E*P*S* drive systems will enable you to select the appropriate timing belts for your particular application.

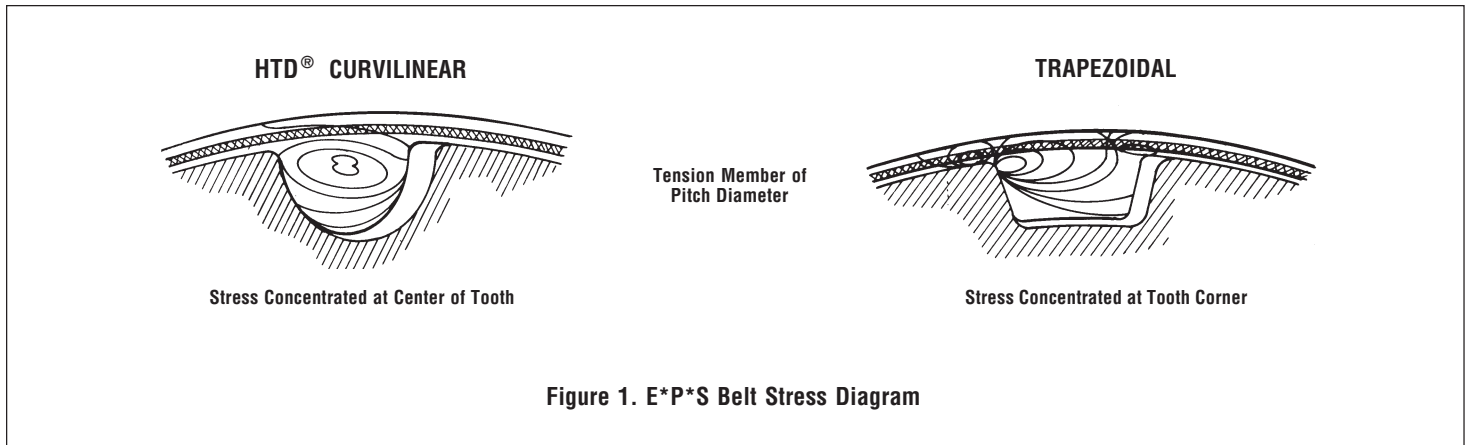


Figure 1. E*P*S* Belt Stress Diagram

Design Guide for E*P*S* HTD® E*P*S* Drive Systems

Belt Type	Tooth Form	HTD Curvilinear				Trapezoidal			
	Pitch	3 mm	5 mm	.080	.080	.0816	1/5	1/5	3/8
	Material	Neoprene	Neoprene	Neoprene	Urethane	Urethane	Neoprene	Urethane	Neoprene
Catalog Series		EPS-F-N	EPS-G-N	EPS-A-N	EPS-A-U	EPS-C-U	EPS-D-N	EPS-D-U	EPS-J-N
Operating Temperature (°F)		-30 to +185	-30 to +185	-30 to +185	-30 to +180	-30 to +180	-30 to +185	-30 to +180	-30 to +185
Positioning Capability		Limited	Limited	Good	Good	Good	Good	Good	Good
Recommended Minimum Pitch Dia. (In.)		.38	.75	.25	.25	.25	.64	.64	1.19
Pulley Minimum No. of Teeth		10	12	10	10	10	10	10	10
Recommended Maximum Speed (RPM)		24,000	14,000	20,000	20,000	20,000	10,000	10,000	6,000
Recommended Minimum Teeth in Mesh		4	4	5	5	5	5	5	5
Recommended Maximum Working Tension (Lb./In. Width)		60	100	32	21	21	41	27	55

E*P*S DRIVER SYSTEM SELECTION PROCEDURE

In order to select the correct drive system for your application, the following procedure is recommended:

1. Determine the design horsepower (Dhp).
 $Dhp = \text{rated hp} \times SF$
 Service factors (SF) of 1.5 to 2.0 are recommended for miniature timing belts. In drive systems which require a high degree of dependability or have high stock loads, higher service factors are recommended.
2. Belt pitch and pulley selection
 - a. Using the E*P*S drive belt selection chart, select the pitch belt which has the Dhp capacity at the smaller pulley speed.
 - b. The Speed Ratio is determined by dividing the larger speed, pulley pitch diameter or groove number by the lesser speed, pulley pitch diameter or groove number.
 - c. To select the proper pulley, refer to pulley dimensions listed with corresponding pitch.
 - d. The pitch line velocity of the smaller pulley should not exceed 6500 FPM.
 $PLV = .262 \times \text{Pulley PD (in.)} \times \text{Pulley RPM}$

3. To determine the proper belt length at nominal center distance, use the following formula:

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

Where L = Belt Pitch Length
 C = Center Distance
 D = Pitch Diameter Large Pulley (inches)
 d = Pitch Diameter Small Pulley (inches)

$$L_{\text{EXACT}} = 2C \cos \phi + \frac{\pi(D+d)}{2} + \frac{\pi \phi(D-d)}{180}$$

Where $\phi = \sin^{-1} \left(\frac{D-d}{2C} \right)$

4. To determine the center distance in inches when belt length and pulleys are known.

$$C_{\text{APPROX}} = \frac{K + \sqrt{K^2 - 32(D-d)^2}}{16}$$

Where $K = 4L - 6.28(D+d)$

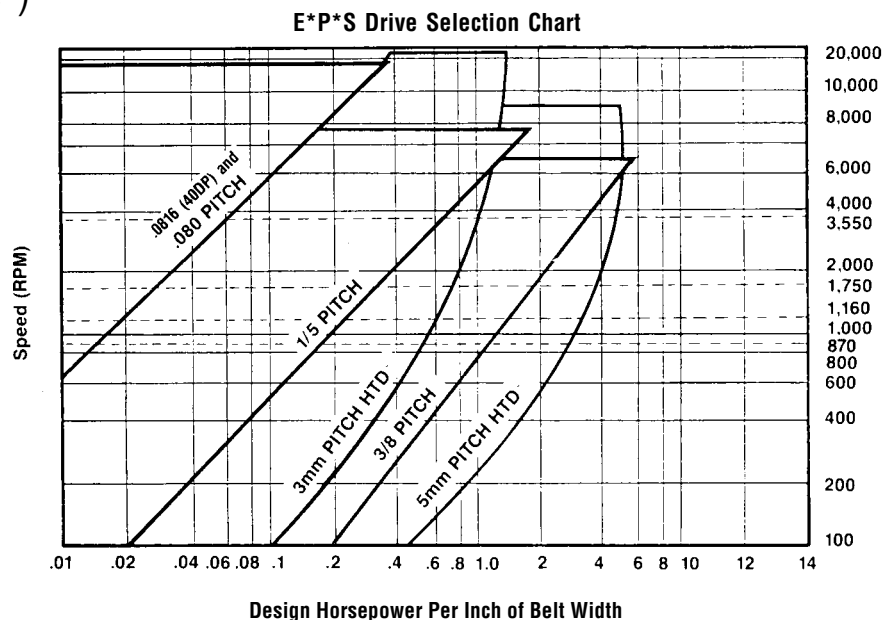
Other useful formulas:

$$HP = \frac{\text{Torque (in-lbs.)} \times \text{RPM}}{63025}$$

$$\text{Belt Speed fpm} = \text{Pitch Diameter} \times \text{RPM} \times .262$$

NOTE: If the number of teeth in mesh on the smaller pulley is less than 6, correct the design hp by the following factors:

Teeth in Mesh	Design HP Multiplication Factor
5	1.2
4	1.5
3	2.0
2	Suggest Alternative Drive
1	Suggest Alternative Drive



E*P*S TIMING BELTS

Special Length Timing Belts (Molds Available)

.080 Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
3.36	42	6.64	83	8.40	105	19.84	248
4.32	54	7.04	88	8.48	106	19.92	249
4.48	56	7.36	92	9.12	122	20.08	251
4.72	59	7.44	93	9.84	123	20.48	256
4.88	61	7.52	94	10.08	126	27.76	347
5.12	64	7.60	95	10.56	132	29.76	372
5.36	67	7.76	97	11.52	144	34.72	434
5.44	68	8.16	102	12.24	153	36.24	453
5.68	71	8.24	103	14.40	180	39.84	498
6.32	79			14.72	184	42.56	532
6.56	82			16.64	208		

.0816 Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
2.44	30	7.83	96	13.30	163	21.62	265
2.85	35	7.91	97	13.46	165	22.03	270
3.26	40	8.56	105	13.87	170	22.84	280
3.67	45	8.89	109	14.28	175	23.25	285
4.08	50	9.38	115	15.09	185	23.66	290
4.24	52	10.20	125	15.50	190	25.29	310
4.32	53	10.68	131	15.91	195	26.11	320
4.56	56	10.77	132	16.32	200	26.92	330
4.73	58	11.01	135	16.72	205	28.56	350
5.22	64	11.42	140	17.54	215	29.37	360
5.46	67	11.83	145	17.95	220	20.19	370
5.71	70	11.99	147	18.36	225	31.00	380
5.95	73	12.24	150	19.58	240	31.82	390
6.03	74	12.32	151	20.40	250	32.64	400
6.28	77	12.40	152	20.56	252	34.84	427
6.36	78	12.64	155	20.80	255	43.65	535
7.67	94	12.97	159	21.21	260		

1/5 (.200) Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
4.20	21	10.80	54	16.20	81	21.80	109	31.00	155	44.40	222
5.40	27	11.20	56	16.40	82	22.20	111	31.60	158	45.00	225
5.80	29	11.60	58	16.60	83	22.60	113	32.20	161	45.40	227
6.20	31	11.80	59	16.80	84	22.80	114	33.80	169	46.00	230
6.40	32	12.20	61	17.20	86	23.20	116	34.00	170	46.80	234
6.60	33	12.40	62	17.40	87	23.40	117	34.40	172	48.00	240
6.80	34	12.60	63	17.60	88	23.60	118	34.80	174	49.20	246
7.20	36	12.80	64	17.80	89	24.20	121	35.00	175	49.80	249
7.40	37	13.20	66	18.20	91	24.40	122	35.20	176	50.00	250
7.60	38	13.40	67	18.40	92	24.60	123	36.20	181	50.60	253
7.80	39	13.60	68	18.60	93	25.40	127	37.00	185	52.40	262
8.20	41	13.80	69	18.80	94	25.80	129	38.00	190	55.40	277
8.40	42	14.20	71	19.20	96	26.20	131	38.40	192	57.00	285
8.60	43	14.40	72	19.40	97	26.40	132	39.00	195	58.00	290
9.20	46	14.60	73	19.60	98	26.60	133	40.00	200	59.20	296
9.40	47	14.80	74	20.20	101	26.80	134	41.20	206	63.00	315
9.60	48	15.20	76	20.40	102	27.40	137	42.00	210	67.20	336
9.80	49	15.40	77	20.60	103	28.60	143	42.40	212	77.00	385
10.20	51	15.60	78	21.20	106	29.60	148	43.20	216	85.00	425
10.60	53	15.80	79	21.40	107	30.60	153	43.80	219		

3/8 (.375) Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
48.000	128	66.000	176
51.000	136	81.750	218
54.000	144	90.000	240
60.000	160		

