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V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HTR  
Synchronous Drives

HTRC  
Synchronous Drives



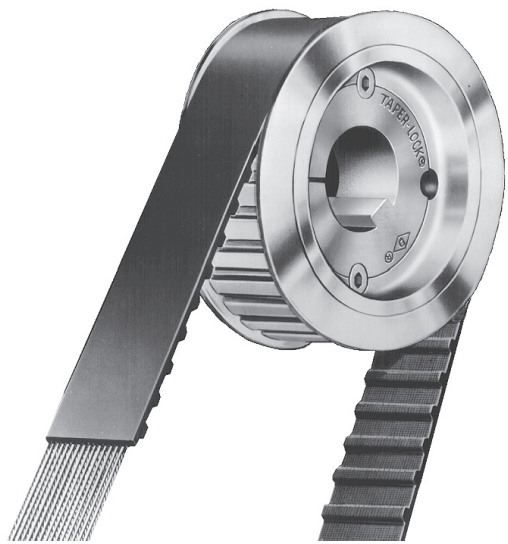
# FEATURES/BENEFITS

## DYNA-SYNC Drives

V-Drives

FHP Drives

Drive Component Accessories



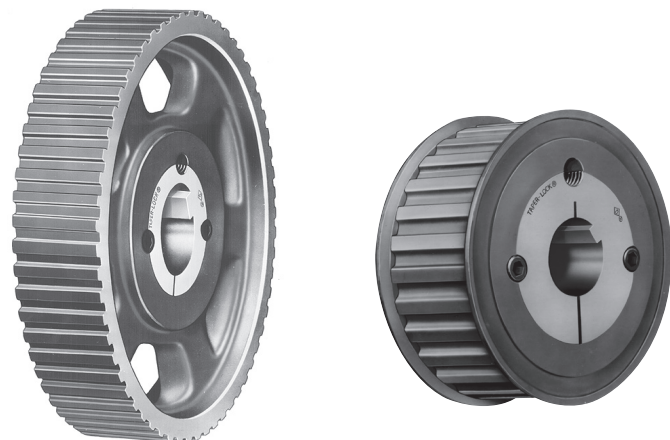
### The Original Timing Drive

- Synchronized No-Slip Transmission
- No Lubrication Required
- Efficiency: Approximately 98%
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Drive Ratios to 8.5:1
- Pitches: XL, L, H, and XH



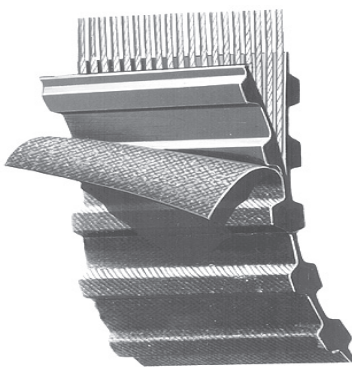
### DYNA-SYNC Pulley

DYNA-SYNC



- Tough, Tensile Cords, No-Stretch Fiberglass
- Durable Neoprene Rubber Body
- Long-Wearing Nylon Duck Facing
- Oil, Heat, and Ozone Resistant

- Clean, Compact TAPER-LOCK Design
- Easy-on/Easy-off
- Precision Manufactured in ISO9000 Certified Plant
- Flanged Design Standard on Driver Sizes

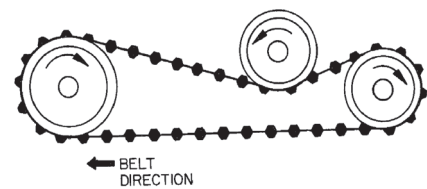


- Dual-Sided Teeth Available for Serpentine Drives

HT200/HTD Synchronous Drives

HTR Synchronous Drives

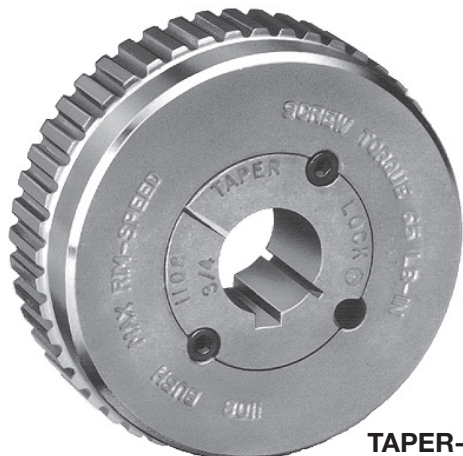
HTRC Synchronous Drives



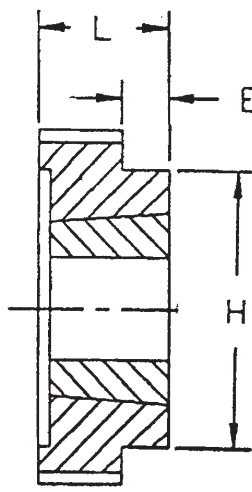


## SPECIFICATIONS

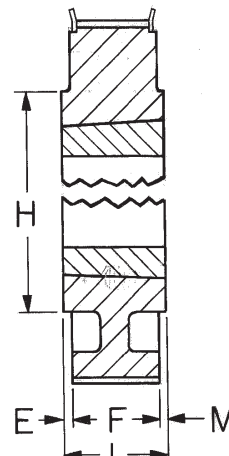
### DYNA-SYNC Pulleys - XL, L PITCH



TAPER-LOCK



TAPER-LOCK



TYPE C

#### XL037 - 1/5" Pitch (.375" Wide Belt)

F = 0.56"

No. of Teeth	Description ◇	Part No.	Wt	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Brushed		Dimensions			
							Bore Range		E	H	L	M
							Min.	Max.				
32	TL32XL037-1108	113021	.22	2.037	None	TL-1	1/2	1-1/8	-	2.02	0.88	0
36	TL36XL037-1108	113022	.30	2.292		TL-1	1/2	1-1/8	0.32	2.13	0.88	0
40	TL40XL037-1108	113023	.31	2.546		TL-1	1/2	1-1/8	0.32	2.25	0.88	0
42	TL42XL037-1108	113024	.31	2.674		TL-1	1/2	1-1/8	0.32	2.37	0.88	0
44	TL44XL037-1108	113046	.31	2.801		TL-1	1/2	1-1/8	0.32	2.63	0.88	0
48	TL48XL037-1108	113047	.38	3.056		TL-1	1/2	1-1/8	0.32	2.88	0.88	0
60	TL60XL037-1210	113048	.38	3.820		TL-1	1/2	1-1/4	0.44	3.50	1.00	0
72	TL72XL037-1610	113049	.50	4.584	TL-1	1/2	1-11/16	0.44	4.00	1.00	0	

#### L050 - 3/8" Pitch (.5" Wide Belt)

F = 0.75"

No. of Teeth	Description ◇	Part No.	Wt	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Brushed		Dimensions			
							Bore Range		E	H	L	M
							Min.	Max.				
18	TL18L050-1108	113575	.45	2.149	2.39	CF-1	1/2	1-1/8	.13	1.63	.88	0
20	TL20L050-1108	113581	.68	2.387	2.63	CF-1	1/2	1-1/8	.13	1.81	.88	0
21	TL21L050-1108	113399	.80	2.507	2.87	CF-1	1/2	1-1/8	.13	2.00	.88	0
22	TL22L050-1108	113588	.90	2.626	2.87	CF-1	1/2	1-1/8	.13	2.06	.88	0
24	TL24L050-1210	113464	1.0	2.865	3.11	CF-1	1/2	1-1/4	.25	2.25	1.00	0
26	TL26L050-1210	113466	1.2	3.104	3.34	CF-1	1/2	1-1/4	.25	2.56	1.00	0
28	TL28L050-1210	113468	1.4	3.342	3.58	CF-1	1/2	1-1/4	.25	2.75	1.00	0
30	TL30L050-1610	113470	1.5	3.581	3.83	CF-1	1/2	1-11/16	.25	2.88	1.00	0
32	TL32L050-1610	113472	1.9	3.820	4.06	CF-1	1/2	1-11/16	.25	3.06	1.00	0
40	TL40L050-2012	113478	2.4	4.775	5.02	CF-1	1/2	2-1/8	.50	3.94	1.25	0
48	TL48L050-2012	113484	3.2	5.730	6.02	CF-1	1/2	2-1/8	.50	3.94	1.25	0
60	TL60L050-2012	113485	4.9	7.162	None	C-2	1/2	2-1/8	.25	4.38	1.25	.25
72	TL72L050-2012	113486	6.5	8.594		C-2	1/2	2-1/8	.25	4.38	1.25	.25
84	TL84L050-2517	113487	7.8	10.027		C-2	1/2	2-11/16	.50	4.38	1.75	.50

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3,

◇ See page PT10-8 - PT10-10 for MPB sizes.

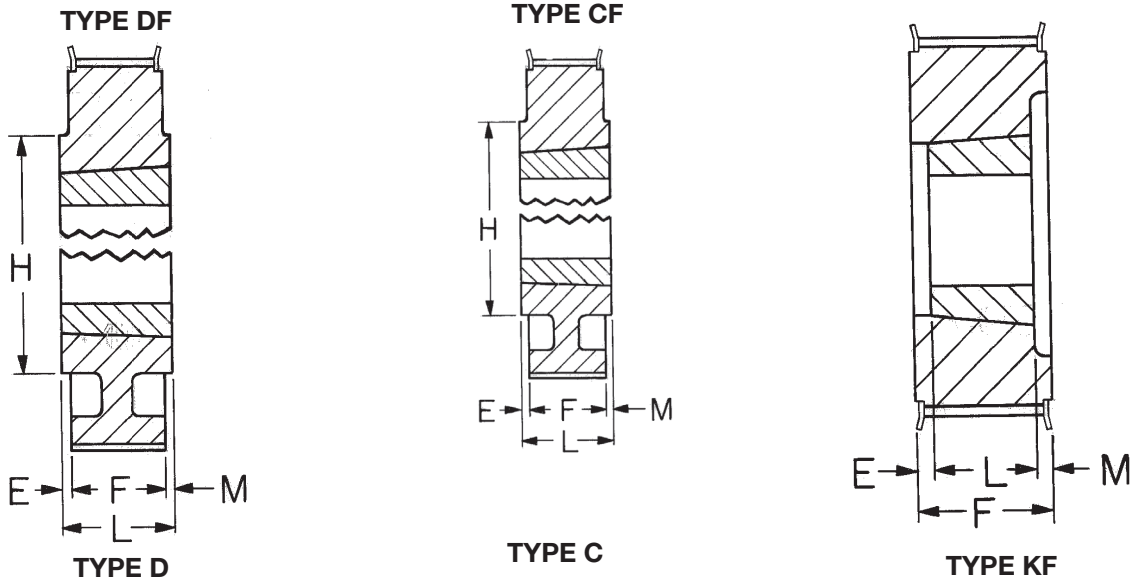
V-Drives Section) Letter "F" indicates pulley is flanged.

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## SPECIFICATIONS

### DYNA-SYNC Pulleys - L PITCH



#### L075 - 3/8" Pitch (.75" Wide Belt)

F=1.00"

No. of Teeth	Description	Part No.	Wt	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Brushed Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
							18	TL18L075-1108	113589	.45	2.149	2.39
20	TL20L075-1108	113594	.68	2.387	2.63	KF-1	1/2	1-1/8	.06	....	.88	.06
22	TL22L075-1108	113595	.90	2.626	2.87	KF-1	1/2	1-1/8	.06	....	.88	.06
24	TL24L075-1210	113513	1.0	2.865	3.11	KF-1	1/2	1-1/4	0	....	1.00	....
26	TL26L075-1210	113515	1.2	3.104	3.34	KF-1	1/2	1-1/4	0	....	1.00	....
28	TL28L075-1610	113517	1.2	3.342	3.58	KF-1	1/2	1-11/16	0	....	1.00	....
30	TL30L075-1610	113519	1.5	3.581	3.83	KF-1	1/2	1-11/16	0	....	1.00	....
32	TL32L075-1610	113521	1.9	3.820	4.06	KF-1	1/2	1-11/16	0	....	1.00	....
40	TL40L075-2012	113527	2.4	4.775	5.02	CF-1	1/2	2-1/8	.25	3.94	1.25	0
48	TL48L075-2012	113533	3.2	5.730	6.02	CF-1	1/2	2-1/8	.25	3.94	1.25	0
60	TL60L075-2012	113534	4.9	7.162	None	C-2	1/2	2-1/8	.13	4.38	1.25	.13
72	TL72L075-2012	113535	6.5	8.594		C-1	1/2	2-1/8	.13	4.38	1.25	.13
84	TL84L075-2517	113536	7.8	10.027	C-1	1/2	2-11/16	.25	4.88	1.75	.50	

#### L100 - 3/8" Pitch (1" Wide Belt)

F=1.25"

No. of Teeth	Description	Part No.	Wt	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Brushed Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
							18	TL18L100-1108	113599	.7	2.149	2.39
20	TL20L100-1108	113641	1.0	2.387	2.63	KF-1	1/2	1-1/8	.06	...	.87	.31
22	TL22L100-1108	113669	1.3	2.626	2.87	KF-1	1/2	1-1/8	.06	...	.87	.31
24	TL24L100-1210	113562	1.3	2.865	3.11	KF-1	1/2	1-1/4	.06	...	1	.19
26	TL26L100-1210	113564	1.7	3.104	3.34	KF-1	1/2	1-1/4	.06	...	1	.19
28	TL28L100-1610	113566	1.7	3.342	3.58	KF-1	1/2	1-11/16	.11	...	1	.15
30	TL30L100-1610	113568	2.2	3.581	3.83	KF-1	1/2	1-11/16	.11	...	1	.15
32	TL32L100-1610	113570	2.7	3.820	4.06	KF-1	1/2	1-11/16	.25	...	1	0
40	TL40L100-2012	113576	3.6	4.775	5.02	KF-1	1/2	2-1/8	0	...	1.25	....
48	TL48L100-2012	113582	5.1	5.730	6.02	KF-1	1/2	2-1/8	0	...	1.25	....
60	TL60L100-2012	113583	6.0	7.162	None	C-2	1/2	2-1/8	0	4.38	1.25	....
72	TL72L100-2012	113584	8.0	8.594		C-2	1/2	2-1/8	0	4.38	1.25	....
84	TL84L100-2517	113585	9.2	10.027	C-1	1/2	2-11/16	.55	4.88	1.75	....	

† Dash 1 = Block, 2 = Web, 3 = Arm.. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

◇ See page PT10-8 - PT10-10 for MPB sizes.

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# SPECIFICATIONS



## DYNA-SYNC Pulleys - L, H



- † Dash 1 = Block, 2 = Web, 3 = Arm  
Letter "F" indicates pulley is flanged
- + Available from stock in Min. Plain Bore (MPB) only  
Max. bore is without keyway. (If keyway is used, reduce max bore listed by twice the keyway depth.)
- ◇ See page PT10-9 for additional MPB sizes

### H100 - 1/2" Pitch (1" Wide Belt) (for H075 & H100 Belts)

F=1.32"

No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
14	TL14H100-1108	113678	.8	2.228	2.48	KF-1	1/2	1-1/8	.06	....	.88	.42
16	TL16H100-1108	113684	1.3	2.546	2.80	KF-1	1/2	1-1/8	.06	....	.88	.42
18	TL18H100-1210	113605	1.2	2.865	3.11	KF-1	1/2	1-1/4	.06	....	1	.25
20	TL20H100-1210	113608	1.7	3.183	3.44	KF-1	1/2	1-1/4	.11	....	1	.25
22	TL22H100-1610	113611	1.8	3.501	3.75	KF-1	1/2	1-11/16	.11	....	1	.25
24	TL24H100-1610	113642	2.3	3.820	4.02	KF-1	1/2	1-11/16	.11	....	1	.25
26	TL26H100-2012	113615	2.2	4.138	4.39	KF-1	1/2	2-1/8	.06	....	1.25	0
28	TL28H100-2012	113617	2.8	4.456	4.70	KF-1	1/2	2-1/8	.06	....	1.25	0
30	TL30H100-2012	113620	4.2	4.775	5.02	KF-1	1/2	2-1/8	.06	....	1.25	0
32	TL32H100-2517	113623	4.1	5.093	5.33	CF-1	1/2	2-11/16	.44	4.44	1.75	0
40	TL40H100-2517	113629	7.8	6.366	6.58	CF-1	1/2	2-11/16	.44	4.44	1.75	0
48	TL48H100-2517	113635	12.1	7.639	8.02	CF-1	1/2	2-11/16	.44	4.44	1.75	0
60	TL60H100-3020	113636	10.3	9.549		C-2	7/8	3-1/4	.34	6.25	2	.34
72	TL72H100-3020	113637	14	11.459		C-1	7/8	3-1/4	.34	6.25	2	.34
84	TL84H100-3020	113638	20	13.369	None	C-2	7/8	3-1/4	.34	6.25	2	.34
96	TL96H100-3020	113639	27	15.279		C-2	7/8	3-1/4	.34	6.25	2	.34
120	TL120H100-3020	113640	38	19.099		C-3	7/8	3-1/4	0	6.25	2	.59

### H150 - 1/2" Pitch (1.5" Wide Belt)

F=1.86"

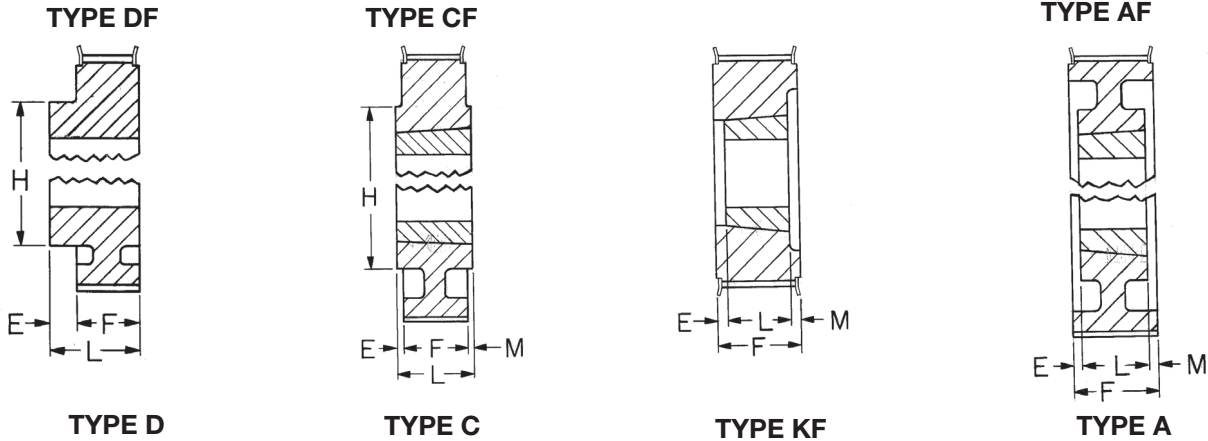
No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
14	TL14H150-1108	113691	1.0	2.228	2.48	KF-1	1/2	1	.47	....	.88	.88
16	TL16H150-1108	113692	1.5	2.546	2.80	KF-1	1/2	1	.47	....	.88	.88
18	TL18H150-1210	113693	1.6	2.865	3.11	KF-1	1/2	1-1/4	.11	....	1	.75
20	TL20H150-1210	113694	2.2	3.183	3.44	KF-1	1/2	1-1/4	.11	....	1	.75
22	TL22H150-1610	113695	2.5	3.501	3.75	KF-1	1/2	1-11/16	.11	....	1	.75
24	TL24H150-2012	113663	2.2	3.820	4.06	KF-1	1/2	2-1/8	.56	....	1.25	0
26	TL26H150-2012	113665	3.2	4.138	4.78	KF-1	1/2	2-1/8	.56	....	1.25	0
28	TL28H150-2012	113667	4.1	4.456	4.70	KF-1	1/2	2-1/8	.56	....	1.25	0
30	TL30H150-2012	113670	5.1	4.775	5.02	KF-1	1/2	2-1/8	.56	....	1.25	0
32	TL32H150-2517	113673	4.6	5.093	5.33	KF-1	1/2	2-11/16	.11	....	1.75	0
40	TL40H150-2517	113679	8.6	6.366	6.58	KF-1	1/2	2-11/16	.11	....	1.75	0
48	TL48H150-2517	113685	13.6	7.639	8.02	AF-2	1/2	2-11/16	0	....	1.75	.06
60	TL60H150-3020	113686	12.3	9.549		C-2	7/8	3-1/4	.09	6.25	2	.09
72	TL72H150-3020	113687	17.0	11.459		C-2	7/8	3-1/4	.09	6.25	2	.09
84	TL84H150-3020	113688	21.5	13.369	None	C-3	7/8	3-1/4	.09	6.25	2	.09
96	TL96H150-3020	113689	31	15.279		C-3	7/8	3-15/16	.09	6.25	2	.09
120	TL120H150-3020	113690	40	19.099		C-3	7/8	3-1/4	.09	6.25	2	.09

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## SPECIFICATIONS

### DYNA-SYNC Pulleys - H



#### H200 - 1/2" Pitch (2" Wide Belt)

F=2.34"

No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
16	TL16H200-1108	113072	1.9	2.546	2.80	KF-1	1/2	1-1/8	.75	0	.88	.72
18	TL18H200-1215	113704	1.8	2.865	3.11	KF-1	1/2	1-1/4	.44	0	1.5	.41
20	TL20H200-1215	113707	2.6	3.183	3.44	KF-1	1/2	1-1/4	.42	0	1.5	.42
22	TL22H200-1615	113710	28	3.501	3.75	KF-1	1/2	1-5/8	.42	0	1.5	.42
24	TL24H200-2012	113712	2.6	3.820	4.06	KF-1	1/2	2	.55	0	1.25	.55
26	TL26H200-2012	113714	3.6	4.138	4.78	KF-1	1/2	2	.55	0	1.25	.55
28	TL28H200-2012	113716	5.1	4.456	4.70	KF-1	1/2	2	.55	0	1.25	.55
30	TL30H200-2012	113719	7.0	4.775	5.02	KF-1	1/2	2	1.09	0	1.25	0
32	TL32H200-2517	113722	5.5	5.093	5.33	KF-1	1/2	2-1/2	.59	0	1.75	0
40	TL40H200-2517	113728	9.9	6.366	6.58	KF-1	1/2	2-1/2	.59	0	1.75	0
48	TL48H200-3020	113734	14.3	7.639	8.02	KF-1	7/8	3	.41	0	2	0
60	TL60H200-3020	113735	15.3	9.549		A-2	7/8	3	.17	0	2	.17
72	TL72H200-3020	113736	21	11.459		A-2	7/8	3-1/4	0	0	2	.34
84	TL84H200-3020	113737	23	13.369	None	A-3	7/8	3-1/4	0	0	2	.34
96	TL96H200-3535	113738	34	15.279		C-3	1-3/16	3-15/16	.40	7.0	3.5	.75
120	TL120H200-3020	113739	42	19.099		A-3	7/8	3-1/4	0	0	2	.34

#### H300 - 1/2" Pitch (3" Wide Belt)

F=3.38"

No. of Teeth	Description	Part No.	Wt	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Brushed Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
16	TL16H300-1108	113073	2.5	2.546	2.80	KF-1	1/2	1-1/8	1.28	0	.87	1.23
18	TL18H300-1215	113752	2.6	2.865	3.11	KF-1	1/2	1-1/4	.94	0	1.5	.94
20	TL20H300-1215	113755	3.9	3.183	3.44	KF-1	1/2	1-1/4	.94	0	1.5	.94
22	TL22H300-1615	113758	4.0	3.501	3.75	KF-1	1/2	1-11/16	.94	0	1.5	.94
24	TL24H300-2012	113760	4.3	3.820	4.06	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
26	TL26H300-2012	113762	5.4	4.138	4.78	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
28	TL28H300-2012	113764	6.8	4.456	4.70	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
30	TL30H300-2012	113767	7.5	4.775	5.02	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
32	TL32H300-2517	113770	7.4	5.093	5.33	KF-1	1/2	2-11/16	.81	0	1.75	.81
40	TL40H300-2517	113776	12.1	6.366	6.58	KF-1	1/2	2-11/16	.81	0	1.75	.81
48	TL48H300-3020	113782	16.3	7.639	8.02	KF-1	7/8	3-1/4	.69	0	2	.69
60	TL60H300-3020	113783	17.3	9.549		A-2	7/8	3-1/4	.69	0	2	.69
72	TL72H300-3020	113784	23	11.459		A-2	7/8	3-1/4	.31	0	2	1.06
84	TL84H300-3020	113785	30	13.369	None	A-3	7/8	3-1/4	.69	0	2	.69
96	TL96H300-3535	113786	38	15.279		C-3	1-3/16	3-15/16	.06	0	3.5	.06
120	TL120H300-3535	113787	51	19.099		C-3	1-3/16	3-15/16	.125	7.0	3.5	0

† Dash 1 = Block, 2 = Web, 3 = Arm. Letter "F" indicates pulley is flanged.

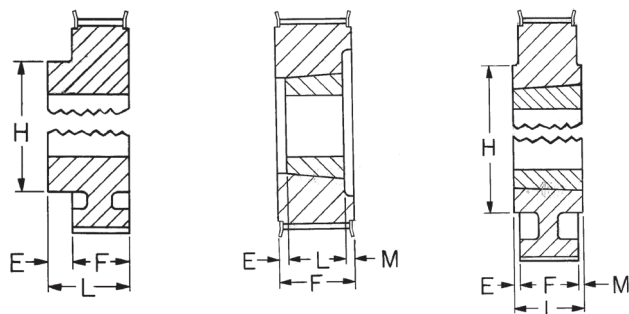
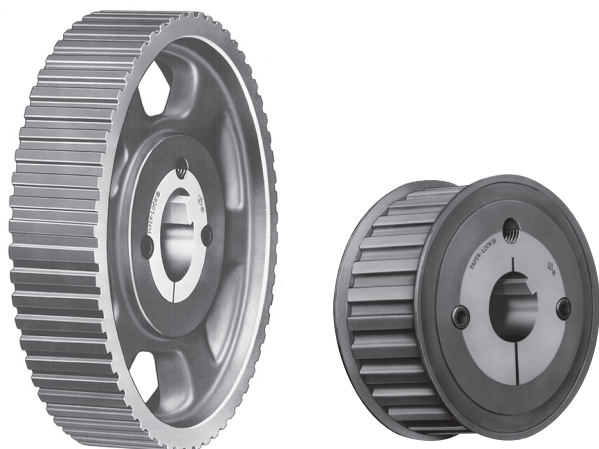
◇ See page PT10-8 - PT10-10 for MPB sizes.

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# SPECIFICATIONS

## DYNA-SYNC Pulleys - XH



### XH200 - 7/8" Pitch (2" Wide Belt)

**F=2.56"**

No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
18	TL18XH200-2012	<b>113074</b>	12	5.013	5.58	KF-1	1/2	2-1/8	.84	...	1.25	.47
20	TL20XH200-2012	<b>113120</b>	16	5.570	6.11	KF-1	1/2	2-1/8	.84	...	1.25	.47
22	TL22XH200-2517	<b>113804</b>	10.6	6.127	6.59	KF-1	1/2	2-11/16	.81	....	1.75	0
24	TL24XH200-3020	<b>113807</b>	11.3	6.685	7.28	KF-1	7/8	3-1/4	.56	....	2.0	0
26	TL26XH200-3020	<b>113810</b>	13.3	7.241	7.78	KF-1	7/8	3-1/4	.56	....	2.0	0
28	TL28XH200-3535	<b>113813</b>	13.5	7.799	8.27	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
30	TL30XH200-3535	<b>113816</b>	18.5	8.356	9.31	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
32	TL32XH200-3535	<b>113819</b>	21.5	8.913	9.52	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
40	TL40XH200-4040	<b>113822</b>	37.5	11.141	11.80	CF-1	1-7/16	4-7/16	1.44	8.50	4.0	0
48	TL48XH200-4040	<b>113823</b>	44.5	13.369	None	C-2	1-7/16	4-7/16	.72	8.50	4.0	.72
60	TL60XH200-4040	<b>113824</b>	47	16.711		C-3	1-7/16	4-7/16	.72	8.50	4.0	.72

### XH300 - 7/8" Pitch (3" Wide Belt)

**F=3.63"**

No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
18	TL18XH300-2012	<b>113121</b>	15	5.013	5.58	KF-1	1/2	2-1/8	1.38	...	1.25	1.0
20	TL20XH300-2012	<b>113122</b>	19	5.570	6.11	KF-1	1/2	2-1/8	1.38	...	1.25	1.0
22	TL22XH300-2517	<b>113854</b>	13.6	6.127	6.59	KF-1	1/2	2-11/16	.94	....	1.75	.94
24	TL24XH300-3020	<b>113857</b>	15.3	6.685	7.28	KF-1	7/8	3-1/4	.81	....	2.0	.81
26	TL26XH300-3020	<b>113860</b>	17.3	7.241	7.78	KF-1	7/8	3-1/4	.81	....	2.0	.81
28	TL28XH300-3535	<b>113863</b>	17.3	7.799	8.27	KF-1	1-3/16	3-15/16	.13	....	3.5	....
30	TL30XH300-3535	<b>113866</b>	22.5	8.356	9.31	KF-1	1-3/16	3-15/16	.13	....	3.5	....
32	TL32XH300-3535	<b>113869</b>	26.5	8.913	9.52	KF-1	1-3/16	3-15/16	.13	....	3.5	....
40	TL40XH300-4040	<b>113872</b>	43.5	11.141	11.80	CF-1	1-7/16	4-7/16	.38	7.50	4.0	....
48	TL48XH300-4040	<b>113873</b>	51.5	13.369	None	C-1	1-7/16	4-7/16	.19	8.50	4.0	.19
60	TL60XH300-4040	<b>113874</b>	55.5	16.711		C-3	1-7/16	4-7/16	.19	8.50	4.0	.19

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

**XXH Pulley Note:** Discontinued Product. Recommend that drive be redesigned to HT100 or HT150. Refer to HT section of this catalog.

