SYNCHRONOUS DRIVES

Stock Timing Pulleys

STOCK TIMING PULLEYS

1/5" - 7/8" PITCH

"Q.D." — TAPER BUSHED AND STOCK BORE

Stock Bore

Taper Bushed

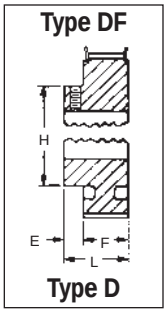
Q.D.

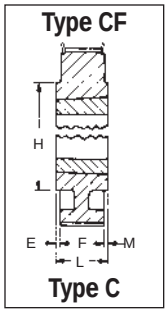
PITCH IN.	PULLEY DESIGNATION
1/5"	XL (Extra Light)
3/8"	L (Light)
1/2"	H (Heavy)
7/8"	XH (Extra Heavy)

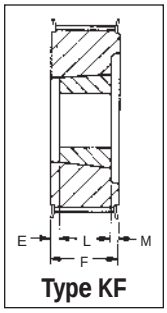
Timing Pulleys are manufactured to extremely close specifications and are stocked in minimum plain bore, Taper Bushed and Q.D. bushed styles depending on size and pitch.

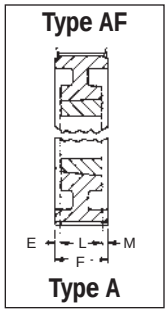
See tables for stock pulley types. Bushings are priced separately and must be added to pulley price.

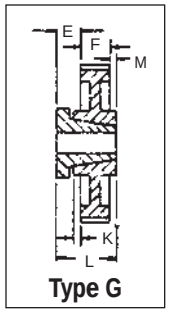
Illustrations below indicate stock pulley construction type listed in tables.

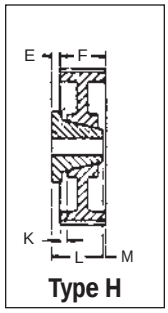


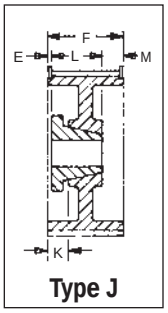












"F" designation in pulley type means pulley is flanged. When drive center distance is eight times the diameter of the smaller pulley or when drive is operating on vertical shafts, both pulleys should be flanged.

DEFINITION OF CATALOG NUMBERS

EX: TB 20L100
- TB — Requires Taper Bushing
- 20 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"

EX: 72L100SD
- 72 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"
- SD — Requires QD Bushing

EX: 16L100
- Min. Plain Bore

Pulley sizes shown stocked as stock bore only: max. bore listed is without keyway. If keyway is used reduce max. bore by twice kw depth.

Pulley Style Designation As Shown in Tables

Dash 1 = Block Body Style
Dash 2 = Web Style
Dash 3 = Arm/Spoke Style

Size XXH (1-1/4" Pitch).
Available as made-to-order.
Call your nearest Martin facility.

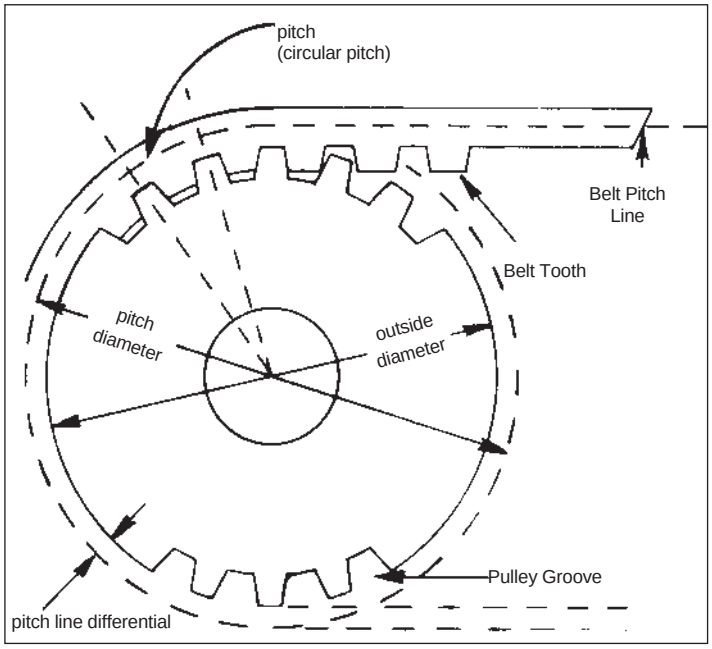
Let us quote your made-to-order and large quantity requirements.