3 mm HTD® Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
5.67	48	13.11	111
5.79	49	14.06	119
7.09	60	18.90	160
7.68	65	19.25	163
8.03	68	22.68	192
8.15	69	23.62	200
8.27	70	37.20	315
10.87	92	41.81	354
11.34	96	44.29	375
11.46	97	49.72	421
11.69	99		

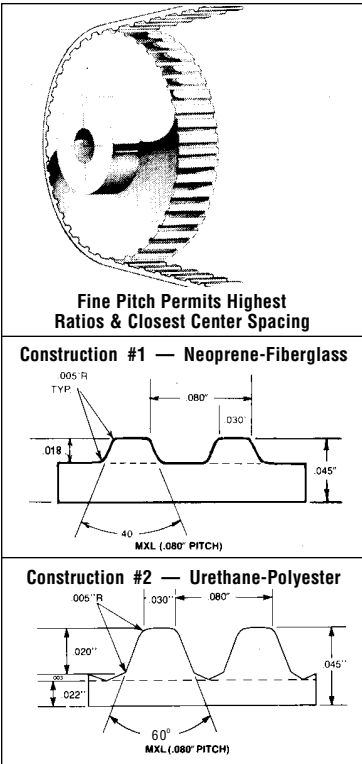
5 mm HTD® Pitch

Pitch Length	No. of Teeth	Pitch Length	No. of Teeth
36.42	185	70.47	358
41.34	210	70.87	360
44.29	225	74.61	379
50.00	254	78.74	400
55.91	284	99.41	505
62.80	319		

E*P*S TIMING BELTS

.080 Pitch, 1/8", 3/16", 1/4" Wide For Economy ■ Power ■ Speed

MXL



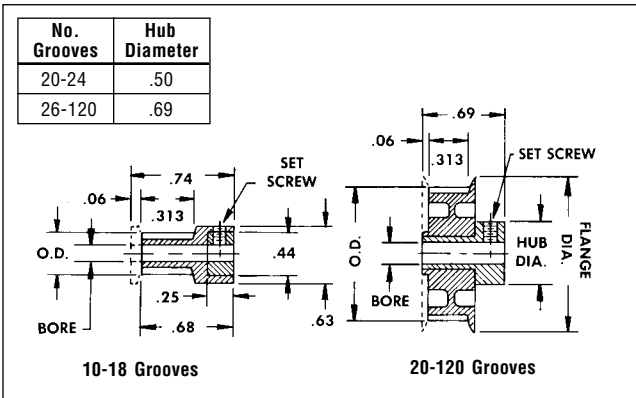
Pitch Length	No. of Grooves	Neoprene Belts			Urethane Belts*		
		1/8" Wide Belts Part No.	3/16" Wide Belts Part No.	1/4" Wide Belts Part No.	1/8" Wide Belts Part No.	3/16" Wide Belts Part No.	1/4" Wide Belts Part No.
3.60	45	EPS0045A125N	EPS0045A187N	EPS0045A250N	EPS0045A125U	EPS0045A187U	EPS0045A250U
4.00	50	EPS0050A125N	EPS0050A187N	EPS0050A250N	EPS0050A125U	EPS0050A187U	EPS0050A250U
4.40	55	EPS0055A125N	EPS0055A187N	EPS0055A250N	EPS0055A125U	EPS0055A187U	EPS0055A250U
4.80	60	EPS0060A125N	EPS0060A187N	EPS0060A250N	EPS0060A125U	EPS0060A187U	EPS0060A250U
5.60	70	EPS0070A125N	EPS0070A187N	EPS0070A250N	EPS0070A125U	EPS0070A187U	EPS0070A250U
6.40	80	EPS0080A125N	EPS0080A187N	EPS0080A250N	EPS0080A125U	EPS0080A187U	EPS0080A250U
6.80	85	EPS0085A125N	EPS0085A187N	EPS0085A250N	—	—	—
7.20	90	EPS0090A125N	EPS0090A187N	EPS0090A250N	EPS0090A125U	EPS0090A187U	EPS0090A250U
7.60	95	EPS0095A125N	EPS0095A187N	EPS0095A250N	EPS0095A125U	EPS0095A187U	EPS0095A250U
8.00	100	EPS0100A125N	EPS0100A187N	EPS0100A250N	EPS0100A125U	EPS0100A187U	EPS0100A250U
8.80	110	EPS0110A125N	EPS0110A187N	EPS0110A250N	EPS0110A125U	EPS0110A187U	EPS0110A250U
9.60	120	EPS0120A125N	EPS0120A187N	EPS0120A250N	EPS0120A125U	EPS0120A187U	EPS0120A250U
10.40	130	EPS0130A125N	EPS0130A187N	EPS0130A250N	—	—	—
11.20	140	EPS0140A125N	EPS0140A187N	EPS0140A250N	EPS0140A125U	EPS0140A187U	EPS0140A250U
12.00	150	EPS0150A125N	EPS0150A187N	EPS0150A250N	EPS0150A125U	EPS0150A187U	EPS0150A250U
13.20	165	EPS0165A125N	EPS0165A187N	EPS0165A250N	EPS0165A125U	EPS0165A187U	EPS0165A250U
14.00	175	EPS0175A125N	EPS0175A187N	EPS0175A250N	EPS0175A125U	EPS0175A187U	EPS0175A250U
15.20	190	EPS0190A125N	EPS0190A187N	EPS0190A250N	EPS0190A125U	EPS0190A187U	EPS0190A250U
16.00	200	EPS0200A125N	EPS0200A187N	EPS0200A250N	EPS0200A125U	EPS0200A187U	EPS0200A250U
16.80	210	EPS0210A125N	EPS0210A187N	EPS0210A250N	EPS0210A125U	EPS0210A187U	EPS0210A250U
18.00	225	EPS0225A125N	EPS0225A187N	EPS0225A250N	EPS0225A125U	EPS0225A187U	EPS0225A250U
20.00	250	EPS0250A125N	EPS0250A187N	EPS0250A250N	—	—	—
20.80	260	EPS0260A125N	EPS0260A187N	EPS0260A250N	EPS0260A125U	EPS0260A187U	EPS0260A250U
23.60	295	EPS0295A125N	EPS0295A187N	EPS0295A250N	EPS0295A125U	EPS0295A187U	EPS0295A250U
24.00	300	EPS0300A125N	EPS0300A187N	EPS0300A250N	EPS0300A125U	EPS0300A187U	EPS0300A250U
32.00	400	EPS0400A125N	EPS0400A187N	EPS0400A250N	EPS0400A125U	EPS0400A187U	EPS0400A250U

*For Urethane belts with Kevlar tensile member, add "K" to end of part number.

E*P*S TIMING PULLEYS

.080 Pitch, Molded, With Metal Hub or Sleeve. 1/8", to 1/4" Belt Width

MXL



Pulley Data					Single Flange	Double Flange
No. of Grooves	Pitch Dia.	Outside Dia.	Flange Dia. ±.03	Bore ±.0015 - .0000	Part Number	Part Number
10*	.255	.235	.63	.125	PT010A04K04S	PT010A04K04T
12*	.306	.286	.63	.125	PT012A04K04S	PT012A04K04T
14*	.357	.337	.63	.125	PT014A04K04S	PT014A04K04T
15*	.382	.362	.63	.187	PT015A06K04S	PT015A06K04T
16*	.407	.387	.63	.250	PT016A08K04S	PT016A08K04T
18*	.458	.438	.63	.250	PT018A08K04S	PT018A08K04T
20	.509	.489	.68	.187	PT020A06K04S	PT020A06K04T
21	.535	.515	.70	.187	PT021A06K04S	PT021A06K04T
22	.560	.540	.73	.187	PT022A06K04S	PT022A06K04T
24	.611	.591	.78	.187	PT024A06K04S	PT024A06K04T
26	.662	.642	.83	.250	PT026A08K04S	PT026A08K04T
28	.713	.693	.88	.250	PT028A08K04S	PT028A08K04T
30	.764	.744	.93	.250	PT030A08K04S	PT030A08K04T
32	.815	.795	.98	.250	PT032A08K04S	PT032A08K04T
34	.866	.846	1.04	.250	PT034A08K04S	PT034A08K04T
36	.917	.897	1.09	.250	PT036A08K04S	PT036A08K04T
38	.968	.948	1.14	.250	PT038A08K04S	PT038A08K04T
40	1.019	.999	1.19	.250	PT040A08K04S	PT040A08K04T
42	1.070	1.050	1.24	.250	PT042A08K04S	PT042A08K04T
44	1.120	1.100	1.29	.250	PT044A08K04S	PT044A08K04T
46	1.171	1.151	1.34	.250	PT046A08K04S	PT046A08K04T
48	1.222	1.202	1.39	.250	PT048A08K04S	PT048A08K04T
50	1.273	1.253	1.44	.250	PT050A08K04S	PT050A08K04T
51	1.299	1.279	1.48	.250	PT051A08K04S	PT051A08K04T
60	1.528	1.508	1.70	.250	PT060A08K04S	PT060A08K04T
70	1.783	1.763	1.95	.313	PT070A10K04S	PT070A10K04T
72	1.833	1.813	2.00	.313	PT072A10K04S	PT072A10K04T
80	2.037	2.017	2.21	.313	PT080A10K04S	PT080A10K04T
90	2.292	2.272	2.46	.313	PT090A10K04S	PT090A10K04T
100	2.546	2.526	2.71	.313	PT100A10K04S	PT100A10K04T
110	2.801	2.781	2.97	.313	PT110A10K04S	PT110A10K04T
120	3.056	3.036	3.22	.313	PT120A10K04S	PT120A10K04T

Material: Glass Filled Polycarbonate. Hub: Aluminum.

Material*: Acetal, Black

*Special materials, bores, hub styles, sizes, etc., consult factory.

Bore	Set Screw	O.D. Tolerance	
		No. Grooves	+ Tol
.125	#4-40	10-24	+ .003 - .001
.187	#6-32	25-70	+ .004 - .001
.250	#8-32	71-120	+ .005 - .001
.313	#10-32		

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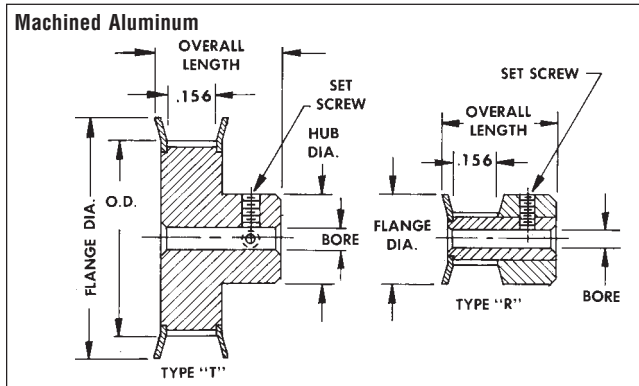
E-Mail: info@pic-design.com



E*P*S TIMING PULLEYS

MXL

.080 Pitch, 1/8" Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188	#4-40	2*
.250	#6-40	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

* 15 & 16 grooves, one set screw.