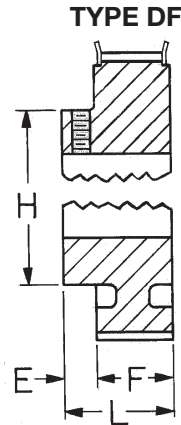


## SPECIFICATIONS

### DYNA-SYNC Pulleys - XL037



Minimum Plain Bore



TYPE DF  
Minimum Plain Bore

#### XL037 - 1/5" Pitch (.375" Wide Belt) - Minimum Plain Bore

F = 0.56"

No of Teeth	Description	Part Number	Approx. Weight	Pitch Dia (PD)	Fig O.D.	Type	Stock Bore *	Max Bore *	Dimension		
									H	L	E
10	10XL037-MPB	<b>113400</b>	.08	0.637	.88	DF-1	3/16	3/16	.44	.81	.25
11	11XL037-MPB	<b>113401</b>	.09	0.700	.94	DF-1	3/16	3/16	.50	.81	.25
12	12XL037-MPB	<b>113402</b>	.10	0.764	1.00	DF-1	3/16	1/2	.50	.81	.25
14	14XL037-MPB	<b>113403</b>	.13	0.891	1.03	DF-1	1/4	1/4	.56	.81	.25
15	15XL037-MPB	<b>113404</b>	.14	0.955	1.19	DF-1	1/4	5/16	.63	.81	.25
16	16XL037-MPB	<b>113405</b>	.17	1.019	1.25	DF-1	1/4	3/8	.69	.81	.25
18	18XL037-MPB	<b>113406</b>	.20	1.146	1.38	DF-1	1/4	1/2	.81	.81	.25
20	20XL037-MPB	<b>113407</b>	.25	1.273	1.50	DF-1	1/4	9/16	.94	.88	.32
21	21XL037-MPB	<b>113408</b>	.26	1.337	1.56	DF-1	1/4	9/16	1.00	.88	.32
22	22XL037-MPB	<b>113409</b>	.30	1.401	1.63	DF-1	1/4	5/8	1.00	.88	.32
24	24XL037-MPB	<b>113410</b>	.35	1.528	1.75	DF-1	1/4	11/16	1.06	.91	.35
28	28XL037-MPB	<b>113411</b>	.46	1.783	2.00	DF-1	1/4	13/16	1.19	.91	.35
30	30XL037-MPB	<b>113412</b>	.55	1.910	2.13	DF-1	5/16	15/16	1.31	.91	.35
32	32XL037-MPB	• <b>113413</b>	.71	2.037	---	D-1	5/16	1-3/16	1.50	1.00	.44
36	36XL037-MPB	• <b>113414</b>	.85	2.292	---	D-1	5/16	1-3/16	1.50	1.00	.44
40	40XL037-MPB	• <b>113415</b>	.99	2.546	---	D-1	5/16	1-3/16	1.50	1.00	.44
42	42XL037-MPB	• <b>113416</b>	1.09	2.674	---	D-1	5/16	1-3/16	1.50	1.00	.44
44	44XL037-MPB	• <b>113417</b>	1.17	2.801	---	D-1	5/16	1-3/16	1.50	1.00	.44
48	48XL037-MPB	• <b>113418</b>	1.19	3.056	---	D-1	5/16	1-3/16	1.50	1.00	.44
60	60XL037-MPB	• <b>113419</b>	2.02	3.820	---	D-2	3/8	1-3/16	1.50	1.00	.44
72	72XL037-MPB	• <b>113420</b>	2.81	4.584	---	D-2	3/8	1-3/16	1.50	1.00	.44

**NOTE:** Above pulleys are supplied with two (2) set screws at 90 deg.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

\* Standard keyways are listed on page PT1-83

• Aluminum

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# SPECIFICATIONS

## DYNA-SYNC Pulleys - Reborable Minimum Plain Bore

### L050 - 3/8" Pitch (.5" Wide Belt) - Minimum Plain Bore

F = 0.75"

No of Teeth	Description	Part Number	Approx. Weight	Pitch Dia (PD)	Flg O.D.	Type	Stock Bore	Max Bore	Dimension		
									H	L	E
10	10L050-MPB	113450	.26	1.194	1.44	DF-1	3/8	1/2	.81	1.25	.50
12	12L050-MPB	113451	.38	1.432	1.66	DF-1	3/8	3/4	1.00	1.25	.50
13	13L050-MPB	114441	.50	1.552	1.78	DF-1	3/8	3/4	1.13	1.25	.50
14	14L050-MPB	113452	.55	1.671	1.91	DF-1	3/8	3/4	1.13	1.25	.50
15	15L050-MPB	114442	.66	2.030	2.03	DF-1	3/8	7/8	1.34	1.25	.50
16	16L050-MPB	113453	.69	1.790	2.13	DF-1	1/2	1	1.44	1.25	.50
17	17L050-MPB	114301	.84	1.910	2.25	DF-1	1/2	1	1.44	1.25	.50
18	18L050-MPB	114302	.87	2.149	2.38	DF-1	1/2	1	1.56	1.25	.50
19	19L050-MPB	114303	1.11	2.268	2.50	DF-1	1/2	1	1.69	1.25	.50
20	20L050-MPB	114304	1.20	2.378	2.63	DF-1	1/2	1	1.69	1.25	.50
21	21L050-MPB	114305	1.41	2.507	2.75	DF-1	1/2	1-1/4	2.00	1.25	.50
22	22L050-MPB	114306	1.50	2.626	2.88	DF-1	1/2	1-1/4	2.00	1.25	.50
24	24L050-MPB	114307	1.80	2.865	3.09	DF-1	1/2	1-3/8	2.25	1.25	.50
26	26L050-MPB	114308	2.07	3.104	3.33	DF-1	1/2	1-3/8	2.25	1.25	.50
28	28L050-MPB	114309	2.33	3.342	3.57	DF-1	1/2	1-3/8	2.25	1.25	.50
30	30L050-MPB	114310	2.58	3.581	3.80	DF-1	1/2	1-3/8	2.25	1.25	.50
32	32L050-MPB	114311	3.13	3.820	4.04	DF-1	1/2	1-5/8	2.63	1.25	.50
36	36L050-MPB	114443	4.39	4.297	4.52	DF-1	1/2	2-5/16	3.50	1.25	.50
40	40L050-MPB	114444	5.16	4.775	5.00	DF-1	1/2	2-3/8	3.63	1.25	.50

### L075 - 3/8" Pitch (.75" Wide Belt) - Minimum Plain Bore

F = 1.00"

12	12L075-MPB	113500	.46	1.432	1.66	DF-1	3/8	1/2	1.00	1.50	.50
13	13L075-MPB	114445	.62	1.552	1.78	DF-1	3/8	3/4	1.13	1.50	.50
14	14L075-MPB	113501	.69	1.671	1.91	DF-1	3/8	3/4	1.13	1.50	.50
15	15L075-MPB	114446	.81	1.790	2.03	DF-1	1/2	7/8	1.34	1.50	.50
16	16L075-MPB	113502	.84	1.910	2.13	DF-1	1/2	1	1.44	1.50	.50
17	17L075-MPB	114312	1.03	2.029	2.25	DF-1	1/2	1	1.44	1.50	.50
18	18L075-MPB	114313	1.17	2.149	2.38	DF-1	1/2	1	1.56	1.50	.50
19	19L075-MPB	114314	1.32	2.268	2.50	DF-1	1/2	1	1.69	1.50	.50
20	20L075-MPB	114315	1.44	2.387	2.63	DF-1	1/2	1-1/4	1.69	1.50	.50
21	21L075-MPB	114316	1.68	2.507	2.75	DF-1	5/8	1-1/4	2.00	1.50	.50
22	22L075-MPB	114317	1.79	2.626	2.88	DF-1	5/8	1-3/8	2.00	1.50	.50
24	24L075-MPB	114318	2.22	2.865	3.09	DF-1	5/8	1-3/8	2.25	1.50	.50
26	26L075-MPB	114319	2.48	3.104	3.33	DF-1	5/8	1-3/8	2.25	1.50	.50
28	28L075-MPB	114320	2.84	3.342	3.57	DF-1	5/8	1-3/8	2.25	1.50	.50
30	30L075-MPB	114321	3.24	3.581	3.80	DF-1	5/8	1-3/8	2.25	1.50	.50
32	32L075-MPB	114322	3.77	3.820	4.04	DF-1	5/8	1-5/8	2.63	1.50	.50
36	36L075-MPB	114447	5.33	4.297	4.52	DF-1	5/8	2-5/16	3.50	1.50	.50
40	40L075-MPB	114448	6.31	4.775	5.00	DF-1	5/8	2-3/8	3.63	1.50	.50

### L100 - 3/8" Pitch (1" Wide Belt) - Minimum Plain Bore

F = 1.25"

13	13L100-MPB	114449	.72	1.552	1.78	DF-1	3/8	3/4	1.13	1.75	.50
14	14L100-MPB	113550	.82	1.671	1.91	DF-1	3/8	3/4	1.13	1.75	.50
15	15L100-MPB	114450	.96	1.790	2.03	DF-1	1/2	7/8	1.34	1.75	.50
16	16L100-MPB	113551	.98	1.910	2.13	DF-1	1/2	1	1.44	1.75	.50
17	17L100-MPB	114323	1.23	2.029	2.25	DF-1	1/2	1	1.44	1.75	.50
18	18L100-MPB	114324	1.38	2.149	2.38	DF-1	1/2	1	1.56	1.75	.50
19	19L100-MPB	114325	1.56	2.268	2.50	DF-1	1/2	1	1.69	1.75	.50
20	20L100-MPB	114326	1.71	2.387	2.63	DF-1	1/2	1	1.69	1.75	.50
21	21L100-MPB	114327	1.97	2.507	2.75	DF-1	5/8	1-1/4	2.00	1.75	.50
22	22L100-MPB	114328	2.13	2.626	2.88	DF-1	5/8	1-1/4	2.00	1.75	.50
24	24L100-MPB	114329	2.60	2.865	3.09	DF-1	5/8	1-3/8	2.25	1.75	.50
26	26L100-MPB	114330	3.12	3.104	3.33	DF-1	5/8	1-5/8	2.44	1.75	.50
28	28L100-MPB	114331	3.65	3.342	3.57	DF-1	5/8	1-3/4	2.69	1.75	.50
30	30L100-MPB	114332	4.19	3.581	3.80	DF-1	5/8	1-7/8	2.81	1.75	.50
32	32L100-MPB	114333	4.86	3.820	4.04	DF-1	5/8	2	3.13	1.75	.50
36	36L100-MPB	114451	6.24	4.297	4.52	DF-1	5/8	2-5/16	3.50	1.75	.50
40	40L100-MPB	114452	7.52	4.775	5.00	DF-1	5/8	2-5/16	3.63	1.75	.50

**NOTE:** Available from stock in Min. Plain Bore (MPB) only.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

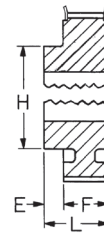
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# SPECIFICATIONS

## DYNA-SYNC Pulleys - Reborable Minimum Plain Bore

TYPE DF



TYPE D

### H100 - 1/2" Pitch (1" Wide Belt) - Minimum Plain Bore

F = 1.25"

No of Teeth	Description	Part Number	Approx Weight	Pitch Dia (PD)	Flg O.D.	Type	Stock Bore	Max Bore	Dimension		
									H	L	E
14	14H100-MPB	114334	1.48	2.228	2.46	DF-1	5/8	7/8	1.63	1.88	.63
16	16H100-MPB	114335	2.12	2.546	2.78	DF-1	5/8	1-1/8	1.88	2.00	.75
17	17H100-MPB	114453	2.42	2.706	2.94	DF-1	5/8	1-1/4	2.00	2.00	.75
18	18H100-MPB	114336	2.86	2.865	3.10	DF-1	5/8	1-3/8	2.25	2.00	.75
19	19H100-MPB	114337	3.21	3.024	3.26	DF-1	5/8	1-1/2	2.38	2.00	.75
20	20H100-MPB	114338	3.68	3.183	3.42	DF-1	5/8	1-5/8	2.50	2.13	.88
21	21H100-MPB	114339	4.08	3.342	3.57	DF-1	3/4	1-11/16	2.63	2.13	.88
22	22H100-MPB	114340	4.67	3.501	3.74	DF-1	3/4	1-3/4	2.75	2.25	1.00
24	24H100-MPB	114341	5.60	3.820	4.05	DF-1	3/4	1-7/8	3.00	2.25	1.00
26	26H100-MPB	114342	7.16	4.138	4.37	DF-1	3/4	2-1/4	3.38	2.38	1.13
28	28H100-MPB	114343	8.15	4.456	4.69	DF-1	3/4	2-5/16	3.50	2.38	1.13
30	30H100-MPB	114454	9.15	4.775	5.01	DF-1	3/4	2-3/8	3.63	2.38	1.13

### H150 - 1/2" Pitch (1.5" Wide Belt) - Minimum Plain Bore

F = 1.75"

14	14H150-MPB	114344	1.85	2.228	2.46	DF-1	3/4	7/8	1.63	2.38	.63
16	16H150-MPB	114345	2.63	2.546	2.78	DF-1	3/4	1-1/8	1.88	2.50	.75
17	17H150-MPB	114455	3.06	2.706	2.94	DF-1	3/4	1-1/4	2.00	2.50	.75
18	18H150-MPB	114346	3.55	2.865	3.10	DF-1	3/4	1-3/8	2.25	2.50	.75
19	19H150-MPB	114347	4.01	3.024	3.26	DF-1	3/4	1-1/2	2.38	2.50	.75
20	20H150-MPB	114348	4.62	3.183	3.42	DF-1	3/4	1-5/8	2.50	2.63	.88
21	21H150-MPB	114349	5.15	3.342	3.57	DF-1	3/4	1-11/16	2.63	2.63	.88
22	22H150-MPB	114350	5.89	3.501	3.74	DF-1	3/4	1-3/4	2.75	2.75	1.00
24	24H150-MPB	114351	7.09	3.820	4.05	DF-1	3/4	1-7/8	3.00	2.75	1.00
26	26H150-MPB	114352	8.62	4.138	4.37	DF-1	3/4	2-1/4	3.38	2.75	1.00
28	28H150-MPB	114353	10.09	4.456	4.69	DF-1	3/4	2-5/16	3.50	2.88	1.13
30	30H150-MPB	114456	11.52	4.775	5.01	DF-1	3/4	2-3/8	3.63	2.88	1.13

### H200 - 1/2" Pitch (2" Wide Belt) - Minimum Plain Bore

F = 2.28"

14	14H200-MPB	114354	2.35	2.228	2.44	DF-1	3/4	7/8	1.63	2.91	.63
16	16H200-MPB	114355	3.29	2.546	2.88	DF-1	3/4	1-1/8	1.88	3.03	.75
17	17H200-MPB	114457	3.77	2.706	3.00	DF-1	3/4	1-1/4	2.00	3.03	.75
18	18H200-MPB	114356	3.90	2.865	3.13	DF-1	3/4	1-3/8	2.25	3.03	.75
19	19H200-MPB	114357	3.90	3.024	3.38	DF-1	3/4	1-1/2	2.38	3.03	.75
20	20H200-MPB	114358	5.34	3.183	3.38	DF-1	3/4	1-5/8	2.50	3.16	.88
21	21H200-MPB	114359	6.10	3.342	3.63	DF-1	1	1-11/16	2.63	3.16	.88
22	22H200-MPB	114360	6.30	3.501	3.81	DF-1	1	1-3/4	2.75	3.28	1.00
24	24H200-MPB	114361	8.35	3.820	4.06	DF-1	1	1-7/8	3.00	3.28	1.00
26	26H200-MPB	114362	10.44	4.138	4.38	DF-1	1	2-1/4	3.38	3.41	1.13
28	28H200-MPB	114363	12.01	4.456	4.69	DF-1	1	2-5/16	3.50	4.44	2.16
30	30H200-MPB	114458	13.80	4.775	5.00	DF-1	1	2-3/8	3.63	4.44	2.16

### H300 - 1/2" Pitch (3" Wide Belt) - Minimum Plain Bore

F = 3.31"

16	16H300-MPB	114364	4.54	2.546	2.88	DF-1	3/4	1-1/8	1.88	4.06	.75
17	17H300-MPB	114459	5.23	2.706	3.00	DF-1	3/4	1-1/4	2.00	4.06	.75
18	18H300-MPB	114365	6.00	2.865	3.13	DF-1	3/4	1-3/8	2.25	4.06	.75
19	19H300-MPB	114366	6.80	3.024	3.38	DF-1	3/4	1-1/2	2.35	4.06	.75
20	20H300-MPB	114367	7.69	3.183	3.38	DF-1	3/4	1-5/8	2.50	4.19	.88
21	21H300-MPB	114368	8.59	3.342	3.63	DF-1	1	1-11/16	2.66	4.19	.88
22	22H300-MPB	114369	9.00	3.501	3.81	DF-1	1	1-3/4	2.75	4.31	1.00
24	24H300-MPB	114370	11.01	3.820	4.06	DF-1	1-1/8	1-7/8	3.00	4.31	1.00
26	26H300-MPB	114371	13.60	4.138	4.38	DF-1	1-1/8	2-1/4	3.38	4.44	1.13
28	28H300-MPB	114372	15.60	4.456	4.69	DF-1	1-1/8	2-5/16	3.50	4.44	1.13
30	30H300-MPB	114460	18.11	4.775	5.00	DF-1	1-1/8	2-3/8	3.63	4.44	1.13

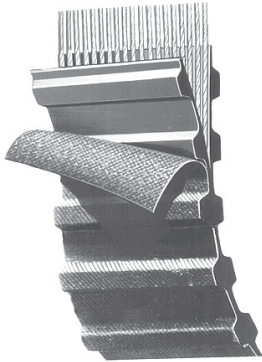
**NOTE:** Available from stock in Min. Plain Bore (MPB) only.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

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# SPECIFICATIONS

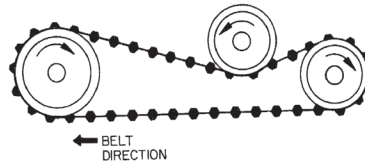


## Dual DYNA-SYNC Belts



For Serpentine Drives

DXL Series Dual DYNA-SYNC Belts					DL Series Dual DYNA-SYNC Belts								
Belt Lgth.	1/5" Pitch (XL)				Belt Lgth.	3/8" Pitch (L)							
	XL025 (1/4" Wide)		XL037 (3/8" Wide)			L050 (1/2" Wide)		L075 (3/4" Wide)		L100 (1" Wide)			
	Belt No.	Part No.	Belt No.	Part No.		Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.		
12.0	D120XL025	110132	D120XL037	110133	15.0	D150L050	110187	D150L075	110158	D150L100	110189		
13.0	D130XL025	110134	D130XL037	110135	18.7	D187L050	110190	D187L075	110191	D187L100	110192		
14.0	D140XL025	110136	D140XL037	110137	21.0	D210L050	110193	D210L075	110194	D210L100	110195		
15.0	D150XL025	110138	D150XL037	110139	22.5	D225L050	110196	D225L075	110197	D255L100	110198		
16.0	D160XL025	110140	D160XL037	110141	24.0	D240L050	110199	D240L075	110200	D240L100	110201		
17.0	D170XL025	110142	D170XL037	110143	25.5	D255L050	110202	D255L075	110203	D255L100	110204		
18.0	D180XL025	110144	D180XL037	110145	27.0	D270L050	110205	D270L075	110206	D270L100	110207		
19.0	D190XL025	110146	D190XL037	110147	28.5	D285L050	110208	D285L075	110209	D285L100	110210		
20.0	D200XL025	110148	D200XL037	110149	30.0	D300L050	110211	D300L075	110212	D300L100	110213		
21.0	D210XL025	110150	D210XL037	110151	32.2	D322L050	110214	D322L075	110215	D322L100	110216		
22.0	D220XL025	110152	D220XL037	110153	34.5	D345L050	110217	D345L075	110218	D345L100	110219		
23.0	D230XL025	110154	D230XL037	110155	36.7	D367L050	110220	D367L075	110221	D367L100	110222		
24.0	D240XL025	110156	D240XL037	110157	39.0	D390L050	110223	D390L075	110224	D390L100	110225		
25.0	D250XL025	110158	D250XL037	110159	42.0	D420L050	110226	D420L075	110227	D420L100	110228		
26.0	D260XL025	110160	D260XL037	110161	45.0	D450L050	110229	D450L075	110230	D450L100	110231		
28.0	D280XL025	110162	D280XL037	110163	48.0	D480L050	110232	D460L075	110233	D480L100	110234		
29.0	D290XL025	110164	D290XL037	110165	51.0	D510L050	110235	D510L075	110236	D510L100	110237		
30.0	D300XL025	110166	D300XL037	110167	54.0	D540L050	110238	D540L075	110239	D540L100	110240		
31.0	D310XL025	110168	D310XL037	110169	60.0	D600L050	110241	D600L075	110242	D600L100	110243		
33.0	D330XL025	110170	D330XL037	110171	66.0	D660L050	110244	D660L075	110245	D660L100	110246		
		Avg. Wt. .03Lb.		Avg. Wt. 0.5Lb.				Avg. Wt. .14Lb.		Avg. Wt. .21Lb.		Avg. Wt. .26Lb.	



## DH Series Dual DYNA-SYNC Belts

Belt Lgth.	1/2" Pitch (H)										
	H075 (3/4" Wide)		H100 (1" Wide)		H150 (1-1/2" Wide)		H200(2" Wide)		H300 (3" Wide)		
	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.	
24.0	D240H075	110247	D240H100	110248	D240H150	110249	D240H200	110250	D240H300	110251	
27.0	D270H075	110252	D270H100	110253	D270H150	110254	D270H200	110255	D270H300	110256	
30.0	D300H075	110257	D300H100	110258	D300H150	110259	D300H200	110260	D300H300	110261	
33.0	D330H075	110262	D330H100	110263	D330H150	110264	D330H200	110265	D330H300	110266	
36.0	D360H075	110267	D360H100	110268	D360H150	110269	D360H200	110270	D360H300	110271	
39.0	D390H075	110272	D390H100	110273	D390H150	110274	D390H200	110275	D390H300	110276	
42.0	D420H075	110277	D420H100	110278	D420H150	110279	D420H200	110280	D420H300	110281	
45.0	D450H075	110282	D450H100	110283	D450H150	110284	D450H200	110285	D450H300	110286	
48.0	D480H075	110287	D480H100	110288	D480H150	110289	D480H200	110290	D480H300	110291	
51.0	D510H075	110292	D510H100	110293	D510H150	110294	D510H200	110295	D510H300	110296	
54.0	D540H075	110297	D540H100	110298	D540H150	110299	D540H200	110300	D540H300	110301	
57.0	D570H075	110302	D570H100	110303	D570H150	110304	D570H200	110305	D570H300	110306	
60.0	D600H075	110307	D600H100	110308	D600H150	110309	D600H200	110310	D600H300	110311	
63.0	D630H075	110312	D630H100	110313	D630H150	110314	D630H200	110315	D630H300	110316	
66.0	D660H075	110317	D660H100	110318	D660H150	110319	D660H200	110320	D660H300	110321	
70.0	D700H075	110322	D700H100	110323	D700H150	110324	D700H200	110325	D700H300	110326	
75.0	D750H075	110327	D750H100	110328	D750H150	110329	D750H200	110330	D750H300	110331	
80.0	D800H075	110332	D800H100	110333	D800H150	110334	D800H200	110335	D800H300	110336	
85.0	D850H075	110337	D850H100	110338	D850H150	110339	D850H200	110340	D850H300	110341	
90.0	D900H075	110342	D900H100	110343	D900H150	110344	D900H200	110345	D900H300	110346	
100.0	D1000H075	110347	D1000H100	110348	D1000H150	110349	D1000H200	110350	D1000H300	110351	
110.0	D1100H075	110352	D1100H100	110353	D1100H150	110354	D1100H200	110355	D1100H300	110356	
125.0	D1250H075	110357	D1250H100	110358	D1250H150	110359	D1250H200	110360	D1250H300	110361	
140.0	D1400H075	110362	D1400H100	110363	D1400H150	110364	D1400H200	110365	D1400H300	110366	
170.0	D1700H075	110367	D1700H100	110368	D1700H150	110369	D1700H200	110370	D1700H300	110371	
		Avg. Wt. .35Lb.		Avg. Wt. .47Lb.		Avg. Wt. .70Lb.		Avg. Wt. .94Lb.		Avg. Wt. 1.41Lb.	

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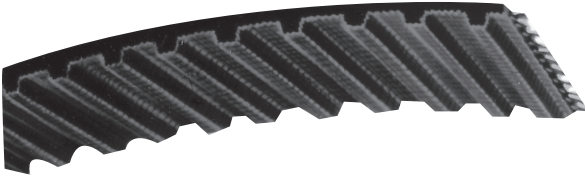
## SPECIFICATIONS

### DYNA-SYNC - Belts

#### XL Series DYNA-SYNC Belts

##### 1/5" Pitch (XL)

Belt Length	XL025 (1/4" Wide) Belt No.	Part No.	Wt.	XL037 (3/8" Wide) Belt No.	Part No.	Wt.
6.0	60XL025	465335	...	60XL037	464521	...
7.0	70XL025	464501	...	70XL037	464522	...
8.0	80XL025	464502	...	80XL037	464523	...
9.0	90XL025	464503	...	90XL037	464524	.01
10.0	100XL025	464504	...	100XL037	464525	.01
11.0	110XL025	464505	...	110XL037	464526	.01
12.0	120XL025	464506	...	120XL037	464527	.01
13.0	130XL025	464507	.01	130XL037	464528	.01
14.0	140XL025	464508	.01	140XL037	464529	.01
15.0	150XL025	464509	.01	150XL037	464530	.01
16.0	160XL025	464510	.01	160XL037	464531	.01
17.0	170XL025	464511	.01	170XL037	464532	.01
18.0	180XL025	464512	.01	180XL037	464533	.02
19.0	190XL025	464513	.01	190XL037	464534	.02
20.0	200XL025	464514	.01	200XL037	464535	.02
21.0	210XL025	464515	.01	210XL037	464536	.02
22.0	220XL025	464516	.01	220XL037	464537	.02
23.0	230XL025	464517	.01	230XL037	464538	.02
24.0	240XL025	464518	.01	240XL037	464539	.02
25.0	250XL025	464519	.01	250XL037	464540	.02
26.0	260XL025	464520	.02	260XL037	464541	.02



#### L Series DYNA-SYNC Belts

##### 3/8" Pitch (L)

Belt Length	L050 (1/2" Wide)			L075 (3/4" Wide)			L100 (1" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
12.4	124L050	464542	.03	124L075	464562	.05	124L100	464582	.06
15.0	150L050	464543	.04	150L075	464563	.06	150L100	464583	.08
18.7	187L050	464544	.05	187L075	464564	.07	187L100	464534	.10
21.0	210L050	464545	.05	210L075	464565	.08	210L100	464585	.09
22.5	225L050	464546	.06	225L075	464566	.09	225L100	464586	.11
24.0	240L050	464547	.06	240L075	464567	.09	240L100	464587	.11
25.5	255L050	464548	.06	255L075	464568	.10	255L100	464588	.13
27.0	270L050	464549	.07	270L075	464569	.10	270L100	464589	.14
28.5	285L050	464550	.07	285L075	464570	.11	285L100	464590	.14
30.0	300L050	464551	.08	300L075	464571	.11	300L100	464591	.15
32.2	322L050	464552	.08	322L075	464572	.12	322L100	464592	.16
34.5	345L050	464553	.09	345L075	464573	.13	345L100	464593	.17
36.7	367L050	464554	.09	367L075	464574	.14	367L100	464594	.19
39.0	390L050	464555	.10	390L075	464575	.15	390L100	464595	.20
42.0	420L050	464556	.11	420L075	464576	.16	420L100	464596	.21
45.0	450L050	464557	.11	450L075	464577	.17	450L100	464597	.23
48.0	480L050	464558	.12	480L075	464578	.18	480L100	464598	.24
51.0	510L050	464559	.13	510L075	464579	.19	510L100	464599	.26
54.0	540L050	464560	.14	540L075	464580	.21	540L100	464600	.27
60.0	600L050	464561	.15	600L075	464581	.23	600L100	464601	.30



# SPECIFICATIONS

## DYNA-SYNC - Belts

### H Series DYNA-SYNC Belts

Belt Length	1/2" Pitch (H)														
	H075 (3/4" Wide)			H100 (1" Wide)			H150 (1-1/2" Wide)			H200 (2" Wide)			H300 (3" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
24.0	240H075	464602	.11	240H100	464621	.14	240H150	464645	.22	240H200	464772	.29	240H300	464778	.43
27.0	270H075	464603	.12	270H100	464622	.16	270H150	464646	.24	270H200	464773	.33	270H300	464779	.49
30.0	300H075	464604	.14	300H100	464623	.18	300H150	464647	.27	300H200	464774	.36	300H300	464780	.54
33.0	330H075	464605	.14	330H100	464624	.20	330H150	464648	.30	330H200	464775	.40	330H300	464781	.60
36.0	360H075	464606	.15	360H100	464625	.22	360H150	464649	.33	360H200	464664	.43	360H300	464736	.65
39.0	390H075	464607	.18	390H100	464626	.24	390H150	464650	.35	390H200	464665	.47	390H300	464737	.71
42.0	420H075	464608	.19	420H100	464627	.25	420H150	464651	.38	420H200	464666	.51	420H300	464738	.76
45.0	450H075	464609	.20	450H100	464628	.27	450H150	464652	.41	450H200	464667	.54	450H300	464739	.81
48.0	480H075	464610	.23	480H100	464629	.31	480H150	464653	.46	480H200	464668	.62	480H300	464740	.92
51.0	510H075	464611	.23	510H100	464630	.31	510H150	464654	.46	510H200	464669	.62	510H300	464741	.92
54.0	540H075	464612	.24	540H100	464631	.33	540H150	464655	.49	540H200	464670	.65	540H300	464683	.98
57.0	570H075	464613	.26	570H100	464632	.34	570H150	464656	.52	570H200	464671	.69	570H300	464684	1.03
60.0	600H075	464614	.27	600H100	464633	.36	600H150	464657	.54	600H200	464672	.72	600H300	464685	1.09
63.0	630H075	464615	.29	630H100	464634	.38	630H150	464658	.57	630H200	464673	.76	630H300	464686	1.14
66.0	660H075	464616	.30	660H100	464635	.40	660H150	464659	.60	660H200	464674	.80	660H300	464687	1.20
70.0	700H075	464617	.32	700H100	464636	.42	700H150	464660	.63	700H200	464675	.85	700H300	464688	1.27
75.0	750H075	464618	.34	750H100	464637	.45	750H150	464661	.68	750H200	464676	.91	750H300	464689	1.36
80.0	800H075	464619	.36	800H100	464638	.48	800H150	464662	.72	800H200	464677	.97	800H300	464742	1.45
85.0	850H075	464620	.38	850H100	464639	.51	850H150	464663	.77	850H200	464678	1.03	850H300	464743	1.54
90.0	900H075	464759	.41	900H100	464640	.54	900H150	464766	.82	900H200	464679	1.09	900H300	464744	1.63
100.0	1000H075	464760	.45	1000H100	464641	.60	1000H150	464767	.91	1000H200	464680	1.21	1000H300	464745	1.81
110.0	1100H075	464761	.50	1100H100	464642	.66	1100H150	464768	1.00	1100H200	464681	1.33	1100H300	464746	1.99
125.0	1250H075	464762	.57	1250H100	464643	.75	1250H150	464769	1.13	1250H200	464682	1.51	1250H300	464747	2.26
140.0	1400H075	464763	.63	1400H100	464644	.85	1400H150	464770	1.27	1400H200	464776	1.69	1400H300	464748	2.54
170.0	1700H075	464764	.77	1700H100	464765	1.03	1700H150	464771	1.54	1700H200	464777	2.05	1700H300	464749	3.08

### XH Series DYNA-SYNC Belts

Belt Length	7/8" Pitch (XH)								
	XH200 (2" Wide)			XH300 (3" Wide)			XH400 (4" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
50.7	507XH200	464690	1.77	507XH300	464702	2.66	507XH400	464750	3.54
56.0	560XH200	464691	1.95	560XH300	464703	2.93	560XH400	464751	3.91
63.0	630XH200	464692	2.20	630XH300	464704	3.30	630XH400	464752	4.40
70.0	700XH200	464693	2.33	700XH300	464705	3.49	700XH400	464753	4.65
77.0	770XH200	464694	2.69	770XH300	464706	3.49	770XH400	464754	4.65
84.0	840XH200	464695	2.79	840XH300	464707	4.19	840XH400	464755	5.58
98.0	980XH200	464696	3.42	980XH300	464708	5.13	980XH400	464756	6.84
112.0	1120XH200	464697	3.72	1120XH300	464709	5.58	1120XH400	464757	7.45
126.0	1260XH200	464698	4.19	1260XH300	464710	6.28	1260XH400	464758	8.38
140.0	1400XH200	464699	4.65	1400XH300	464711	6.98	1400XH400	464782	9.31
154.0	1540XH200	464700	5.12	1540XH300	464712	7.68	1540XH400	464783	10.2
175.0	1750XH200	464701	5.82	1750XH300	464713	8.73	1750XH400	464784	10.6

### XXH Series DYNA-SYNC Belts

Belt Length	1-1/4" Pitch (XXH)											
	XXH200 (2" Wide)			XXH300 (3" Wide)			XXH400 (4" Wide)			XXH500 (5" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
70.0	700XXH200	465301	3.23	700XXH300	465302	4.85	700XXH400	465303	6.47	700XXH500	465304	8.09
80.0	800XXH200	465305	3.70	800XXH300	465306	5.54	800XXH400	465307	7.39	800XXH500	465308	9.24
90.0	900XXH200	465309	4.38	900XXH300	465310	6.58	900XXH400	465311	8.77	900XXH500	465312	11.0
100.0	1000XXH200	465313	4.87	1000XXH300	465314	7.31	1000XXH400	465315	9.74	1000XXH500	465316	12.2
120.0	1200XXH200	465337	5.54	1200XXH300	465317	8.32	1200XXH400	465318	11.1	1200XXH500	465319	13.9
140.0	1400XXH200	465323	6.47	1400XXH300	465320	9.70	1400XXH400	465321	12.9	1400XXH500	465322	16.2
160.0	1600XXH200	465324	7.39	1600XXH300	465325	11.1	1600XXH400	465326	14.8	1600XXH500	465327	18.5
180.0	1800XXH200	465338	8.32	1800XXH300	465329	12.5	1800XXH400	465330	16.6	1800XXH500	465331	20.8

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# SELECTION

## DYNA-SYNC Drives

### USING STANDARD MOTOR SPEEDS

**Step 1—Determine Service Factor** from steps on page PT10-16.

**Step 2—Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3—Choose Belt Section.** Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 4—Select the Drive, a).** Using the belt section from Step 3, refer to Selection Tables beginning on page PT10-18. **b).** Under appropriate standard full-load motor RPM, find the driven RPM nearest to the desired speed. Trace right to columns headed “Pulley Combination.” If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical

or inclined, both must be flanged.) **c).** On same line trace right to the figure nearest the desired center distance and at top of column note belt number. **d).** Trace back on same line to appropriate column under heading “HP for a 1” Belt...” Divide the design HP obtained in Step 2 by the HP thus found in table. (Divide this value by Teeth in Mesh (T.I.M.) factor when applicable.) The result is the Belt Width Factor. Refer to table below right hand selection table to determine belt width required. If width shown is not stock go to next stock width listed. Add belt code, from table, to belt number found in Step 4c. (If wider stock belt is not shown in table, redesign drive to next larger pitch.) To check drive calculation: HP for a 1” Wide Belt x Belt Width factor x Teeth in Mesh factor = Actual HP rating of the drive. If actual rating is equal to or greater than Design HP, selection is O.K.