PULLEYS

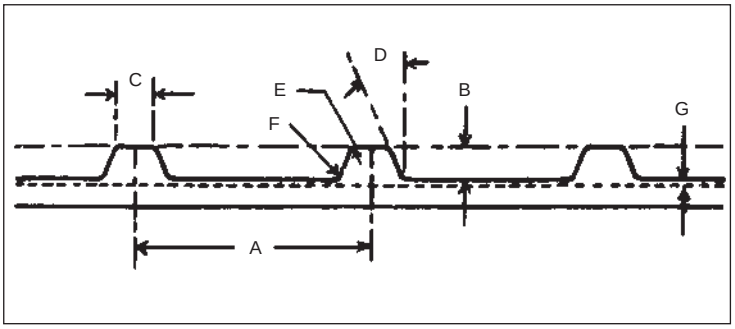
Timing Pulley Terminology

Timing belts and pulleys — in order to handle a wide range of loads, speeds and applications at highest possible efficiencies — are made in five stock pitches. Circular pitch (usually referred to as pitch) is a basic consideration in the selection of timing pulleys as with gear and chain drives. Pitch is the distance between groove centers and is measured on the pulley pitch circle. On the belt, pitch is the distance between tooth centers and is measured on the pitch line of the belt.

The pitch line of the belt is located within the tension member and coincides with the pitch circle of the pulley mating with it. Any timing belt must be run with pulleys of the same pitch. A belt of one pitch cannot be used successfully with pulleys of a different pitch.



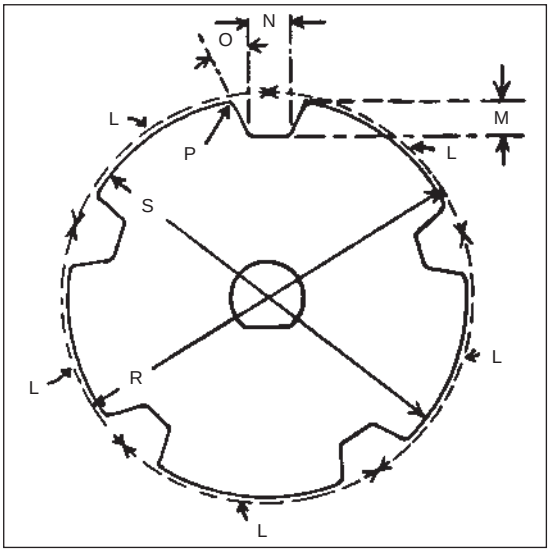
TIMING BELT TERMINOLOGY



A Pitch of Teeth
B Depth of Teeth
C Width at Bottom of Teeth
D Pressure Angle
E Radius at Bottom of Teeth
F Radius at Top of Teeth
G Pitch Line Differential

Belt P.L. = “A” X Total No. of Teeth in Belt

TIMING PULLEY TERMINOLOGY



L Circular Pitch of Groove
M Minimum Depth of Groove, Including Clearance
N Width of Groove at Minimum Depth, Including Clearance
O Pressure Angle
P Top Radius of Groove
R Pitch Diameter (Always > S)
S Outside Diameter

Timing Pulley Terminology

Timing Pulleys

Timing pulleys have evenly spaced axial grooves cut in their periphery to make correct, positive engagement with the mating teeth of the belt. These pulleys are designed so that the teeth of the belt enter and leave the grooves with negligible friction. All pulleys, stock and made-to-order, have minimum tooth-to-groove clearance (backlash). The pulley's pitch diameter will always be greater than its outside diameter. Pulleys are available in a wide range of stock widths and diameters.