No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 -.000	Part Number
10	R	.255	.235	.425	.436	.425	.125	PT010A04L02R
11	R	.280	.260	.450	.436	.450	.125	PT011A04L02R
12	R	.306	.286	.480	.436	.480	.125	PT012A04L02R
14	R	.357	.337	.530	.436	.530	.125	PT014A04L02R
15	R	.382	.362	.555	.436	.555	.188	PT015A06L02R
16	R	.407	.387	.580	.436	.580	.188	PT016A06L02R
18	T*	.458	.438	.635	.484	.312	.188	PT018A06L02T
20	T*	.509	.486	.685	.484	.364	.188	PT020A06L02T
21	T*	.535	.515	.710	.484	.390	.188	PT021A06L02T
22	T*	.560	.540	.740	.484	.390	.188	PT022A06L02T
24	T	.611	.591	.790	.515	.442	.250	PT024A08L02T
28	T	.713	.693	.895	.515	.494	.250	PT028A08L02T
30	T	.764	.744	.945	.515	.546	.250	PT030A08L02T
32	T	.815	.795	1.000	.515	.598	.250	PT032A08L02T
36	T	.917	.897	1.105	.515	.676	.250	PT036A08L02T
40	T	1.019	.999	1.210	.531	.754	.250	PT040A08L02T
42	T	1.070	1.050	1.260	.531	.806	.250	PT042A08L02T
44	T	1.120	1.100	1.315	.531	.858	.250	PT044A08L02T
48	T	1.222	1.202	1.412	.531	.936	.250	PT048A08L02T
60	T	1.528	1.508	1.730	.531	1.222	.250	PT060A08L02T

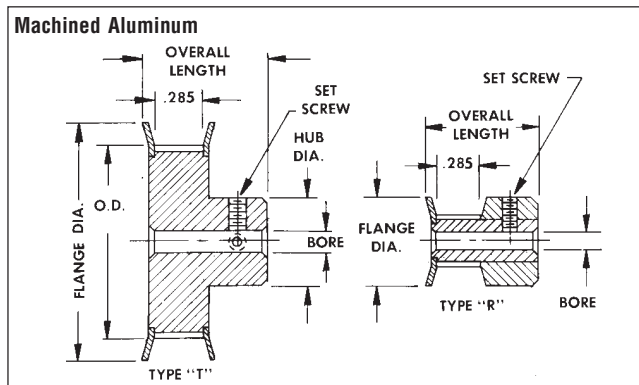
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

* Type "R" hub style available, consult factory.

E*P*S TIMING PULLEYS

MXL

.080 Pitch, 1/4" Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188 (15-16G)	#6-40	1
.188	#6-40	2
.250 (24-28G)	#6-40	2
.250	#8-32	2
.312	#8-32	2
.375	#10-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 -.000	Part Number
10	R	.255	.235	.425	.565	.425	.125	PT010A04L04R
11	R	.280	.260	.450	.565	.450	.125	PT011A04L04R
12	R	.306	.286	.480	.565	.480	.125	PT012A04L04R
14	R	.357	.337	.530	.565	.530	.125	PT014A04L04R
15	R	.382	.362	.555	.565	.555	.188	PT015A06L04R
16	R	.407	.387	.580	.565	.580	.188	PT016A06L04R
18	T*	.458	.438	.635	.625	.312	.188	PT018A06L04T
20	T*	.509	.486	.685	.625	.364	.188	PT020A06L04T
21	T*	.535	.515	.710	.625	.390	.188	PT021A06L04T
22	T*	.560	.540	.740	.625	.390	.188	PT022A06L04T
24	T	.611	.591	.790	.687	.442	.250	PT024A08L04T
28	T	.713	.693	.895	.687	.494	.250	PT028A08L04T
30	T	.764	.744	.945	.687	.546	.250	PT030A08L04T
32	T	.815	.795	1.000	.687	.598	.250	PT032A08L04T
36	T	.917	.897	1.105	.687	.676	.250	PT036A08L04T
40	T	1.019	.999	1.210	.718	.754	.250	PT040A08L04T
42	T	1.070	1.050	1.260	.718	.806	.250	PT042A08L04T
44	T	1.120	1.100	1.315	.718	.858	.250	PT044A08L04T
48	T	1.222	1.202	1.412	.718	.936	.250	PT048A08L04T
60	T	1.528	1.508	1.730	.718	1.222	.250	PT060A08L04T
60	N	1.528	1.508	—	.750	1.148	.250	PT060A08L04N
72	N	1.833	1.813	—	.750	1.195	.250	PT072A08L04N
80	N	2.037	2.017	—	.750	1.500	.312	PT080A10L04N
90	N	2.292	2.272	—	.750	1.500	.312	PT090A10L04N
100	N	2.546	2.526	—	.750	1.500	.312	PT100A10L04N
120	N	3.056	3.036	—	.750	1.500	.375	PT120A12L04N

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

*Type "R" hub style available. Consult factory.

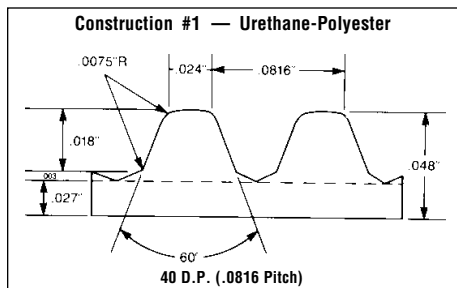
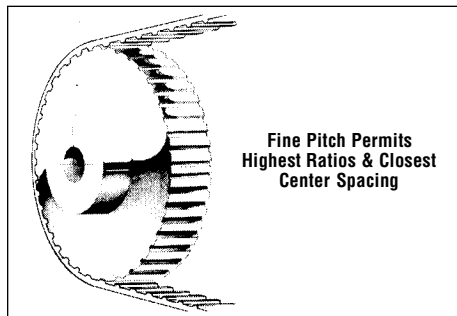
Type "N", no flange.

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E*P*S TIMING BELTS

40 D.P. (.0816 Pitch), 1/8", 1/4" Wide For Economy ■ Power ■ Speed ■ Urethane Belts*



Pitch Length	No. of Grooves	1/8" Wide Belts Part No.	1/4" Wide Belts Part No.
2.693	33	EPS0033C125U	EPS0033C250U
3.590	44	EPS0044C125U	EPS0044C250U
3.917	48	EPS0048C125U	EPS0048C250U
4.162	51	EPS0051C125U	EPS0051C250U
4.488	55	EPS0055C125U	EPS0055C250U
4.651	57	EPS0057C125U	EPS0057C250U
4.896	60	EPS0060C125U	EPS0060C250U
4.978	61	EPS0061C125U	EPS0061C250U
5.304	65	EPS0065C125U	EPS0065C250U
5.630	69	EPS0069C125U	EPS0069C250U
5.875	72	EPS0072C125U	EPS0072C250U
6.120	75	EPS0075C125U	EPS0075C250U
6.202	76	EPS0076C125U	EPS0076C250U
6.528	80	EPS0080C125U	EPS0080C250U
6.610	81	EPS0081C125U	EPS0081C250U
6.854	84	EPS0084C125U	EPS0084C250U
6.936	85	EPS0085C125U	EPS0085C250U
7.262	89	EPS0089C125U	EPS0089C250U
7.344	90	EPS0090C125U	EPS0090C250U
7.752	95	EPS0095C125U	EPS0095C250U
7.997	98	EPS0098C125U	EPS0098C250U
8.160	100	EPS0100C125U	EPS0100C250U
8.323	102	EPS0102C125U	EPS0102C250U
8.976	110	EPS0110C125U	EPS0110C250U
9.466	116	EPS0116C125U	EPS0116C250U
9.629	118	EPS0118C125U	EPS0118C250U
9.710	119	EPS0119C125U	EPS0119C250U
9.792	120	EPS0120C125U	EPS0120C250U
9.955	122	EPS0122C125U	EPS0122C250U
10.037	123	EPS0123C125U	EPS0123C250U

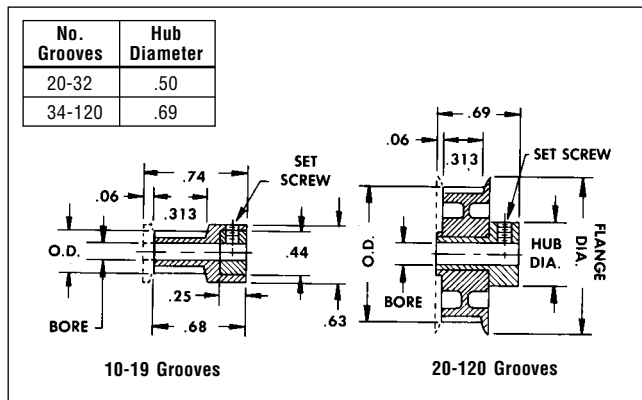
Pitch Length	No. of Grooves	1/8" Wide Belts Part No.	1/4" Wide Belts Part No.
10.608	130	EPS0130C125U	EPS0130C250U
11.342	139	EPS0139C125U	EPS0139C250U
11.669	143	EPS0143C125U	EPS0143C250U
11.750	144	EPS0144C125U	EPS0144C250U
12.158	149	EPS0149C125U	EPS0149C250U
12.485	153	EPS0153C125U	EPS0153C250U
12.566	154	EPS0154C125U	EPS0154C250U
13.056	160	EPS0160C125U	EPS0160C250U
13.219	162	EPS0162C125U	EPS0162C250U
14.525	178	EPS0178C125U	EPS0178C250U
14.688	180	EPS0180C125U	EPS0180C250U
15.667	192	EPS0192C125U	EPS0192C250U
15.749	193	EPS0193C125U	EPS0193C250U
16.973	208	EPS0208C125U	EPS0208C250U
17.136	210	EPS0210C125U	EPS0210C250U
17.462	214	EPS0214C125U	EPS0214C250U
18.768	230	EPS0230C125U	EPS0230C250U
19.176	235	EPS0235C125U	EPS0235C250U
19.992	245	EPS0245C125U	EPS0245C250U
20.971	257	EPS0257C125U	EPS0257C250U
21.053	258	EPS0258C125U	EPS0258C250U
21.542	264	EPS0264C125U	EPS0264C250U
22.440	275	EPS0275C125U	EPS0275C250U
22.930	281	EPS0281C125U	EPS0281C250U
24.072	295	EPS0295C125U	EPS0295C250U
24.480	300	EPS0300C125U	EPS0300C250U
26.438	324	EPS0324C125U	EPS0324C250U
27.744	340	EPS0340C125U	EPS0340C250U
30.110	369	EPS0369C125U	EPS0369C250U
31.987	392	EPS0392C125U	EPS0392C250U

* For urethane belts with Kevlar tensile member, add "K" to end of part number.

Note: 3/16" and 5/16" wide belts available on request.

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), Molded, With Metal Hub or Sleeve, 1/8" to 1/4" Belt Width



Material: Glass Filled Polycarbonate. Hub: Aluminum.

Material*: Acetal, Black

*Special materials, bores, hub styles, sizes, etc., consult factory.