**NOTE:** Good practice dictates that shaft and bushing system (or alternate shaft mounting method) be verified for adequate rating.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives

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## DYNA-SYNC Drives

### USING STANDARD MOTOR SPEEDS

#### EXAMPLE OF SELECTION

Select a drive for a 3 cylinder reciprocating compressor to run 8 hours a day at about 270 RPM and to be driven by a 5 HP, 1160 RPM Design B squirrel cage motor. Centers are about 25”.

**Step 1**–Service Factor from page PT10-16 is 2.2.

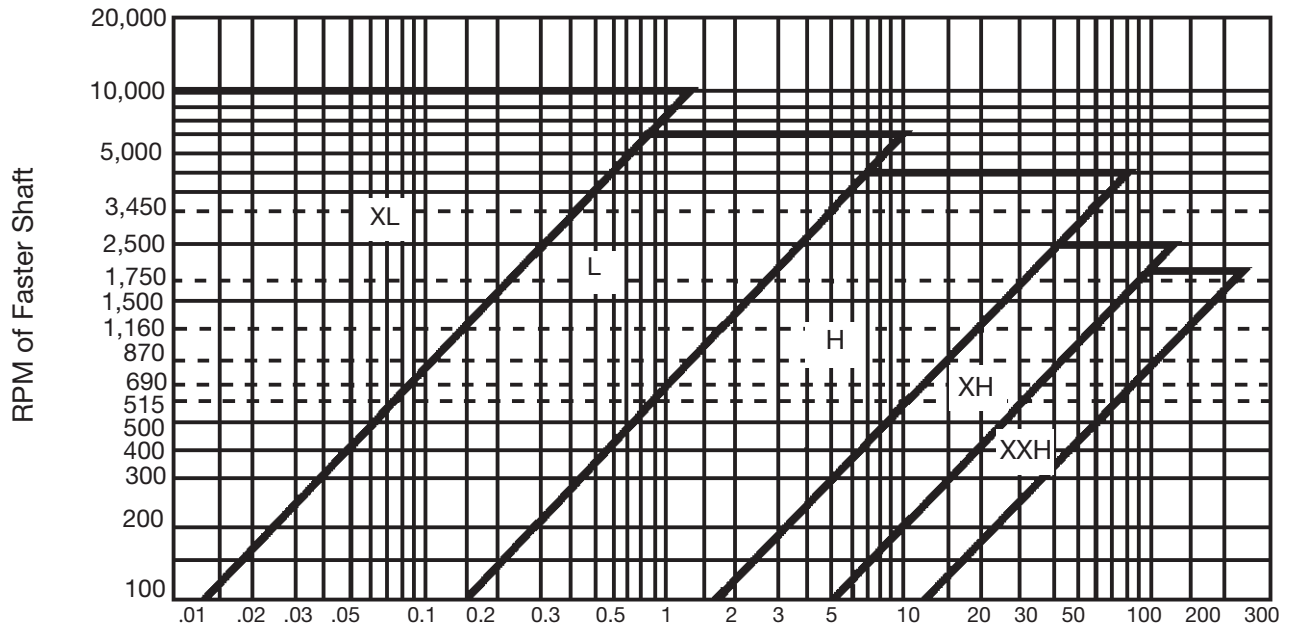
**Step 2**–Design HP = 5 x 2.2 = 11 HP.

**Step 3**–An “H” Cross Section is shown in Table 1 when reading to the right of 1160 RPM of faster shaft and up from 11 design HP.

**Step 4**–The H-Section drive tables begin on page PT10-30. On page PT10-34, the nearest driven speed for

a 1160 RPM motor is 271 RPM. Two possible pulley combinations are listed. The 28H driver/120H driven is preferred. On the same line the nearest center distance to 25” is 25.45”. Note the 900 H belt at top of column. Tracing back on the same line, under 1160 RPM, the “HP for a 1” Belt” is 5.68. 11 design HP 5.68 = 1.937 Belt Width Factor. Belt Width Table indicates a 2” wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL28H200 DYNA-SYNC Pulley, (1) 2012 Taper-Lock (1) TL120H200 pulley. (1) TAPER-LOCK 3020 bushing. (1) 900H200 DYNA-SYNC Belt. To facilitate delivery, order by part numbers listed in Pulley, Bushing and Belt sections of this catalog.

**Table 1 - Synchronous Cross Section Selection Chart**





## SELECTION

### Service Factor

To determine the service factor for a DYNA-SYNC drive follow the three steps below.

**Step 1.** Determine the class of Driver from Table 2 below.

**Step 2.** Use Class of Driver and Type of Application in Table 4 at right to find the tentative service factor.

**Step 3.** Add the Additional Service Factor, when applicable, from Table 3 at bottom of page to the tentative service factor from Step 2 to determine the service factor for the application.

**Table 2 - Class of Driver**

Driver	Class I	Class II	Class III
A-C Electric Motors, Single Phase.....	.....	.....	All
Squirrel Cage, NEMA Design A,			
3500 RPM.....	40 HP up	30 HP or less	.....
1750 RPM.....	100 HP up	5 to 75 HP	3 HP or less
1160 RPM.....	15 HP up	10 HP or less	.....
870 RPM.....	5 HP up	3 HP or less	.....
NEMA Design B,			
3500 RPM.....	.....	5 HP up	3 HP or less
1750 RPM.....	.....	5 HP up	3 HP or less
1160 RPM.....	.....	5 HP up	3 HP or less
870 RPM.....	.....	2 HP up	1-1/2 HP or less
NEMA Design C,			
1750 RPM.....	.....	15 HP up	10 HP or less
1160 RPM.....	.....	7-1/2 HP up	5 HP or less
870 RPM.....	.....	All	.....
NEMA Design D.....	.....	.....	All
NEMA Design F.....	All	.....	.....
Wound Rotor,.....	.....	.....	.....
1750 RPM.....	.....	20 HP	15 HP or less
1160 RPM.....	.....	15 HP	10 HP or less
870 RPM.....	.....	7-1/2 HP	5 HP or less
Synchronous.....	.....	Norm. Torque	High Torque
D-C Electric Motors	Shunt	Compound	Series
Engines-Int. Comb	8 Cyl. up	6 Cyl	4 Cyl. or less
Hydraulic Motors ..	.....	.....	All
Line Shafts.....	.....	.....	All

**Table 3 - Additional Service Factors †**

Condition	Additional Factor
24 hour continuous operation .....	0.2
Use of an idler .....	0.2
Intermittent or seasonal operation .....	◊
Speed up drive:	
1 to 1.24 ratio .....	0.0
1.25 to 1.74 ratio .....	0.1
1.75 to 2.49 ratio .....	0.2
2.50 to 3.49 ratio .....	0.3
Over 3.49 ratio .....	0.4

† Additional service factors other than listed here are required for unusual condition such as torque reversal, heavy shock, when current to motor is reversed to either stop the motor rapidly or to run it in opposite direction, or when a brake is to be used. For such applications consult factory.

◊ Subtract 0.2 from tentative service factor.

**Table 4 - Service Factors\***

Application	Class		
	I	II	III
AGITATORS, MIXERS (Paddle or Propeller)			
Liquid .....	1.4	1.6	1.8
Semi-liquid .....	1.5	1.7	1.9
BAKERY MACHINERY DOUGH MIXERS .....	1.4	1.6	1.8
BRICK AND CLAY MACHINERY			
Augers, Mixers, Granulators .....	1.5	1.7	1.9
Pug Mills .....	1.8	2.0	2.2
CENTRIFUGES .....	1.8	1.9	...
COMPRESSORS			
Reciprocating .....	2.0	2.2	2.4
Centrifugal .....	1.8	1.7	1.8
CONVEYORS			
Light-Package Belt, oven .....	1.3	1.5	1.7
Belt, Ore, Coal, Sand .....	1.8	1.7	1.8
Apron, Bucket, Elevator, Pan .....	1.7	1.8	1.9
Flight, Screw .....	1.7	1.9	2.0
FANS, BLOWERS			
Centrifugal, Induced Draft Exhausters .....	1.8	1.8	2.0
Propeller, Mine fans, Positive Blowers .....	1.8	2.0	2.2
GENERATORS AND EXCITERS .....	1.6	1.8	2.0
HAMMER MILLS .....	1.7	1.9	2.1
LAUNDRY MACHINERY			
General .....	1.5	1.6	1.7
Extractors, Washers .....	1.6	1.8	2.0
LINE SHAFTS .....	1.5	1.7	1.9
MACHINE TOOLS			
Drill Presses, Lathes, Screw Machines .....	1.4	1.6	1.8
Boring Mills, Grinders .....	1.5	1.7	1.9
Milling Machines, Shapers .....	1.5	1.7	1.9
MILLS			
Ball, Rod, Pebble, etc. ....	...	2.2	2.5
PAPER MACHINERY			
Agitators, Calenders, Dryers .....	1.4	1.6	1.8
Beaters, Jordans, Nash Pumps, Pulpers .....	1.7	1.9	2.1
PRINTING MACHINERY			
Presses: Newspaper, Rotary, Embossing, Flat Bed, Magazine; Linotype Machines; Cutters; Folders .....	1.4	1.6	1.8
PUMPS			
Centrifugal, Gear, Rotary, Pipeline .....	1.5	1.7	1.9
Reciprocating .....	2.0	2.2	2.4
RUBBER PLANT MACHINERY .....	1.6	1.8	2.0
SAW MILL MACHINERY .....	1.6	1.8	2.0
SCREENS			
Vibrating (Shakers) .....	1.5	1.7	...
Drum, Conical .....	1.4	1.5	...
TEXTILE MACHINERY			
Looms, Spinning Frames, Twisters .....	1.6	1.8	2.0
Wrappers, Reels .....	1.5	1.7	...
WOODWORKING MACHINERY			
Lathes, Band Saws .....	1.3	1.4	...
Jointers, Circular Saws, Planers .....	1.4	1.6	...



# SELECTION

## DYNA-SYNC Drives

### FOR SPEEDS OTHER THAN STANDARD MOTOR SPEEDS AND SPEED-UP DRIVES

#### For Speeds Other Than Standard Motor Speeds

**Step 1—Calculate Speed Ratio** =  $\frac{\text{Driver RPM}}{\text{Driven RPM}}$

**Step 2—Determine Service Factor** from steps on page PT10-16.

**Step 3—Calculate Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 2.

**Step 4—**Using Table 1 on page PT10-15 read up from design HP obtained in Step 3 and over from RPM of faster shaft. This intersection indicates belt section.

**Step 5—Select the Drive.** **a.)** Using the belt section obtained in Step 4, refer to Selection Tables beginning on PT10-18. **b.)** Read down ratio column to the value nearest to one calculated in Step 1. Trace right to columns headed “Pulley Combinations.” If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c.)** On the same line trace right to figure nearest the desired center distance and at top of column note belt number. **d.)** Now go to the HP Table for the appropriate belt section. Reading to the right of the speed of the faster pulley and down from the pulley size, the HP figure for a 1” belt will appear. Divide the design HP from Step 3 by the HP thus found in table. (Divide this value by Teeth in Mesh factor, when applicable.) The result is the Belt Width Factor. Refer to table below the HP Table to determine belt width factor required. If width shown is not in stock go to next stock width listed. Add belt code, from table, to belt number found in Step 5c. (If wider stock belt is not shown in table, redesign drive to next larger pitch).

#### EXAMPLE OF SELECTION

A printing machine embossing roll runs at 426 RPM, powered from an 800 RPM line shaft. The roll required 7 HP. Machine runs 8-10 hrs. a day. Center distance is approx. 20”.

**Step 1—Speed Ratio** = 1.88

**Step 2—Service Factor** = 1.8

**Step 3—Design HP** = 7 x 1.8 = 12.6

**Step 4—Belt Selection** from Table 1 = H

**Step 5—**The H Section Drive Tables begin on page PT10-30. The ratio of 1.88 obtained in Step 1 is found on page PT10-32. Two pulley combinations are listed. The 32H driver /60H driven is preferred. On the same line the nearest center distance to 20” is 19.88. Note the 630H belt at top of column. Refer to H section HP Tables on page PT10-42. Opposite 800 RPM of faster shaft and under 32H pulley, the HP 4.50 = 2.8. This is the belt width factor. Referring to the H belt width table a 3” wide belt is stock. Add the 300 Code Width to the pulley and belt numbers and order the following:

- (1) TL32H300 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK bushing (Check to see if bushing will fit equipment shafts).
- (1) TL60H300 Pulley.
- (1) 3020 bushing
- (1) 630H300 DYNA-SYNC Belt.

To facilitate delivery, use part numbers listed in Pulley, Bushing and Belt sections of this catalog.

#### Example of a Speed-Up Drive

Select a drive for a continuous duty liquid agitator to run at about 2000 RPM and to be driven by a 10 HP, 1750 RPM squirrel cage motor Centers are about 10”.

**Step 1—**Speed ratio is  $2000 \div 1750 = 1.14$ .

**Step 2—**Service factor from page PT10-3 is 1.8

**Step 3—**Design HP=  $10 \times 1.8 = 18$  HP.

**Step 4—**An “H” Cross Section is shown in Table 1 when reading to the right of 2000 RPM and up from 18 design HP.

**Step 5—**Speed ratio calculated in Step 1 appears in Selection Table on page PT10-30. Two possible pulley combinations are listed. The 28H driver/32H driven is preferred. In a Speed-Up Drive, the 28H becomes the driven, the 32H, the driver. On the same line the nearest center distance to 10” is 10.5. Note the 360H belt at top of column. Referring to HP table on page PT10-42, the rating for a 1” wide belt is shown as 9.60 for a 28H pulley at 2000 RPM.  $18 \text{ design HP} \div 9.60 = 1.875$  Belt Width Factor Belt Width Table indicates a 2” wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL32H200 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK Bushing. (Check to see if bushings will fit equipment shafts).

- (1) TL28H200 Pulley, (1) 2012 bushing (with 2, max. bore).
- (1) 360H200 DYNA-SYNC belt.

\* Selection program available online at [ptwizard.com](http://ptwizard.com).

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# SELECTION

## XL Stock Drive Selections

Driven Speeds for Motor Speeds of	Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts								
		Driver		Driven		3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL			
		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.												
3500	1750	1160	1.00	30XL	1.910	30XL	1.910	2.11	1.07	.71	....	....	....	....	....	2.50	
3500	1750	1160	1.00	28XL	1.783	28XL	1.783	1.98	1.00	.66	....	....	....	....	....	2.20	2.70
3500	1750	1160	1.00	24XL	1.528	24XL	1.528	1.71	.86	.56	....	....	....	2.10	2.60	3.10	
3500	1750	1160	1.00	22XL	1.401	22XL	1.401	1.57	.79	.52	....	....	1.80	2.30	2.80	3.30	
3500	1750	1160	1.00	21XL	1.337	21XL	1.337	1.49	.75	.50	....	....	1.90	2.40	2.90	3.40	
3500	1750	1160	1.00	20XL	1.273	20XL	1.273	1.42	.72	.46	....	....	2.00	2.50	3.00	3.50	
3500	1750	1160	1.00	18XL	1.146	18XL	1.146	1.28	.64	.42	....	1.70	2.20	2.70	3.20	3.70	
3500	1750	1160	1.00	16XL	1.019	16XL	1.019	1.15	.58	.38	1.40	1.90	2.40	2.90	3.40	3.90	
3500	1750	1160	1.00	15XL	.955	15XL	.955	1.07	.53	.36	1.50	2.00	2.50	3.00	3.50	4.00	
3500	1750	1160	1.00	14XL	.891	14XL	.891	1.00	.50	.33	1.60	2.10	2.60	3.10	3.60	4.10	
3500	1750	1160	1.00	12XL	.764	12XL	.764	.86	.43	.28	1.80	2.30	2.80	3.30	3.80	4.30	
3500	1750	1160	1.00	11XL	.700	11XL	.700	.79 ◊	.39	.26	1.90†	2.40†	2.90†	3.40†	3.90†	4.40†	
3341	1675	1107	1.05	21XL	1.337	22XL	1.401	1.49	.75	.50	....	....	1.85	2.35	2.85	3.35	
3333	1667	1105	1.05	20XL	1.273	21XL	1.337	1.42	.72	.46	....	....	1.95	2.45	2.95	3.45	
3281	1641	1088	1.07	30XL	1.910	32XL	2.037	2.11	1.07	.71	....	....	....	....	....	2.39	
3281	1641	1088	1.07	15XL	.955	16XL	1.019	1.07	.53	.36	1.45	1.95	2.45	2.95	3.45	3.95	
3267	1634	1083	1.07	28XL	1.783	30XL	1.910	1.98	1.00	.66	....	....	....	....	2.09	2.59	
3267	1634	1083	1.07	14XL	.891	15XL	.955	1.00	.50	.33	1.55	2.05	2.55	3.05	3.55	4.05	
3208	1604	1063	1.09	22XL	1.401	24XL	1.528	1.57	.79	.52	....	....	....	2.19	2.69	3.19	
3208	1604	1063	1.09	11XL	.700	12XL	.764	.79 ◊	.39	.26	1.85†	2.35†	2.85†	3.35†	3.85†	4.35†	
3182	1591	1055	1.10	20XL	1.273	22XL	1.401	1.42	.72	.46	....	....	1.89	2.39	2.89	3.39	
3150	1575	1044	1.11	18XL	1.146	20XL	1.273	1.28	.64	.42	....	1.59	2.09	2.59	3.09	3.59	
3111	1556	1031	1.13	16XL	1.019	18XL	1.146	1.15	.58	.38	....	1.79	2.29	2.79	3.29	3.79	
3063	1532	1015	1.14	28XL	1.783	32XL	2.037	1.98	1.00	.66	....	....	....	....	....	2.49	
3063	1532	1015	1.14	21XL	1.337	24XL	1.528	1.49	.75	.50	....	....	1.74	2.24	2.74	3.24	
3063	1532	1015	1.14	14XL	.891	16XL	1.019	1.00	.50	.33	1.49	1.99	2.49	2.99	3.49	4.00	
3000	1500	994	1.17	24XL	1.528	28XL	1.783	1.71	.86	.56	....	....	....	....	2.39	2.89	
3000	1500	994	1.17	18XL	1.146	21XL	1.337	1.28	.64	.42	....	1.54	2.04	2.54	3.04	3.54	
3000	1500	994	1.17	12XL	.764	14XL	.891	.86	.43	.28	1.69†	2.19†	2.69†	3.19†	3.69†	4.20†	
2917	1458	967	1.20	30XL	1.910	36XL	2.292	2.11	1.07	.71	....	....	....	....	....	....	
2917	1458	967	1.20	20XL	1.273	24XL	1.528	1.42	.72	.46	....	....	1.79	2.29	2.79	3.29	
2917	1458	967	1.20	15XL	.955	18XL	1.146	1.07	.53	.36	1.34	1.84	2.34	2.84	3.34	3.84	
2864	1432	949	1.22	18XL	1.146	22XL	1.401	1.28	.64	.42	....	....	1.99	2.49	2.99	3.49	
2800	1400	928	1.25	24XL	1.528	30XL	1.910	1.71	.86	.56	....	....	....	....	2.29	2.79	
2800	1400	928	1.25	16XL	1.019	20XL	1.273	1.15	.58	.38	....	1.69	2.19	2.69	3.19	3.69	
2800	1400	928	1.25	12XL	.764	15XL	.955	.86	.43	.28	1.6†	2.14†	2.64†	3.14†	3.64†	4.14†	
2750	1375	911	1.27	22XL	1.401	28XL	1.783	1.57	.79	.52	....	....	....	1.99	2.49	2.99	
2750	1375	911	1.27	11XL	.700	14XL	.891	.79 ◊	.39	.26	1.7†	2.24†	2.74†	3.24†	3.74†	4.24†	
2722	1361	902	1.29	28XL	1.783	36XL	2.292	1.98	1.00	.66	....	....	....	....	....	2.28	
2722	1361	902	1.29	14XL	.891	18XL	1.146	1.00	.50	.33	1.39	1.89	2.39	2.89	3.39	3.89	
2667	1333	884	1.31	16XL	1.019	21XL	1.337	1.15	.58	.38	....	1.64	2.14	2.64	3.14	3.64	
2625	1313	870	1.33	30XL	1.910	40XL	2.546	2.11	1.07	.71	....	....	....	....	....	....	
2625	1313	870	1.33	24XL	1.528	32XL	2.037	1.71	.86	.56	....	....	1.89	....	2.18	2.68	
2625	1313	870	1.33	21XL	1.337	28XL	1.783	1.49	.75	.50	....	....	....	2.03	2.54	3.04	
2625	1313	870	1.33	18XL	1.146	24XL	1.528	1.28	.64	.42	....	....	....	2.39	2.89	3.39	
2625	1313	870	1.33	15XL	.955	20XL	1.273	1.07	.53	.36	....	1.74	2.24	2.74	3.24	3.74	
2625	1313	870	1.33	12XL	.764	16XL	1.019	.86	.43	.28	1.59†	2.09†	2.59†	3.09†	3.59†	4.09†	
2567	1283	851	1.36	22XL	1.401	30XL	1.910	1.57	.79	.52	....	....	....	....	2.38	2.88	
2567	1283	851	1.36	11XL	.700	15XL	.955	.79 ◊	.38	.26	1.69†	2.19†	2.69†	3.19†	3.69†	4.19†	
2545	1273	844	1.38	16XL	1.019	22XL	1.401	1.15	.58	.38	....	1.58	2.09	2.59	3.09	3.59	
2500	1250	829	1.40	30XL	1.910	42XL	2.674	2.11	1.07	.71	....	1.68	....	....	....	....	
2500	1250	829	1.40	20XL	1.273	28XL	1.783	1.42	.72	.46	....	....	....	2.08	2.58	3.09	
2500	1250	829	1.40	15XL	.955	21XL	1.337	1.07	.53	.36	....	....	2.19	2.69	3.19	3.69	
2450	1225	812	1.43	28XL	1.783	40XL	2.546	1.98	1.00	.66	....	....	....	....	....	....	
2450	1225	812	1.43	21XL	1.337	30XL	1.910	1.49	.75	.50	....	....	....	1.92	2.43	2.93	
2450	1225	812	1.43	14XL	.891	20XL	1.273	1.00	.50	.33	....	1.79	2.29	2.79	3.29	3.79	
2406	1203	798	1.45	22XL	1.401	32XL	2.037	1.57	.79	.52	....	....	....	....	2.27	2.78	
2406	1203	798	1.45	11XL	.700	16XL	1.019	.79 ◊	.39	.26	1.64†	2.14†	2.64†	3.14†	3.64†	4.14†	

Δ HP ratings are for conventional speed-reduction drives.

† See Teeth in Mesh table on opposite page

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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# SELECTION



## XL Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts														
120XL	130XL	140XL	150XL	160XL	170XL	180XL	190XL	200XL	210XL	220XL	230XL	240XL	250XL	260XL
3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
3.20	3.70	4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20
3.60	4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60
3.80	4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80
3.90	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90
4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00
4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20	10.70	11.20
4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90	11.40
4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60	11.10	11.60
4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.60	9.30	9.80	10.30	10.80	11.30	11.80
4.90†	5.40†	5.90†	6.40†	6.90†	7.40†	7.90†	8.40†	8.90†	9.40†	9.90†	10.40†	10.90†	11.40†	11.90†
3.85	4.35	4.85	5.35	5.85	6.35	6.85	7.35	7.85	8.35	8.85	9.35	9.85	10.35	10.85
3.95	4.45	4.95	5.45	5.95	6.45	6.95	7.45	7.95	8.45	8.95	9.45	9.95	10.45	10.95
2.89	3.39	3.89	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.99	9.40	9.90
4.45	4.95	5.45	5.95	6.45	6.95	7.45	7.95	8.45	8.95	9.45	9.95	10.45	10.95	11.45
3.09	3.59	4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.80	10.10
4.55	5.05	5.55	6.05	6.55	7.05	7.55	8.05	8.55	9.05	9.55	10.05	10.55	11.05	11.55
3.69	4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20	10.70
4.85†	5.35†	5.85†	6.35†	6.85†	7.35†	7.85†	8.35†	8.85†	9.35†	9.85†	10.35†	10.85†	11.35†	11.85†
3.89	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90
4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60	11.10
4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80	11.30
2.99	3.49	3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99
3.74	4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.25	9.75	10.25	10.75
4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
3.39	3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39
4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.05	9.55	10.05	10.55	11.05
4.70†	5.20†	5.70†	6.20†	6.70†	7.20†	7.70†	8.20†	8.70†	9.20†	9.70†	10.20†	10.70†	11.20†	11.70†
2.69	3.19	3.69	4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69
3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79
4.34	4.84	5.34	5.84	6.34	6.84	7.34	7.84	8.34	8.84	9.35	9.85	10.35	10.85	11.35
3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49	10.99
3.29	3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.89	11.19
4.64†	5.14†	5.64†	6.14†	6.64†	7.14†	7.64†	8.14†	8.64†	9.15†	9.65†	10.15†	10.65†	11.15†	11.65†
3.49	3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49
4.74†	5.24†	5.74†	6.24†	6.74†	7.24†	7.74†	8.24†	8.74†	9.25†	9.75†	10.25†	10.75†	11.25†	11.75†
2.78	3.29	3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79
4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39	10.69	11.39
4.14	4.64	5.14	5.64	6.14	6.64	7.14	7.64	8.14	8.64	9.14	9.64	10.14	10.64	11.14
2.48	2.98	3.48	3.98	4.48	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49
3.19	3.69	4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19
3.54	4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.04	9.54	10.04	10.54
3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39	10.89
4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.24	9.74	10.24	10.74	11.24
4.59†	5.09†	5.59†	6.09†	6.59†	7.09†	7.59†	8.09†	8.59†	9.09†	9.59†	10.09†	10.59†	11.09†	11.59†
3.39	3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39
4.69†	5.19†	5.69†	6.19†	6.69†	7.19†	7.69†	8.19†	8.69†	9.19†	9.69†	10.19†	10.69†	11.19†	11.69†
4.09	4.59	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59	11.09
....	2.87	3.37	3.88	4.38	4.88	5.38	5.88	6.38	6.88	7.39	7.89	8.39	8.69	9.39
3.59	4.09	4.59	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	11.19
2.57	3.07	3.58	4.08	4.58	5.08	5.58	6.08	6.58	7.09	7.59	8.09	8.59	9.09	9.59
3.43	3.84	4.44	4.94	5.44	5.94	6.44	6.94	7.44	7.94	8.44	8.94	9.44	9.94	10.44
4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79	11.29
3.28	3.78	4.28	4.78	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29
4.64†	5.14†	5.64†	6.14†	6.64†	7.14†	7.64†	8.14†	8.64†	9.14†	9.64†	10.14†	10.64†	11.14†	11.64†

### XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

### Teeth in Mesh Factor (T.I.M.)

Table Symbol	No. of Teeth in Mesh in Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths

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# SELECTION

## XL Stock Drive Selections

	Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
	3500	1750	1160		Driver		Driven		3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL
					No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.									
V-Drives	2386	1193	791	1.47	15XL	1.901	44XL	2.801	2.11	1.07	.71	....	....	....	....	....	
	2386	1193	791	1.47	30XL	.955	22XL	1.401	1.07	.53	.36	....	1.63	2.13	2.64	3.14	3.64
	2334	1167	773	1.50	28XL	1.783	42XL	2.674	1.98	1.00	.66	....	....	....	....	....	
	2334	1167	773	1.50	24XL	1.528	36XL	2.292	1.71	.86	.56	....	....	....	....	2.47	
	2334	1167	773	1.50	20XL	1.273	30XL	1.910	1.42	.72	.46	....	....	....	1.97	2.48	2.98
FHP Drives	2334	1167	773	1.50	16XL	1.019	24XL	1.528	1.15	.58	.38	....	....	1.98	2.48	2.98	3.49
	2334	1167	773	1.50	14XL	.891	21XL	1.337	1.00	.50	.33	....	1.73	2.23	2.74	3.24	3.74
	2334	1167	773	1.50	12XL	.764	18XL	1.146	.86	.43	.28	1.48†	1.99†	2.49†	2.99†	3.49†	3.99†
	2297	1148	761	1.52	21XL	1.337	32XL	2.037	1.49	.75	.50	....	....	....	....	2.32	2.82
	2250	1125	746	1.56	18XL	1.146	28XL	1.783	1.28	.64	.42	....	....	....	2.17	2.68	3.18
	2227	1114	738	1.57	28XL	1.783	44XL	2.801	1.98	1.00	.66	....	....	....	....	....	....
	2227	1114	738	1.57	14XL	.891	22XL	1.401	1.00	.50	.33	....	1.68	2.18	2.68	3.19	3.69
	2188	1094	725	1.60	30XL	1.910	48XL	3.056	2.11	1.07	.71	....	....	....	....	....	....
	2188	1094	725	1.60	20XL	1.273	32XL	2.037	1.42	.72	.46	....	....	....	1.86	2.36	2.87
	2188	1094	725	1.60	15XL	.955	24XL	1.528	1.07	.53	.36	....	1.52	2.02	2.53	3.03	3.53
Drive Component Accessories	2139	1059	709	1.64	22XL	1.401	36XL	2.292	1.57	.79	.52	....	....	....	....	....	2.56
	2139	1069	709	1.64	11XL	.700	18XL	1.146	.79 ◊	.39	.26	1.53†	2.03†	2.54†	3.64†	3.54†	4.04†
	2100	1050	696	1.67	24XL	1.528	40XL	2.546	1.71	.86	.56	....	....	....	....	....	....
	2100	1050	696	1.67	18XL	1.146	30XL	1.910	1.28	.64	.42	....	....	....	2.06	2.57	3.07
	2100	1050	696	1.67	12XL	.764	20XL	1.273	.86	.43	.28	1.37†	1.88†	2.38†	2.88†	3.39†	3.89†
	2042	1021	677	1.71	28XL	1.783	48XL	3.056	1.98	1.00	.66	....	....	....	....	....	....
	2042	1021	677	1.71	21XL	1.337	36XL	2.292	1.49	.75	.50	....	....	....	....	2.09	2.60
	2042	1021	677	1.71	14XL	.891	24XL	1.528	1.00	.50	.33	....	1.56	2.07	2.58	3.08	3.58
	2000	1000	663	1.75	24XL	1.528	42XL	2.674	1.71	.86	.56	....	....	....	....	....	....
	2000	1000	683	1.75	16XL	1.019	28XL	1.783	1.15	.58	.38	....	....	1.75	2.26	2.77	3.27
DYNA-SYNC	2000	1000	663	1.75	12XL	.764	21XL	1.337	.86	.43	.28	1.31†	1.82†	2.33†	2.83†	3.33†	3.83†
	1969	984	653	1.78	18XL	1.146	32XL	2.037	1.28	.64	.42	....	....	....	1.94	2.46	2.96
	1944	972	644	1.80	20XL	1.273	36XL	2.292	1.42	.72	.46	....	....	....	....	2.13	2.65
	1925	963	637	1.82	22XL	1.401	40XL	2.546	1.57	.79	.52	....	....	....	....	....	2.32
	1925	963	637	1.82	11XL	.700	20XL	1.273	.79 ◊	.39	.26	1.42†	1.92†	2.43†	2.93†	3.43†	3.94†
	1909	955	633	1.83	24XL	1.528	44XL	2.801	1.71	.86	.56	....	....	....	....	....	....
	1909	955	633	1.83	12XL	.764	22XL	1.401	.86	.43	.28	....	1.77†	2.27†	2.78†	3.28†	3.78†
	1875	937	621	1.87	15XL	.955	28XL	1.783	1.07	.53	.36	....	....	1.80	2.31	2.82	3.32
	1867	933	619	1.88	16XL	1.019	30XL	1.910	1.15	.58	.38	....	....	....	2.15	2.66	3.16
	1838	919	609	1.90	21XL	1.337	40XL	2.546	1.49	.75	.50	....	....	....	....	....	2.37
HT200/HTD Synchronous Drives	1833	917	607	1.91	22XL	1.401	42XL	2.674	1.57	.79	.52	....	....	....	....	....	....
	1833	917	607	1.91	11XL	.700	21XL	1.337	.79 ◊	.39	.26	1.36†	1.87†	2.37†	2.88†	3.38†	3.88†
	1750	875	580	2.00	30XL	1.910	60XL	3.820	2.11	1.07	.71	....	....	....	....	....	....
	1750	875	580	2.00	24XL	1.528	48XL	3.056	1.71	.86	.56	....	....	....	....	....	....
	1750	875	580	2.00	22XL	1.401	44XL	2.801	1.57	.79	.52	....	....	....	....	....	....
	1750	875	580	2.00	21XL	1.337	42XL	2.674	1.49	.75	.50	....	....	....	....	....	2.25
	1750	875	580	2.00	20XL	1.273	40XL	2.546	1.42	.72	.46	....	....	....	....	....	2.41
	1750	875	580	2.00	18XL	1.146	36XL	2.292	1.28	.64	.42	....	....	....	....	2.22	2.74
	1750	875	580	2.00	16XL	1.019	32XL	2.037	1.15	.58	.38	....	....	....	2.03	2.54	3.05
	1750	875	580	2.00	15XL	.955	30XL	1.910	1.07	.53	.36	....	....	1.68	2.19	2.70	3.21
	1750	875	580	2.00	14XL	.891	28XL	1.783	1.00	.50	.33	....	....	1.84†	2.35	2.86	3.37
	1750	875	580	2.00	12XL	.764	24XL	1.528	.86	.43	.28	....	1.65†	2.16†	2.67†	3.17†	3.68†
	1750	875	580	2.00	11XL	.700	22XL	1.401	.79 ◊	.39	.26	1.30†	1.81†	2.32†	2.82†	3.33†	3.83†
	1670	835	554	2.10	21XL	1.337	44XL	2.801	1.49	.75	.50	....	....	....	....	....	....
	1666	833	552	2.10	20XL	1.273	42XL	2.674	1.42	.72	.46	....	....	....	....	....	2.29
HTR Synchronous Drives	1641	820	544	2.13	15XL	.955	32XL	2.037	1.07	.53	.36	....	....	....	2.07	2.59	3.10
	1833	817	542	2.14	28XL	1.783	60XL	3.820	1.98	1.00	.66	....	....	....	....	....	....
	1833	817	542	2.14	14XL	.891	30XL	1.910	1.08	.50	.33	....	....	1.72†	2.24†	2.75	3.26
	1604	802	532	2.18	22XL	1.401	48XL	3.056	1.57	.79	.52	....	....	....	....	....	....
	1604	802	532	2.18	11XL	.700	24XL	1.528	.79 ◊	.39	.26	....	1.69†	2.21†	2.71†	3.22†	3.72†
	1591	795	527	2.20	20XL	1.273	44XL	2.801	1.42	.72	.46	....	....	....	....	....	....
	1575	788	523	2.22	18XL	1.146	40XL	2.546	1.28	.64	.42	....	....	....	....	....	2.50
	1556	778	516	2.25	16XL	1.019	36XL	2.292	1.15	.58	.38	....	....	....	....	2.31	2.82