Minimum Pulley Diameters

pitch	speed rpm	recommended minimum*	
		pitch diam. in.	no. of grooves
1/5 in. (XL)	3500	.764	12 XL
	1750	.637	10 XL
	1160	.637	10 XL
3/8 in. (L)	3500	1.910	16 L
	1750	1.671	14 L
	1160	1.432	12 L
1/2 in. (H)	3500	3.183	20 H
	1750	2.865	18 H
	1160	2.546	16 H
7/8 in. (XH)	1750	7.242	26 XH
	1160	6.685	24 XH
	870	6.127	22 XH
1 1/4 in. (XXH)	1750	10.345	26 XXH
	1160	9.549	24 XXH
	870	8.754	22 XXH

*Smaller diameter pulleys can be used if a corresponding reduction in belt service life is satisfactory.

Flanged Pulleys

Because timing belts have an inherent, gentle side thrust, it is necessary to use at least one flanged pulley to prevent the belt from riding off. Generally, for economy, the smaller pulley in each drive is flanged. However, when the center distance is greater than eight times the diameter of the smaller pulley on drive ratios less than 3 to 1, or when the drive is operated on other than horizontal shafts — both pulleys should be flanged. When a drive has three pulleys, at least two should be flanged. If the drive has more than three pulleys, every other pulley should be flanged.

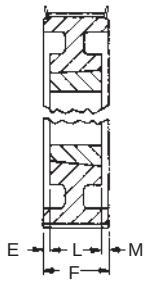
Pulley Diameters

Stock timing belts should not be used over pulley diameters less than those recommended above without expecting some reduction in belt life. This reduced belt life is the result of flex fatigue of the steel tension members in the belt. If pulleys smaller than recommended must be used, the use of special timing belts should be considered.

Stock Timing Pulleys

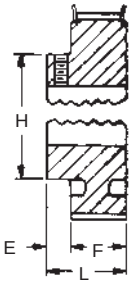
XL
1/5″ Pitch

Type AF



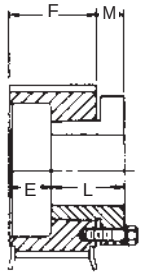
Type A

Type DF



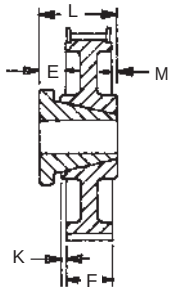
Type D

Type E



Type EF

Type GF



Type G

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" type description indicates flanged.