Bore	Set Screw
.125	#4-40
.187	#6-32
.250	#8-32
.313	#10-32

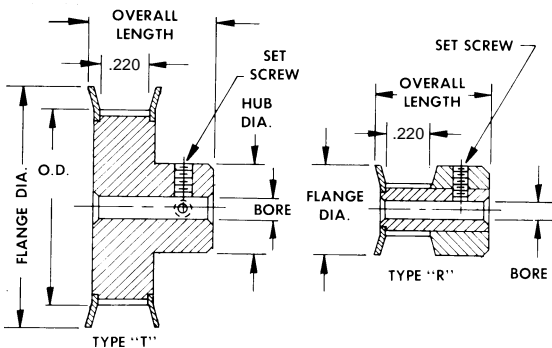
O.D. Tolerance	
No. Grooves	+ Tol
10-24	+ .003 - .001
25-70	+ .004 - .001
71-120	+ .005 - .001

Pulley Data					Single Flange	Double Flange
No. of Grooves	Pitch Dia.	Outside Dia.	Flange Dia. ±.03	Bore ±.0015 - .0000	Part Number	Part Number
10	.260	.246	.63	.125	PT010C04K04S	PT010C04K04T
14	.364	.350	.63	.125	PT014C04K04S	PT014C04K04T
15	.390	.376	.63	.187	PT015C06K04S	PT015C06K04T
16	.416	.402	.63	.250	PT016C08K04S	PT016C08K04T
18	.468	.454	.63	.250	PT018C08K04S	PT018C08K04T
19	.494	.480	.63	.250	PT019C08K04S	PT019C08K04T
20	.520	.506	.697	.187	PT020C06K04S	PT020C06K04T
22	.572	.558	.750	.187	PT022C06K04S	PT022C06K04T
24	.624	.610	.800	.187	PT024C06K04S	PT024C06K04T
25	.650	.636	.834	.250	PT025C08K04S	PT025C08K04T
26	.676	.662	.860	.250	PT026C08K04S	PT026C08K04T
28	.728	.714	.905	.250	PT028C08K04S	PT028C08K04T
29	.754	.740	.926	.250	PT029C08K04S	PT029C08K04T
30	.780	.766	.952	.250	PT030C08K04S	PT030C08K04T
32	.832	.818	1.005	.250	PT032C08K04S	PT032C08K04T
34	.884	.870	1.025	.250	PT034C08K04S	PT034C08K04T
36	.936	.922	1.107	.250	PT036C08K04S	PT036C08K04T
38	.988	.974	1.159	.250	PT038C08K04S	PT038C08K04T
40	1.040	1.026	1.212	.250	PT040C08K04S	PT040C08K04T
42	1.092	1.078	1.266	.250	PT042C08K04S	PT042C08K04T
44	1.144	1.130	1.315	.250	PT044C08K04S	PT044C08K04T
46	1.196	1.182	1.370	.250	PT046C08K04S	PT046C08K04T
48	1.248	1.234	1.442	.250	PT048C08K04S	PT048C08K04T
50	1.300	1.286	1.471	.250	PT050C08K04S	PT050C08K04T
51	1.326	1.312	1.497	.250	PT051C08K04S	PT051C08K04T
54	1.404	1.390	1.575	.250	PT054C08K04S	PT054C08K04T
60	1.560	1.546	1.723	.250	PT060C08K04S	PT060C08K04T
64	1.664	1.650	1.824	.250	PT064C08K04S	PT064C08K04T
70	1.820	1.806	1.991	.250	PT070C08K04S	PT070C08K04T
72	1.872	1.858	2.035	.313	PT072C10K04S	PT072C10K04T
75	1.950	1.936	2.121	.313	PT075C10K04S	PT075C10K04T
80	2.080	2.066	2.251	.313	PT080C10K04S	PT080C10K04T
84	2.184	2.170	2.355	.313	PT084C10K04S	PT084C10K04T
90	2.340	2.326	2.511	.313	PT090C10K04S	PT090C10K04T
98	2.548	2.534	2.719	.313	PT098C10K04S	PT098C10K04T
100	2.600	2.586	2.771	.313	PT100C10K04S	PT100C10K04T
102	2.652	2.638	2.823	.313	PT102C10K04S	PT102C10K04T
110	2.860	2.846	3.031	.313	PT110C10K04S	PT110C10K04T
120	3.120	3.106	3.365	.313	PT120C10K04S	PT120C10K04T

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), 1/8" and 3/16" Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188	#4-40	2*
.250	#6-40	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

* 15 & 16 grooves, one set screw.

No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 -.000	Part Number
10	R	.260	.246	.425	.500	.425	.125	PT010C04L02R
11	R	.286	.272	.450	.500	.450	.125	PT011C04L02R
12	R	.312	.298	.480	.500	.480	.125	PT012C04L02R
14	R	.364	.350	.530	.500	.530	.125	PT014C04L02R
15	R	.390	.376	.555	.500	.555	.188	PT015C06L02R
16	R	.416	.402	.580	.500	.580	.188	PT016C06L02R
18	T*	.468	.454	.635	.563	.312	.188	PT018C06L02T
20	T*	.520	.506	.685	.563	.364	.188	PT020C06L02T
21	T*	.546	.532	.710	.563	.390	.188	PT021C06L02T
22	T*	.572	.558	.740	.563	.390	.188	PT022C06L02T
24	T	.624	.610	.790	.625	.442	.250	PT024C08L02T
28	T	.728	.714	.895	.625	.494	.250	PT028C08L02T
30	T	.780	.766	.945	.625	.546	.250	PT030C08L02T
32	T	.832	.818	1.000	.625	.598	.250	PT032C08L02T
36	T	.936	.922	1.105	.625	.676	.250	PT036C08L02T
40	T	1.040	1.026	1.210	.656	.754	.250	PT040C08L02T
42	T	1.092	1.078	1.260	.656	.806	.250	PT042C08L02T
44	T	1.144	1.130	1.315	.656	.858	.250	PT044C08L02T
48	T	1.248	1.234	1.420	.656	.936	.250	PT048C08L02T
60	T	1.560	1.546	1.730	.656	1.222	.250	PT060C08L02T

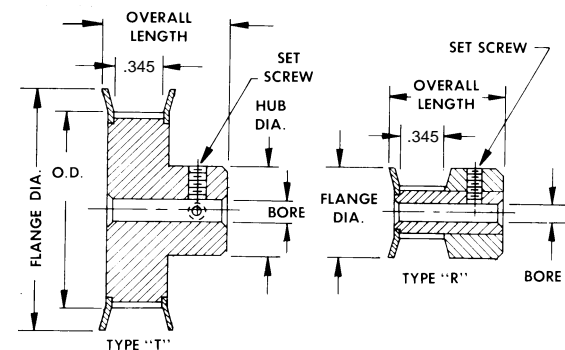
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

* Type "R" hub style available, consult factory.

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), 1/4" and 5/16" Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188 (15-16G)	#6-40	1
.188	#6-40	2
.250 (24-28G)	#6-40	2
.250	#8-32	2
.312	#8-32	2
.375	#10-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 -.000	Part Number
10	R	.260	.246	.425	.625	.425	.125	PT010C04L04R
11	R	.286	.272	.450	.625	.450	.125	PT011C04L04R
12	R	.312	.298	.480	.625	.480	.125	PT012C04L04R
14	R	.364	.350	.530	.625	.530	.125	PT014C04L04R
15	R	.390	.376	.555	.625	.555	.188	PT015C06L04R
16	R	.416	.402	.580	.625	.580	.188	PT016C06L04R
18	T*	.468	.454	.635	.688	.312	.188	PT018C06L04T
20	T*	.520	.506	.685	.688	.364	.188	PT020C06L04T
21	T*	.546	.532	.710	.688	.390	.188	PT021C06L04T
22	T*	.572	.558	.740	.688	.390	.188	PT022C06L04T
24	T	.624	.610	.790	.750	.442	.250	PT024C08L04T
28	T	.728	.714	.895	.750	.494	.250	PT028C08L04T
30	T	.780	.766	.945	.750	.546	.250	PT030C08L04T
32	T	.832	.818	1.000	.750	.598	.250	PT032C08L04T
36	T	.936	.922	1.105	.750	.676	.250	PT036C08L04T
40	T	1.040	1.026	1.210	.781	.754	.250	PT040C08L04T
42	T	1.092	1.078	1.260	.781	.806	.250	PT042C08L04T
44	T	1.144	1.130	1.315	.781	.858	.250	PT044C08L04T
48	T	1.248	1.234	1.420	.781	.936	.250	PT048C08L04T
60	T	1.560	1.546	1.730	.781	1.222	.250	PT060C08L04T
60	N	1.560	1.546	—	.875	1.184	.250	PT060C08L04N
72	N	1.872	1.858	—	.875	1.195	.250	PT072C08L04N
80	N	2.080	2.066	—	.875	1.500	.250	PT080C08L04N
90	N	2.340	2.326	—	.875	1.500	.250	PT090C08L04N
100	N	2.600	2.586	—	.875	1.500	.312	PT100C10L04N
120	N	3.120	3.106	—	.875	1.500	.375	PT120C12L04N

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

*Type "R" hub style available. Consult factory. Type "N", no flange.

Note: Pulleys over 60 grooves are without flanges.

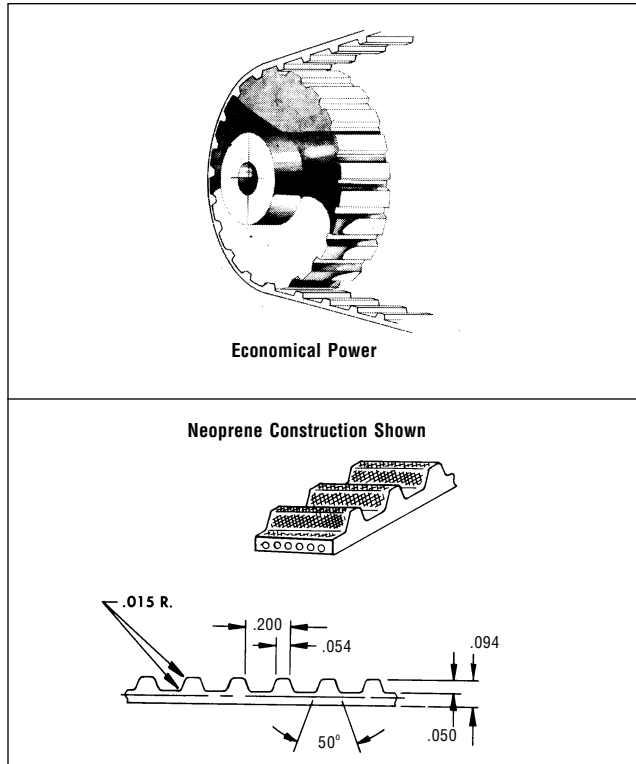
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PIC DESIGN®