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† † See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

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# SELECTION



## XL Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

120XL	130XL	140XL	150XL	160XL	170XL	180XL	190XL	200XL	210XL	220XL	230XL	240XL	250XL	260XL
.....	2.76	3.27	3.77	4.27	4.77	5.28	5.78	6.28	6.78	7.28	7.78	8.28	8.78	9.28
4.14	4.64	5.14	5.64	6.14	6.64	7.14	7.64	8.14	8.64	9.14	9.64	10.14	10.64	11.14
2.46	2.96	3.47	3.97	4.47	4.98	5.48	5.98	6.48	6.98	7.48	7.98	8.48	8.98	9.49
2.97	3.47	3.98	4.48	4.98	5.48	5.98	6.48	6.99	7.49	7.99	8.49	8.99	9.49	9.99
3.48	3.98	4.48	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49
3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49	10.99
4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.24	9.74	10.24	10.74	11.24
4.49†	4.99†	5.49†	5.99†	6.49†	6.99†	7.49†	7.99†	8.49†	8.99†	9.49†	9.99†	10.49†	10.99†	11.49†
3.33	3.83	4.33	4.83	5.33	5.84	6.34	6.84	7.34	7.84	8.34	8.84	9.34	9.84	10.34
3.68	4.18	4.68	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69
.....	2.85	3.36	3.86	4.37	4.87	5.37	5.87	6.38	6.88	7.38	7.88	8.38	8.88	9.38
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	11.19
.....	.....	3.04	3.55	4.06	4.56	5.06	5.57	6.07	6.57	7.07	7.57	8.08	8.58	9.08
3.37	3.88	4.38	4.88	5.38	5.88	6.38	6.88	7.39	7.89	8.39	8.89	9.39	9.89	10.39♥
4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.04	9.54	10.04	10.54	11.04
3.06	3.57	4.07	4.57	5.08	5.58	6.08	6.58	7.08	7.58	8.08	8.58	9.08	9.59	10.09
4.54†	5.04†	5.54†	6.04†	6.54†	7.04†	7.54†	8.04†	8.54†	9.04†	9.54†	10.04†	10.54†	11.04†	11.54†
2.75	3.26	3.76	4.27	4.77	5.27	5.77	6.27	6.78	7.28	7.78	8.28	8.78	9.28	9.78
3.58	4.08	4.58	5.08	5.58	6.08	6.58	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59
4.39†	4.89†	5.39†	5.89†	6.39†	6.89†	7.39†	7.89†	8.39†	8.89†	9.39†	9.89†	10.39†	10.89†	11.39†
.....	.....	3.13	3.64	4.15	4.65	5.16	5.66	6.16	6.67	7.17	7.67	8.17	8.67	9.17
3.11	3.61	4.12	4.62	5.12	5.63	6.13	6.63	7.13	7.63	8.13	8.63	9.13	9.63	10.13
4.08	4.58	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59	11.09
2.63	3.14	3.65	4.16	4.66	5.17	5.67	6.17	6.67	7.17	7.67	8.18	8.68	9.18	9.68
3.78	4.28	4.78	5.28	5.78	6.28	6.78	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79
4.34†	4.84†	5.34†	5.84†	6.34†	6.84†	7.34†	7.84†	8.34†	8.84†	9.34†	9.84†	10.34†	10.84†	11.34†
3.47	3.97	4.47	4.98	5.48	5.98	6.48	6.98	7.48	7.98	8.48	8.98	9.49♥	9.99♥	10.49♥
3.15	3.66	4.16	4.67	5.17	5.67	6.18	6.68	7.18	7.68	8.18	8.68	9.18	9.68	10.18
2.84	3.35	3.85	4.36	4.86	5.36	5.87	6.37	6.87	7.37	7.87	8.38	8.88	9.38	9.88
4.44†	4.94†	5.44†	5.94†	6.44†	6.94†	7.44†	7.94†	8.44†	8.94†	9.44†	9.94†	10.44†	10.94†	11.44†
2.51	3.03	3.54	4.05	4.55	5.06	5.56	6.06	6.56	7.07	7.57	8.07	8.57	9.07	9.57
4.28†	4.78†	5.29†	5.79†	6.29†	6.79†	7.29†	7.79†	8.29†	8.79†	9.29†	9.79†	10.29†	10.79†	11.29†
3.82	4.33	4.83	5.33	5.83	6.33	6.83	7.33	7.83	8.34	8.84	9.34	9.84	10.34	10.84
3.67	4.17	4.67	5.18	5.68	6.18	6.68	7.18	7.68	8.18	8.68	9.18	9.69	10.19	10.69
2.88	3.39	3.90	4.40	4.91	5.41	5.91	6.42	6.92	7.42	7.92	8.42	8.93	9.43	9.93
2.72	3.23	3.74	4.25	4.75	5.26	5.76	6.26	6.77	7.27	7.77	8.27	8.77	9.27	9.77
4.38†	4.89†	5.39†	5.89†	6.39†	6.89†	7.39†	7.89†	8.39†	8.89†	9.39†	9.89†	10.39†	10.89†	11.39†
.....	.....	.....	.....	3.36	3.88	4.39	4.90	5.41	5.92	6.42	6.93	7.43	7.94	8.44
.....	2.79	3.31	3.82	4.33	4.84	5.34	5.85	6.35	6.85	7.36	7.86	8.38	8.86	9.36
2.60	3.12	3.63	4.14	4.64	5.15	5.65	6.16	6.66	7.16	7.66	8.17	8.67	9.17	9.67
2.76	3.28	3.79	4.29	4.80	5.30	5.81	6.31	6.81	7.31	7.82	8.32	8.82	9.32	9.82
2.93	3.44	3.94	4.45	4.95	5.46	5.96	6.46	6.97	7.47	7.97	8.47	8.97	9.47	9.98
3.24	3.75	4.26	4.76	5.26	5.77	6.27	6.77	7.27	7.77	8.28	8.78	9.28♥	9.78♥	10.28♥
3.56	4.06	4.57	5.07	5.57	6.07	6.58	7.08	7.58	8.08	8.58♥	9.08♥	9.58♥	10.08♥	10.58♥
3.71	4.22	4.72	5.22	5.73	6.23	6.73	7.23	7.73	8.23	8.73	9.23	9.73	10.23	10.73
3.87	4.37	4.88	5.38	5.88	6.38	6.88	7.38	7.88	8.38	8.88	9.38	9.89	10.39	10.89
4.18†	4.68†	5.18†	5.68†	6.18†	6.68†	7.19†	7.69†	8.19†	8.69†	9.19†	9.69†	10.19†	10.69†	11.19†
4.33†	4.83†	5.33†	5.84†	6.34†	6.84†	7.34†	7.84†	8.34†	8.84†	9.34†	9.84†	10.34†	10.84†	11.34†
2.64	3.16	3.67	4.18	4.69	5.19	5.70	6.20	6.71	7.21	7.71	8.21	8.71	9.22	9.72
2.81	3.32	3.83	4.34	4.84	5.35	5.85	6.36	6.86	7.36	7.86	8.37	8.87	9.37	9.87
3.60	4.11	4.61	5.12	5.62	6.12	6.62	7.12	7.63	8.13♥	8.63♥	9.13♥	9.63♥	10.13♥	10.63♥
.....	.....	.....	.....	3.44	3.96	4.48	4.99	5.50	6.01	6.52	7.02	7.53	8.03	8.53
3.76	4.27	4.77	5.27	5.77	6.27	6.78	7.28	7.78	8.28	8.78	9.28	9.78	10.28	10.78
.....	2.88	3.39	3.91	4.42	4.93	5.43	5.94	6.44	6.95	7.45	7.95	8.45	8.96	9.46
4.23†	4.73†	5.23†	5.73†	6.23†	6.73†	7.23†	7.73†	8.24†	8.74†	9.24†	9.74†	10.24†	10.74†	11.24†
2.69	3.20	3.72	4.23	4.73	5.24	5.74	6.25	6.75	7.26	7.76	8.26	8.76	9.26	9.77
3.01	3.53	4.03	4.54	5.05	5.55	6.05	6.56	7.06	7.56	8.07	8.57	9.07	9.57♥	10.07♥
3.33	3.84	4.35	4.85	5.36	5.86	6.36	6.87	7.37	7.87	8.37♥	8.87♥	9.37♥	9.87♥	10.38♥

### XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

### Teeth in Mesh Factor (T.I.M)

Table Symbol	No. of Teeth in Mesh in Small Pulley	Factor
None	6 or More	1.00
†	5	.80
‡	4	.60

Shaded area indicates stock belt widths

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# SELECTION

## XL Stock Drive Selections

Driven Speeds for Motor Speeds of	Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts							
		Driver		Driven		3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL		
		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.											
3500	1750	1160														
1531	766	508	2.29	21XL	1.337	48XL	3.056	1.49	.75	.50	...	...	...	...	...	
1531	766	508	2.29	14XL	.891	32XL	2.037	1.00	.50	.33	...	...	...	2.12†	2.63†	3.14†
1500	750	498	2.33	18XL	1.146	42XL	2.674	1.28	.64	.42	...	...	...	...	...	2.37†
1500	750	498	2.33	12XL	.764	28XL	1.783	.86	.43	.28	...	...	1.93‡	2.44†	2.95†	3.46†
1458	729	483	2.40	30XL	1.910	72XL	4.584	2.11	1.07	.71	...	...	...	...	...	...
1458	729	483	2.40	20XL	1.273	48XL	3.056	1.42	.72	.46	...	...	...	...	...	...
1458	729	483	2.40	15XL	.955	36XL	2.292	1.07	.53	.36	...	...	...	...	2.35†	2.87†
1432	716	475	2.44	18XL	1.146	44XL	2.801	1.28	.64	.42	...	...	...	...	...	2.24†
1400	700	464	2.50	24XL	1.528	60XL	3.820	1.71	.86	.56	...	...	...	...	...	...
1400	700	464	2.50	16XL	1.019	40XL	2.546	1.15	.58	.38	...	...	...	...	2.05†	2.58†
1400	700	464	2.50	12XL	.764	30XL	1.910	.86	.43	.28	...	...	1.80‡	2.32‡	...	3.35†
1375	688	456	2.55	11XL	.700	28XL	1.783	.79 ◊	.39	.26	...	...	1.97‡	2.49‡	2.84†	3.50†
1361	681	451	2.57	28XL	1.783	72XL	4.584	1.98	1.00	.66	...	...	...	1.86‡	3.00‡	2.91†
1361	681	451	2.57	14XL	.891	36XL	2.292	1.00	.50	.33	...	...	...	...	2.39†	2.45†
1333	666	442	2.63	16XL	1.019	42XL	2.674	1.15	.58	.38	...	...	...	...	...	...
1312	656	435	2.67	18XL	1.146	48XL	3.056	1.28	.64	.42	...	...	...	...	...	...
1312	656	435	2.67	15XL	.955	40XL	2.546	1.07	.53	.36	...	...	...	...	2.09†	2.62†
1312	656	435	2.67	12XL	.764	32XL	2.037	.86	.43	.28	...	...	1.67‡	2.20‡	2.72†	3.23†
1283	642	425	2.73	22XL	1.401	60XL	3.820	1.57	.79	.52	...	...	...	...	...	...
1283	642	425	2.73	11XL	.700	30XL	1.910	.79 ◊	.39	.26	...	...	1.85‡	2.37‡	2.88‡	3.39‡
1273	638	422	2.75	16XL	1.019	44XL	2.801	1.15	.58	.38	...	...	...	...	...	2.32†
1250	625	414	2.80	15XL	.955	42XL	2.674	1.07	.53	.36	...	...	...	...	...	2.50†
1225	613	406	2.86	21XL	1.337	60XL	3.820	1.49	.75	.50	...	...	...	...	...	...
1225	613	406	2.86	14XL	.891	40XL	2.546	1.00	.50	.33	...	...	...	...	2.13†	2.67†
1203	601	399	2.91	11XL	.700	32XL	2.037	.79 ◊	.39	.26	...	...	1.71§	2.25‡	2.78‡	3.28‡
1193	597	396	2.93	15XL	.955	44XL	2.801	1.07	.53	.36	...	...	...	...	...	2.36†
1167	583	387	3.00	24XL	1.528	72XL	4.584	1.71	.86	.56	...	...	...	...	...	...
1167	583	387	3.00	20XL	1.273	60XL	3.820	1.42	.72	.46	...	...	...	...	...	...
1167	583	387	3.00	16XL	1.019	48XL	3.056	1.15	.58	.38	...	...	...	...	...	...
1167	583	387	3.00	14XL	.891	42XL	2.874	1.00	.50	.33	...	...	...	...	1.99‡	2.54†
1167	583	387	3.00	12XL	.764	36XL	2.292	.86	.43	.28	...	...	...	1.94‡	2.48‡	3.00‡
1114	557	370	3.14	14XL	.891	44XL	2.801	1.00	.50	.33	...	...	...	...	...	2.40‡
1094	547	363	3.20	15XL	.955	48XL	3.056	1.07	.53	.36	...	...	...	...	...	...
1089	535	355	3.27	22XL	1.401	72XL	4.584	1.57	.79	.52	...	...	...	...	...	...
1089	535	355	3.27	11XL	.700	36XL	2.292	.79 ◊	.39	.26	...	...	...	1.98§	2.52‡	3.04‡
1050	525	348	3.33	18XL	1.146	60XL	3.820	1.28	.64	.42	...	...	...	...	...	...
1050	525	348	3.33	12XL	.764	40XL	2.546	.86	.43	.28	...	...	...	...	2.21‡	2.75‡
1021	510	338	3.43	21XL	1.337	72XL	4.584	1.49	.75	.50	...	...	...	...	...	...
1021	510	338	3.43	14XL	.891	48XL	3.056	1.00	.50	.33	...	...	...	...	...	...
1000	500	331	3.50	12XL	.764	42XL	2.874	.86	.43	.28	...	...	...	...	2.07‡	2.82‡
972	486	322	3.60	20XL	1.273	72XL	4.584	1.42	.72	.46	...	...	...	...	...	...
963	481	319	3.64	11XL	.700	40XL	2.546	.79 ◊	.39	.26	...	...	...	...	2.25§	2.79‡
955	477	316	3.67	12XL	.784	44XL	2.801	.86	.43	.28	...	...	...	...	...	2.48‡
933	467	309	3.75	16XL	1.019	60XL	3.820	1.15	.58	.38	...	...	...	...	...	...
917	458	304	3.82	11XL	.700	42XL	2.674	.79	.39	.26	...	...	...	...	2.11§	2.66‡
875	438	290	4.00	18XL	1.146	72XL	4.584	1.28	.64	.42	...	...	...	...	...	...
875	438	290	4.00	15XL	.955	60XL	3.820	1.07	.53	.36	...	...	...	...	...	...
875	438	290	4.00	12XL	.764	48XL	3.056	.86	.43	.28	...	...	...	...	...	2.19§
875	438	290	4.00	11XL	.700	44XL	2.801	.79 ◊	.39	.26	...	...	...	...	1.96§	2.52§
817	408	270	4.29	14XL	.891	60XL	3.820	1.00	.50	.33	...	...	...	...	...	...
802	401	266	4.36	11XL	.700	48XL	3.056	.79 ◊	.39	.26	...	...	...	...	...	2.23§
778	389	258	4.50	16XL	1.019	72XL	4.584	1.15	.58	.38	...	...	...	...	...	...
730	365	242	4.80	15XL	.955	72XL	4.584	1.07	.53	.36	...	...	...	...	...	...
700	350	232	5.00	12XL	.764	60XL	3.820	.86	.43	.28	...	...	...	...	...	...
681	340	226	5.14	14XL	.891	72XL	4.584	1.00	.50	.33	...	...	...	...	...	...
642	321	213	5.45	11XL	.700	60XL	3.820	.79 ◊	.39	.26	...	...	...	...	...	...
584	292	193	6.00	12XL	.764	72XL	4.584	.86	.43	.28	...	...	...	...	...	...
535	267	177	6.55	11XL	.700	72XL	4.584	.79 ◊	.39	.26	...	...	...	...	...	...

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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# SELECTION

## L Stock Drive Selections

	Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
					Driver		Driven										
	3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	124L	150L	187L	210L	225L	240L
	3500	1750	1160	1.00	48L	5.730	48L	5.730	6.27	4.06	2.81	....	....	....	....	....	....
	3500	1750	1160	1.00	40L	4.775	40L	4.775	5.87	3.47	2.36	....	....	....	....	....	....
	3500	1750	1160	1.00	32L	3.820	32L	3.820	5.10	2.83	1.91	....	....	....	4.51	5.26	6.01
	3500	1750	1160	1.00	30L	3.581	30L	3.581	4.86	2.66	1.79	....	....	....	4.88	5.63	6.38
	3500	1750	1160	1.00	28L	3.342	28L	3.342	4.71	2.49	1.67	....	....	4.13	5.26	6.01	6.76
	3500	1750	1160	1.00	26L	3.104	26L	3.104	4.35	2.32	1.56	....	....	4.51	5.83	6.38	7.13
	3500	1750	1160	1.00	24L	2.865	24L	2.865	4.06	2.15	1.44	....	....	4.88	6.01	6.76	7.51
	3500	1750	1160	1.00	22L	2.626	22L	2.626	3.77	1.98	1.32	....	3.38	5.26	6.39	7.13	7.89
	3500	1750	1160	1.00	20L	2.387	20L	2.387	3.46	1.80	1.20	....	3.76	5.63	6.76	7.51	8.26
	3500	1750	1160	1.00	18L	2.149	18L	2.149	3.15	1.62	1.08	2.82	4.13	6.01	7.14	7.89	8.64
	3500	1750	1160	1.00	16L	1.910	16L	1.910	2.83	1.45	.97	3.20	4.51	6.39	7.51	8.26	9.01
	3500	1750	1160	1.00	14L	1.671	14L	1.671	2.49◇	1.27	.85	3.57	4.89	6.76	7.89	8.64	9.39
	....	1750	1160	1.00	12L	1.432	12L	1.432	....	1.09◇	.72	3.95	5.26	7.14	8.26	9.01	9.76
	....	1750	1160	1.00	10L	1.194	10L	1.194	....	.91◇	.60◇	4.32†	5.64†	7.51◇	8.64†	9.39†	10.14†
	3281	1641	1087	1.07	30L	3.581	32L	3.820	4.86	2.66	1.79	....	....	....	4.69	5.44	6.19
	3267	1633	1083	1.07	28L	3.342	30L	3.581	4.61	2.49	1.67	....	....	3.94	5.07	5.82	6.57
	3250	1625	1077	1.08	26L	3.104	28L	3.342	4.35	2.32	1.56	....	....	4.32	5.44	6.19	6.95
	3231	1615	1071	1.08	24L	2.865	26L	3.104	4.06	2.15	1.44	....	....	4.69	5.82	6.57	7.32
	3208	1604	1063	1.09	22L	2.626	24L	2.865	3.77	1.98	1.32	....	....	5.07	6.20	6.95	7.70
	3182	1591	1055	1.10	20L	2.387	22L	2.626	3.46	1.80	1.20	....	3.57	5.45	6.57	7.32	8.07
	3150	1575	1044	1.11	18L	2.149	20L	2.387	3.15	1.62	1.08	....	3.94	5.82	6.95	7.70	8.45
	3111	1556	1031	1.13	16L	1.910	18L	2.149	2.83	1.45	.97	....	4.32	6.20	7.32	8.07	8.82
	3063	1531	1015	1.14	28L	3.342	32L	3.820	4.61	2.49	1.67	....	....	....	4.88	5.63	6.38
	3036	1531	1015	1.14	14L	1.671	16L	1.910	2.49◇	1.27	.85	3.38	4.70	6.57	7.70	8.45	9.20
	3033	1517	1005	1.15	26L	3.104	30L	3.581	4.35	2.32	1.56	....	....	4.12	5.25	6.00	6.75
	3000	1500	994	1.17	24L	2.865	28L	3.342	4.06	2.15	1.44	....	....	4.50	5.63	6.38	7.13
	....	1500	994	1.17	12L	1.432	14L	1.671	....	1.09◇	.72	3.76†	5.07†	6.95†	8.07†	8.83†	9.57◇
	2962	1481	982	1.18	22L	2.626	26L	3.104	3.77	1.62	1.32	....	....	4.88	6.00	6.76	7.51
	2917	1458	967	1.20	40L	4.775	48L	5.730	5.87	3.47	2.36	....	....	....	....	....	....
	2917	1458	967	1.20	20L	2.387	24L	2.865	3.46	1.80	1.20	....	3.37	5.25	6.38	7.13	7.88
	....	1458	967	1.20	10L	1.194	12L	1.432	....	.91◇	.60◇	4.13‡	5.45‡	7.32‡	8.45‡	9.20‡	9.95‡
	2864	1432	949	1.22	18L	2.149	22L	2.626	3.15	1.62	1.08	....	3.75	5.63	6.76	7.51	8.26
	2844	1422	943	1.23	26L	3.104	32L	3.820	4.35	2.32	1.56	....	....	....	5.06	5.81	6.56
	2800	1400	928	1.25	48L	5.730	60L	7.162	6.27	4.06	2.81	....	....	....	....	....	....
	2800	1400	928	1.25	32L	3.820	40L	4.775	5.10	2.83	1.91	....	....	....	....	....	5.29
	2800	1400	928	1.25	24L	2.865	30L	3.581	4.06	2.15	1.44	....	....	4.31	5.43	6.19	6.94
	2800	1400	928	1.25	16L	1.910	20L	2.387	2.83	1.45	.97	2.81	4.13	6.01	7.13	7.88	8.63
	2750	1375	911	1.27	22L	2.626	28L	3.342	3.77	1.98	1.32	....	....	....	5.81	6.56	7.31
	2722	1361	902	1.29	14L	1.671	18L	2.149	2.49◇	1.27	.85	3.19	4.50	6.38	7.51	8.26	9.01
	2692	1346	892	1.30	20L	2.387	26L	3.104	3.46	1.80	1.20	....	....	5.06	6.19	6.94	7.69
	2625	1313	870	1.33	30L	3.581	40L	4.775	4.86	2.66	1.79	....	....	....	....	4.66	5.41
	2625	1313	870	1.33	24L	2.865	32L	3.820	4.06	2.15	1.44	....	....	4.10	5.24	5.99	6.74
	2625	1313	870	1.33	18L	2.149	24L	2.865	3.15	1.62	1.08	3.56†	3.55	5.44	6.56	7.31	8.06
	....	1313	870	1.33	12L	1.432	16L	1.910	....	1.09◇	.72	....	4.88†	6.76†	7.88†	8.63†	9.38†
	2567	1283	851	1.36	22L	2.626	30L	3.581	3.77	1.98	1.32	....	....	4.48	5.61	6.37	7.12
	2545	1273	844	1.38	16L	1.910	22L	2.626	2.83	1.45	.97	2.61	3.93	5.81	6.94	7.69	8.44
	2500	1250	829	1.40	20L	2.387	28L	3.342	3.46	1.80	1.20	....	....	4.86	5.99	6.74	7.49
	....	1250	829	1.40	10L	1.194	14L	1.671	....	.91◇	.60◇	3.94‡	5.26‡	7.13‡	8.26‡	9.01‡	9.76‡
	2450	1225	812	1.43	28L	3.342	40L	4.775	4.61	2.49	1.67	....	....	....	....	4.83	5.59
	2450	1225	812	1.43	14L	1.671	20L	2.387	2.49◇	1.27	.85	2.99	4.31	6.19	7.32	8.07	8.82

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives



## L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
....	....	....	....	7.13	8.26	9.38	10.51	12.01	13.51	15.01	16.51	18.01	21.01
5.26	6.01	6.76	7.51	8.63	9.76	10.88	12.01	13.51	15.01	16.51	18.01	19.51	22.51
6.76	7.51	8.26	9.01	10.14	11.26	12.39	13.51	15.01	16.51	18.01	19.51	21.01	24.01
7.13	7.88	8.63	9.39	10.51	11.64	12.76	13.89	15.39	16.89	18.39	19.89	21.39	24.39
7.51	8.26	9.01	9.76	10.89	12.01	13.14	14.26	15.76	17.26	18.76	20.26	21.76	24.76
7.88	8.63	9.39	10.14	11.26	12.39	13.51	14.64	16.14	17.64	19.14	20.64	22.14	25.14
8.26	9.01	9.76	10.51	11.64	12.76	13.89	15.01	16.51	18.01	19.51	21.01	22.51	25.50
8.64	9.39	10.14	10.89	12.01	13.14	14.26	15.39	16.89	18.39	19.89	21.39	22.89	25.89
9.01	9.76	10.51	11.26	12.39	13.51	14.64	15.76	17.26	18.76	20.26	21.76	23.26	26.26
9.39	10.14	10.89	11.64	12.76	13.89	15.01	16.14	17.64	19.14	20.64	22.14	23.64	26.64
9.76	10.51	11.26	12.01	13.14	14.26	15.39	16.51	18.01	19.51	21.01	22.51	24.01	27.01
10.14	10.89	11.64	12.39	13.51	14.64	15.76	16.89	19.89	19.89	21.39	22.89	24.39	27.39
10.51	11.26	12.01	12.76	13.89	15.01	16.14	17.26	18.40	20.26	21.76	23.26	24.76	27.76
10.89†	11.64†	12.39†	13.14†	14.26†	15.39†	16.51†	17.64†	19.14†	20.64†	22.14†	23.64†	25.14†	28.14†
6.94	7.69	8.45	9.20	10.32	11.47	12.57	13.70	15.20	16.70	18.20	19.70	21.20	24.20
7.32	8.07	8.82	9.57	10.70	11.82	12.95	14.07	15.57	17.07	18.57	20.07	21.57	24.57
7.70	8.45	9.20	9.95	11.07	12.20	13.32	14.45	15.95	17.45	18.95	20.45	21.95	24.95
8.07	8.82	9.57	10.32	11.45	12.57	13.70	14.82	16.33	17.82	19.32	20.82	22.33	25.33
8.45	9.20	9.95	10.70	11.82	12.95	14.07	15.20	16.70	18.20	19.70	21.20	22.70	25.70
8.82	9.57	10.32	11.07	12.20	13.33	14.45	15.58	17.07	18.57	20.08	21.58	23.08	26.08
9.20	9.95	10.70	11.45	12.57	13.70	14.82	15.95	17.45	18.95	20.45	21.95	23.45	26.45
9.57	10.32	11.07	11.83	12.95	14.07	15.20	16.33	17.83	19.32	20.82	22.33	23.83	26.83
7.13	7.88	8.63	9.38	10.51	11.63	12.76	13.88	15.38	16.89	18.39	19.89	21.39	24.39
9.95	10.70	11.45	12.20	13.33	14.45	15.58	16.70	18.20	19.70	21.20	22.70	24.20	27.20
7.51	8.26	9.01	9.76	10.88	12.01	13.14	14.26	15.76	17.26	18.76	20.26	21.76	24.76
7.88	8.63	9.38	10.13	11.26	12.38	13.51	14.64	16.13	17.64	19.13	20.64	22.14	25.14
10.32†	11.07†	11.83†	12.58†	13.70†	14.83†	15.95†	17.08†	18.57†	20.08†	21.58†	23.08†	24.58†	27.58
8.26	9.01	9.76	10.51	11.63	12.76	13.88	15.01	16.51	18.01	19.51	21.01	22.51	25.51
....	....	5.99	6.74	7.87	9.00	10.12	11.25	12.75	14.25	15.75	17.25	18.76	21.76
8.63	9.38	10.13	10.88	12.01	13.13	14.26	15.38	16.89	18.39	19.89	21.39	22.89	25.89
10.70‡	11.45‡	12.20‡	12.95‡	14.08‡	15.20‡	16.33‡	17.45‡	18.95‡	20.45‡	21.95‡	23.45‡	24.95‡	27.95‡
9.01	9.76	10.51	11.26	12.39	13.51	14.64	15.76	17.26	18.76	20.26	21.76	23.36	26.26
7.31	8.06	8.81	9.57	10.69	11.82	12.94	14.11	15.57	17.07	18.57	20.07	21.57	24.57
....	....	....	....	....	7.45	8.58	9.36	10.86	12.36	13.87	15.37	16.87	19.87
5.99	6.74	7.49	8.25	9.37	10.50	11.62	12.75	14.25	15.75	17.26	18.76	20.26	23.26
7.69	8.44	9.19	9.04	11.07	12.19	13.32	14.44	15.94	17.45	18.95	20.45	21.95	24.95
9.38	10.13	10.88	11.64	12.76	13.89	15.01	16.13	17.64	19.14	20.64	22.14	23.64	26.64
8.06	8.81	9.57	10.32	11.44	12.57	13.69	14.82	16.32	17.82	19.32	20.82	22.32	25.32
9.76	10.51	11.26	12.01	13.14	14.26	15.39	16.51	18.01	19.51	21.01	22.51	24.01	27.01
8.44	9.19	9.94	10.69	11.82	12.94	14.11	15.20	16.70	18.20	19.70	21.20	22.70	25.70
6.17	6.92	7.67	8.43	9.55	10.68	11.81	12.93	14.44	15.94	17.44	18.94	20.44	23.44
7.49	8.25	9.00	9.75	10.88	12.00	13.13	14.25	15.75	17.26	18.76	20.26	21.76	24.76
8.82	9.57	10.32	11.07	12.19	13.32	14.45	15.57	17.07	18.57	20.07	21.57	23.07	26.07
10.13†	10.88†	11.64†	12.39†	13.51†	14.64†	15.76†	16.89†	18.39†	19.89†	21.39†	22.89†	24.39†	27.39†
7.87	8.62	9.37	10.13	11.25	12.38	13.50	14.63	16.13	17.63	19.13	20.63	22.13	25.13
9.19	9.94	10.69	11.44	12.57	13.70	14.82	15.95	17.45	18.95	20.45	21.95	23.45	26.45
8.25	9.00	9.75	10.50	11.63	12.75	13.88	15.00	16.51	18.01	19.51	21.01	22.51	25.51
10.51‡	11.26‡	12.01‡	12.76‡	13.89‡	15.01‡	16.14‡	17.26‡	18.76‡	20.26‡	21.77‡	23.36‡	24.76‡	27.76‡
6.34	7.10	7.85	8.60	9.73	10.86	11.99	13.12	14.62	16.12	17.62	19.12	20.63	23.63
9.57	10.32	11.07	11.82	12.95	14.11	15.20	16.32	17.82	19.32	20.82	22.32	23.82	26.82