XL - 1/5″ Pitch

XL 037 For Belts 1/4″ and 3/8″ Wide
Minimum Plain Bore **F = 9/16**

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore		E	H	L	WT
					Stk.*	Max.				
10	10XL037	.637	.929	DF-1	3/16	1/4	7/32	7/16	25/32	.03
11	11XL037	.700	.929	DF-1	3/16	1/4	7/32	7/16	25/32	.04
12	12XL037	.764	.993	DF-1	3/16	5/16	7/32	1/2	25/32	.06
14	14XL037	.891	1.120	DF-1	1/4	3/8	7/32	9/16	25/32	.08
15	15XL037	.955	1.184	DF-1	1/4	7/16	7/32	5/8	25/32	.09
16	16XL037	1.019	1.248	DF-1	1/4	1/2	7/32	11/16	25/32	.10
18	18XL037	1.146	1.375	DF-1	1/4	9/16	7/32	13/16	25/32	.13
20	20XL037	1.273	1.502	DF-1	1/4	11/16	5/16	15/16	7/8	.18
21	21XL037	1.337	1.566	DF-1	1/4	11/16	5/16	15/16	7/8	.19
22	22XL037	1.401	1.630	DF-1	1/4	3/4	5/16	1	7/8	.22
24	24XL037	1.528	1.756	DF-1	1/4	13/16	5/16	1 1/16	7/8	.25
28	28XL037	1.783	2.011	DF-1	1/4	15/16	5/16	1 3/16	7/8	.34
30	30XL037	1.910	2.138	DF-1	5/16	1 1/16	5/16	1 3/8	7/8	.41
32	32XL037	2.037	—	D-1	5/16	1 3/16	7/16	1 1/2	1	.25
36	36XL037	2.292	—	D-1	5/16	1 3/16	7/16	1 1/2	1	.29
40	40XL037	2.546	—	D-1	5/16	1 3/16	7/16	1 1/2	1	.35
42	42XL037	2.674	—	D-2	5/16	1 3/16	7/16	1 1/2	1	.31
44	44XL037	2.801	—	D-2	5/16	1 3/16	7/16	1 1/2	1	.34
48	48XL037	3.056	—	D-2	5/16	1 3/16	7/16	1 1/2	1	.63
60	60XL037	3.820	—	D-2	3/8	1 3/16	7/16	1 1/2	1	.90
72	72XL037	4.584	—	D-2	3/8	1 3/16	7/16	1 1/2	1	.50

Note: XL Pulleys stocked min. plain bore with 2 setscrews @ 90°. If keyway is used, reduce max. bore by twice keyway depth.
Pulley O.D. = P.D. – .02″.

L
⅜″ Pitch

Stock Timing Pulleys

Martin

L - ⅜″ Pitch

L050 For Belts ½″ Wide
Minimum Plain Bore

F = ¼

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.*	Max.	E	H	L	
10	10L050	1.194	1 1/16	DF-1	⅜	9/16	⅜	13/16	1⅛	.28
12	12L050	1.432	1 43/64	DF-1	⅜	13/16	½	1 1/16	1¼	.30
13	13L050	1.552	1¾	DF-1	⅜	15/16	½	1⅛	1¼	.35
14	14L050	1.671	1 59/64	DF-1	⅜	⅞	½	1⅛	1¼	.40
15	15L050	1.790	2	DF-1	½	15/16	½	1⅛	1¼	.50
16	16L050	1.910	2 5/32	DF-1	½	1⅛	⅝	1 1/16	1⅜	.60
17	17L050	2.029	2 9/32	DF-1	½	1⅛	⅝	1½	1⅜	.65
18	18L050	2.149	2 25/64	DF-1	½	1 3/16	⅝	1⅝	1⅜	.75
19	19L050	2.268	2⅜	DF-1	½	1 3/16	⅝	1⅝	1⅜	.80
20	20L050	2.387	2⅜	DF-1	½	1¼	⅝	1 13/16	1⅜	.94
21	21L050	2.507	2¾	DF-1	½	1 5/16	11/16	1⅞	1 7/16	1.00
22	22L050	2.626	2⅞	DF-1	½	1½	¾	2	1½	1.10
24	24L050	2.865	3 7/64	DF-1	½	1⅜	¾	2¼	1½	1.60
26	26L050	3.104	3 11/32	DF-1	½	1⅜	¾	2½	1½	2.30
28	28L050	3.342	3 37/64	DF-1	½	1⅜	¾	2¾	1½	2.50
30	30L050	3.581	3 53/64	DF-1	½	1⅜	¾	2⅞	1½	2.70
32	32L050	3.820	4 1/16	DF-1	½	1⅞	⅞	3 1/16	1⅝	3.00

L Pulleys 10 - 16 teeth min. plain bore stocked with 1 set screw. If keyway is used, reduced maximum bore by twice keyway depth.
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″