E*P*S TIMING BELTS

1/5" (.200) Pitch, 1/4", 3/8" Wide For Economy ■ Power ■ Speed

XL



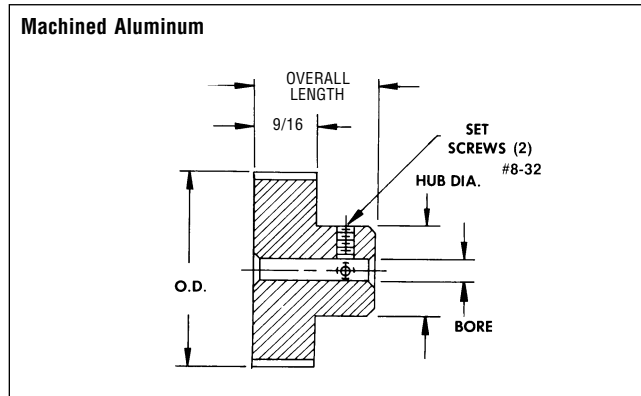
Pitch Length	No. of Grooves	Neoprene Belts		Urethane Belts*	
		1/4" Wide Belts Part No.	3/8" Wide Belts Part No.	1/4" Wide Belts Part No.	3/8" Wide Belts Part No.
5.00	25	EPS0025D250N	EPS0025D375N	—	—
6.00	30	EPS0030D250N	EPS0030D375N	EPS0030D250U	EPS0030D375U
7.00	35	EPS0035D250N	EPS0035D375N	EPS0035D250U	EPS0035D375U
8.00	40	EPS0040D250N	EPS0040D375N	EPS0040D250U	EPS0040D375U
9.00	45	EPS0045D250N	EPS0045D375N	EPS0045D250U	EPS0045D375U
10.00	50	EPS0050D250N	EPS0050D375N	EPS0050D250U	EPS0050D375U
11.00	55	EPS0055D250N	EPS0055D375N	EPS0055D250U	EPS0055D375U
12.00	60	EPS0060D250N	EPS0060D375N	EPS0060D250U	EPS0060D375U
13.00	65	EPS0065D250N	EPS0065D375N	EPS0065D250U	EPS0065D375U
14.00	70	EPS0070D250N	EPS0070D375N	EPS0070D250U	EPS0070D375U
15.00	75	EPS0075D250N	EPS0075D375N	EPS0075D250U	EPS0075D375U
16.00	80	EPS0080D250N	EPS0080D375N	EPS0080D250U	EPS0080D375U
17.00	85	EPS0085D250N	EPS0085D375N	EPS0085D250U	EPS0085D375U
18.00	90	EPS0090D250N	EPS0090D375N	EPS0090D250U	EPS0090D375U
19.00	95	EPS0095D250N	EPS0095D375N	EPS0095D250U	EPS0095D375U
20.00	100	EPS0100D250N	EPS0100D375N	EPS0100D250U	EPS0100D375U
21.00	105	EPS0105D250N	EPS0105D375N	EPS0105D250U	EPS0105D375U
22.00	110	EPS0110D250N	EPS0110D375N	EPS0110D250U	EPS0110D375U
23.00	115	EPS0115D250N	EPS0115D375N	EPS0115D250U	EPS0115D375U
24.00	120	EPS0120D250N	EPS0120D375N	EPS0120D250U	EPS0120D375U
25.00	125	EPS0125D250N	EPS0125D375N	EPS0125D250U	EPS0125D375U
26.00	130	EPS0130D250N	EPS0130D375N	EPS0130D250U	EPS0130D375U
28.00	140	EPS0140D250N	EPS0140D375N	—	—
29.00	145	EPS0145D250N	EPS0145D375N	EPS0145D250U	EPS0145D375U
30.00	150	EPS0150D250N	EPS0150D375N	—	—
31.00	155	EPS0155D250N	EPS0155D375N	—	—
33.00	165	EPS0165D250N	EPS0165D375N	—	—

*For Urethane belts with Kevlar tensile member, add "K" to end of part number.

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 3/8" Belt Width, No Flange

XL



Material: Aluminum Alloy, Anodized

No. of Grooves	Pitch Diameter	Outside Diameter	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 - .000	Standard Bore Part Number
10	.637	.617	.813	.438	.188	PT010D06L06N
11	.700	.680	.813	.500	.188	PT011D06L06N
12	.764	.744	.813	.563	.188	PT012D06L06N
14	.891	.871	.813	.625	.250	PT014D08L06N
15	.955	.935	.875	.688	.250	PT015D08L06N
16	1.019	.999	.875	.750	.250	PT016D08L06N
17	1.082	1.062	.875	.813	.250	PT017D08L06N
18	1.146	1.126	.875	.875	.250	PT018D08L06N
19	1.210	1.190	.875	.875	.250	PT019D08L06N
20	1.273	1.253	.938	.938	.250	PT020D08L06N
21	1.337	1.317	.938	1.000	.250	PT021D08L06N
22	1.401	1.381	.938	1.063	.250	PT022D08L06N
23	1.464	1.444	.938	1.125	.250	PT023D08L06N
24	1.528	1.508	.938	1.188	.250	PT024D08L06N
25	1.592	1.572	.938	1.250	.250	PT025D08L06N
27	1.719	1.699	.938	1.250	.313	PT027D10L06N
28	1.783	1.763	.938	1.250	.250	PT028D08L06N
29	1.846	1.826	.938	1.313	.313	PT029D10L06N
30	1.910	1.890	.938	1.375	.250	PT030D08L06N
32	2.037	2.017	1.000	1.500	.313	PT032D10L06N
36	2.292	2.272	1.000	1.500	.313	PT036D10L06N

Bore	Set Screw	Quantity
.188	#6-40	1
.250	#8-32	2
.313	#8-32	2

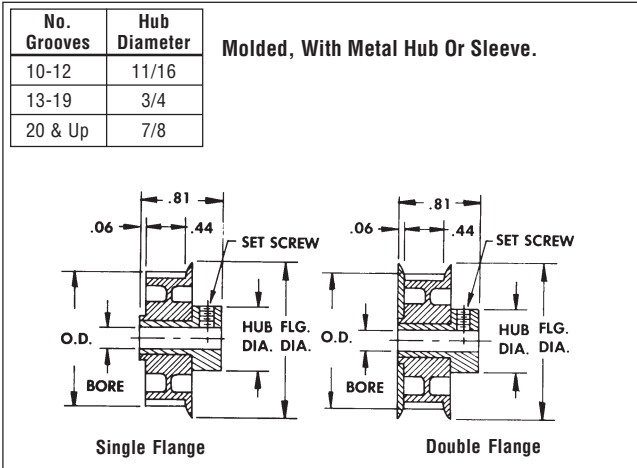
O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING PULLEYS

XL

1/5" (.200) Pitch, 3/8" Belt Width, Single & Double Flange



Material: Glass Filled Polycarbonate.

Bore	Set Screw
.187	#6-32
.250	#8-32
.313	#10-32

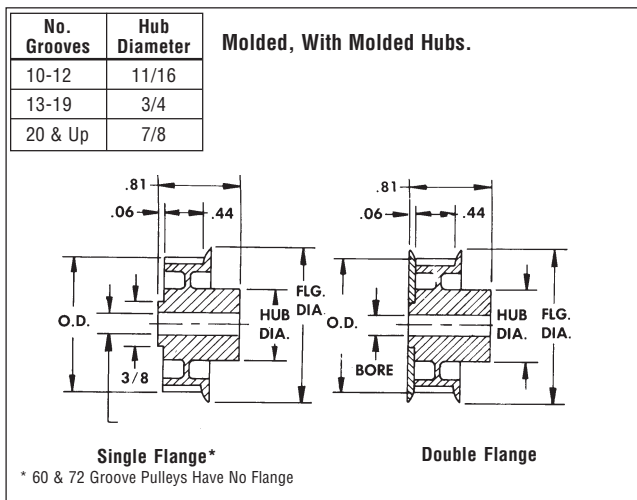
O.D. Tolerance	
No. Grooves	+ Tol
10 - 28	+ .003 - .001
29 - 58	+ .004 - .001
60 - 72	+ .005 - .001

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

Pulley Data					Single Flange	Double Flange
No. of Grooves	Pitch Dia.	Outside Dia.	Flange Dia. ±.030	Bore +.0015 -.0000	Part Number	Part Number
10	.637	.617	.87	.187	PT010D06K06S	PT010D06K06T
11	.700	.680	.93	.187	PT011D06K06S	PT011D06K06T
12	.764	.744	.99	.187	PT012D06K06S	PT012D06K06T
13	.828	.808	1.06	.187	PT013D06K06S	PT013D06K06T
14	.891	.871	1.12	.250	PT014D08K06S	PT014D08K06T
15	.955	.935	1.19	.250	PT015D08K06S	PT015D08K06T
16	1.019	.999	1.24	.250	PT016D08K06S	PT016D08K06T
17	1.082	1.062	1.31	.250	PT017D08K06S	PT017D08K06T
18	1.146	1.126	1.39	.250	PT018D08K06S	PT018D08K06T
19	1.210	1.190	1.44	.250	PT019D08K06S	PT019D08K06T
20	1.273	1.253	1.51	.250	PT020D08K06S	PT020D08K06T
21	1.337	1.317	1.57	.250	PT021D08K06S	PT021D08K06T
22	1.401	1.381	1.63	.250	PT022D08K06S	PT022D08K06T
23	1.464	1.444	1.69	.250	PT023D08K06S	PT023D08K06T
24	1.528	1.508	1.76	.250	PT024D08K06S	PT024D08K06T
25	1.592	1.572	1.82	.250	PT025D08K06S	PT025D08K06T
26	1.655	1.635	1.89	.250	PT026D08K06S	PT026D08K06T
27	1.719	1.699	1.95	.250	PT027D08K06S	PT027D08K06T
28	1.783	1.763	2.02	.250	PT028D08K06S	PT028D08K06T
29	1.846	1.826	2.08	.250	PT029D08K06S	PT029D08K06T
30	1.910	1.890	2.14	.313	PT030D10K06S	PT030D10K06T
31	1.974	1.954	2.20	.313	PT031D10K06S	PT031D10K06T
32	2.037	2.017	2.27	.313	PT032D10K06S	PT032D10K06T
34	2.165	2.145	2.40	.313	PT034D10K06S	PT034D10K06T
35	2.228	2.208	2.46	.313	PT035D10K06S	PT035D10K06T
36	2.292	2.272	2.53	.313	PT036D10K06S	PT036D10K06T
37	2.355	2.335	2.59	.313	PT037D10K06S	PT037D10K06T
39	2.482	2.462	2.71	.313	PT039D10K06S	PT039D10K06T
40	2.546	2.526	2.78	.313	PT040D10K06S	PT040D10K06T
42	2.674	2.654	2.92	.313	PT042D10K06S	PT042D10K06T
44	2.801	2.781	3.04	.313	PT044D10K06S	PT044D10K06T
48	3.056	3.036	3.29	.313	PT048D10K06S	PT048D10K06T

XL

1/5" (.200) Pitch, 3/8" Belt Width, Single & Double Flange



Material: Glass Filled Polycarbonate.