### L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

### Teeth in Mesh Factor (T.I.M)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	.60

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# SELECTION

## L Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	124L	150L	187L	210L	225L	240L
2423	1212	803	1.44	18L	2.149	26L	3.104	3.15	1.62	1.08	....	....	5.24	6.37	7.12	7.87
2406	1203	798	1.45	22L	2.626	32L	3.820	3.77	1.98	1.32	....	....	4.28	5.41	6.17	6.92
2333	1167	733	1.50	48L	5.730	72L	8.594	6.27	4.06	2.81	....	....	....	....	....	....
2333	1167	733	1.50	40L	4.775	60L	7.162	5.87	3.47	2.36	....	....	....	....	....	....
2333	1167	733	1.50	32L	3.820	48L	5.730	5.10	2.83	1.91	....	....	....	....	....	....
2333	1167	733	1.50	20L	2.387	30L	3.581	3.46	1.80	1.20	....	....	4.66	5.79	6.54	7.30
2333	1167	733	1.50	16L	1.910	24L	2.865	2.83	1.45	.97	....	3.73	5.61	6.74	7.50	8.25
....	1167	733	1.50	12L	1.432	18L	2.149	....	1.09◇	.72	3.36†	4.68†	6.56†	7.69†	8.44†	9.19†
2275	1138	754	1.54	26L	3.104	40L	4.775	4.35	2.32	1.56	....	....	....	4.24	5.00	5.76
2250	1125	746	1.56	18L	2.149	28L	3.342	3.15	1.62	1.08	....	....	5.04	6.07	6.92	7.67
2227	1114	738	1.57	14L	1.671	22L	2.626	2.49◇	1.27	.85	2.78	4.11	5.99	7.12	7.87	8.62
2188	1094	725	1.60	30L	3.581	48L	5.730	4.86	2.66	1.79	....	....	....	....	....	....
2188	1094	725	1.60	20L	2.387	32L	3.820	3.46	1.80	1.20	....	....	4.45	5.59	6.34	7.10
....	1094	725	1.60	10L	1.194	16L	1.910	....	.91◇	.60◇	3.74†	5.06†	6.94†	8.07†	8.82†	9.57†
2154	1077	714	1.63	16L	1.910	26L	3.104	2.83	1.45	.97	....	3.52	5.41	6.55	7.30	8.05
2100	1050	696	1.67	24L	2.865	40L	4.775	4.06	2.15	1.44	....	....	....	4.40	5.17	5.93
2100	1050	696	1.67	18L	2.149	30L	3.581	3.15	1.62	1.08	....	2.92	4.83	5.97	6.72	7.48
....	1050	696	1.67	12L	1.432	20L	2.387	....	1.09◇	.72	3.16†	4.48†	6.37†	7.50†	8.25†	9.00†
2042	1021	677	1.71	28L	3.342	48L	5.730	4.61	2.49	1.67	....	....	....	....	....	4.73
2042	1021	677	1.71	14L	1.671	24L	2.865	2.49◇	1.27	.85	....	3.90	5.79	6.92	7.67	8.43
2000	1000	663	1.75	48L	5.730	84L	10.027	6.27	4.06	2.81	....	....	....	....	....	....
2000	1000	663	1.75	16L	1.910	28L	3.342	2.83	1.45	.97	....	....	5.21	6.34	7.10	7.85
1969	985	652	1.78	18L	2.149	32L	3.820	3.15	1.62	1.08	....	....	4.62	5.76	6.52	7.27
1944	972	644	1.80	40L	4.775	72L	8.594	5.87	3.47	2.36	....	....	....	....	....	....
....	972	644	1.80	10L	1.194	18L	2.149	....	.91◇	.60◇	3.54†	4.86†	6.74†	7.87†	8.62†	9.38†
1925	963	638	1.82	22L	2.626	40L	4.775	3.77	1.98	1.32	....	....	....	4.57	5.34	6.10
....	955	633	1.83	12L	1.432	22L	2.626	....	1.09◇	.72	2.95†	4.28†	6.17†	7.50†	8.05†	8.80†
1896	948	628	1.85	26L	3.104	48L	5.730	4.35	2.32	1.56	....	....	....	....	....	4.89
1885	942	625	1.86	14L	1.671	26L	3.104	2.49◇	1.27	.85	....	3.69	5.59	6.72	7.48	8.23
1867	933	619	1.88	32L	3.820	60L	7.162	5.10	2.83	1.91	....	....	....	....	....	....
1867	933	619	1.88	16L	1.910	30L	3.581	2.83	1.45	.97	....	....	5.00	6.14	6.90	7.65
1750	875	580	2.00	30L	3.581	60L	7.162	4.86	2.66	1.79	....	....	....	....	....	....
1750	875	580	2.00	24L	2.865	48L	5.730	4.06	2.15	1.44	....	....	....	....	....	5.05
1750	875	580	2.00	20L	2.387	40L	4.775	3.46	1.80	1.20	....	....	....	4.73	5.50	6.27
1750	875	580	2.00	16L	1.910	32L	3.820	2.83	1.45	.97	....	....	4.79	5.93	6.69	7.45
1750	875	580	2.00	14L	1.671	28L	3.342	2.49	1.27	.85	....	3.47	5.38	6.52	7.27	8.03
....	875	580	2.00	12L	1.432	24L	2.865	....	1.09◇	.72	2.72†	4.07†	5.97†	7.10†	7.85†	8.61†
....	875	580	2.00	10L	1.194	20L	2.387	....	.91◇	.60◇	3.33†	4.66†	6.55†	7.68†	8.43†	9.18†
1667	833	552	2.10	40L	4.775	84L	10.027	5.87	3.47	2.36	....	....	....	....	....	....
1633	817	541	2.14	28L	3.342	60L	7.162	4.61	2.49	1.67	....	....	....	....	....	....
1633	817	541	2.14	14L	1.671	30L	3.581	2.49◇	1.27	.85	....	3.24†	5.17	6.31	7.07	7.83
....	808	535	2.17	12L	1.432	26L	3.104	....	1.09◇	.72	....	3.85†	5.76†	6.90†	7.65†	8.41†
1604	802	532	2.18	22L	2.626	48L	5.730	3.77	1.98	1.32	....	....	....	....	....	5.21
....	795	527	2.20	10L	1.194	22L	2.626	....	.91◇	.60◇	3.11†	4.45†	6.35†	7.48†	8.23†	8.98†
1575	788	522	2.22	18L	2.149	40L	4.775	3.15	1.62	1.08	....	....	....	4.89	5.67	6.44
1556	778	516	2.25	32L	3.820	72L	8.594	5.10	2.83	1.91	....	....	....	....	....	....
1531	766	507	2.29	14L	1.671	32L	3.820	2.49◇	1.27	.85	....	....	4.95†	6.10	6.86	7.62
1517	758	503	2.31	26L	3.104	60L	7.162	4.35	2.32	1.56	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

† † See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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## L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
8.62	9.37	10.13	10.88	12.00	13.13	14.25	15.38	16.88	18.38	19.88	21.38	22.88	25.88
7.67	8.43	9.18	9.93	11.06	12.18	13.31	14.44	15.94	17.44	18.94	20.44	21.94	24.94
....	....	....	....	....	....	....	8.13	9.65	11.17	12.68	14.19	15.69	18.70
....	....	....	....	6.65	7.79	8.93	10.06	11.57	13.08	14.59	16.09	17.60	20.60
5.17	5.93	6.69	7.45	8.58	9.71	10.84	11.97	13.48	14.98	16.48	17.99	19.49	22.49
8.05	8.80	9.55	10.31	11.43	12.56	13.69	14.81	16.31	17.81	19.32	20.82	22.32	25.32
9.00	9.75	10.50	11.24	12.38	13.50	14.63	15.76	17.26	18.76	20.26	21.76	23.26	26.26
9.94†	10.69†	11.44†	12.20†	13.32†	14.45†	15.57†	16.70†	18.20†	19.70†	21.20†	22.70†	24.20†	27.20†
6.52	7.27	8.03	8.78	9.91	11.04	12.17	13.30	14.80	16.30	17.80	19.31	20.81	23.81
8.43	9.18	9.93	10.68	11.81	12.94	14.06	15.19	16.69	18.19	19.69	21.19	22.69	25.69
9.37	10.13	10.88	11.63	12.75	13.88	15.00	16.13	17.63	19.13	20.63	22.13	23.63	26.63
5.34	6.10	6.86	7.62	8.75	9.89	11.02	12.15	13.66	15.16	16.66	18.17	19.67	22.67
7.85	8.60	9.36	10.11	11.24	12.37	13.49	14.62	16.12	17.62	19.12	20.63	22.13	25.13
10.32‡	11.07‡	11.82‡	12.57‡	13.70‡	14.82‡	15.95‡	17.07‡	18.57‡	20.07‡	21.57‡	23.07‡	24.57‡	27.57‡
8.80	9.55	10.31	11.06	12.19	13.31	14.44	15.56	17.06	18.56	20.07	21.57	23.07	26.07
6.69	7.45	8.20	8.96	10.09	11.22	12.35	13.48	14.98	16.48	17.99	19.49	20.99	23.99
8.23	8.98	9.73	10.49	11.61	12.74	13.87	14.99	16.50	18.00	19.50	21.00	22.50	25.50
9.75†	10.50†	11.25†	12.00†	13.13†	14.25†	15.38†	16.51†	18.01†	19.51†	21.01†	22.51†	24.01†	27.01†
5.50	6.27	7.03	7.79	8.93	10.06	11.20	12.33	13.83	15.34	16.84	18.35	19.85	22.86
9.18	9.93	10.68	11.43	12.56	13.69	14.81	15.94	17.44	18.94	20.44	21.94	23.44	26.44
....	....	....	....	....	....	....	....	8.35	9.90	11.43	12.96	14.47	17.50
8.61	9.36	10.11	10.86	11.99	13.12	14.24	15.37	16.87	18.37	19.88	21.38	22.88	25.88
8.03	8.78	9.53	10.29	11.42	12.55	13.67	14.80	16.30	17.80	19.31	20.81	22.31	25.31
....	....	....	....	....	....	7.64	8.80	10.33	11.85	13.37	14.89	16.40	19.42
10.13‡	10.88‡	11.63‡	12.38‡	13.51‡	14.63‡	15.76‡	16.88‡	18.38‡	19.88‡	21.38‡	22.88‡	24.38‡	27.39‡
6.86	7.62	8.38	9.13	10.27	11.40	12.53	13.66	15.16	16.66	18.17	19.67	21.17	24.18
9.56†	10.13†	11.06†	11.81†	12.94†	14.06†	15.19†	16.32†	17.82†	19.32†	20.82†	22.32†	23.82†	26.82†
5.67	6.43	7.20	7.96	9.10	10.24	11.37	12.50	14.01	15.52	17.02	18.53	20.03	23.04
8.98	9.73	10.49	11.24	12.37	13.49	14.62	15.75	17.25	18.75	20.25	21.75	23.25	26.25
....	....	....	6.15	7.32	8.47	9.61	10.75	12.27	13.78	15.29	16.80	18.31	21.32
8.41	9.16	9.91	10.67	11.80	12.92	14.05	15.18	16.68	18.18	19.68	21.18	22.68	25.69
....	....	....	6.31	7.48	8.63	9.78	10.92	12.44	13.96	15.47	16.98	18.49	21.50
5.83	6.60	7.37	8.13	9.27	10.41	11.55	12.68	14.19	15.70	17.20	18.71	20.21	23.22
7.03	7.79	8.55	9.31	10.44	11.57	12.70	13.83	15.34	16.84	18.35	19.85	21.35	24.36
8.20	8.96	9.71	10.47	11.60	12.73	13.85	14.98	16.48	17.99	19.49	20.99	22.49	25.50
8.78	9.54	10.29	11.04	12.17	13.30	14.43	15.55	17.05	18.56	20.06	21.56	23.06	26.06
9.36†	10.11†	10.86†	11.62†	12.74†	13.87†	15.00†	16.12†	17.62†	19.13†	20.63†	22.13†	23.62†	26.63†
9.93‡	10.68‡	11.43‡	12.19‡	13.31‡	14.44‡	15.56‡	16.69‡	18.19‡	19.69‡	21.19‡	22.69‡	24.19‡	27.20‡
....	....	....	....	....	....	....	....	9.00	10.55	12.10	13.63	15.16	18.19
....	....	5.68	6.47	7.64	8.80	9.95	11.69	12.61	14.13	15.64	17.15	18.66	21.68
8.58	9.34	10.09	10.85	11.97	13.10	14.23	15.36	16.86	18.36	19.86	21.37	22.87	25.87
9.16†	9.91†	10.67†	11.42†	12.55†	13.67†	14.80†	15.93†	17.43†	18.93†	20.43†	21.94†	23.44†	26.44†
5.99	6.77	7.54	8.30	9.44	10.58	11.72	12.85	14.36	15.87	17.38	18.89	20.39	23.40
9.74‡	10.49‡	11.24‡	11.99‡	13.12‡	14.24‡	15.37‡	16.50‡	18.00‡	19.50‡	21.00‡	22.50‡	24.00‡	27.01‡
7.20	7.96	8.72	9.48	10.62	11.75	12.88	14.01	15.52	17.02	18.53	20.03	21.53	24.54
....	....	....	....	....	7.10	8.29	9.45	11.00	12.53	14.06	15.58	17.09	20.12
8.38	9.13	9.89	10.64	11.77	12.90	14.03	15.16	16.67	18.17	19.67	21.17	22.68	25.68
....	....	5.84	6.63	7.80	8.97	10.12	11.26	12.79	14.30	15.82	17.33	18.84	21.85

### L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

### Teeth in Mesh Factor (T.I.M)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	.60

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# SELECTION

## L Stock Drive Selections

	Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
	3500	1750	1160		Driver		Driven		3500	1750	1160	124L	150L	187L	210L	225L	240L
					No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.									
V-Drives	...	750	497	2.33	12L	1.432	28L	3.342	...	1.09◇	.72	...	3.63	5.55	6.69	7.45†	8.20†
FHP Drives	1458	729	483	2.40	30L	3.581	72L	8.594	4.86	2.66	1.79	...	...	...	...	...	...
	1458	729	483	2.40	20L	2.387	48L	5.730	3.46	1.80	1.20	...	...	...	...	4.57	5.37
	...	729	483	2.40	10L	1.194	24L	2.865	...	.91◇	.60◇	2.89‡	4.24‡	6.14‡	7.28‡	8.03‡	8.78‡
	1400	700	464	2.50	24L	2.865	60L	7.162	4.06	2.15	1.44	...	...	...	...	...	...
Drive Component Accessories	1400	700	464	2.50	16L	1.910	40L	4.775	2.83	1.45	.97	...	...	...	5.05	5.83	6.60
	...	700	464	2.50	12L	1.432	30L	3.581	...	1.09◇	.72	...	3.40‡	5.34‡	6.43‡	7.24‡	8.00‡
	1361	681	451	2.57	28L	3.342	72L	8.594	4.61	2.49	1.67	...	...	...	...	...	...
	...	673	446	2.60	10L	1.194	26L	3.104	...	.91◇	.60◇	2.64§	4.02‡	5.93‡	7.07‡	7.83‡	8.58‡
DYNA-SYNC	1333	667	442	2.63	32L	3.820	84L	10.027	5.10	2.83	1.91	...	...	...	...	...	...
	1312	656	435	2.67	18L	2.149	48L	5.730	3.15	1.62	1.08	...	...	...	...	4.73	5.53
	...	656	435	2.67	12L	1.432	32L	3.820	...	1.09◇	.72	...	3.15†	5.12†	6.27†	7.03†	7.79†
	1283	642	425	2.73	22L	2.626	60L	7.162	3.77	1.98	1.32	...	...	...	...	...	...
HT200/HTD Synchronous Drives	1264	632	419	2.77	26L	3.104	72L	8.594	4.35	2.32	1.56	...	...	...	...	...	...
	1250	625	414	2.80	30L	3.581	84L	10.027	4.86	2.66	1.79	...	...	...	...	...	...
	...	625	414	2.80	10L	1.194	28L	3.342	...	.91◇	.60◇	...	3.79‡	5.72‡	6.86‡	7.62‡	8.38‡
	1225	613	406	2.86	14L	1.671	40L	4.775	2.49◇	1.27	.85	...	...	...	5.21	5.99	6.77
HTRC Synchronous Drives	1167	583	387	3.00	28L	3.342	84L	10.027	4.61	2.49	1.67	...	...	...	...	...	...
	1167	583	387	3.00	24L	2.865	72L	8.594	4.06	2.15	1.44	...	...	...	...	...	...
	1167	583	387	3.00	20L	2.387	60L	7.162	3.46	1.80	1.20	...	...	...	...	...	...
	1167	583	387	3.00	16L	1.910	48L	5.730	2.83	1.45	.97	...	...	...	...	4.88	5.68
Synchronous Drives	...	583	387	3.00	10L	1.194	30L	3.581	...	.91◇	.60◇	...	3.56§	5.50‡	6.65‡	7.41‡	8.17‡
	...	547	363	3.20	10L	1.194	32L	3.820	...	.91◇	.60◇	...	3.30§	5.28‡	6.44‡	7.20‡	7.96‡
	1684	542	359	3.23	26L	3.104	84L	10.027	4.35	2.32	1.56	...	...	...	...	...	...
	1069	535	354	3.27	22L	2.626	72L	8.594	3.77	1.98	1.32	...	...	...	...	...	...
Synchronous Drives	1050	525	348	3.33	18L	2.149	60L	7.162	3.15	1.62	1.08	...	...	...	...	...	...
	...	525	348	3.33	12L	1.432	40L	4.775	...	1.09◇	.72	...	...	4.17‡	5.37‡	6.15‡	6.93‡
	1021	510	338	3.43	14L	1.671	48L	5.730	2.49◇	1.27	.85	...	...	...	4.19‡	5.03‡	5.84‡
	1000	500	331	3.50	24L	2.865	84L	10.027	4.06	2.15	1.44	...	...	...	...	...	...
Synchronous Drives	972	486	322	3.60	20L	2.387	72L	8.594	3.46	1.80	1.20	...	...	...	...	...	...
	933	467	309	3.75	16L	1.910	60L	7.162	2.83	1.45	.97	...	...	...	...	...	...
	916	458	304	3.82	22L	2.626	84L	10.027	3.77	1.98	1.32	...	...	...	...	...	...
	875	438	290	4.00	18L	2.149	72L	8.594	3.15	1.62	1.08	...	...	...	...	...	...
Synchronous Drives	...	438	290	4.00	12L	1.432	48L	5.730	...	1.09◇	.72	...	...	...	4.34‡	5.18‡	5.99‡
	...	438	290	4.00	10L	1.194	40L	4.775	...	.91◇	.60◇	...	...	4.33§	5.53§	6.32‡	7.09‡
	833	417	276	4.20	20L	2.387	84L	10.027	3.46	1.80	1.20	...	...	...	...	...	...
	817	408	271	4.29	14L	1.671	60L	7.162	2.49◇	1.27	.85	...	...	...	...	...	...
Synchronous Drives	778	389	258	4.50	16L	1.910	72L	8.594	2.83	1.45	.97	...	...	...	...	...	...
	749	375	248	4.67	18L	2.149	84L	10.027	3.15	1.62	1.08	...	...	...	...	...	...
	...	365	242	4.80	10L	1.194	48L	5.730	...	.91◇	.60◇	...	...	...	4.48§	5.33§	6.15§
	...	350	232	5.00	12L	1.432	60L	7.162	...	1.09◇	.72	...	...	...	...	...	...
Synchronous Drives	681	340	226	5.14	14L	1.671	72L	8.594	2.49◇	1.27	.85	...	...	...	...	...	...
	667	333	221	5.25	16L	1.671	84L	10.027	2.83	1.45	.97	...	...	...	...	...	...
	583	292	193	6.00	14L	1.671	84L	10.027	2.49◇	1.27	.85	...	...	...	...	...	...
	...	292	193	6.00	12L	1.432	72L	8.594	...	1.09◇	.72	...	...	...	...	...	...
Synchronous Drives	...	292	193	6.00	10L	1.194	60L	7.162	...	.91◇	.60◇	...	...	...	...	...	4.38♣
	...	250	166	7.00	12L	1.432	84L	10.027	...	1.09◇	.72	...	...	...	...	...	...
	...	243	161	7.20	10L	1.194	72L	8.594	...	.91◇	.60◇	...	...	...	...	...	...
	...	208	138	8.40	10L	1.194	84L	10.027	...	.91◇	.60◇	...	...	...	...	...	...

Δ HP ratings are for conventional speed-reduction drives. † ‡ § ♣ See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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## L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
8.96†	9.71†	10.47†	11.22†	12.35†	13.48†	14.61†	15.73†	17.24†	18.74†	20.24†	21.74†	23.24†	26.25†
....	....	....	....	....	7.26	8.44	9.62	11.16	12.70	14.23	15.75	17.27	20.29
6.15	6.93	7.70	8.47	9.61	10.75	11.89	13.03	14.54	16.05	17.56	19.06	20.57	23.58
9.54‡	10.29‡	11.04‡	11.80‡	12.92‡	14.05‡	15.18‡	16.30‡	17.81‡	19.31‡	20.81‡	22.31‡	23.81‡	26.81‡
....	....	5.99	6.79	7.97	9.13	10.28	11.43	12.96	14.48	15.99	17.50	19.01	22.03
7.37	8.13	8.89	9.65	10.79	11.92	13.06	14.19	15.70	17.20	18.71	20.21	21.72	24.72
8.76†	9.51†	10.27†	11.02†	12.15†	13.28†	14.41†	15.54†	17.04†	18.54†	20.05†	21.55†	23.05†	26.05†
....	....	....	....	6.19	7.41	8.60	9.78	11.33	12.86	14.39	15.92	17.44	20.47
9.34‡	10.09‡	10.85‡	11.60‡	12.73‡	13.85‡	14.98‡	16.11‡	17.61‡	19.11‡	20.62‡	22.12‡	23.62‡	26.62‡
....	....	....	....	....	....	....	8.02	9.63	11.20	12.75	14.30	15.83	18.88
6.31	7.09	7.87	8.64	9.78	10.92	12.06	13.20	14.72	16.23	17.73	19.24	20.75	23.76
8.55†	9.31†	10.07†	10.82†	11.95†	13.08†	14.21†	15.34†	16.85†	18.35†	19.85†	21.36†	22.86†	25.86†
....	5.33	6.15	6.95	8.13	9.29	10.45	11.60	13.18	14.65	16.16	17.68	19.19	22.21♥
....	....	....	....	6.34	7.56	8.76	9.94	11.49	13.03	14.56	16.09	17.61	20.64
....	....	....	....	....	....	....	8.17	9.78	11.36	12.92	14.46	16.00	19.05
9.14‡	9.89‡	10.65‡	11.40‡	12.53‡	13.66‡	14.79‡	15.91‡	17.42‡	18.92‡	20.42‡	21.92‡	23.43‡	26.43‡
7.54	8.30	9.06	9.83	10.96	12.10	13.23	14.36	15.87	17.38	18.89	20.39	21.89	24.90
....	....	....	....	....	....	7.08	8.33	9.94	11.52	13.08	14.63	16.16	19.22
....	....	....	....	6.49	7.72	8.92	10.10	11.65	13.20	14.73	16.26	17.78	20.81
....	5.48	6.30	7.10	8.29	9.46	10.61	11.77	13.29	14.82	16.34	17.85	19.36♥	22.38♥
6.47	7.26	8.03	8.80	9.95	11.10	12.24	13.37	14.89	16.40	17.91	19.42	20.93	23.94
8.93‡	9.69‡	10.44‡	11.20‡	12.33‡	13.46‡	14.59‡	15.72‡	17.22‡	18.73‡	20.23‡	21.73‡	23.23‡	26.24‡
8.72‡	9.48‡	10.24‡	11.00‡	12.13‡	13.26‡	14.39‡	15.52‡	17.02‡	18.53‡	20.03‡	21.54‡	23.04‡	26.04‡
....	....	....	....	....	....	7.22	8.48	10.10	11.68	13.24	14.79	16.33	19.39
....	....	....	....	6.64	7.87	9.07	10.26	11.82	13.36	14.90	16.43	17.95	20.99
....	5.62	6.45	7.26	8.45	9.62	10.78	11.93	13.46	14.99	16.51	18.02♥	19.54♥	22.56♥
7.70†	8.47†	9.23†	10.00†	11.14†	12.27†	13.40†	14.54†	16.05†	17.56†	19.06†	20.57†	22.08†	25.08†
6.63†	7.42†	8.19†	8.97†	10.12	11.26	12.41	13.55	15.06	16.57	18.08	19.59	21.10	24.11
....	....	....	....	....	....	7.37	8.63	10.25	11.84	13.40	14.95	16.49	19.56
....	....	....	....	6.78	8.02	9.23	10.42	11.98	13.53	15.06	16.59	18.12	21.16
4.91	5.77	6.60	7.41	8.60	9.78	10.94	12.10	13.63	15.16	16.68♥	18.20♥	19.71♥	22.73♥
....	....	....	....	....	....	7.51	8.78	10.40	12.00	13.56	15.12	16.66	19.18
....	....	....	5.61†	6.93	8.18	9.39	10.58	12.14	13.69	15.23	16.76	18.29♥	21.33♥
6.79‡	7.58‡	8.36‡	9.13‡	10.28‡	11.43‡	12.58‡	13.72‡	15.23‡	16.75‡	18.25‡	19.77‡	21.28‡	24.29‡
7.87‡	8.64‡	9.40‡	10.17‡	11.31‡	12.44‡	13.58‡	14.72‡	16.23‡	17.73‡	19.24‡	20.75‡	22.25‡	25.26‡
....	....	....	....	....	....	7.66	8.93	10.56	12.15	13.72	15.28	16.82	19.89♥
5.05‡	5.92‡	6.75‡	7.57‡	8.76‡	9.94‡	11.11‡	12.26‡	13.80♥	15.33♥	16.85♥	18.37♥	19.83♥	22.91♥
....	....	....	5.75‡	7.08‡	8.33‡	9.54	10.73	12.30	13.85	15.40♥	16.93♥	18.46♥	21.50♥
....	....	....	....	....	6.45‡	7.80‡	9.08	10.71	12.31	13.88	15.44	16.99	20.06♥
6.95	7.74‡	8.52‡	9.29‡	10.45‡	11.60‡	12.75‡	13.89‡	15.41‡	16.92‡	18.44‡	19.95‡	21.46‡	24.47‡
5.19§	6.07‡	6.90‡	7.72‡	8.92‡	10.10‡	11.274	12.43†♥	13.97†♥	15.49†♥	17.02†♥	18.54†♥	20.06†♥	23.08†♥
....	....	....	5.89‡	7.22‡	8.48‡	9.70‡	10.89‡	12.46‡	14.02†♥	15.56†♥	17.10♥	18.63♥	21.67♥
....	....	....	....	....	6.58‡	7.94‡	9.22‡	10.87	12.47	14.04	15.60♥	17.15♥	20.23♥
....	....	....	....	....	6.72‡	8.09‡	9.37‡	11.02‡	12.62‡	14.20†♥	15.76†♥	17.32†♥	20.39♥
....	....	....	6.03§	7.37	8.63‡	9.85‡	11.05‡	12.62†♥	14.18†♥	15.73†♥	17.26†♥	18.79†♥	21.84†♥
5.33§	6.21§	7.05§	7.87§	9.08§	10.26†♥	11.43†♥	12.59†♥	14.13†♥	15.66†♥	17.19†♥	18.71†♥	20.23†♥	23.26†♥
....	....	....	....	....	6.86§	8.23§	9.52‡	11.17‡	12.78‡	14.36‡	15.93‡	17.48‡	20.56†♥
....	....	....	6.17♥	7.51§	8.78§	10.00§♥	11.20§♥	12.78‡	14.34‡	15.89‡	17.43‡	18.96‡	22.01†♥
....	....	....	....	....	7.00§	8.37§	9.67§♥	11.32§♥	12.93§♥	14.52†♥	16.09†♥	17.64†♥	20.73†♥

### L Belt Width Table

<b>Belt Width Factor</b>	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
<b>Belt Width</b>	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
<b>Belt Width Code</b>	037	043	050	062	075	087	100	125	150	175	200	250	300

### Teeth in Mesh factor (T.I.M)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80
‡	4	.60

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
§	3	.40
β	2	.20

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# SELECTION

## H Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
				Driver		Driven											
				3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	240H	270H	300H	330H
....	1750	1160	1.00	48H	7.839	48H	7.639	....	13.84	9.55	....	....	....	....	....	....	9.01
3500	1750	1160	1.00	40H	6.366	40H	6.366	20.08	11.79	8.03	....	....	....	....	8.01	9.51	11.01
3500	1750	1160	1.00	32H	5.093	32H	5.093	17.40	9.60	6.48	....	5.51	7.01	8.51	10.01	11.51	13.01
3500	1750	1160	1.00	30H	4.775	30H	4.775	16.59	9.03	6.08	....	6.01	7.51	9.01	10.51	12.01	13.51
3500	1750	1160	1.00	28H	4.456	28H	4.456	15.74	8.46	5.68	5.01	6.51	8.01	9.51	11.01	12.51	14.01
3500	1750	1160	1.00	26H	4.138	26H	4.138	14.80	7.88	5.28	5.51	7.01	8.51	10.01	11.51	13.01	14.51
3500	1750	1160	1.00	24H	3.820	24H	3.820	13.82	7.30	4.89	6.01	7.51	9.01	10.51	12.01	13.51	15.01
3500	1750	1160	1.00	22H	3.501	22H	3.501	12.84	6.71	4.48	6.51	8.01	9.51	11.01	12.51	14.01	15.51
3500	1750	1160	1.00	20H	3.183	20H	3.183	11.77◇	6.11	4.08	7.01	8.51	10.01	11.51	13.01	14.51	16.01
3500	1750	1160	1.00	18H	2.865	18H	2.865	10.71◇	5.52◇	3.68	7.51	9.01	10.51	12.01	13.51	15.01	16.51
....	1750	1160	1.00	16H	2.546	16H	2.546	....	4.91◇	3.27◇	8.01	9.51	11.01	12.51	14.01	15.51	17.01
....	....	1160	1.00	14H	2.228	14H	2.228	....	....	2.86◇	8.51	10.01	11.51	13.01	14.51	16.01	17.51
3281	1641	1087	1.07	30H	4.775	32H	5.093	16.59	9.03	6.08	....	5.75	7.25	8.76	10.26	11.76	13.26
3267	1633	1083	1.07	28H	4.456	30H	4.775	15.74	8.46	5.68	....	6.25	7.26	9.26	10.76	12.26	13.76
3250	1625	1077	1.08	26H	4.138	28H	4.456	14.80	7.88	5.28	5.25	6.75	8.26	9.76	11.26	12.76	14.26
3231	1615	1071	1.08	24H	3.820	26H	4.138	13.82	7.30	4.89	5.76	7.26	8.76	10.26	11.76	13.26	14.76
3208	1604	1063	1.09	22H	3.501	24H	3.820	12.84	6.71	4.48	6.26	7.76	9.26	10.76	12.26	13.76	15.26
3182	1591	1055	1.10	20H	3.183	22H	3.501	11.77◇	6.11	4.08	6.76	8.26	9.76	11.26	12.76	14.26	15.76
3150	1575	1044	1.11	18H	2.865	20H	3.183	10.71◇	5.52◇	3.68	7.26	8.76	10.26	11.76	13.26	14.76	16.26
....	1556	1031	1.13	16H	2.546	18H	2.865	....	4.91◇	3.27◇	7.76	9.26	10.76	12.26	13.76	15.26	16.76
3063	1531	1015	1.14	28H	4.456	32H	5.093	15.74	8.46	5.68	....	6.00	7.50	9.00	10.50	12.01	13.51
....	....	1015	1.14	14H	2.228	16H	2.546	....	....	2.86◇	8.26	9.76	11.26	12.76	14.26	15.76	17.26
3033	1517	1005	1.15	26H	4.138	30H	4.775	14.80	7.88	5.28	5.00	6.50	8.00	9.50	11.00	12.51	14.01
3000	1500	994	1.17	24H	3.820	28H	4.456	13.82	7.30	4.89	5.50	7.00	8.50	10.00	11.50	13.01	14.51
2962	1481	982	1.18	22H	3.501	26H	4.138	12.84	6.71	4.48	6.00	7.50	9.00	10.50	12.01	13.50	15.01
2917	1458	967	1.20	40H	6.366	48H	7.639	20.08	11.79	8.03	....	....	....	....	....	8.48	9.99
2917	1458	967	1.20	20H	3.183	24H	3.820	11.77◇	6.11	4.08	6.50	8.00	9.50	11.00	12.51	14.01	15.51
2864	1432	949	1.22	18H	2.865	22H	3.501	10.71◇	5.52◇	3.68	7.01	8.50	10.00	11.51	13.01	14.51	16.01
2844	1422	943	1.23	26H	4.138	32H	5.093	14.80	7.88	5.28	....	6.24	7.74	9.24	10.75	12.25	13.75
....	1400	928	1.25	48H	7.639	60H	9.549	....	13.84	9.55	....	....	....	....	....	....	....
2800	1400	928	1.25	32H	5.093	40H	6.366	17.40	9.60	6.48	....	....	....	7.43	8.98	10.49	11.99
2800	1400	928	1.25	24H	3.820	30H	4.775	13.82	7.30	4.89	5.24	6.40	8.24	9.75	11.25	12.75	14.25
....	1400	928	1.25	16H	2.546	20H	3.183	....	4.91◇	3.27◇	7.50	9.00	10.50	12.01	13.51	15.01	16.51
2750	1375	911	1.27	22H	3.501	28H	4.456	12.84	6.71	4.48	5.74	7.24	8.74	10.25	11.75	13.25	14.75
....	....	902	1.29	14H	2.228	18H	2.865	....	....	2.86◇	8.00	9.50	11.01	12.51	14.01	15.51	17.02
2692	1346	892	1.30	20H	3.183	26H	4.138	11.77◇	6.11	4.08	6.24	7.74	9.25	10.75	12.25	13.75	15.26
2625	1313	870	1.33	30H	4.775	40H	6.366	16.59	9.03	6.08	....	....	6.20	7.72	9.22	10.73	12.24
2625	1313	870	1.33	24H	3.820	32H	5.093	13.82	7.30	4.89	4.97	6.48	7.98	9.49	10.99	12.49	14.00
2625	1313	870	1.33	18H	2.865	24H	3.820	10.71◇	5.52◇	3.68	6.74	8.24	9.75	11.25	12.75	14.25	15.76
2567	1283	851	1.36	22H	3.501	30H	4.775	12.84	6.71	4.48	5.47	6.98	8.48	9.99	11.49	12.99	14.50
....	1273	844	1.38	16H	2.546	22H	3.501	....	4.91◇	3.27◇	7.24	8.75	10.25	11.75	13.25	14.75	16.25
2500	1250	829	1.40	20H	3.183	28H	4.456	11.77◇	6.11	4.08	5.97	7.48	8.99	10.49	11.99	13.49	15.00
2450	1225	812	1.43	28H	4.456	40H	6.366	15.74	8.46	5.68	....	....	6.50	7.95	9.46	10.97	12.47
....	....	812	1.43	14H	2.228	20H	3.183	....	....	2.86◇	7.75	9.25	10.75	12.25	13.75	15.25	16.75
2423	1212	803	1.44	18H	2.865	26H	4.138	10.71◇	5.52◇	3.68	6.48	7.98	9.49	10.99	12.49	14.00	15.50
2406	1203	798	1.45	22H	3.501	32H	5.093	12.84	6.71	4.48	5.20	6.71	8.22	9.73	11.23	12.73	14.24

Δ HP ratings are for conventional speed-reduction drives.