L050 For Belts ½″ Wide (⅜″ Pitch)
QD Type

F = ¼

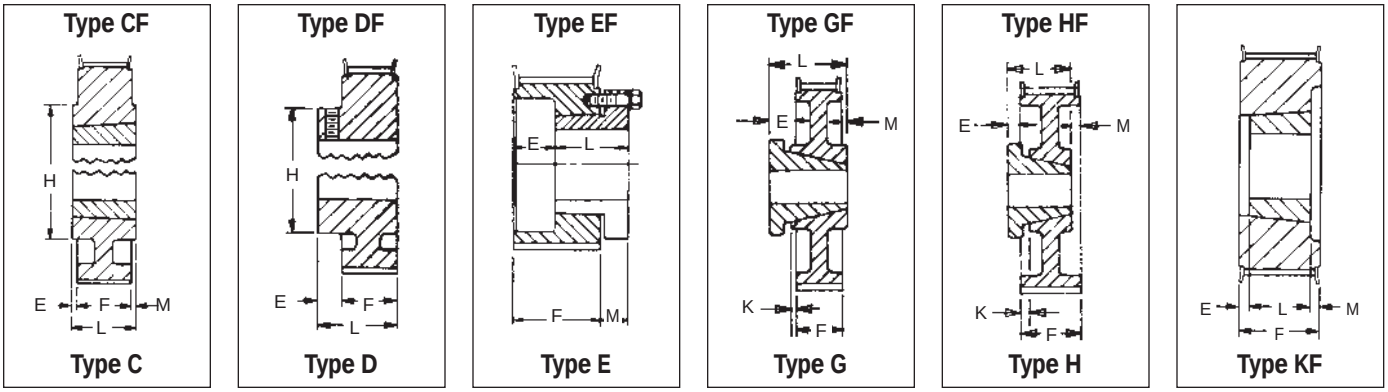
No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
18	18L050JA	2.149	2 25/64	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	.40
20	20L050JA	2.387	2⅜	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	.50
22	22L050JA	2.626	2⅝	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	.70
24	24L050SH	2.865	3 7/64	GF-1 +	SH	½-1 11/16	9/16	—	1 5/16	0	.70
26	26L050SH	3.104	3 11/32	GF-1 +	SH	½-1 11/16	9/16	0	1 5/16	0	1.00
28	28L050SH	3.342	3 37/64	GF-1 +	SH	½-1 11/16	9/16	0	1 5/16	0	1.10
30	30L050SDS	3.581	3 53/64	GF-1	SDS	½-2	⅝	0	1⅜	0	1.10
32	32L050SDS	3.820	4 1/16	GF-1	SDS	½-2	⅝	0	1⅜	0	1.40
36	36L050SDS	4.297	4 17/32	GF-1	SDS	½-2	⅝	0	1⅜	0	2.00
40	40L050SDS	4.775	5 1/64	GF-1	SDS	½-2	⅝	0	1⅜	0	2.80
44	44L050SDS	5.252	5 31/64	GF-1	SDS	½-2	⅝	0	1⅜	0	3.60
48	48L050SDS	5.730	6 1/64	GF-1	SDS	½-2	⅝	0	1⅜	0	4.40
60	60L050SD	7.162	—	G-3	SD	½-2	⅞	¼	1 13/16	¼	4.20
72	72L050SD	8.594	—	G-3	SD	½-2	⅞	¼	1 13/16	¼	6.60
84	84L050SD	10.027	—	G-3	SD	½-2	⅞	¼	1 13/16	¼	5.80

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″
*Reverse mount drilled only
+Bushing Projects 1/16 on Small End.