O.D. Tolerance	
No. Grooves	+ Tol
10 - 28	+ .003
29 - 58	+ .004
60 - 72	+ .005

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

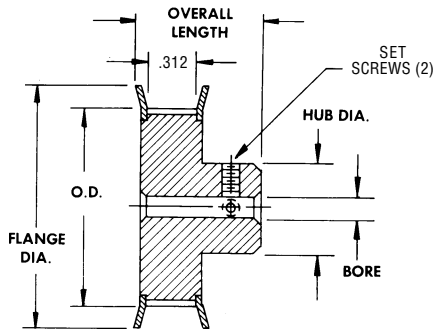
Pulley Data					Single Flange	Double Flange
No. of Grooves	Pitch Dia.	Outside Dia.	Flange Dia. ±.030	Bore +.002 -.000	Part Number	Part Number
10	.637	.617	.87	.187	PT010D06J06S	PT010D06J06T
11	.700	.680	.93	.187	PT011D06J06S	PT011D06J06T
12	.764	.744	.99	.187	PT012D06J06S	PT012D06J06T
13	.828	.808	1.06	.187	PT013D06J06S	PT013D06J06T
14	.891	.871	1.12	.250	PT014D08J06S	PT014D08J06T
15	.955	.935	1.19	.250	PT015D08J06S	PT015D08J06T
16	1.019	.999	1.24	.250	PT016D08J06S	PT016D08J06T
17	1.082	1.062	1.31	.250	PT017D08J06S	PT017D08J06T
18	1.146	1.126	1.39	.250	PT018D08J06S	PT018D08J06T
19	1.210	1.190	1.44	.250	PT019D08J06S	PT019D08J06T
20	1.273	1.253	1.51	.250	PT020D08J06S	PT020D08J06T
21	1.337	1.317	1.57	.250	PT021D08J06S	PT021D08J06T
22	1.401	1.381	1.63	.250	PT022D08J06S	PT022D08J06T
23	1.464	1.444	1.69	.250	PT023D08J06S	PT023D08J06T
24	1.528	1.508	1.76	.250	PT024D08J06S	PT024D08J06T
25	1.592	1.572	1.82	.250	PT025D08J06S	PT025D08J06T
26	1.655	1.635	1.89	.250	PT026D08J06S	PT026D08J06T
27	1.719	1.699	1.95	.250	PT027D08J06S	PT027D08J06T
28	1.783	1.763	2.02	.250	PT028D08J06S	PT028D08J06T
29	1.846	1.826	2.08	.250	PT029D08J06S	PT029D08J06T
30	1.910	1.890	2.14	.313	PT030D10J06S	PT030D10J06T
31	1.974	1.954	2.20	.313	PT031D10J06S	PT031D10J06T
32	2.037	2.017	2.27	.313	PT032D10J06S	PT032D10J06T
34	2.165	2.145	2.40	.313	PT034D10J06S	PT034D10J06T
35	2.228	2.208	2.46	.313	PT035D10J06S	PT035D10J06T
36	2.292	2.272	2.53	.313	PT036D10J06S	PT036D10J06T
37	2.355	2.335	2.59	.313	PT037D10J06S	PT037D10J06T
39	2.482	2.462	2.71	.313	PT039D10J06S	PT039D10J06T
40	2.546	2.526	2.78	.313	PT040D10J06S	PT040D10J06T
42	2.674	2.654	2.92	.313	PT042D10J06S	PT042D10J06T
44	2.801	2.781	3.04	.313	PT044D10J06S	PT044D10J06T
48	3.056	3.036	3.29	.313	PT048D10J06S	PT048D10J06T
58	3.692	3.672	3.92	.375	PT058D12J06S	—
60*	3.820	3.800	4.05	.375	PT060D12J06N	—
72*	4.584	4.564	4.81	.375	PT072D12J06N	—
78	4.966	4.946	5.19	.375	PT078D12J06S	—

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 1/4" Belt Width, Double Flange

XL

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.188	#6-40	2
.250	#8-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

No. of Grooves	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 -.000	Bore Part Number
10	.637	.617	.875	.688	.375	.188	PT010D06L04T
11	.700	.680	.938	.688	.438	.188	PT011D06L04T
12	.764	.744	1.000	.688	.500	.188	PT012D06L04T
13	.828	.808	1.063	.688	.563	.250	PT013D08L04T
14	.891	.871	1.095	.688	.563	.250	PT014D08L04T
15	.955	.935	1.188	.688	.625	.250	PT015D08L04T
16	1.019	.999	1.250	.688	.688	.250	PT016D08L04T
18	1.146	1.126	1.375	.688	.813	.250	PT018D08L04T
20	1.273	1.253	1.500	.750	.938	.250	PT020D08L04T
21	1.337	1.317	1.563	.750	1.000	.250	PT021D08L04T
22	1.401	1.381	1.625	.750	1.000	.250	PT022D08L04T
24	1.528	1.508	1.750	.781	1.063	.250	PT024D08L04T
26	1.655	1.635	1.875	.781	1.188	.250	PT026D08L04T
28	1.783	1.763	2.000	.781	1.188	.250	PT028D08L04T
30	1.910	1.890	2.125	.781	1.313	.250	PT030D08L04T

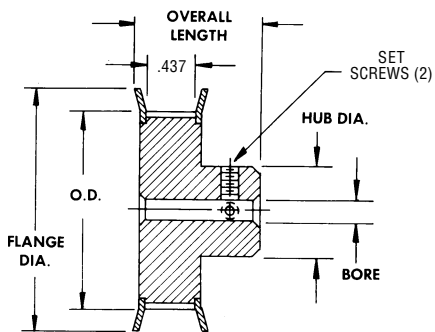
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 3/8" Belt Width, Double Flange

XL

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.188	#6-40	2
.250	#8-32	2
.313	#8-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

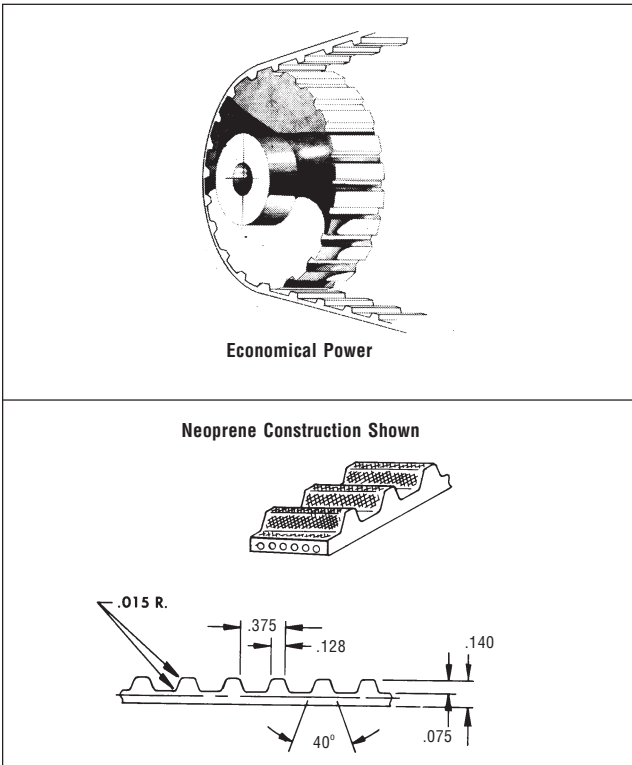
No. of Grooves	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 -.000	Bore Part Number
10	.637	.617	.875	.813	.438	.188	PT010D06L06T
11	.700	.680	.938	.813	.500	.188	PT011D06L06T
12	.764	.744	1.000	.813	.500	.188	PT012D06L06T
13	.828	.808	1.063	.813	.563	.250	PT013D08L06T
14	.891	.871	1.095	.813	.563	.250	PT014D08L06T
15	.955	.935	1.188	.813	.625	.250	PT015D08L06T
16	1.019	.999	1.250	.813	.688	.250	PT016D08L06T
17	1.082	1.062	1.313	.813	.750	.250	PT017D08L06T
18	1.146	1.126	1.375	.813	.813	.250	PT018D08L06T
19	1.210	1.190	1.438	.813	.875	.250	PT019D08L06T
20	1.273	1.253	1.500	.875	.938	.250	PT020D08L06T
21	1.337	1.317	1.563	.875	1.000	.250	PT021D08L06T
22	1.401	1.381	1.625	.875	1.000	.250	PT022D08L06T
23	1.464	1.444	1.688	.875	1.063	.250	PT023D08L06T
24	1.528	1.508	1.750	.906	1.063	.250	PT024D08L06T
25	1.592	1.572	1.813	.906	1.095	.250	PT025D08L06T
26	1.655	1.635	1.875	.906	1.188	.250	PT026D08L06T
28	1.783	1.763	2.000	.906	1.188	.250	PT028D08L06T
30	1.910	1.890	2.125	.906	1.313	.250	PT030D08L06T
32	2.037	2.017	2.250	.906	1.438	.313	PT032D10L06T

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING BELTS

3/8" Pitch, 1/2" Wide For Economy ■ Power ■ Speed

L



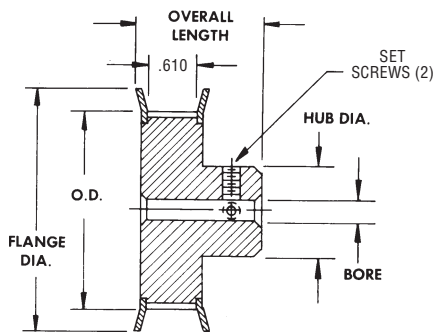
Pitch Length	Number of Teeth	1/2" Wide Part Number
12.375	33	EPS0033J500N
13.500	36	EPS0036J500N
15.000	40	EPS0040J500N
16.500	44	EPS0044J500N
18.750	50	EPS0050J500N
19.500	52	EPS0052J500N
21.000	56	EPS0056J500N
22.500	60	EPS0060J500N
24.000	64	EPS0064J500N
25.500	68	EPS0068J500N
27.000	72	EPS0072J500N
28.500	76	EPS0076J500N
30.000	80	EPS0080J500N
31.500	84	EPS0084J500N
32.250	86	EPS0086J500N
34.500	92	EPS0092J500N
36.700	98	EPS0098J500N
39.000	104	EPS0104J500N
42.000	112	EPS0112J500N
45.000	120	EPS0120J500N

E*P*S TIMING PULLEYS

3/8" Pitch, 1/2" Belt Width, Double Flange

L

Machined Aluminum



Material: 10-24 Grooves — Aluminum Alloy, Anodized.
26-32 Grooves — Cast Iron. No hole for set screw on Cast Iron Pulleys.