▼ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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# SELECTION

## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H
10.51	12.01	13.51	15.01	16.51	18.01	19.51	21.01	23.01	25.51	28.01	30.51	33.01	38.01	43.01	50.51	58.01	73.01
12.51	14.01	15.51	17.01	18.51	20.01	21.51	23.01	25.01	27.51	30.01	32.51	35.01	40.01	45.01	52.51	60.01	15.01
14.51	16.01	17.51	19.01	20.51	22.01	23.51	25.01	27.01	29.51	32.01	34.51	37.01	42.01	47.01	54.51	62.01	77.01
15.01	16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.51	30.01	32.51	35.01	37.51	42.51	47.51	55.01	62.51	77.51
15.51	17.01	18.51	20.01	21.51	23.01	24.51	26.01	28.01	30.51	33.01	35.51	38.01	43.01	48.01	55.51	63.01	78.01
16.01	17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.51	31.01	33.51	36.01	38.51	43.51	48.51	56.01	63.51	78.51
16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.01	29.01	31.51	34.01	36.51	39.01	44.01	49.01	56.51	64.01	79.01
17.01	18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.01	30.01	32.51	35.01	37.51	40.01	45.01	50.01	57.51	65.01	80.01
18.01	19.51	21.01	22.51	24.01	25.51	27.01	28.51	30.51	33.01	35.51	38.01	40.51	45.51	50.51	58.01	65.51	80.51
18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.01	31.01	33.51	36.01	38.51	41.01	46.01	51.01	58.51	66.01	81.01
19.01	20.51	22.01	23.51	25.01	26.51	28.01	29.51	31.51	34.01	36.51	39.01	41.51	46.51	51.51	59.01	66.51	81.51
14.76	16.26	17.76	19.26	20.76	22.26	23.76	25.26	27.26	29.76	32.26	34.76	37.26	42.26	47.26	54.16	62.26	77.26
15.26	16.76	18.26	19.76	21.26	22.76	24.26	25.76	27.76	30.26	32.76	35.26	37.76	42.76	47.76	55.26	62.76	77.76
15.76	17.26	18.76	20.26	21.76	23.26	24.76	26.26	28.26	30.76	33.26	35.76	38.26	43.26	48.26	55.76	63.26	78.26
16.26	17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.76	31.26	33.76	36.26	38.76	43.76	48.76	56.26	63.76	78.76
16.76	18.26	19.76	21.26	22.76	24.26	25.76	27.26	29.26	31.76	34.26	36.76	39.26	44.26	49.26	56.76	64.26	79.26
17.26	18.75	20.36	21.76	23.26	24.76	26.26	27.76	29.76	32.26	34.76	37.26	39.76	44.76	49.76	57.26	64.76	79.76
17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.26	30.26	32.76	35.26	37.76	40.26	45.26	50.26	57.76	62.26	80.26
18.26	19.76	21.26	22.76	24.26	25.76	27.26	28.76	30.76	33.26	35.76	38.26	40.76	45.76	50.76	58.26	65.76	80.76
15.01	16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.51	30.01	32.51	35.01	37.51	42.51	47.51	55.01	62.51	77.51
18.76	20.26	21.76	23.36	24.76	26.26	27.76	29.26	31.26	33.76	36.26	38.76	41.26	46.26	51.26	58.76	66.26	81.26
15.51	17.01	18.51	20.01	21.51	23.01	24.51	26.01	28.01	30.51	33.01	35.51	38.01	43.01	48.01	55.51	63.01	78.01
16.01	17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.51	31.01	33.51	36.01	38.51	43.51	48.51	56.01	63.51	78.51
16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.01	29.01	31.51	34.01	36.51	39.01	44.01	49.01	56.51	64.01	79.01
11.49	12.99	14.49	16.00	17.50	19.00	20.50	22.00	24.00	26.51	29.00	31.50	34.00	39.01	44.00	51.51	59.01	74.01
17.01	18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.01	30.01	32.51	35.01	37.50	40.01	45.01	50.01	57.51	65.01	80.01
15.24	16.75	18.25	19.76	21.25	22.76	24.26	25.76	27.76	30.25	32.76	35.26	37.76	42.76	47.76	55.26	62.76	77.76
8.95	10.46	11.97	13.47	14.98	16.48	17.98	19.48	21.49	23.99	26.49	28.99	31.50	36.50	41.50	49.00	56.50	71.50♥
13.49	15.00	16.50	18.00	19.50	21.00	22.50	24.00	26.00	28.50	31.00	33.50	36.01	41.00	46.01	53.51	61.01	76.01
15.75	17.25	18.80	20.25	21.76	23.26	24.76	26.25	28.26	30.76	33.26	35.75	38.26	43.26	48.26	55.76	63.26	78.26
18.01	19.51	21.01	22.51	24.01	25.51	27.01	28.51	30.51	33.01	35.51	38.01	40.51	45.51	50.51	58.01	65.51	80.51
16.25	17.75	19.25	20.76	22.26	23.76	25.26	26.76	28.76	31.26	33.76	36.26	38.76	43.76	48.76	56.26	63.76	78.76
18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.01	31.01	33.51	36.01	38.51	41.01	46.01	51.01	58.51	66.01	81.01
16.75	18.25	19.76	21.26	22.76	24.26	25.76	27.26	29.26	31.29	34.26	36.76	39.25	44.26	49.26	56.76	64.26	79.26
13.74	15.24	16.74	18.24	19.74	21.25	22.75	24.25	26.25	28.75	31.25	33.75	36.25	41.25	46.25	53.75	61.26	76.26
15.50	17.00	18.50	20.00	21.50	23.00	24.50	26.00	28.00	30.50	33.00	35.51	38.01	43.00	48.01	55.51	63.01	78.01
17.25	18.80	20.26	21.76	23.26	24.76	26.25	27.76	29.76	32.25	34.76	37.26	39.76	44.76	49.76	57.26	64.76	79.76
16.00	17.50	19.00	20.50	22.00	23.50	25.00	26.50	28.50	31.00	33.51	36.01	38.50	43.51	48.51	56.01	63.51	78.52
17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.26	30.26	32.76	35.26	37.76	40.26	45.26	50.26	57.76	65.26	80.26
16.50	18.00	19.50	21.00	22.50	24.00	25.50	27.00	29.01	31.50	34.01	36.50	39.01	44.00	49.01	56.51	64.01	79.01
13.98	15.48	16.98	18.48	19.99	21.49	22.99	24.49	26.49	29.00	31.50	34.00	36.50	41.50	46.50	54.00	61.50	76.50
18.26	19.76	21.26	22.76	24.26	25.76	27.26	28.75	30.76	33.26	35.76	38.26	40.77	45.76	50.76	58.26	65.76	80.76
17.00	18.50	20.00	21.50	23.00	24.50	26.01	27.50	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
15.74	17.24	18.74	20.24	21.75	23.18	24.75	26.25	28.25	30.75	33.25	35.75	38.25	43.25	48.25	55.76	63.25	78.26

### H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

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# SELECTION

## H Stock Drive Selections

Driven Speeds for Motor Speeds of	Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
		Driver		Driven		3500	1750	1160	240H	270H	300H	330H	360H	390H	420H
		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.										
3500	1750	1160													
....	1167	773	1.50	48H	7.639	72H	11.459	....	13.84	9.55	....	....	....	....	....
2333	1167	773	1.50	40H	6.366	60H	9.549	20.08	11.79	8.03	....	....	....	....	8.35
2333	1167	773	1.50	32H	5.093	48H	7.639	17.40	9.60	6.48	....	....	....	7.90	9.42
2333	1167	773	1.50	20H	3.183	30H	4.775	11.77◊	6.11	4.08	5.70	7.21	8.72	10.23	11.73
....	1167	773	1.50	16H	2.546	24H	3.820	....	4.91◊	3.27◊	6.98	8.48	9.99	11.49	12.99
2275	1138	754	1.54	26H	4.138	40H	6.366	14.80	7.88	5.28	....	....	6.66	8.18	9.69
2250	1125	746	1.56	18H	2.865	28H	4.456	10.71◊	5.52◊	3.68	6.21	7.72	9.22	10.73	12.23
....	....	738	1.57	14H	2.228	22H	3.501	....	....	2.86◊	7.48	8.99	10.49	11.99	13.50
2188	1094	725	1.60	30H	4.775	48H	7.639	16.59	9.03	6.08	....	....	....	6.60	8.13
2188	1094	725	1.60	20H	3.183	32H	5.093	11.77◊	6.11	4.08	5.42	6.94	8.45	9.96	11.47
....	1077	714	1.63	16H	2.546	26H	4.138	....	4.91◊	3.27◊	6.71	8.22	9.73	11.23	12.73
2100	1050	696	1.67	24H	3.820	40H	6.366	13.82	7.30	4.89	....	....	6.89	8.41	9.93
2100	1050	696	1.67	18H	2.865	30H	4.775	10.71◊	5.52◊	3.68	5.93	7.45	8.96	10.46	11.97
2042	1021	677	1.71	28H	4.456	48H	7.639	15.74	8.46	5.68	....	....	....	6.82	8.35
....	....	677	1.71	14H	2.228	24H	3.820	....	....	2.86◊	7.22	8.72	10.23	11.74	13.24
....	1000	663	1.75	48H	7.639	84H	13.369	....	13.84	9.55	....	....	....	....	....
....	1000	663	1.75	16H	2.546	28H	4.456	....	4.91◊	3.27◊	6.44	7.95	9.46	10.97	12.47
1969	985	652	1.78	18H	2.865	32H	5.093	10.71◊	5.52◊	3.68	5.65	7.17	8.69	10.20	11.71
1944	972	644	1.80	40H	6.366	72H	11.459	20.08	11.79	8.03	....	....	....	....	....
1925	963	638	1.82	22H	3.501	40H	6.366	12.84	6.71	4.48	....	5.57	7.11	8.64	10.16
1896	948	628	1.85	26H	4.138	48H	7.639	14.80	7.88	5.28	....	....	....	7.04	8.58
....	....	625	1.86	14H	2.226	26H	4.138	....	....	2.86◊	6.94	8.45	9.96	11.47	12.97
1867	933	619	1.88	32H	5.093	60H	9.549	17.40	9.60	6.48	....	....	....	....	7.68
....	933	619	1.88	16H	2.546	30H	4.775	....	4.91◊	3.27◊	6.16	7.68	9.19	10.70	12.21
....	875	580	2.00	48H	7.639	96H	15.279	....	13.84	9.55	....	....	....	....	....
1750	875	580	2.00	30H	4.775	60H	9.549	16.59	9.03	6.08	....	....	....	....	7.89
1750	875	580	2.00	24H	3.820	48H	7.639	13.82	7.30	4.89	....	....	....	7.25	8.80
1750	875	580	2.00	20H	3.183	40H	6.366	11.77◊	6.11	4.08	....	5.78	7.33	8.86	10.39
....	875	580	2.00	16H	2.546	32H	5.093	....	4.91◊	3.27◊	5.87	7.40	8.92	10.43	11.94
....	....	580	2.00	14H	2.228	28H	4.456	....	....	2.66◊	6.67	8.18	9.69	11.20	12.71
1667	833	552	2.10	40H	6.366	84H	13.369	20.08	11.79	8.03	....	....	....	....	....
1633	817	541	2.14	28H	4.456	60H	9.549	15.74	8.46	5.68	....	....	....	....	8.10
....	....	541	2.14	14H	2.228	30H	4.775	....	....	2.86◊	6.38	7.90	9.42	10.94	12.44
1604	802	532	2.18	22H	3.501	48H	7.639	12.84	6.71	4.48	....	....	....	7.47	9.02
1575	788	522	2.22	18H	2.865	40H	6.366	10.71◊	5.52◊	3.68	....	6.00	7.55	9.09	10.61
1556	778	516	2.25	32H	5.093	72H	11.459	17.40	9.60	6.48	....	....	....	....	....
....	....	507	2.29	14H	2.228	32H	5.093	....	....	2.86◊	6.09	7.62	9.15	10.66	12.18
1517	758	503	2.31	26H	4.138	60H	9.549	14.80	7.88	5.28	....	....	....	....	8.31
1458	729	483	2.40	40H	6.366	96H	15.279	20.08	11.79	8.03	....	....	....	....	....
1458	729	483	2.40	30H	4.775	72H	11.459	16.59	9.03	6.08	....	....	....	....	....
1458	729	483	2.40	20H	3.183	48H	7.639	11.77◊	6.11	4.08	....	....	6.09	7.68	9.24
....	700	464	2.50	48H	7.639	120H	19.099	....	13.84	9.55	....	....	....	....	....
1400	700	464	2.50	24H	3.820	60H	9.549	13.82	7.30	4.89	....	....	....	....	8.52
....	700	464	2.50	16H	2.546	40H	6.366	....	4.91◊	3.27◊	....	6.21	7.77	9.31	10.84
1361	681	451	2.57	28H	4.456	72H	11.459	15.74	8.46	5.68	....	....	....	....	....
1333	667	442	2.63	32H	5.093	84H	13.369	17.40	9.60	6.48	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

▼ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H
....	....	10.33	11.85	13.37	14.88	16.40	17.91	19.92	22.43	24.94	27.44	29.95	34.96	39.96	47.47	54.98	69.99♥
9.88	11.40	12.91	14.42	15.93	17.44	18.94	20.45	22.45	24.96	27.46	29.97	32.47	37.48	42.48	49.98	57.49♥	72.49♥
12.44	13.95	15.46	16.97	18.47	19.97	21.47	22.97	24.98	27.48	29.98	32.49	34.99	39.99	44.99	52.50	60.00	74.99
16.24	17.74	19.24	20.75	22.25	23.75	25.25	26.75	28.75	31.25	33.75	36.25	38.75	43.76	48.76	56.27	63.75	78.76
17.50	19.00	20.50	22.00	23.50	25.00	26.50	28.00	30.01	32.51	35.01	37.50	40.01	45.02	50.01	57.51	65.01	80.01
14.21	15.72	17.22	18.73	20.23	21.73	23.23	24.74	26.74	29.24	31.74	34.24	36.75	41.75	46.75	54.25	61.75	76.75
16.74	18.24	19.75	21.25	22.75	24.25	25.75	27.25	29.25	31.75	34.25	36.49	39.25	44.26	49.25	56.75	64.26	79.26
18.00	19.50	21.00	22.50	24.00	25.50	27.01	28.50	30.51	33.01	35.51	38.01	40.51	45.51	50.50	58.02	65.51	80.51
12.68	14.19	15.69	17.20	18.70	20.21	21.71	23.22	25.22	27.72	30.23	32.13	35.23	40.24	45.24	52.74	60.25	75.25
15.98	17.48	18.99	20.49	21.99	23.49	24.99	26.49	28.50	31.00	33.50	36.00	38.50	43.50	48.50	56.00	63.52	78.51
17.24	18.74	20.25	21.75	23.18	24.75	26.25	27.75	29.75	32.25	34.75	37.25	39.76	44.76	49.76	57.25	64.76	79.77
14.45	15.96	17.46	18.97	20.47	21.97	23.48	24.98	26.98	29.48	31.99	34.49	36.99	41.99	47.00	54.50	62.00	77.01
16.48	17.96	19.49	20.99	22.49	23.99	25.49	26.99	29.00	31.50	34.00	36.50	39.00	44.00	49.00	56.51	64.01	79.01
12.91	14.42	15.93	17.44	18.94	20.45	21.95	23.46	25.46	27.97	30.47	32.97	35.48	40.48	45.48	52.99	60.49	75.49
17.74	19.24	20.75	22.25	23.75	25.25	26.75	28.25	30.25	32.75	35.25	37.75	40.25	45.26	50.27	57.76	65.25	80.26
....	....	....	....	11.65	13.19	14.73	16.25	18.28	20.81	23.33	25.85	28.34	33.39	38.40	45.92	53.43	68.45♥
16.98	18.49	19.99	21.49	22.99	24.49	26.00	27.49	29.50	32.00	34.50	37.00	39.50	44.50	49.50	57.01	64.50	79.51
16.22	17.73	19.23	20.73	22.23	23.73	25.24	26.74	28.74	31.24	33.74	36.24	38.75	43.75	48.75	56.25	63.75	78.77
....	9.67	11.22	12.75	14.28	25.81	17.32	18.84	20.85	23.37	25.88	28.40	30.90	35.92	40.93	48.44	55.95♥	70.97♥
14.69	16.20	17.70	19.21	20.71	22.21	23.72	25.22	27.22	29.73	32.23	34.73	37.23	42.24	47.24	54.74	62.25	77.25
13.14	14.65	16.16	17.67	19.18	20.68	22.19	23.69	25.70	28.21	30.71	33.21	35.72	40.72	45.73	53.24	60.74	75.74
17.49	18.99	20.49	21.99	23.49	24.99	26.49	27.99	30.00	32.50	35.00	37.50	40.00	45.00	50.00	57.50	65.00	80.01
10.78	12.31	13.83	15.35	16.86	18.37	19.88	21.39	23.40	25.91	28.42	30.93	33.44	38.45	43.45♥	50.96♥♥	58.47♥	73.48♥
16.72	18.23	19.73	21.23	22.73	24.24	25.74	27.24	29.24	31.74	34.24	36.75	39.25	44.25	49.25	56.15	64.14	79.25
....	....	....	....	....	....	12.94	14.50	16.56	19.12	21.67	24.21	26.74	31.78	36.81	44.35	51.87	66.90
11.00	12.53	14.06	15.58	17.09	18.61	20.35	21.63	23.64	26.15	28.66	31.17	33.68	38.69♥	43.70♥	51.21♥	58.71♥	73.73♥
13.37	14.89	16.40	17.91	19.42	20.92	22.43	23.93	25.94	28.45	30.95	33.46	35.96	40.97	45.97	53.48	60.98	75.99
14.92	16.43	17.94	19.45	20.95	22.45	23.96	25.46	27.47	29.97	32.47	34.97	37.48	42.48	47.48	54.99	62.49	77.50
16.46	17.97	19.47	20.87	22.48	23.98	25.48	26.98	28.99	31.48	33.99	36.49	38.99	43.99	49.00	56.50	64.00	79.01
17.22	18.73	20.23	21.73	23.23	24.74	26.24	27.74	29.74	32.24	34.74	37.25	39.75	44.75	49.75	57.25	64.75	79.75
....	....	....	10.94	12.51	14.07	15.61	17.15	19.19	21.73	24.26	26.78	29.30	34.33	39.35	46.88	54.40♥	69.42♥
11.21	12.75	14.28	15.80	17.32	16.64	20.35	21.86	23.87	26.39	28.90	31.41	33.91	38.93♥	43.94♥	51.45♥	58.95♥	73.97♥
16.96	18.47	19.97	21.47	22.98	24.46	25.98	27.48	29.48	31.99	34.49	36.99	39.49	44.49	49.50	57.01	64.50	79.50
13.60	15.12	16.66	18.14	19.65	21.16	22.67	24.17	26.18	28.69	31.19	33.70	36.20	41.21	46.22	53.72	61.23	76.24
15.16	16.67	18.18	19.68	21.19	22.69	24.20	25.70	27.71	30.21	32.71	35.22	37.72	42.73	47.73	55.23	62.74	77.74
8.93	10.52	12.08	13.63	15.17	16.70	18.23	19.75	21.78	24.30	26.82	29.34	31.85	36.87	41.89♥	49.41♥	56.92♥	71.94♥
16.70	18.20	19.70	21.21	22.72	24.22	25.72	27.22	29.23	31.73	34.23	36.73	39.24	44.24	49.24	56.75	64.25	79.25
11.44	12.97	14.51	16.03	17.55	19.07	20.58	22.09	24.11	26.62	29.13	31.64	34.15♥	39.17♥	44.18♥	51.69♥	59.20♥	74.21♥
....	....	....	....	....	12.18	13.78	15.35	17.43	20.01	22.57	25.11	27.65	32.71	37.75	45.29	52.82♥	67.87♥
9.14	10.76	12.30	13.85	15.39	16.93	18.45	19.98	22.01	24.53	27.05	29.57	32.09	37.11	42.13♥	49.65♥	57.16♥	72.19♥
13.83	15.35	16.86	18.37	19.89	21.39	22.90	24.41	26.42	28.92	31.43	33.94	36.44	41.45	46.46	53.97	61.47	76.48
....	....	....	....	....	....	....	....	....	15.43	18.09	20.71	23.30	28.43	33.52	41.11	48.67	63.75♥
11.65	13.20	14.73	16.25	17.77	19.30	20.81	22.33	24.34	26.86	29.37	31.88♥	34.39♥	39.41♥	44.42♥	51.93♥	59.44♥	74.46♥
15.39	16.90	18.41	19.92	21.43	22.93	24.44	25.94	27.95	30.45	32.96	35.46	37.97	42.97	47.97	55.48	62.98	77.99
9.34	10.94	12.51	14.07	15.61	17.15	18.68	20.20	22.23	24.76	27.28	29.80	32.32	37.35♥	42.37♥	49.89♥	57.40♥	72.43♥
....	....	10.15	11.77	13.36	14.93	16.49	18.03	20.08	22.63	25.17	27.70	30.23	35.22	40.30	47.83♥	55.36♥	70.39♥

### H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

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# SELECTION

## H Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
				Driver		Driven											
				3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	240H	270H	300H	330H
1312	656	435	2.67	18H	2.865	48H	7.639	10.71◇	5.52◇	3.68	....	....	6.30	7.89	9.45	11.00	12.53
1283	642	425	2.73	22H	3.501	60H	9.549	12.84	6.71	4.48	....	....	....	....	7.10	8.73	10.31
1264	632	419	2.77	26H	4.138	72H	11.459	14.80	7.88	5.28	....	....	....	....	....	....	....
1250	625	414	2.80	30H	4.775	84H	13.369	16.59	9.03	6.08	....	....	....	....	....	....	....
....	....	406	2.86	14H	2.228	40H	6.366	....	....	2.86◇	4.80†	6.42†	7.99†	9.53	11.06	12.59	14.11
1167	583	387	3.00	40H	6.366	120H	19.099	20.08	11.79	8.03	....	....	....	....	....	....	....
1167	583	387	3.00	32H	5.093	96H	15.279	17.40	9.60	6.48	....	....	....	....	....	....	....
1167	583	387	3.00	28H	4.456	84H	13.369	15.74	8.46	5.68	....	....	....	....	....	....	....
1167	583	387	3.00	24H	3.820	72H	11.459	13.82	7.30	4.89	....	....	....	....	....	....	8.08
1167	583	387	3.00	20H	3.183	60H	9.549	11.77◇	6.11	4.08	....	....	....	....	7.30	8.93	10.52
....	583	387	3.00	16H	2.546	48H	7.639	....	4.91◇	3.27◇	....	....	6.50	8.10	9.67	11.22	12.75
1094	547	363	3.20	30H	4.775	96H	15.279	16.59	9.03	6.08	....	....	....	....	....	....	....
1084	542	359	3.23	26H	4.138	84H	13.369	14.80	7.88	5.28	....	....	....	....	....	....	....
1069	535	354	3.27	22H	3.501	72H	11.459	12.84	6.71	4.48	....	....	....	....	....	....	8.28
1050	525	348	3.33	18H	2.865	60H	9.549	10.71◇	5.52◇	3.68	....	....	....	....	7.50	9.14	10.77
1021	510	338	3.43	28H	4.456	96H	15.279	15.74	8.46	5.68	....	....	....	....	....	....	....
....	....	338	3.43	14H	2.228	48H	7.639	....	....	2.86◇	....	....	6.70†	8.95†	9.88†	11.44†	12.98
1000	500	331	3.50	24H	3.820	84H	13.369	13.82	7.30	4.89	....	....	....	....	....	....	....
972	486	322	3.60	20H	3.183	72H	11.459	11.77◇	6.11	4.08	....	....	....	....	....	....	8.47
948	474	314	3.69	26H	4.138	96H	15.279	14.80	7.88	5.28	....	....	....	....	....	....	....
933	467	309	3.75	32H	5.093	120H	19.099	17.40	9.60	6.48	....	....	....	....	....	....	....
....	467	309	3.75	16H	2.546	60H	9.549	....	4.91◇	3.27◇	....	....	....	....	7.69†	9.34†	10.94
916	458	304	3.82	22H	3.501	84H	13.369	12.84	6.71	4.48	....	....	....	....	....	....	....
875	438	290	4.00	30H	4.775	120H	19.099	16.59	9.03	6.08	....	....	....	....	....	....	....
875	438	290	4.00	24H	3.820	96H	15.279	13.82	7.30	4.89	....	....	....	....	....	....	....
875	438	290	4.00	18H	2.865	72H	11.459	10.71◇	5.52◇	3.68	....	....	....	....	....	....	8.67
833	417	276	4.20	20H	3.183	84H	13.369	11.77◇	6.11	4.08	....	....	....	....	....	....	....
817	408	271	4.29	28H	4.456	120H	19.099	15.74	8.46	5.68	....	....	....	....	....	....	....
....	....	271	4.29	14H	2.228	60H	9.549	....	....	2.86◇	....	....	....	6.12‡	7.89‡	9.55†	11.15†
802	401	266	4.36	22H	3.501	96H	15.279	12.84	6.71	4.48	....	....	....	....	....	....	....
....	389	258	4.50	16H	2.546	72H	11.459	....	4.91◇	3.27◇	....	....	....	....	....	....	8.86†
758	379	251	4.62	26H	4.138	120H	19.099	14.80	7.88	5.28	....	....	....	....	....	....	....
749	375	248	4.67	18H	2.865	84H	13.369	10.71◇	5.52	3.68	....	....	....	....	....	....	....
729	365	242	4.80	20H	3.183	96H	15.279	11.77◇	6.11	4.08	....	....	....	....	....	....	....
700	350	232	5.00	24H	3.820	120H	19.099	13.82	7.30	4.89	....	....	....	....	....	....	....
....	....	226	5.14	14H	2.228	72H	11.459	....	....	2.86◇	....	....	....	....	....	7.22§	9.05†
....	333	221	5.25	16H	2.546	84H	13.369	....	4.91◇	3.27◇	....	....	....	....	....	....	....
656	323	217	5.33	18H	2.865	96H	15.279	10.71◇	5.52◇	3.68	....	....	....	....	....	....	....
642	321	213	5.45	22H	3.501	120H	19.099	12.84	6.71	4.48	....	....	....	....	....	....	....
583	294	193	6.00	20H	3.183	120H	19.099	11.77◇	6.11	4.08	....	....	....	....	....	....	....
....	292	193	6.00	16H	2.546	96H	15.219	....	4.91◇	3.27◇	....	....	....	....	....	....	....
....	....	193	6.00	14H	2.228	84H	13.369	....	....	2.86◇	....	....	....	....	....	....	....
525	262	174	6.67	18H	2.865	120H	19.099	10.71◇	5.52◇	3.68◇	....	....	....	....	....	....	....
....	....	169	6.86	14H	2.228	96H	15.279	....	....	3.27◇	....	....	....	....	....	....	....
....	233	155	7.50	16H	2.546	120H	19.099	....	4.91◇	2.86◇	....	....	....	....	....	....	....
....	....	135	8.57	14H	2.228	120H	19.099	....	....	....	....	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	SPECIFICATIONS PAGE PT10-3	SELECTION PAGE PT10-14	ENGINEERING/TECHNICAL PAGE PT10-44
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## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H
14.06	15.58	17.09	18.61	20.35	21.63	23.14	24.64	26.65	29.16	31.67	34.18	36.68	41.69	46.70	54.21	61.71	76.73
11.87	13.42	14.95	16.48	18.00	19.52	21.04	22.56	24.58	27.09	29.61♥	32.12♥	34.63♥	39.65♥	44.66♥	52.17♥	56.69♥	74.70♥
9.55	11.15	12.73	14.29	15.83	17.37	18.90	20.43	22.46	24.99	27.52	30.04	32.55	37.58♥	42.60♥	50.13♥	57.64♥	72.67♥
....	....	10.35	11.98	13.57	15.14	16.70	18.25	20.30	22.85	25.39	27.95	30.46	35.50	40.53♥	48.07♥	55.59♥	70.63♥
15.62	17.13	18.65	20.15	21.66	23.17	23.67	26.18	28.19	30.69	33.20	35.70	38.21	43.21	48.22	55.72	63.23	78.24
....	....	....	....	....	....	....	....	13.47	16.24	18.92	21.56	24.16	29.31	34.42	42.03	49.60	64.70♥
....	....	....	....	11.34	12.99	14.81	16.20	18.29	20.88	23.45	26.01	28.55	33.62	38.67	46.23♥	53.77♥	68.62♥
....	....	10.55	12.18	13.78	15.36	16.92	18.47	20.52	23.08	25.62	28.16	30.69	35.73♥	40.77♥	48.31♥	55.83♥	70.87♥
9.75	11.36	12.94	14.50	16.05	17.59	19.13	20.65	22.69	26.22	27.75	30.27	32.79♥	37.82♥	42.84♥	50.37♥	57.88♥	72.91♥
12.09	13.63	15.17	16.70	18.23	19.75	21.27	22.79	24.81	27.32♥	29.84♥	32.35♥	38.87♥	39.88♥	44.90♥	52.42♥	59.93♥	94.95♥
14.28	15.80	17.32	18.84	20.35	21.86	23.37	24.88	26.89	29.40	31.91	34.42	36.92	41.93	46.94	54.45	81.96	76.97
....	....	....	....	11.54	13.20	14.81	16.41	18.51	21.10	23.67	26.23	28.79	33.85	38.90♥	46.46♥	54.00♥	69.06♥
....	9.05	10.75	12.39	13.99	15.57	17.13	18.68	20.74	23.30	25.85	28.38	30.91	35.96♥	41.00♥	48.54♥	56.07♥	71.11♥
9.95	11.56	13.15	14.72	16.27	17.81	19.35	20.88	22.91	25.45	27.98	30.50♥	33.02♥	38.05♥	43.08♥	50.61♥	58.12♥	73.15♥
12.30	13.85	15.39	16.93	18.46	19.98	21.50	23.02♥	25.04♥	27.56♥	30.07♥	32.59♥	35.10♥	40.12♥	45.14♥	52.66♥	60.17♥	75.19♥
....	....	....	....	11.73	13.40	15.02	16.62	18.72	21.32	23.89	26.45	29.00	34.08	39.13♥	46.70♥	54.24♥	69.30♥
14.51	16.03	17.55	19.07	20.58	22.09	23.61	25.11	27.13	29.64	32.15	34.68	37.16	42.17	47.18	54.70	62.20	77.22♥
....	9.24	10.95	12.59	14.20	15.78	17.35	18.90	20.96	23.52	26.07	28.61	31.14♥	36.20♥	41.23♥	48.78♥	56.35♥	71.35♥
10.15	11.77	13.36	14.93	16.49	18.03	19.57	21.10	23.14	25.68♥	28.21♥	30.73♥	33.25♥	38.29♥	43.31♥	50.84♥	58.36♥	73.40♥
....	....	....	10.19	11.93	13.60	15.23	16.83	18.93	21.53	24.11	26.67	29.23	34.31♥	39.36♥	46.93♥	54.48♥	69.54♥
....	....	....	....	....	....	....	....	14.25	17.05	19.75	22.40	25.02	30.19	35.31	42.94♥	50.52♥	65.64♥
12.51	14.07	15.61	17.15	18.66	21.20	21.73♥	23.26♥	25.27♥	27.79♥	30.31♥	32.82♥	35.34♥	40.36♥	45.38♥	52.90♥	60.41♥	75.43♥
....	9.43	11.14	12.79	14.40	15.99	17.56	19.12	21.18	23.74	26.30	28.84♥	31.37♥	36.43♥	41.47♥	49.01♥	56.54♥	71.59♥
....	....	....	....	....	....	....	....	14.44	17.25	19.96	22.61	25.23	30.41	35.53	43.16♥	50.75♥	65.87♥
....	....	....	10.38	12.12	13.80	15.43	17.03	19.14	21.75	24.33	27.00	29.45	34.53♥	39.59♥	47.16♥	54.71♥	69.78♥
10.35	11.98	13.57	15.14	16.70	18.25	19.79	21.32	23.36♥	25.90♥	28.44♥	30.96♥	33.48♥	38.52♥	43.55♥	51.08♥	58.60♥	73.64♥
....	9.62	11.34	12.99	14.61	16.20	17.77	19.33	21.40	23.97	26.52♥	29.06♥	31.60♥	36.66♥	41.70♥	49.25♥	56.78♥	71.83♥
....	....	....	....	....	....	....	....	14.63	17.45	20.16	22.82	25.45	30.63	35.76	43.39♥	50.98♥	66.11♥
12.73†	14.29†	15.83†	17.37	21.95♥	18.90♥	20.43♥	23.47♥	25.50♥	28.02♥	30.54♥	33.06♥	35.57♥	40.60♥	45.61♥	53.14♥	60.65♥	75.67♥
....	....	....	10.57	12.32	14.00	15.63	17.24	19.36	21.96	24.55	27.12	29.67♥	34.76♥	39.82♥	47.39♥	54.94♥	70.01♥
10.55†	12.1†	13.78	15.36	16.92	18.47	20.01	21.55♥	23.59♥	26.13♥	28.66♥	31.19♥	33.72♥	38.75♥	43.78♥	51.32♥	58.84♥	73.88♥
....	....	....	....	....	....	....	12.43	14.82	17.65	20.37	23.03	25.66	30.85	35.98♥	43.62♥	51.21♥	66.34♥
....	9.81†	11.54	13.20	14.82	15.41	17.99	19.55	21.62	24.19♥	26.74♥	29.29♥	31.83♥	36.89♥	41.93♥	49.48♥	57.02♥	72.07♥
....	....	....	10.75	12.51	14.20	15.84	17.45	19.57	22.18	24.77	27.34♥	29.90♥	34.99♥	40.05♥	47.63♥	55.18♥	70.25♥
....	....	....	....	....	....	....	....	15.02	17.84	20.57	23.24	25.87	31.06♥	36.20♥	43.84♥	51.44♥	66.57♥
10.75†	12.39†	13.99†	15.57†	17.13†	18.69†♥	20.23†♥	21.77♥	23.81♥	26.35♥	28.89♥	31.42♥	33.95♥	38.99♥	44.02♥	51.55♥	59.08♥	74.12♥
....	10.00†	11.73†	13.40	15.02	16.62	18.20	19.76	21.84♥	24.39♥	26.96♥	29.51♥	32.08♥	37.12♥	42.16♥	49.72♥	57.25♥	72.31♥
....	....	....	10.94†	12.71†	14.40	16.04	17.65	19.78	22.39	24.98♥	27.56♥	30.12♥	35.21♥	40.28♥	47.86♥	55.41♥	70.49♥
....	....	....	....	....	....	....	12.79	15.21	18.04	20.78	23.45	26.08	31.28♥	36.42♥	44.07♥	51.6♥	66.81♥
....	....	....	....	....	....	....	12.98†	15.40	18.24	20.98	23.66	26.29♥	31.50♥	36.64♥	44.29♥	51.90♥	67.04♥
....	....	9.20§	11.13‡	12.90	14.59†	16.24†	17.86	19.99	22.61♥	25.20♥	27.78♥	30.34♥	35.44♥	40.51♥	48.09♥	55.65♥	70.73♥
8.30§	10.19‡	11.93‡	13.60†	15.23†	16.83†	18.41†♥	19.98†	22.05†♥	24.63†♥	27.19♥	29.74♥	32.28♥	37.34♥	42.39♥	49.95♥	57.49♥	72.55♥
....	....	9.37§	11.31‡	13.09‡	....	....	13.16†	15.59†	18.44	21.18	23.86♥	26.51♥	31.71♥	36.86♥	44.52♥	52.13♥	67.27♥
....	....	....	....	....	14.79‡	16.44†	18.07†♥	20.19†♥	22.82†♥	25.42†♥	27.99†♥	30.56†♥	35.66♥	40.74♥	48.32♥	55.88♥	70.96♥
....	....	....	....	....	....	....	13.64‡	15.78†	18.64†	21.38†♥	24.07♥	26.72†	31.93♥	37.08♥	44.74♥	52.35♥	67.50♥
....	....	....	....	....	....	11.49§	13.53§	15.97‡	18.83‡♥	21.59†♥	24.28†♥	26.93†♥	32.14†♥	37.30♥	44.97♥	52.58♥	67.74♥