No. of Grooves	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 -.000	Standard Bore Part Number
10	1.194	1.164	1.438	1.125	.875	.375	PT010J12L08T
11	1.313	1.283	1.531	1.125	1.000	.375	PT011J12L08T
12	1.432	1.402	1.656	1.188	1.125	.375	PT012J12L08T
13	1.552	1.552	1.781	1.188	1.125	.375	PT013J12L08T
14	1.671	1.641	1.906	1.188	1.250	.375	PT014J12L08T
15	1.790	1.760	2.031	1.250	1.375	.375	PT015J12L08T
16	1.910	1.880	2.125	1.250	1.375	.500	PT016J16L08T
17	2.029	1.999	2.250	1.250	1.500	.500	PT017J16L08T
18	2.149	2.119	2.375	1.250	1.625	.500	PT018J16L08T
19	2.268	2.238	2.500	1.313	1.688	.500	PT019J16L08T
20	2.387	2.357	2.625	1.313	1.813	.500	PT020J16L08T
21	2.507	2.477	2.750	1.375	2.000	.500	PT021J16L08T
22	2.626	2.596	2.875	1.375	2.125	.500	PT022J16L08T
24	2.865	2.835	3.094	1.375	2.250	.500	PT024J16L08T
26	3.104	3.074	3.375	1.500	2.250	.500	PT026J16L08T
28	3.342	3.312	3.625	1.500	2.250	.500	PT028J16L08T
30	3.581	3.551	3.813	1.500	2.250	.500	PT030J16L08T
32	3.820	3.790	4.063	1.625	2.563	.500	PT032J16L08T

*Alternate Bores Available, Consult Factory.
OEM Quantity Discounts, Consult Factory.
Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

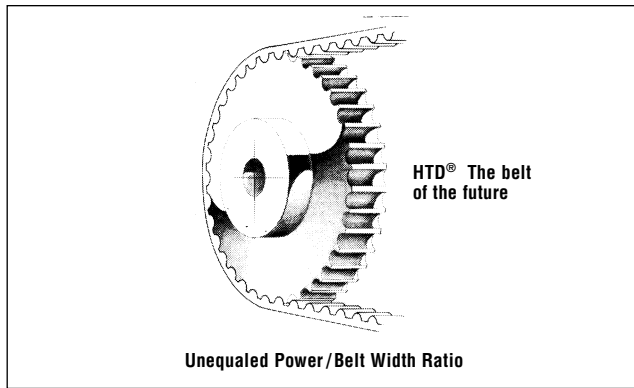
Bore	Set Screw	O.D. Tolerance	
		O.D.	Tol
3/8	#10-32	1.001-2.000	+ .003
1/2	#1/4-20	2.001-4.000	+ .004

Phone: 800-243-6125 ■ FAX: 203-758-8271
E-Mail: info@pic-design.com

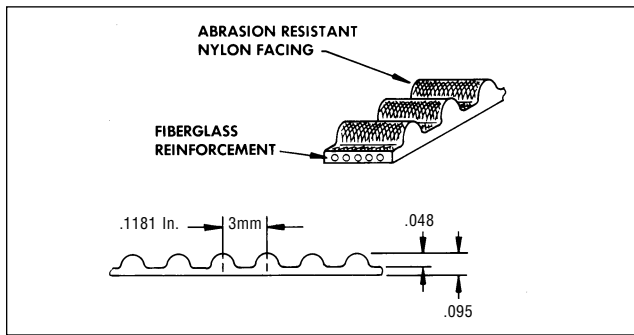


E*P*S HTD® TIMING BELTS

3mm HTD® Pitch, 6mm & 9mm Wide For Economy ■ Power ■ Speed



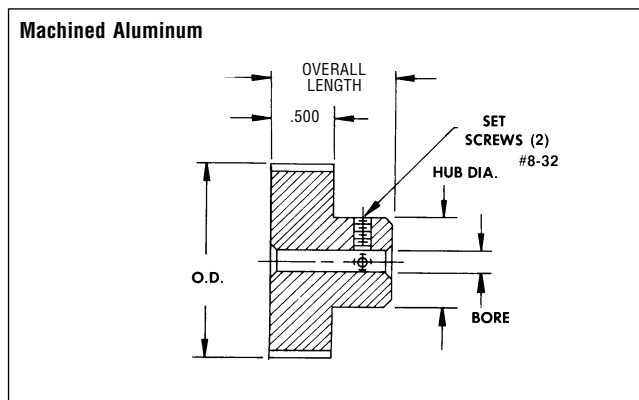
Material: Neoprene with nylon wear surface & helically-wound fiberglass reinforcing



Pitch Length		Number of Grooves	6mm Wide Belts Part Number	9mm Wide Belts Part Number
Inch	mm			
5.91	150	50	EPS0050F06mN	EPS0050F09mN
6.26	159	53	EPS0053F06mN	EPS0053F09mN
6.61	168	56	EPS0056F06mN	EPS0056F09mN
6.97	177	59	EPS0059F06mN	EPS0059F09mN
7.91	201	67	EPS0067F06mN	EPS0067F09mN
8.39	213	71	EPS0071F06mN	EPS0071F09mN
8.86	225	75	EPS0075F06mN	EPS0075F09mN
9.92	252	84	EPS0084F06mN	EPS0084F09mN
10.04	255	85	EPS0085F06mN	EPS0085F09mN
10.51	267	89	EPS0089F06mN	EPS0089F09mN
11.22	285	95	EPS0095F06mN	EPS0095F09mN
11.81	300	100	EPS0100F06mN	EPS0100F09mN
12.28	312	104	EPS0104F06mN	EPS0104F09mN
12.52	318	106	EPS0106F06mN	EPS0106F09mN
13.35	339	113	EPS0113F06mN	EPS0113F09mN
14.29	363	121	EPS0121F06mN	EPS0121F09mN
15.12	384	128	EPS0128F06mN	EPS0128F09mN
15.35	390	130	EPS0130F06mN	EPS0130F09mN
16.54	420	140	EPS0140F06mN	EPS0140F09mN
17.60	447	149	EPS0149F06mN	EPS0149F09mN
18.66	474	158	EPS0158F06mN	EPS0158F09mN
19.13	486	162	EPS0162F06mN	EPS0162F09mN
19.72	501	167	EPS0167F06mN	EPS0167F09mN
20.20	513	171	EPS0171F06mN	EPS0171F09mN
20.91	531	177	EPS0177F06mN	EPS0177F09mN
22.20	564	188	EPS0188F06mN	EPS0188F09mN
23.50	597	199	EPS0199F06mN	EPS0199F09mN
24.92	633	211	EPS0211F06mN	EPS0211F09mN
26.34	669	223	EPS0223F06mN	EPS0223F09mN

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 9mm Belt Width, No Flanges



Material: Aluminum Alloy, Anodized

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

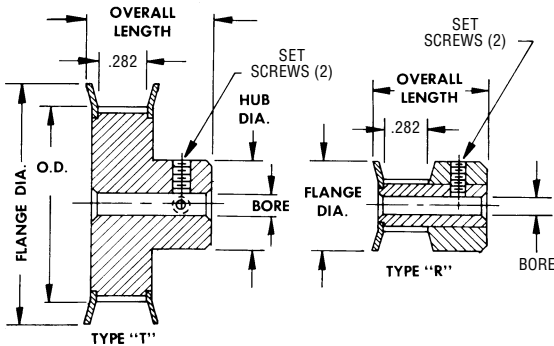
No. of Grooves	Pitch Diameter	Outside Diameter	Overall Diameter ±.016	Hub Diameter ±.016	Standard Bore +.001 - .000	Part Number
18	.677	.647	.812	.442	.250	PT018F08L09N
19	.714	.684	.812	.468	.250	PT019F08L09N
20	.752	.722	.812	.500	.250	PT020F08L09N
22	.827	.797	.812	.562	.250	PT022F08L09N
24	.902	.872	.812	.625	.250	PT024F08L09N
25	.940	.910	.812	.625	.250	PT025F08L09N
26	.977	.947	.812	.625	.250	PT026F08L09N
28	1.053	1.023	.812	.701	.250	PT028F08L09N
30	1.128	1.098	.812	.776	.250	PT030F08L09N
32	1.203	1.173	.812	.851	.250	PT032F08L09N
34	1.278	1.248	.834	.921	.250	PT034F08L09N
36	1.353	1.323	.834	1.000	.250	PT036F08L09N
38	1.429	1.399	.834	1.075	.250	PT038F08L09N
40	1.504	1.474	.834	1.150	.250	PT040F08L09N
44	1.654	1.624	.834	1.300	.250	PT044F08L09N
48	1.805	1.775	.875	1.250	.313	PT048F10L09N
50	1.880	1.850	.875	1.250	.313	PT050F10L09N
56	2.105	2.075	.875	1.250	.313	PT056F10L09N
60	2.256	2.226	.875	1.250	.313	PT060F10L09N
62	2.331	2.301	.875	1.250	.313	PT062F10L09N
72	2.707	2.677	.875	1.250	.313	PT072F10L09N

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 6mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188	#4-40*	2*
.250	#8-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

* 12 groove, #4-40 (1)

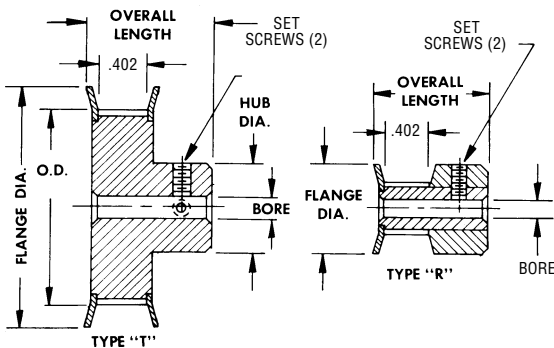
No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 - .000	Part Number
10	R	.376	.346	.505	.562	.505	.125	PT010F04L06R
11	R	.414	.384	.530	.562	.530	.125	PT011F04L06R
12	R	.451	.421	.580	.562	.580	.188	PT012F06L06R
13	R	.489	.459	.610	.572	.610	.188	PT013F06L06R
14	R	.526	.496	.635	.572	.635	.188	PT014F06L06R
15	R	.564	.534	.685	.572	.685	.188	PT015F06L06R
16	R	.602	.572	.710	.572	.710	.188	PT016F06L06R
17	R	.639	.609	.740	.572	.740	.188	PT017F06L06R
18	T	.677	.647	.790	.691	.442	.250	PT018F08L06T
19	T	.714	.684	.827	.691	.479	.250	PT019F08L06T
20	T	.752	.722	.895	.691	.500	.250	PT020F08L06T
22	T	.827	.797	.945	.691	.562	.250	PT022F08L06T
24	T	.902	.872	1.025	.691	.625	.250	PT024F08L06T
25	T	.940	.910	1.060	.691	.625	.250	PT025F08L06T
26	T	.977	.947	1.105	.691	.625	.250	PT026F08L06T
28	T	1.053	1.023	1.173	.691	.701	.250	PT028F08L06T
30	T	1.128	1.098	1.250	.691	.776	.250	PT030F08L06T
32	T	1.203	1.173	1.323	.691	.851	.250	PT032F08L06T
34	T	1.278	1.248	1.398	.713	.921	.250	PT034F08L06T
36	T	1.353	1.323	1.473	.713	1.000	.250	PT036F08L06T
38	T	1.429	1.399	1.549	.713	1.075	.250	PT038F08L06T
40	T	1.504	1.474	1.625	.713	1.150	.250	PT040F08L06T
44	T	1.654	1.624	1.775	.713	1.300	.250	PT044F08L06T

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 9mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

Bore	Set Screw	Quantity
.125	#4-40	1
.188	#4-40*	2*
.250	#8-32	2

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+ .002
1.001-2.000	+ .003
2.001-4.000	+ .004

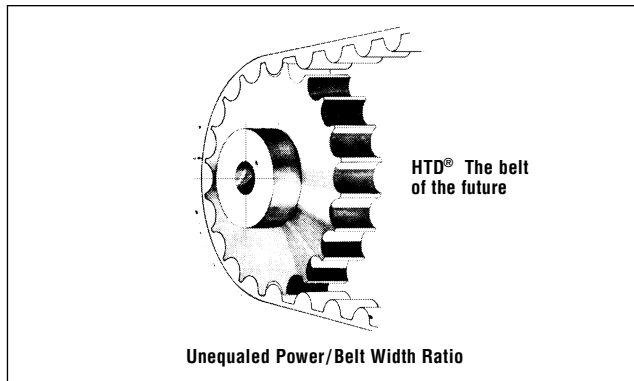
* 12 groove, #4-40 (1)

No. of Grooves	Type	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Bore +.001 - .000	Part Number
10	R	.376	.346	.505	.681	.505	.125	PT010F04L09R
11	R	.414	.384	.530	.681	.530	.125	PT011F04L09R
12	R	.451	.421	.580	.681	.580	.188	PT012F06L09R
13	R	.489	.459	.610	.691	.610	.188	PT013F06L09R
14	R	.526	.496	.635	.691	.635	.188	PT014F06L09R
15	R	.564	.534	.685	.691	.685	.188	PT015F06L09R
16	R	.602	.572	.710	.691	.710	.188	PT016F06L09R
17	R	.639	.609	.740	.691	.740	.188	PT017F06L09R
18	T	.677	.647	.790	.812	.442	.250	PT018F08L09T
19	T	.714	.684	.827	.812	.479	.250	PT019F08L09T
20	T	.752	.722	.895	.812	.500	.250	PT020F08L09T
22	T	.827	.797	.945	.812	.562	.250	PT022F08L09T
24	T	.902	.872	1.025	.812	.625	.250	PT024F08L09T
25	T	.940	.910	1.060	.812	.625	.250	PT025F08L09T
26	T	.977	.947	1.105	.812	.625	.250	PT026F08L09T
28	T	1.053	1.023	1.173	.812	.701	.250	PT028F08L09T
30	T	1.128	1.098	1.250	.812	.776	.250	PT030F08L09T
32	T	1.203	1.173	1.323	.812	.851	.250	PT032F08L09T
34	T	1.278	1.248	1.398	.833	.921	.250	PT034F08L09T
36	T	1.353	1.323	1.473	.833	1.000	.250	PT036F08L09T
38	T	1.429	1.399	1.549	.833	1.075	.250	PT038F08L09T
40	T	1.504	1.474	1.625	.833	1.150	.250	PT040F08L09T
44	T	1.654	1.624	1.775	.833	1.300	.250	PT044F08L09T

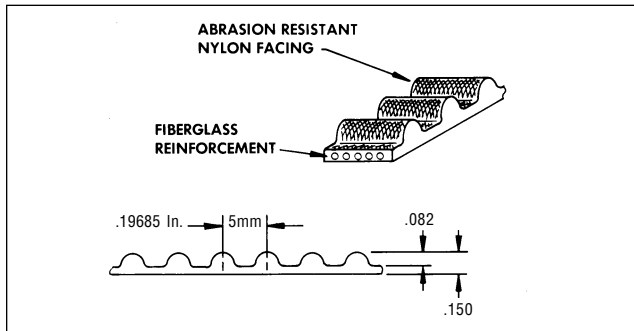
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING BELTS

5mm HTD® Pitch, 9mm & 15mm Wide



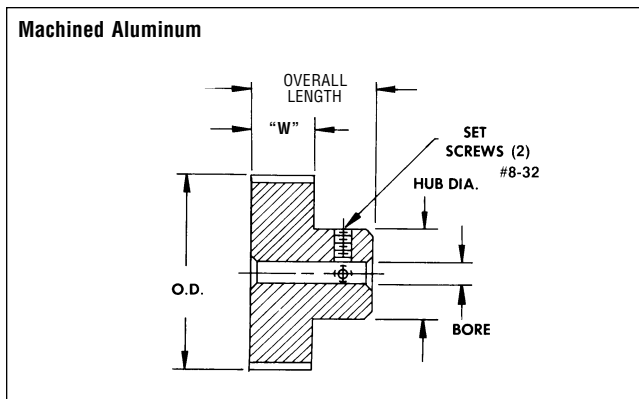
Material: Neoprene with nylon wear surface & helically-wound fiberglass reinforcing



Pitch Length		Number of Grooves	9mm Wide Belts Part Number	15mm Wide Belts Part Number
Inch	mm			
13.78	350	70	EPS0070G09mN	EPS0070G15mN
14.76	375	75	EPS0075G09mN	EPS0075G15mN
15.75	400	80	EPS0080G09mN	EPS0080G15mN
16.73	425	85	EPS0085G09mN	EPS0085G15mN
17.72	450	90	EPS0090G09mN	EPS0090G15mN
18.70	475	95	EPS0095G09mN	EPS0095G15mN
19.69	500	100	EPS0100G09mN	EPS0100G15mN
21.06	535	107	EPS0107G09mN	EPS0107G15mN
22.24	565	113	EPS0113G09mN	EPS0113G15mN
23.62	600	120	EPS0120G09mN	EPS0120G15mN
25.00	635	127	EPS0127G09mN	EPS0127G15mN
26.38	670	134	EPS0134G09mN	EPS0134G15mN
27.95	710	142	EPS0142G09mN	EPS0142G15mN
29.13	740	148	EPS0148G09mN	EPS0148G15mN
31.50	800	160	EPS0160G09mN	EPS0160G15mN
33.46	850	170	EPS0170G09mN	EPS0170G15mN
35.04	890	178	EPS0178G09mN	EPS0178G15mN
37.40	950	190	EPS0190G09mN	EPS0190G15mN
39.37	1000	200	EPS0200G09mN	EPS0200G15mN

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 9mm & 15mm Belt Width, No Flanges



Material: Aluminum Alloy, Anodized

Number of Grooves	Overall Length ±.016		Face Width "W"	
	9mm Width	15mm Width	9mm	15mm
12-22	.796	1.032		
24-34	.859	1.093		
36-40	.937	1.187		
			"W"	.541 .781

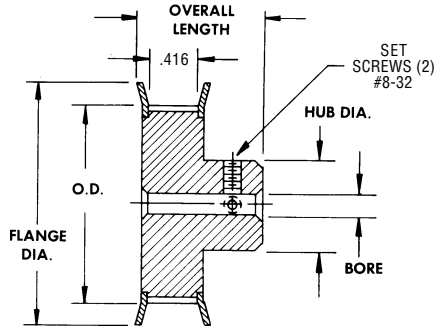
No. of Grooves	Pitch Dia.	Outside Dia.	Hub Dia. ±.016	Bore +.001 -.000	9mm Belt Width Part Number	15mm Belt Width Part Number
12	.752	.707	.437	.250	PT012G08L09N	PT012G08L15N
13	.815	.770	.500	.250	PT013G08L09N	PT013G08L15N
14	.877	.832	.500	.250	PT014G08L09N	PT014G08L15N
15	.940	.895	.562	.250	PT015G08L09N	PT015G08L15N
16	1.003	.958	.562	.250	PT016G08L09N	PT016G08L15N
17	1.065	1.020	.625	.250	PT017G08L09N	PT017G08L15N
18	1.128	1.083	.687	.250	PT018G08L09N	PT018G08L15N
19	1.191	1.146	.750	.250	PT019G08L09N	PT019G08L15N
20	1.253	1.208	.812	.250	PT020G08L09N	PT020G08L15N
22	1.379	1.334	.937	.250	PT022G08L09N	PT022G08L15N
24	1.504	1.459	1.000	.250	PT024G08L09N	PT024G08L15N
25	1.566	1.521	1.000	.250	PT025G08L09N	PT025G08L15N
26	1.629	1.584	1.062	.250	PT026G08L09N	PT026G08L15N
28	1.754	1.709	1.187	.250	PT028G08L09N	PT028G08L15N
30	1.880	1.835	1.187	.250	PT030G08L09N	PT030G08L15N
32	2.005	1.960	1.250	.250	PT032G08L09N	PT032G08L15N
34	2.130	2.085	1.375	.250	PT034G08L09N	PT034G08L15N
36	2.256	2.211	1.500	.313	PT036G10L09N	PT036G10L15N
38	2.381	2.336	1.500	.313	PT038G10L09N	PT038G10L15N
40	2.506	2.461	1.500	.313	PT040G10L09N	PT040G10L15N

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 9mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

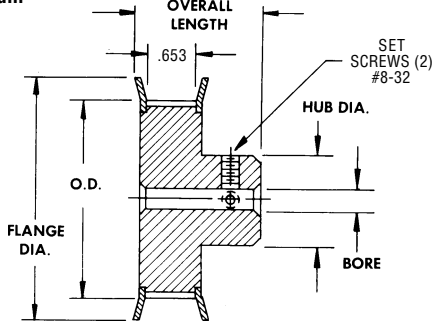
No. of Grooves	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 - .000	Standard Bore Part Number
12	.752	.707	.875	.790	.437	.250	PT012G08L09T
13	.815	.770	.939	.790	.500	.250	PT013G08L09T
14	.877	.832	1.000	.790	.500	.250	PT014G08L09T
15	.940	.895	1.063	.790	.562	.250	PT015G08L09T
16	1.003	.958	1.094	.790	.625	.250	PT016G08L09T
17	1.065	1.020	1.188	.790	.625	.250	PT017G08L09T
18	1.128	1.083	1.250	.790	.687	.250	PT018G08L09T
19	1.191	1.146	1.313	.790	.750	.250	PT019G08L09T
20	1.253	1.208	1.375	.790	.812	.250	PT020G08L09T
22	1.379	1.334	1.500	.790	.937	.250	PT022G08L09T
24	1.504	1.459	1.625	.852	1.000	.250	PT024G08L09T
25	1.566	1.521	1.688	.852	1.000	.250	PT025G08L09T
26	1.629	1.584	1.750	.852	1.062	.250	PT026G08L09T
28	1.754	1.709	1.875	.852	1.187	.250	PT028G08L09T
30	1.880	1.835	2.000	.852	1.187	.250	PT030G08L09T
32	2.005	1.960	2.125	.852	1.250	.250	PT032G08L09T
34	2.130	2.085	2.250	.852	1.375	.250	PT034G08L09T

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 15mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

O.D. Tolerance	
O.D.	Tol
Thru 1.000	+.002
1.001-2.000	+.003
2.001-4.000	+.004

No. of Grooves	Pitch Diameter	Outside Diameter	Flange Diameter ±.016	Overall Length ±.016	Hub Diameter ±.016	Standard Bore +.001 - .000	Standard Bore Part Number
12	.752	.707	.875	1.025	.437	.250	PT012G08L15T
13	.815	.770	.939	1.025	.500	.250	PT013G08L15T
14	.877	.832	1.000	1.025	.500	.250	PT014G08L15T
15	.940	.895	1.063	1.025	.562	.250	PT015G08L15T
16	1.003	.958	1.094	1.025	.625	.250	PT016G08L15T
17	1.065	1.020	1.188	1.025	.625	.250	PT017G08L15T
18	1.128	1.083	1.250	1.025	.687	.250	PT018G08L15T
19	1.191	1.146	1.313	1.025	.750	.250	PT019G08L15T
20	1.253	1.208	1.375	1.025	.812	.250	PT020G08L15T
22	1.379	1.334	1.500	1.025	.937	.250	PT022G08L15T
24	1.504	1.459	1.625	1.087	1.000	.250	PT024G08L15T
25	1.566	1.521	1.688	1.087	1.000	.250	PT025G08L15T
26	1.629	1.584	1.750	1.087	1.062	.250	PT026G08L15T
28	1.754	1.709	1.875	1.087	1.187	.250	PT028G08L15T
30	1.880	1.835	2.000	1.087	1.187	.250	PT030G08L15T
32	2.005	1.960	2.125	1.087	1.250	.250	PT032G08L15T
34	2.130	2.085	2.250	1.087	1.375	.250	PT034G08L15T

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.