### H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

### Teeth in Mesh factor (T.I.M)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1
†	5	0.8

### Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	0.6
§	3	0.4



# SELECTION

## XH Stock Drive Selections

	Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			
					Driver		Driven					
	1750	1160	870		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	1750	1160	870	
V-Drives	1750	1160	870	1.00	40XH	11.141	40XH	11.141	22.22	17.44	13.79	
	1750	1160	870	1.00	32XH	8.913	32XH	8.913	19.87	14.57	11.29	
	1750	1160	870	1.00	30XH	8.356	30XH	8.356	19.06	13.79	10.63	
	1750	1160	870	1.00	28XH	7.799	28XH	7.799	18.16	12.97	9.97	
	1750	1160	870	1.00	26XH	7.241	26XH	7.241	17.17	12.13	9.29	
	FHP Drives	1750	1160	870	1.00	24XH	6.685	24XH	6.685	16.14◇	11.29	8.61
		1750	1160	870	1.00	22XH	6.127	22XH	6.127	15.03◇	10.41◇	7.92
		1750	1160	870	1.00	20XH	5.570	20XH	5.570	13.85◇	9.51◇	7.23◇
					1.00	18XH	5.013	18XH	5.013	....	8.61	6.52◇
		1641	1088	816	1.07	30XH	8.356	32XH	8.913	19.06	13.79	10.63
Drive Component Accessories		1633	1083	812	1.07	28XH	7.799	30XH	8.356	18.16	12.97	9.97
		1625	1077	808	1.08	26XH	7.241	28XH	7.799	17.17	12.13	9.29
		1615	1071	803	1.08	24XH	6.685	26XH	7.241	16.14◇	11.29	8.61
		1604	1063	798	1.09	22XH	6.127	24XH	6.685	15.03◇	10.41◇	7.92
		1591	1055	791	1.10	20XH	5.570	22XH	6.127	13.85◇	9.51◇	7.23◇
		1044	783	1.11	18XH	5.013	20XH	5.570	....	8.61◇	6.52◇	
	1531	1015	761	1.14	28XH	7.799	32XH	8.913	18.16	12.97	9.97	
	1517	1005	754	1.15	26XH	7.241	30XH	8.356	17.17	12.13	9.29	
	1500	994	746	1.17	24XH	6.685	28XH	7.799	16.14◇	11.29	8.61	
	1481	982	736	1.18	22XH	6.127	26XH	7.241	15.03◇	10.41◇	7.92	
DYNA-SYNC	1458	967	725	1.20	40XH	11.141	48XH	13.369	22.22	17.44	13.79	
	1458	967	725	1.20	20XH	5.570	24XH	6.685	13.85	9.51◇	7.23◇	
		949	712	1.22	18XH	5.013	22XH	6.127	....	8.61◇	6.52◇	
	1422	943	707	1.23	26XH	7.241	32XH	8.913	17.17	12.13	9.29	
	1400	928	696	1.25	32XH	8.913	40XH	11.141	19.87	14.57	11.29	
	1400	928	696	1.25	24XH	6.685	30XH	8.356	16.14◇	11.29	8.61	
	1375	911	684	1.27	22XH	6.127	28XH	7.799	15.03◇	10.41◇	7.92	
	1346	892	669	1.30	20XH	5.570	26XH	7.241	13.85◇	9.51◇	7.23◇	
	1313	870	653	1.33	30XH	8.356	40XH	11.141	19.06	13.79	10.63	
	1313	870	653	1.33	24XH	6.685	32XH	8.913	16.14◇	11.29	8.61	
HT200/HTD Synchronous Drives		870	653	1.33	18XH	5.013	24XH	6.685	....	8.61◇	6.52◇	
	1283	851	638	1.36	22XH	6.127	30XH	8.356	15.03◇	10.41◇	7.92	
	1250	829	621	1.40	20XH	5.570	28XH	7.799	13.85◇	9.51◇	7.23◇	
	1225	812	609	1.43	28XH	7.799	40XH	11.141	18.16	12.97	9.97	
		803	602	1.44	18XH	5.013	26XH	7.241	....	8.61◇	6.52◇	
	1203	798	598	1.45	22XH	6.127	32XH	8.913	15.03◇	10.41◇	7.92	
	1167	773	580	1.50	40XH	11.141	60XH	16.711	22.22	17.44	13.79	
	1167	773	580	1.50	32XH	8.913	48XH	13.369	19.87	14.57	11.29	
	1167	773	580	1.50	20XH	5.570	30XH	8.356	13.85◇	9.51◇	7.23◇	
	1138	754	566	1.54	26XH	7.241	40XH	11.141	17.17	12.13	9.29	
Synchronous Drives		746	559	1.56	18XH	5.013	28XH	7.799	....	8.61◇	6.52◇	
	1094	725	544	1.60	30XH	8.356	48XH	13.369	19.06	13.79	10.63◇	
	1094	725	544	1.60	20XH	5.570	32XH	8.913	13.85◇	9.51◇	7.23◇	
	1050	696	522	1.67	24XH	6.685	40XH	11.141	16.14◇	11.29	8.61	
		696	522	1.67	18XH	5.013	30XH	8.356	....	8.61◇	6.52◇	
	1021	677	508	1.71	28XH	7.799	48XH	13.369	18.16	12.97	9.97	
		653	489	1.78	18XH	5.013	32XH	8.913	....	8.61◇	6.52◇	
	972	644	483	1.80	40XH	11.141	72XH	20.054	22.22	17.44	13.79	
	963	638	479	1.82	22XH	6.127	40XH	11.141	15.03◇	10.41◇	7.92	

Δ HP ratings are for conventional speed-reduction drives.

♥ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

Synchronous Drives

HTRC Synchronous Drives

# SELECTION



## XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

507XH	560XH	630XH	700XH	770XH	840XH	980XH	1120XH	1260XH	1400XH	1540XH	1750XH
....	....	14.00	17.50	21.00	24.50	31.50	38.50	45.50	52.50	59.50	70.00
11.37	14.00	17.50	21.00	24.50	28.00	35.00	42.00	49.00	56.00	63.00	73.50
12.25	14.87	18.37	21.87	25.37	28.87	35.87	42.87	49.87	56.87	63.87	74.37
13.12	15.75	19.25	22.75	26.25	29.75	36.75	43.75	50.75	57.75	64.75	75.25
14.00	16.62	20.12	23.62	27.12	30.62	37.62	44.62	51.62	58.62	65.62	76.12
14.87	17.50	21.00	24.50	28.00	31.50	38.50	45.50	52.50	59.50	66.50	77.00
15.75	18.37	21.87	25.37	28.87	32.37	39.37	46.37	53.37	60.37	67.37	77.87
16.62	19.25	22.75	26.25	29.75	33.25	40.25	47.25	54.25	61.25	68.25	78.75
17.50	20.12	23.62	27.12	30.62	34.12	41.12	48.12	55.12	62.12	69.12	79.62
11.80	14.43	17.93	21.43	24.93	28.43	35.43	42.43	49.43	56.43	63.43	73.93
12.68	15.31	18.81	22.31	25.81	29.31	36.31	43.31	50.31	57.31	64.31	74.81
13.56	16.18	19.68	23.18	26.68	30.18	37.18	44.18	51.18	58.18	65.18	75.68
14.43	17.06	20.56	24.06	27.56	31.06	38.06	45.06	52.06	59.06	66.06	76.56
15.31	17.93	21.43	24.93	28.43	31.93	38.93	45.93	52.93	59.93	66.93	77.43
16.18	18.81	22.31	25.81	29.31	32.81	39.81	46.81	53.81	60.81	67.81	78.31
17.06	19.68	23.18	26.68	30.18	33.68	40.68	47.68	54.68	61.68	68.68	79.18
12.23	14.86	18.36	21.86	25.36	28.87	35.87	42.87	49.87	56.87	63.87	74.37
13.11	15.74	19.24	22.74	26.24	29.74	36.74	43.74	50.74	57.74	64.74	75.24
13.98	16.61	20.11	23.61	27.12	30.62	37.62	44.62	51.62	58.62	65.62	76.12
14.66	17.49	20.99	24.49	27.99	31.49	38.49	45.49	52.49	59.49	66.49	76.99
....	....	....	15.71	19.21	22.72	29.72	36.73	43.73	50.73	57.74	68.24
15.74	18.36	21.86	25.36	28.87	32.37	39.37	46.37	53.37	60.37	67.37	77.87
16.61	19.24	22.74	26.24	29.74	33.24	40.24	47.24	54.24	61.24	68.24	78.74
12.66	15.29	18.79	22.29	25.79	29.30	36.30	43.30	50.30	57.30	64.30	74.80
....	....	....	12.19	15.71	19.21	22.72	26.22	33.23	40.23	47.23	54.23
13.53	16.16	19.67	23.17	26.67	30.17	37.17	44.18	51.18	58.18	65.18	75.68
14.41	17.04	20.54	24.04	27.55	31.05	38.05	45.05	52.05	59.05	66.05	76.55
15.29	17.91	21.42	24.92	28.42	31.92	38.92	45.93	52.93	59.93	66.93	77.43
....	....	....	12.61	16.12	19.63	23.14	26.65	33.65	40.66	47.66	54.67
13.07	15.71	19.21	22.72	26.22	29.72	36.73	43.73	50.73	57.74	64.74	75.24
16.16	18.79	22.29	25.79	29.30	32.80	39.80	46.80	53.80	60.80	67.80	78.30
13.95	16.58	20.09	23.59	27.10	30.60	37.60	44.61	51.61	58.61	65.61	76.11
14.83	17.46	20.97	24.47	27.97	31.48	38.48	45.48	52.48	59.49	66.49	76.99
10.36	13.01	16.54	20.05	23.56	27.07	34.08	41.09	48.09	55.10	62.10	72.60
15.71	18.34	21.84	25.35	28.85	32.35	39.35	46.36	53.36	60.36	67.36	77.86
13.49	16.12	19.63	23.14	26.65	30.15	37.16	44.16	51.16	58.17	65.17	75.67
....	....	....	....	16.38	19.93	26.98	34.01	41.03	48.04	55.05	65.56
....	....	13.82	17.35	20.88	24.39	31.42	38.43	45.44	52.45	59.45	69.96
14.37	17.00	20.51	24.02	27.52	31.03	38.03	45.04	52.04	59.04	66.04	76.55
10.76	13.42	16.95	20.47	23.98	27.49	34.50	41.50	48.52	55.52	62.53	73.03
15.24	17.88	21.39	24.89	28.40	31.90	38.91	45.91	52.91	59.92	66.92	77.42
....	....	14.21	17.76	21.29	24.81	31.83	38.85	45.86	52.87	59.88	70.39♥
13.89	16.54	20.05	23.56	27.07	30.58	37.58	44.59	51.59	58.60	65.60	76.10
11.15	13.82	17.35	20.88	24.39	27.91	34.92	41.94	48.94	55.95	62.96	73.46
14.78	17.42	20.93	24.44	27.95	31.45	38.45	45.46	52.47	59.47	66.47	76.98
....	11.02	14.60	18.16	21.69	25.22	32.25	39.27	46.29	53.30	60.31	70.82♥
14.30	16.95	20.47	23.98	27.49	31.00	38.01	45.02	52.02	59.03	66.03	76.53
....	....	....	....	....	16.90	24.08	31.18	38.24	45.28	52.31	62.84
11.54	14.21	17.76	21.29	24.81	28.32	35.34	42.36	49.37	56.38	63.38	73.89

### XH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8	9	10	11	12	13	14
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400

Shaded area indicates stock belt widths

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# SELECTION

## XH Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ		
				Driver		Driven				
				No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.			
1750	1160	870					1750	1160	870	
948	628	471	1.85	26XH	7.241	48XH	13.369	17.17	12.13	9.29
933	618	464	1.88	32XH	8.913	60XH	16.711	19.87	14.57	11.29
875	580	435	2.00	30XH	8.356	60XH	16.711	19.06	13.79	10.63
875	580	435	2.00	24XH	6.685	48XH	13.369	16.14◇	11.29	8.61
875	580	435	2.00	20XH	5.570	40XH	11.141	13.85◇	9.51◇	7.23◇
833	552	414	2.10	40XH	11.141	84XH	23.396	22.22	17.44	13.79
817	541	407	2.14	28XH	7.799	60XH	16.711	18.16	12.97	9.97
802	531	399	2.18	22XH	6.127	48XH	13.369	15.03◇	10.41◇	7.92
....	523	392	2.22	18XH	5.013	40XH	11.141	....	8.61◇	6.52◇
778	516	387	2.25	32XH	8.913	72XH	20.054	19.87	14.57	11.29
758	502	377	2.31	26XH	7.241	60XH	16.711	17.17	12.13	9.29
729	483	363	2.40	40XH	11.141	96XH	26.738	22.22	17.44	13.79
729	483	363	2.40	30XH	8.356	72XH	20.054	19.06	13.79	10.63
729	483	363	2.40	20XH	5.570	48XH	13.369	13.85◇	9.51◇	7.23◇
700	464	348	2.50	24XH	6.685	60XH	16.711	16.14◇	11.29	8.61
681	451	339	2.57	28XH	7.799	72XH	20.054	18.16	12.97	9.97
667	442	331	2.63	32XH	8.913	84XH	23.396	19.87	14.57	11.29
....	434	326	2.67	18XH	5.013	48XH	13.369	....	8.61◇	6.52◇
642	425	319	2.73	22XH	6.127	60XH	16.711	15.03◇	10.41◇	7.92
632	419	314	2.77	26XH	7.241	72XH	20.054	17.17	12.13	9.29
625	414	311	2.80	30XH	8.356	84XH	23.396	19.06	13.79	10.63
583	387	290	3.00	40XH	11.141	120XH	33.423	22.22	17.44	13.79
583	387	290	3.00	32XH	8.913	96XH	26.738	19.87	14.57	11.29
583	387	290	3.00	28XH	7.799	84XH	23.396	18.16	12.97	9.97
583	387	290	3.00	24XH	6.685	72XH	20.054	16.14◇	11.29	8.61
583	387	290	3.00	20XH	5.570	60XH	16.711	13.85◇	9.51◇	7.23◇
547	363	272	3.20	30XH	8.356	96XH	26.738	19.06	13.79	10.63
542	359	269	3.23	26XH	7.241	84XH	23.396	17.17	12.13	9.29
535	355	266	3.27	22XH	6.127	72XH	20.054	15.03◇	10.41◇	7.92
....	348	261	3.33	18XH	5.013	60XH	16.711	....	8.61◇	6.52◇
510	338	254	3.43	28XH	7.799	96XH	26.738	18.16	12.97	9.97
500	331	249	3.50	24XH	6.685	84XH	23.396	16.14◇	11.29	8.61
486	322	242	3.60	20XH	5.570	72XH	20.054	13.85◇	9.51◇	7.23◇
474	314	236	3.69	26XH	7.241	96XH	26.738	17.17	12.13	9.29
467	309	232	3.75	32XH	8.913	120XH	33.423	19.87	14.57	11.29
458	304	228	3.82	22XH	6.127	84XH	23.396	15.03◇	10.41	7.92
438	290	218	4.00	30XH	8.356	120XH	33.423	19.06	13.79◇	10.63
438	290	218	4.00	24XH	6.685	98XH	26.738	16.14◇	11.29	8.61
....	290	218	4.00	18XH	5.013	72XH	20.054	....	8.61◇	6.52◇
416	276	207	4.20	20XH	5.570	84XH	23.396	13.85◇	9.51◇	7.23◇
408	270	203	4.29	28XH	7.799	120XH	33.423	18.16	12.97	9.97
401	266	200	4.36	22XH	6.127	96XH	26.738	15.03◇	10.41◇	7.92
379	251	188	4.62	26XH	7.241	120XH	33.423	17.17	12.13	9.29
....	249	186	4.67	18XH	5.013	84XH	23.396	....	8.61◇	6.52◇
365	242	181	4.80	20XH	5.570	96XH	26.738	13.85◇	9.51◇	7.23◇
350	232	174	5.00	24XH	6.685	120XH	33.423	16.14◇	11.29	8.61
....	217	162	5.33	18XH	5.013	96XH	26.738	....	8.61◇	6.52◇
321	212	159	5.45	22XH	6.127	120XH	33.423	15.03	10.41◇	7.92
292	193	145	6.00	20XH	5.570	120XH	33.423	13.85◇	9.51◇	7.23◇
....	174	130	6.67	18XH	5.013	120XH	33.423	....	8.61◇	6.52◇

Δ HP ratings are for conventional speed-reduction drives.

† † See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

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V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives

# SELECTION



## XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

507XH	560XH	630XH	700XH	770XH	840XH	980XH	1120XH	1260XH	1400XH	1540XH	1750XH
....	11.39	14.99	18.55	22.10	25.63	32.66	39.69	46.71	53.72	60.73	71.24
....	....	....	14.34	17.95	21.52	28.60	35.66	42.69	49.72	56.74	67.26
....	....	....	14.71	18.33	21.91	29.01	36.07	43.11	50.13	57.15	67.68♥
....	11.77	15.38	18.95	22.50	26.03	33.08	40.11	47.13	54.14♥	61.15♥	71.67♥
11.92	14.60	18.16	21.69	25.22	28.74	35.76	42.78	49.79	56.80	63.81	74.32
....	....	....	....	....	....	20.97	28.20	35.34	42.43	49.49	60.06
....	....	....	15.08	18.71	22.30	29.41	36.47	43.52	50.55	57.57	68.10♥
....	12.14	15.77	19.34	22.90	26.43	33.49	40.52	47.54	54.56♥	61.58♥	72.09♥
12.30	14.99	18.55	22.10	25.83	29.15	36.18	43.20	50.21	57.23	64.24	74.75
....	....	....	....	....	18.40	25.64	32.77	39.86	46.91	53.96	64.50
....	....	....	15.45	19.09	22.69	29.81	36.88	43.93	50.96	57.99♥	68.52♥
....	....	....	....	....	....	....	25.02	32.30	39.47	46.59	57.21
....	....	....	....	15.03	18.76	26.02	33.17	40.26	47.32	54.37	64.92
....	12.51	16.15	19.73	23.29	26.84	33.90	40.94	47.96♥	54.98♥	62.00♥	72.52♥
....	....	....	15.82	19.47	23.07	30.20	37.28	44.34	51.38	58.41♥	68.94♥
....	....	....	....	15.38	19.13	26.41	33.56	40.66	47.73	54.78	65.33♥
....	....	....	....	....	....	22.44	29.73	36.91	44.02	51.11	61.70
10.05	12.87	16.53	20.12	23.69	27.24	34.30	41.35♥	48.38♥	55.40♥	62.42♥	72.94♥
....	....	12.41	16.19	19.85	23.46	30.60	37.69	44.74	51.79♥	58.82♥	69.36♥
....	....	....	....	15.74	19.50	26.79	33.95	41.06	48.13	55.19	65.75♥
....	....	....	....	....	....	22.81	30.11	37.30	44.42	51.51	62.10
....	....	....	....	....	....	....	....	25.52	33.10	40.45	51.28
....	....	....	....	....	....	18.85	26.48	33.81	41.02	48.17	58.82
....	....	....	....	....	....	23.17	30.49	37.69	44.82	51.91	62.51♥
....	....	....	....	16.09	19.86	27.17	34.34	41.46	48.53	55.59♥	66.16♥
....	....	12.76	16.55	20.22	23.84	30.99	38.09	45.15♥	52.20♥	59.23♥	69.77♥
....	....	....	....	....	....	19.19	26.84	34.19	41.41	48.56	59.22
....	....	....	....	....	15.82	27.55	34.73	38.07	48.94	52.31	62.91♥
....	....	....	....	16.44	20.22	23.53	30.87	41.85	45.21	56.00♥	66.57♥
....	....	13.11	16.91	20.60	24.22	31.39	38.49	45.56♥	52.61♥	59.65♥	70.19♥
....	....	....	....	....	....	19.53	27.21	34.57	41.79	48.95	59.62
....	....	....	....	....	16.16	23.89	31.25	38.46	45.60	52.71	63.32♥
....	....	....	....	16.78	20.58	27.93	35.12	42.25	49.34♥	56.41♥	66.98♥
....	....	....	....	....	....	19.87	27.57	34.94	42.18	49.34	60.01♥
....	....	....	....	....	....	....	....	26.90	34.55	41.94	52.82
....	....	....	....	....	16.49	24.25	31.62	38.84	46.00	53.10♥	63.72♥
....	....	....	....	....	....	....	....	27.25	34.91	42.31	53.20
....	....	....	....	....	....	20.20	27.93	35.31	42.56	49.73	60.41♥
....	....	....	13.08†	17.13	20.94	28.30	35.51	42.64♥	49.74♥	56.81♥	67.39♥
....	....	....	....	....	16.83	24.61	32.00	39.23	46.39♥	53.50♥	64.13♥
....	....	....	....	....	....	....	....	27.59	35.27	42.68	53.58
....	....	....	....	....	....	20.54	28.28	35.69	42.94	50.12♥	60.81♥
....	....	....	....	....	....	....	....	27.93	35.83	43.05	53.96
....	....	....	....	....	17.16†	24.97	32.37	39.61	46.78♥	53.90♥	64.53♥
....	....	....	....	....	....	20.88	28.64	36.06	43.32	50.51♥	61.20♥
....	....	....	....	....	....	....	....	28.27	35.98	43.42	54.34♥
....	....	....	....	....	....	21.21	29.00	36.43	43.70♥	50.89♥	61.60♥
....	....	....	....	....	....	....	....	28.61	36.34	43.79	54.72♥
....	....	....	....	....	....	....	20.40†	28.95	36.69	44.16	55.10♥
....	....	....	....	....	....	....	20.71‡	29.29	37.05	44.52♥	55.48♥

### XH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8	9	10	11	12	13	14
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400

### Teeth in Mesh factor (T.I.M)

Table Symbol	No. of Teeth in Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth in Mesh In Small Pulley	Factor
‡	4	.60

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# SELECTION

## XL Stock Drive Selections

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys												
	10XL .637 P.D.	11XL .700 P.D.	12XL .764 P.D.	14XL .891 P.D.	15XL .955 P.D.	16XL 1.019 P.D.	18XL 1.146 P.D.	20XL 1.273 P.D.	21XL 1.337 P.D.	22XL 1.401 P.D.	24XL 1.528 P.D.	28XL 1.783 P.D.	30XL 1.910 P.D.
100	.02	.02	.02	.03	.03	.03	.04	.04	.04	.04	.05	.06	.06
200	.04	.04	.05	.06	.06	.07	.07	.08	.08	.09	.10	.11	.12
300	.06	.07	.07	.09	.09	.10	.11	.12	.13	.13	.14	.17	.18
400	.08	.09	.10	.11	.12	.13	.14	.16	.17	.17	.19	.23	.24
500	.10	.11	.12	.14	.15	.16	.18	.20	.21	.22	.24	.29	.30
600	.12	.13	.14	.17	.18	.19	.22	.24	.26	.27	.29	.34	.37
700	.14	.15	.17	.20	.21	.23	.26	.28	.30	.31	.34	.40	.43
800	.16	.17	.19	.23	.24	.26	.30	.33	.34	.36	.40	.48	.49
900	.18	.20	.22	.26	.27	.30	.33	.37	.39	.40	.44	.51	.55
1000	.20	.22	.24	.29	.31	.33	.37	.41	.43	.45	.49	.57	.62
1100	.22	.25	.26	.31	.34	.36	.40	.45	.47	.49	.54	.63	.68
1160	.23	.26	.28	.33	.36	.38	.42	.46	.50	.52	.56	.66	.71
1200	.24	.27	.29	.34	.37	.39	.44	.49	.52	.54	.59	.68	.74
1300	.26	.29	.31	.37	.40	.42	.48	.53	.56	.58	.64	.74	.80
1400	.28	.31	.34	.40	.43	.46	.52	.57	.60	.63	.69	.80	.86
1500	.30	.34	.36	.43	.46	.49	.55	.61	.64	.67	.74	.86	.92
1600	.33	.36	.40	.46	.49	.53	.59	.65	.69	.72	.79	.91	.98
1700	.35	.38	.42	.49	.52	.56	.63	.67	.73	.77	.83	.97	1.04
1750	.36	.39	.43	.50	.53	.58	.64	.72	.75	.79	.86	1.00	1.07
1800	.37	.40	.44	.51	.55	.59	.66	.74	.77	.81	.88	1.03	1.10
2000	.41	.45	.49	.57	.62	.65	.74	.82	.86	.90	.98	1.15	1.23
2200	.45	.49	.54	.63	.68	.72	.81	.90	.94	.99	1.08	1.25	1.34
2400	.49	.54	.59	.68	.74	.79	.88	.98	1.03	1.07	1.18	1.37	1.46
2600	.53	.58	.64	.74	.80	.85	.96	1.06	1.12	1.17	1.25	1.48	1.58
2800	.57	.63	.69	.80	.86	.92	1.03	1.15	1.20	1.26	1.37	1.59	1.71
3000	.61	.67	.74	.86	.92	.98	1.10	1.23	1.28	1.34	1.46	1.71	1.82
3200	.65	.72	.79	.91	.98	1.05	1.18	1.30	1.37	1.43	1.56	1.81	1.94
3400	.69	.77	.83	.97	1.04	1.11	1.25	1.38	1.45	1.52	1.66	1.92	2.05
3500	.72	.79	.86	1.00	1.07	1.15	1.28	1.42	1.49	1.57	1.71	1.98	2.11
3600	.74	.81	.88	1.03	1.10	1.18	1.32	1.46	1.54	1.61	1.75	2.03	2.16
3800	.78	.83	.93	1.09	1.17	1.24	1.39	1.54	1.62	1.70	1.84	2.13	2.27
4000	.82	.90	.98	1.15	1.23	1.30	1.46	1.63	1.71	1.78	1.94	2.24	2.39
4200	.86	.94	1.03	1.20	1.28	1.37	1.53	1.71	1.76	1.86	2.03	2.35	2.50
4400	.90	.99	1.08	1.25	1.34	1.43	1.61	1.78	1.86	1.95	2.12	2.45	2.61
4600	.94	1.03	1.13	1.31	1.40	1.50	1.68	1.86	1.95	2.04	2.21	2.55	2.71
4800	.98	1.07	1.18	1.37	1.46	1.56	1.75	1.94	2.03	2.13	2.30	2.65	2.82
5000	1.02	1.12	1.23	1.42	1.52	1.63	1.82	2.01	2.11	2.20	2.39	2.75	2.92
5500	....	....	....	....	1.67	1.78	2.00	2.20	2.30	2.41	2.61	2.99	3.18
6000	....	....	....	....	1.82	1.94	2.16	2.39	2.50	2.61	2.82	3.23	3.41
6500	....	....	....	....	1.96	2.09	2.34	2.57	2.69	2.80	3.03	3.42	3.64
7000	....	....	....	....	2.11	2.24	2.50	2.75	2.87	2.99	3.23	3.65	3.84
7500	....	....	....	....	2.25	2.39	2.66	2.92	3.05	3.18	3.41	3.84	4.03
8000	....	....	....	....	....	....	2.82	3.10	3.23	3.34	3.59	4.02	4.21
8500	....	....	....	....	....	....	2.97	3.26	3.39	3.52	3.76	4.19	4.37
9000	....	....	....	....	....	....	3.13	3.41	3.55	3.68	3.92	4.34	4.51
9500	....	....	....	....	....	....	3.28	3.56	3.70	3.83	4.07	4.47	4.63
10000	....	....	....	....	....	....	3.41	3.71	3.84	3.97	4.21	4.59	4.72

### XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

Shaded area indicates stock belt widths.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

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# SELECTION

## L Stock Drive Selections

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys																		
	10L 1.194 P.D.	12L 1.432 P.D.	13L Δ 1552 P.D.	14L 1.671 P.D.	15L Δ 1.790 P.D.	16L 1.910 P.D.	17L 2.029 P.D.	18L 2.149 P.D.	19L 2.268 P.D.	20L 2.387 P.D.	21L 2.507 P.D.	22L 2.626 P.D.	24L 2.865 P.D.	26L 3.104 P.D.	28L 3.342 P.D.	30L 3.581 P.D.	32L 3.820 P.D.	40L 4.775 P.D.	48L 5.730 P.D.
100	.050	.06	.07	.07	.08	.08	.09	.09	.10	.10	.11	.12	.13	.14	.15	.16	.17	.21	.25
200	.100	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22	.23	.25	.27	.29	.31	.33	.42	.50
300	.160	.19	.20	.22	.23	.25	.27	.28	.30	.31	.33	.34	.38	.41	.44	.47	.50	.63	.75
400	.210	.25	.27	.29	.31	.33	.35	.38	.40	.42	.44	.46	.50	.54	.58	.62	.67	.83	1.00
500	.260	.31	.34	.37	.39	.42	.44	.47	.50	.52	.55	.57	.63	.68	.73	.78	.83	1.04	1.24
600	.310	.37	.41	.44	.47	.50	.53	.56	.59	.63	.66	.69	.75	.81	.87	.94	1.00	1.24	1.49
700	.370	.44	.47	.51	.55	.58	.62	.66	.69	.73	.77	.80	.87	.95	1.02	1.09	1.16	1.45	1.73
800	.420	.50	.54	.58	.62	.67	.71	.75	.79	.83	.87	.92	1.00	1.08	1.16	1.24	1.32	1.85	1.97
870	.450	.54	.59	.63	.68	.73	.77	.82	.86	.91	.95	1.00	1.08	1.17	1.26	1.35	1.44	1.79	2.14
900	.470	.56	.61	.66	.70	.75	.80	.84	.89	.94	.98	1.03	1.12	1.21	1.30	1.40	1.49	1.65	2.21
1000	.520	.62	.68	.73	.78	.83	.89	.94	.99	1.04	1.09	1.14	1.24	1.34	1.45	1.55	1.65	2.05	2.44
1100	.570	.69	.75	.80	.86	.92	.97	1.03	1.08	1.14	1.20	1.25	1.36	1.48	1.59	1.70	1.81	2.25	2.67
1160	.600	.72	.79	.85	.91	.97	1.03	1.08	1.14	1.20	1.26	1.32	1.44	1.56	1.67	1.79	1.91	2.36	2.81
1200	.630	.750	.81	.88	.94	1.00	1.06	1.12	1.18	1.24	1.30	1.36	1.49	1.61	1.73	1.85	1.97	2.44	2.90
1300	.680	.810	.88	.95	1.01	1.08	1.15	1.21	1.28	1.34	1.41	1.48	1.61	1.74	1.87	2.00	2.13	2.63	3.12
1400	.730	.870	.95	1.02	1.09	1.16	1.23	1.30	1.38	1.45	1.52	1.59	1.73	1.87	2.01	2.15	2.29	2.82	3.34
1500	.780	.940	1.020	1.09	1.16	1.24	1.32	1.40	1.47	1.55	1.62	1.70	1.85	2.00	2.15	2.30	2.44	3.01	3.55
1600	.830	1.000	1.080	1.16	1.24	1.32	1.41	1.49	1.57	1.65	1.73	1.81	1.97	2.13	2.28	2.44	2.60	3.20	3.76
1700	.890	1.060	1.150	1.23	1.32	1.41	1.49	1.58	1.66	1.75	1.83	1.92	2.09	2.26	2.42	2.59	2.75	3.38	3.97
1750	.910	1.090	1.170	1.27	1.36	1.45	1.54	1.62	1.71	1.80	1.89	1.98	2.15	2.32	2.49	2.66	2.83	3.47	4.06
1800	....	1.120	1.210	1.300	1.39	1.49	1.58	1.67	1.76	1.85	1.94	2.03	2.21	2.38	2.56	2.73	2.90	3.55	4.16
1900	....	1.180	1.270	1.380	1.47	1.57	1.66	1.76	1.85	1.95	2.04	2.14	2.32	2.51	2.69	2.87	3.05	3.73	4.35
2000	....	1.240	1.350	1.450	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.44	2.63	2.82	3.01	3.19	3.89	4.54
2200	....	1.360	1.480	1.590	1.70	1.81	1.92	2.03	2.14	2.25	2.35	2.46	2.67	2.88	3.08	3.28	3.49	4.23	4.89
2400	....	1.490	1.610	1.730	1.85	1.97	2.09	2.21	2.32	2.44	2.56	2.67	2.90	3.12	3.34	3.56	3.76	4.54	5.21
2500	....	1.550	1.680	1.800	1.920	2.05	2.17	2.30	2.42	2.54	2.66	2.78	3.01	3.24	3.47	3.68	3.90	4.69	5.35
2600	....	1.610	1.740	1.870	2.000	2.13	2.26	2.38	2.51	2.63	2.76	2.88	3.12	3.36	3.59	3.81	4.03	4.83	5.48
2800	....	1.730	1.870	2.010	2.140	2.29	2.42	2.56	2.69	2.82	2.96	3.09	3.34	3.59	3.83	4.06	4.29	5.10	5.73
3000	....	1.850	2.000	2.150	2.290	2.44	2.59	2.73	2.87	3.01	3.15	3.29	3.55	3.81	4.06	4.30	4.54	5.35	5.94
3200	....	....	2.130	2.280	2.440	2.60	2.74	2.90	3.04	3.19	3.34	3.48	3.76	4.03	4.29	4.54	4.77	5.57	6.11
3400	....	....	2.260	2.420	2.580	2.75	2.91	3.07	3.22	3.37	3.53	3.67	3.97	4.24	4.50	4.76	4.99	5.78	6.23
3500	....	....	2.320	2.490	2.650	2.83	2.99	3.15	3.31	3.46	3.62	3.77	4.06	4.35	4.61	4.86	5.10	5.87	6.27
3600	....	....	....	2.550	2.730	2.900	3.070	3.23	3.39	3.55	3.71	3.86	4.16	4.45	4.72	4.97	5.21	5.95	6.31
3800	....	....	....	2.690	2.860	3.030	3.220	3.40	3.56	3.73	3.89	4.05	4.35	4.64	4.91	5.16	5.40	6.09	6.33
4000	....	....	....	2.830	3.000	3.200	3.370	3.56	3.73	3.89	4.06	4.23	4.54	4.83	5.10	5.34	5.57	6.21	6.31
4200	....	....	....	....	3.150	3.340	3.530	3.72	3.88	4.06	4.23	4.40	4.72	5.01	5.28	5.52	5.74	6.28	6.23
4400	....	....	....	....	3.280	3.490	3.670	3.86	4.04	4.22	4.40	4.57	4.89	5.19	5.44	5.68	5.88	6.33	6.09†
4600	....	....	....	....	3.410	3.630	3.820	4.01	4.20	4.38	4.56	4.73	5.05	5.34	5.59	5.82	6.01	6.35	5.89†
4800	....	....	....	....	3.540	3.770	3.960	4.17	4.35	4.54	4.72	4.89	5.20	5.48	5.73	5.94	6.12	6.32	5.63†
5000	....	....	....	....	3.670	3.910	4.100	4.310	4.500	4.68	4.86	5.04	5.35	5.63	5.86	6.06	6.20	6.26	5.30†
5200	....	....	....	....	3.810	4.030	4.230	4.450	4.630	4.82	5.01	5.18	5.48	5.76	5.98	6.15	6.27	6.16†	4.91†
5400	....	....	....	....	3.930	4.170	4.370	4.590	4.770	4.96	5.14	5.31	5.61	5.88	6.07	6.23	6.32	6.01†	4.44†
5600	....	....	....	....	4.050	4.290	4.500	4.720	4.910	5.09	5.28	5.44	5.73	5.98	6.16	6.28	6.34	5.83†	3.89†
5800	....	....	....	....	4.170	4.420	4.620	4.840	5.040	5.22	5.40	5.57	5.84	6.07	6.23	6.32	6.34	5.60†	3.27†
6000	....	....	....	....	4.290	4.50	4.750	4.970	5.150	5.34	5.52	5.68	5.93	6.15	6.28	6.35	6.33	5.32†	2.57†

### L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

Shaded area indicates stock belt widths.

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

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# SELECTION

## H Stock Drive Selections

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys																
	14H 2.228 P.D.	16H 2.546 P.D.	17H 2.706 P.D.	18H 2.865 P.D.	19H 3.024 P.D.	20H 3.183 P.D.	21H 3.342 P.D.	22H 3.501 P.D.	24H 3.820 P.D.	26H 4.138 P.D.	28H 4.456 P.D.	30H 4.775 P.D.	32H 5.039 P.D.	36H Δ 5.730 P.D.	40H 6.366 P.D.	44H Δ 7.003 P.D.	48H 7.639 P.D.
100	.25	.28	.30	.32	.34	.35	.37	.39	.42	.46	.50	.53	.57	.64	.71	.78	.85
200	.50	.57	.60	.64	.67	.71	.74	.78	.85	.92	.99	1.06	1.13	1.27	1.41	1.56	1.70
300	.74	.85	.90	.96	1.01	1.06	1.11	1.17	1.27	1.38	1.49	1.59	1.70	1.91	2.12	2.33	2.54
400	.99	1.13	1.20	1.27	1.34	1.41	1.49	1.56	1.70	1.84	1.98	2.12	2.26	2.54	2.82	3.10	3.38
500	1.24	1.41	1.50	1.59	1.68	1.77	1.86	1.94	2.12	2.30	2.47	2.65	2.82	3.17	3.52	3.87	4.22
600	1.49	1.70	1.80	1.91	2.02	2.12	2.23	2.33	2.54	2.75	2.96	3.17	3.38	3.80	4.22	4.64	5.05
700	1.73	1.98	2.10	2.23	2.35	2.47	2.59	2.72	2.96	3.21	3.45	3.70	3.94	4.43	4.91	5.40	5.88
800	1.98	2.26	2.40	2.54	2.68	2.82	2.96	3.10	3.38	3.66	3.94	4.22	4.50	5.05	5.60	6.15	6.69
870	2.15	2.46	2.61	2.76	2.91	3.07	3.22	3.37	3.68	3.98	4.28	4.58	4.89	5.49	6.08	6.67	7.26
900	2.23◇	2.54	2.70	2.86	3.01	3.17	3.33	3.49	3.80	4.11	4.43	4.74	5.05	5.67	6.29	6.89	7.50
1000	2.47◇	2.82	3.00	3.17	3.35	3.52	3.70	3.87	4.22	4.57	4.91	5.26	5.60	6.29	6.96	7.63	8.30
1100	2.72◇	3.10	3.30	3.49	3.68	3.87	4.06	4.26	4.64	5.02	5.40	5.77	6.15	6.90	7.63	8.36	9.08
1160	2.86◇	3.27	3.47	3.68	3.88	4.08	4.28	4.48	4.89	5.28	5.68	6.08	6.48	7.26	8.03	8.80	9.55
1200	....	3.38◇	3.59	3.80	4.01	4.22	4.43	4.64	5.05	5.46	5.88	6.29	6.69	7.50	8.30	9.08	9.86
1300	....	3.66◇	3.89	4.12	4.34	4.57	4.79	5.01	5.46	5.91	6.35	6.79	7.23	8.10	8.95	9.79	10.62
1400	....	3.94◇	4.19	4.43	4.67	4.91	5.15	5.39	5.87	6.35	6.83	7.30	7.77	8.69	9.60	10.49	11.36
1500	....	4.22◇	4.48◇	4.74	5.00	5.26	5.51	5.77	6.28	6.79	7.30	7.80	8.30	9.28	10.24	11.18	12.09
1600	....	4.50◇	4.78◇	5.05	5.33	5.60	5.87	6.15	6.69	7.23	7.77	8.30	8.82	9.86	10.87	11.85	12.80
1700	....	4.77◇	5.07◇	5.36	5.65	5.94	6.23	6.52	7.10	7.67	8.23	8.79	9.34	10.43	11.49	12.51	13.50
1750	....	4.91◇	5.22◇	5.52	5.81	6.11	6.41	6.71	7.30	7.88	8.46	9.03	9.60	10.71	11.79	12.84	13.84
1800	....	5.05◇	5.36◇	5.67◇	5.98	6.28	6.59	6.89	7.50	8.10	8.69	9.28	9.86	10.99	12.09	13.15	14.18
1900	....	5.42◇	5.66◇	5.98◇	6.30	6.62	6.94	7.26	7.90	8.53	9.15	9.76	10.36	11.55	12.69	13.78	14.83
2000	....	5.60	5.95◇	6.28◇	6.62	6.96	7.30	7.63	8.29	8.95	9.60	10.24	10.87	12.10	13.27	14.40	15.46
2100	....	....	....	6.59◇	6.94	7.29	7.65	8.00	8.69	9.37	10.05	10.71	11.36	12.63	13.84	14.99	16.08
2200	....	....	....	6.89◇	7.26	7.63	8.00	8.36	9.08	9.79	10.49	11.18	11.85	13.16	14.40	15.57	16.66
2300	....	....	....	7.20◇	7.58	7.96	8.34	8.72	9.47	10.21	10.93	11.64	12.33	13.68	14.94	16.13	17.23
2400	....	....	....	7.50◇	7.90	8.29	8.69	9.08	9.85	10.62	11.37	12.09	12.80	14.18	15.46	16.66	17.76
2500	....	....	....	7.80◇	8.21◇	8.62	9.03	9.44	10.23	11.02	11.80	12.54	13.27	14.68	15.98	17.18	18.27
2600	....	....	....	8.10◇	8.52◇	8.95	9.37	9.79	10.61	11.42	12.22	12.98	13.72	15.16	16.47	17.67	18.75
2800	....	....	....	8.69◇	9.14◇	9.59	10.04	10.49	11.35	12.21	13.05	13.84	14.61	16.09	17.41	18.60	19.63
3000	....	....	....	9.28◇	9.75◇	10.23	10.70	11.18	12.08	12.98	13.85	14.67	15.46	16.96	18.27	19.42	20.38
3200	....	....	....	9.85◇	10.36◇	10.85	11.35	11.85	12.79	13.72	14.63	15.46	16.27	17.78	19.06	20.14	20.99
3400	....	....	....	10.43◇	10.95◇	11.47	11.99	12.51	13.48	14.45	15.37	16.22	17.03	18.53	19.76	20.75	21.46†
3500	....	....	....	10.71◇	11.24◇	11.77	12.31	12.84	13.82	14.80	15.74	16.59	17.40	18.89	20.08	21.01	21.63†
3600	....	....	....	....	....	12.07◇	12.62	13.16	14.16	15.15	16.09	16.95	17.75	19.22	20.37	21.24†	21.77†
3800	....	....	....	....	....	12.67◇	13.23	13.79	14.81	15.82	16.78	17.63	18.42	19.85	20.89	21.60†	21.92†
4000	....	....	....	....	....	13.24◇	13.82	14.40	15.44	16.46	17.43	18.27	19.04	20.40	21.31†	21.83†	21.90†
4200	....	....	....	....	....	13.81◇	14.41	15.00	16.04	17.08	18.05	18.87	19.61	20.88	21.62†	21.93†	21.70†
4400	....	....	....	....	....	14.36◇	14.97	15.57	16.63	17.67	18.62	19.42	20.12	21.27†	21.83†	21.87†	21.32†
4600	....	....	....	....	....	14.90◇	15.52◇	16.13	17.18	18.22	19.16	19.90	20.57	21.58†	21.82†	21.67†	20.73†
4800	....	....	....	....	....	15.42◇	16.05◇	16.67	17.71	18.74	19.66	20.37	20.96	21.81†	21.89†	21.30†	19.93†
5000	....	....	....	....	....	15.93◇	16.56◇	17.19	18.22	19.23	20.12	20.77	21.29†	21.95†	21.73†	20.77†	....
5200	....	....	....	....	....	16.41◇	17.05◇	17.69	18.69	19.68	20.53	21.11†	21.54†	21.99†	21.44†	20.06†	....
5400	....	....	....	....	....	18.89◇	17.53◇	18.16◇	19.13	20.09	20.90	21.39†	21.73†	21.93†	21.02†	....	....
5600	....	....	....	....	....	17.34◇	17.98◇	18.61◇	19.55	20.47	21.22†	21.62†	21.85†	21.76†	20.45†	....	....
5800	....	....	....	....	....	17.77◇	18.41◇	19.04◇	19.93	20.80	21.49†	21.78†	21.89†	21.50†	19.75†	....	....
6000	....	....	....	....	....	18.19◇	18.82◇	19.41◇	20.27	21.10†	21.70†	21.88†	21.85†	21.12†	....	....	....

### H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

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V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives



## XH Basic Horsepower Ratings

## XXH Basic Horsepower Ratings

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys										RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys									
	18 XH	20 XH	22 XH	24 XH	26 XH	28 XH	30 XH	32 XH	40 XH	18 XXH		20 XXH	22 XXH	24 XXH	26 XXH	30 XXH	32 XXH	40 XXH			
	5.013 P.D.	5.570 P.D.	6.127 P.D.	6.685 P.D.	7.241 P.D.	7.799 P.D.	8.356 P.D.	8.913 P.D.	11.141 P.D.	7.162 P.D.		7.958 P.D.	8.753 P.D.	9.549 P.D.	10.345 P.D.	11.937 P.D.	13.528 P.D.	15.915 P.D.			
100	0.76◇	0.84	0.93	1.01	1.11	1.18	1.26	1.34	1.68	100	1.33◇	1.48	1.83	1.77	1.92	2.21	2.51	2.95			
200	1.51◇	1.68	1.85	2.02	2.19	2.36	2.52	2.69	3.37	200	2.66◇	2.95	3.24	3.54	3.84	4.42	5.00	5.87			
300	2.28◇	2.52	2.78	3.03	3.28	3.54	3.78	4.03	5.02	300	3.98◇	4.42	4.85	5.29	5.72	6.58	7.45	8.73			
400	3.03◇	3.37	3.70	4.03	4.37	4.70	5.02	5.36	6.66	400	5.29◇	5.87	6.44	7.02	7.60	8.73	9.85	11.49			
480	3.63◇	4.03	4.43	4.82	5.22	5.62	6.00	6.40	7.95	480	6.33◇	7.02	7.70	8.39	9.06	10.40	11.71	13.61			
500	3.78◇	4.20◇	4.61	5.02	5.44	5.85	6.26	6.71	8.26	500	6.63◇	7.31◇	8.02	8.73	9.43	10.81	12.17	14.13			
510	3.86◇	4.29◇	4.71	5.12	5.54	5.97	6.37	6.80	8.42	510	6.72◇	7.45◇	8.17	8.89	9.61	11.02	12.39	14.39			
570	4.30◇	4.77◇	5.25	5.72	6.17	6.65	7.10	7.56	9.36	570	7.50◇	8.31◇	9.11	9.90	10.68	12.23	13.73	15.89			
600	4.53◇	5.02◇	5.52	6.00	6.50	6.98	7.47	7.95	9.82	600	7.88◇	8.73◇	9.57	10.40	11.22	12.83	14.39	16.62			
680	5.12◇	5.68◇	6.24	6.80	7.34	7.88	8.42	8.96	11.04	680	8.89◇	9.85◇	10.78	11.71	12.62	14.39	16.09	18.49			
700	5.27◇	5.84◇	6.42	6.98	7.54	8.10	8.66	9.21	11.35	700	9.15◇	10.13◇	11.09	12.03	12.96	14.77	16.51	18.93			
800	6.00◇	6.66◇	7.31	7.95	8.59	9.21	9.83	10.44	12.80	800	10.40◇	11.49◇	12.56	13.62	14.64	16.62	18.49	21.02			
870	6.52◇	7.23◇	7.92	8.61	9.29	9.97	10.63	11.29	13.79	870	10.85◇	12.43◇	13.56	14.70	15.79	17.88	19.78	22.34			
900	6.74◇	7.46◇	8.19◇	8.90	9.59	10.29	10.97	11.64	14.18	900	11.69◇	12.83◇	14.00◇	15.15	16.23	18.37	20.31	22.86			
1000	7.47◇	8.26◇	9.05◇	9.82	10.59	11.35	12.08	12.80	15.51	1000	12.83◇	14.14◇	15.40◇	16.62	17.80	20.01	21.98	24.44			
1100	8.19◇	9.05◇	9.91◇	10.75	11.56	12.38	13.15	13.92	16.74	1100	14.00◇	15.40◇	16.94◇	18.00	19.26	21.50	23.45	25.70			
1160	8.61◇	9.51◇	10.41◇	11.29	12.13	12.97	13.79	14.57	17.44	1160	14.70◇	16.14◇	17.52◇	18.84	20.01	22.34	24.23	26.29			
1200	....	9.83◇	10.75◇	11.64◇	12.51	13.37	14.29	14.99	17.89	1200	....	16.62◇	18.03◇	19.37◇	20.62	22.88	24.71	26.62			
1300	....	10.59◇	11.57◇	12.51◇	13.44	14.32	15.18	16.01	18.94	1300	....	17.80◇	19.26◇	19.88◇	21.88	24.07	26.75	27.18			
1400	....	11.35◇	12.37◇	13.37◇	14.32	15.25	16.14	16.98	19.87	1400	....	18.93◇	20.41◇	21.79◇	23.03	26.10	26.54	27.33			
1500	....	12.08◇	13.15◇	14.19◇	15.18	16.14	17.03	17.89	20.71	1500	....	19.19◇	21.50◇	22.88◇	24.07	26.95	27.06	27.05			
1600	....	12.80◇	13.92◇	14.99◇	16.01	16.98	17.14	18.82	21.42	1600	....	21.02◇	22.52◇	23.84◇	24.98	26.62	27.32	26.33†			
1700	....	13.50◇	14.66◇	15.76◇	16.80	17.78	18.68	19.51	21.99	1700	....	21.99◇	23.45◇	24.71◇	25.75	27.07	27.27	25.11†			
1750	....	13.85◇	15.03◇	16.14◇	17.17	18.16	19.06	19.87	22.22	1750	....	22.43◇	23.88◇	25.11◇	26.08	27.22	27.12	24.31†			
1800	....	....	15.37◇	16.51◇	17.56◇	18.53	19.42	20.22	22.35	1800	....	22.87◇	24.29◇	26.47◇	26.38◇	27.31	26.89	23.36†			
1900	....	....	16.07◇	17.22◇	18.65◇	19.23	20.69	20.86	22.70	1900	....	23.69◇	25.04◇	26.11◇	26.86◇	27.31	26.18†	....			
2000	....	....	16.74◇	17.89◇	18.94◇	19.87	20.71	21.42	22.84	2000	....	24.44◇	25.70◇	26.62◇	27.18◇	27.08	26.11†	....			
2100	....	....	17.39◇	18.53◇	19.56◇	20.48	21.25	21.88	22.81	2100	....	25.11◇	26.24◇	27.00◇	27.33◇	26.56†	23.66†	....			
2200	....	....	18.00◇	19.43◇	20.14◇	21.01	21.72	22.27	22.61	2200	....	25.70◇	26.69◇	27.24◇	27.31◇	26.79†	....	....			
2300	....	....	18.58◇	19.70◇	20.67◇	21.47	22.11	22.55	22.30†	2300	....	26.21◇	27.03◇	27.33◇	27.09◇	24.74†	....	....			
2400	....	....	19.13◇	20.22◇	21.14◇	21.88	22.42	22.75	21.65†	2400	....	26.62◇	27.24◇	27.28◇	26.69†	23.36†	....	....			
2500	....	....	....	20.71◇	21.57◇	22.22◇	22.64	22.84	20.89†	2500	....	29.95◇	27.33◇	27.06◇	26.07†	....	....	....			
2600	....	....	....	21.14◇	21.94◇	22.49◇	22.80	22.82	19.92†	2600	....	27.18◇	27.30◇	26.69†	25.25†	....	....	....			
2800	....	....	....	21.89◇	22.49◇	22.81◇	22.81	22.47†	....	2800	....	27.34◇	26.83◇	25.40†	22.95†	....	....	....			
3000	....	....	....	22.42◇	22.80◇	22.81◇	22.44†	21.65†	....	3000	....	27.07◇	26.79	23.36†	....	....	....	....			
3200	....	....	....	22.75◇	22.82◇	22.47†◇	21.65†	20.33†	....	3200	....	....	....	....	....	....	....	....			
3400	....	....	....	22.84◇	22.58◇	21.78†◇	20.42†	18.48†	....	3400	....	....	....	....	....	....	....	....			
3500	....	....	....	22.81◇	22.34†◇	21.29†◇	19.64†	....	....	3500	....	....	....	....	....	....	....	....			
3600	....	....	....	22.71◇	22.02†◇	20.72†◇	18.73†	....	....	3600	....	....	....	....	....	....	....	....			
3800	....	....	....	22.31†◇	21.41†◇	19.22†◇	....	....	....	3800	....	....	....	....	....	....	....	....			
4000	....	....	....	21.65†◇	19.92†◇	....	....	....	....	4000	....	....	....	....	....	....	....	....			
4200	....	....	....	20.71†◇	18.33†◇	....	....	....	....	4200	....	....	....	....	....	....	....	....			
4400	....	....	....	19.47†◇	....	....	....	....	....	4400	....	....	....	....	....	....	....	....			

### XH, XXH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62	
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8	9	10	11	12	13	14	
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400	

Shaded area indicates stock belt widths.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

△ Stock with XXH Series only.

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## ENGINEERING/TECHNICAL

### Dimensions, Tolerances, etc.

Warning - Do not use DYNA-SYNC Pulleys with belt speed exceeding 6500 fpm. May cause pulleys to fragment resulting in personal injury or property damage.

#### Concentricity and Face Run-Out Tolerances

Runout (T.I.R. $\phi$ )	O.D.	Tol.
Radial	8" & under	.005"
	For each add'l. inch of O.D. add .0005"	
Axial	1" & Under	.001"
	For each add'l. inch of O.D. thru 10" add .001"	
	For each add'l. inch of O.D. over 10" add .0005"	

$\phi$ Total Indicator Reading

#### Reborable Pulley Bore Tolerances

Bore Size	Tol.
15/16" & Under	.0010" - .0000"
1" to 1-15/16"	.0015" - .0000"
2" to 2-15/16"	.0020" - .0000"
3" & Over	.0025" - .0000"

**Rebore Charges**—Reborable pulley alteration charges are shown in MLP Price Book. TAPER-LOCK pulleys accommodate all common tolerance variations found in commercial shafting.

**Balancing**—All DYNA-SYNC Pulleys have been given a careful static balance for operation up to 6500 FPM. When vibration is a problem, dynamic balancing is recommended – Consult price book MLP. (See Warning above)

**Special Pulleys**—In 1/5 thru 1-1/4" pitches, pulleys can be made to suit customer's specifications and may be furnished in sizes not listed on previous pages. Send us your inquiry.

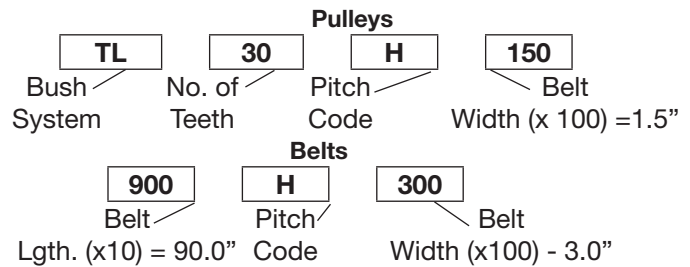
#### Standard Keyways

Bore Range	Keyway
5/16 - 7/16 Incl.	3/32 x 3/64
Over 7/16 - 9/16 Incl.	1/8 x 1/16
Over 9/16 - 7/8 Incl.	3/16 x 3/32
Over 7/8 - 1-1/4 Inc.	1/4 x 1/8
Over 1-1/4 - 1-3/8 Inc.	5/16 x 5/32
Over 1-3/8 - 1-3/4 Incl.	3/8 x 3/16
Over 1-3/4 - 2-1/4 Inc.	1/2 x 1/4
Over 2-1/4 - 2-3/4 Incl.	5/8 x 5/16
Over 2-3/4 - 3-1/4 Incl.	3/4 x 3/8

#### Pulley Outside Diameter/Diameter Over Belt

Pitch	Pulley O.D.	Diameter Over Belt
XL	P.D. - 0.02"	P.D. +0.08"
L	P.D. - 0.03"	P.D. +0.11"
H	P.D. - 0.054"	P.D. +0.11"
XH	P.D. - 0.11"	P.D. +0.27"
XXH	P.D. - 0.12"	.....

#### NOMENCLATURE



1/5" pitch (XL)	3/8" pitch (L)	1/2" pitch (H)	7/8" pitch (XH)	1-1/4" pitch (XXH)
Typical uses are shown below the Tooth Dimensions Sketches . . . .				
Business machines, instrumentation, sound equipment	FHP applications such as home appliances, small tools, pumps, blowers.	Machine tools, pumps, fans presses, motor-generator sets.	Medium-torque applications - such as heavy industrial equipment.	High torque applications - such as heavy industrial equipment

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## Installing / Tensioning DYNA-SYNC Drives

### Alignment

Use straight edge to check parallel and offset alignment. Align pulleys within 1/4° or 1/16" per foot center distance. Supporting framework must be rigid.

### Pulley Flanges

At least one pulley must have flanges. If center distance is more than 8 times the diameter of the smallest pulley, both pulleys should be flanged. Vertical shaft drives may require flanges on both pulleys.

### Installation

Reduce center distance so that belt can be slipped into place without forcing. Do not pry belt onto pulleys. Increase center distance to tighten belt. Belt should be snug, but not excessively tight. If belt has a tendency to "jump teeth" during operation, increase belt tension.

### Idlers

Adjustable center distance is preferred over idlers to tension belt. Idlers should be positioned on the slack side of the drive. Inside idlers are preferred over outside idlers. Idler diameter should be at least as large as the smallest pulley.

### TENSIONING THE DRIVE –

Simple Tensioning Procedure:

**Step 1** – Calculate the value of the deflection force "f" from the following formula, referring to drawing below.

$$\text{Force of Deflection } f = \frac{T + (S/L) K}{16}$$

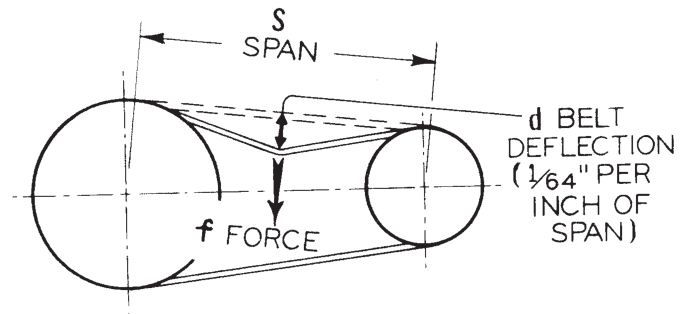
Where S = Span distance in inches

T = Tension in Lbs. from Table below

K = Constant from Table

L = Length of Belt

**Step 2** – Using a straight edge as a reference, apply enough force to deflect belt 1/64" for every inch of center span. If this force is less than the calculated "f", increase center distance of pulleys. If more than "f", decrease center distance of pulleys.



### Belt Deflection Force T and K Values

Belt Pitch	Values	Belt Width															
		#	1/4	3/8	1/2	5/8	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10
XL 1/5"	T	6.7	10	15	20	24.2	34.2	...	...	...	...	...	...	...	...	...	...
	K	.85	1.7	2.7	3.6	4.7	6.7	...	...	...	...	...	...	...	...	...	...
L 3/8"	T	...	11.4	17.1	22.1	27.9	39.3	61.4	...	...	...	...	...	...	...	...	...
	K	...	8.5	9.9	14	17	24	37	...	...	...	...	...	...	...	...	...
H 1/2"	T	...	...	39.3	53.3	66	93.3	145.3	200	254	313	444	574	700	...	...	
	K	...	...	17	22	32	46	71	95	125	152	210	265	320	...	...	
XH 7/8"	T	...	...	...	...	...	...	...	227	288	356	504	652	795	1094	1388	
	K	...	...	...	...	...	...	...	190	250	305	440	568	700	1080	1330	
XXH 1-1/4"	T	...	...	...	...	...	...	...	556	707	873	1238	1599	1950	2683	3406	
	K	...	...	...	...	...	...	...	310	410	500	710	920	1100	1500	...	

#T = Tension in Pounds; K = constant for above formula.

### Allowable Working Tension (Ta) Lbs.

Belt Pitch		Belt Width															
		1/4	3/8	1/2	5/8	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10	12
XL 1/5"	8	12	18	24	29	41	...	...	...	...	...	...	...	...	...	...	...
L 3/8"	...	16	24	31	39	55	86	118	150	185	...	...	...	...	...	...	...
H 1/2"	...	...	59	80	99	140	218	300	381	470	666	861	1050	...	...	...	...
XH 7/8"	...	...	...	...	...	...	...	409	519	641	908	1175	1431	1969	2499	3022	3552
XXH 1-1/4"	...	...	...	...	...	...	...	500	636	786	1114	1439	1755	2415	3065	3706	4357

Note: These values have not been corrected for centrifugal force loss.

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# NOTES

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HTR  
Synchronous Drives

HTRC  
Synchronous Drives