L050 Taper Bushed on Page K7

Stock Timing Pulleys

L
3/8″ Pitch



Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

L050 For Belts ½″ Wide (3/8″ Pitch)
Taper Bushed Type

F = ¾

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	L	M	Wt. Less Bush.
18	TB18L050	2.149	2 25/64	CF-1	1008	½-1	⅛	1⅝	⅞	—	0.45
20	TB20L050	2.387	2⅝	CF-1	1008	½-1	⅛	1 11/16	⅞	—	0.68
22	TB22L050	2.626	2⅞	CF-1	1008	½-1	⅛	2	⅞	—	0.90
24	TB24L050	2.865	3 7/64	CF-1	1210	½-1¼	¼	2¼	1	—	1.00
26	TB26L050	3.104	3 11/32	CF-1	1210	½-1¼	¼	2½	1	—	1.20
28	TB28L050	3.342	3 37/64	CF-1	1610	½-1¼	¼	2¾	1	—	1.40
30	TB30L050	3.581	3 53/64	CF-1	1610	½-1⅜	¼	2⅞	1	—	1.50
32	TB32L050	3.820	4 1/16	CF-1	1610	½-1⅜	¼	3 1/16	1	—	1.90
40	TB40L050	4.775	5 1/64	CF-1	2012	½-2	½	3 11/16	1¼	—	2.40
48	TB48L050	5.730	6 1/64	CF-1	2012	½-2	½	3 11/16	1¼	—	3.20
60	TB60L050	7.162	—	C-2	2012	½-2	¼	4⅜	1¼	¼	4.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″

L075 For Belts ¾″ Wide (3/8″ Pitch)
Minimum Plain Bore

F = 1

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore Stk.*	Bore Max.	Dimensions E	H	L	Wt.
12	12L075	1.432	1 43/64	DF-1	⅜	13/16	½	1 1/16	1½	.40
14	14L075	1.671	1 59/64	DF-1	⅜	⅞	½	1⅛	1½	.50
16	16L075	1.910	2 3/32	DF-1	½	1⅛	⅝	1 1/16	1⅝	.70
18	18L075	2.149	2 25/64	DF-1	½	1 3/16	⅝	1⅛	1⅝	.90
20	20L075	2.387	2⅝	DF-1	½	1¼	⅝	1 11/16	1⅝	1.5
22	22L075	2.626	2⅞	DF-1	⅝	1½	¾	2	1¾	1.8
24	24L075	2.865	3 7/64	DF-1	⅝	1⅝	¾	2¼	1¾	2.1
26	26L075	3.104	3 11/32	DF-1	⅝	1⅝	⅞	2½	1⅞	2.8
28	28L075	3.342	3 37/64	DF-1	⅝	1⅞	1	2¾	2	3.1
30	30L075	3.581	3 53/64	DF-1	⅝	1⅞	1	2⅞	2	3.4
32	32L075	3.820	4 1/16	DF-1	⅝	1⅞	1	3 1/16	2	3.7

Dimensions in inches. Weight in pounds.
Pulley O.D. = P.D. – .03″
L Pulleys 12 - 16 teeth min. plain bore stocked with 1-SS. If keyway is used, reduce maximum bore by twice keyway depth.

PULLEYS

L
3/8″ Pitch

Stock Timing Pulleys

Martin

L075 For Belts 3/4″ Wide (3/8″ Pitch)
QD Type

F = 1

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
18	18L075JA	2.149	2 25/64	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	.50
20	20L075JA	2.387	2 5/8	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	.70
22	22L075JA	2.626	2 7/8	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	.80
24	24L075SH	2.865	3 3/64	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	.80
26	26L075SH	3.104	3 11/32	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	1.1
28	28L075SH	3.342	3 37/64	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	1.3
30	30L075SDS	3.581	3 59/64	EF-1*	SDS	1/2 - 2	1/4	—	1 3/8	5/8	1.5
32	32L075SDS	3.820	4 1/16	EF-1*	SDS	1/2 - 2	1/4	—	1 3/8	5/8	1.7
36	36L075SDS	4.297	4 17/32	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	2.3
40	40L075SDS	4.775	5 1/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	3.1
44	44L075SDS	5.252	5 31/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	4.0
48	48L075SDS	5.730	6 1/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	4.6
60	60L075SD	7.162	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	4.7
72	72L075SD	8.594	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	6.5
84	84L075SD	10.027	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	6.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″
*Reverse mount only

L075 For Belts 3/4″ Wide (3/8″ Pitch)
Taper Bushed Type

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	L	M	Wt. Less Bush.
18	TB18L075	2.149	2 25/64	KF-1	1008	1/2 - 1	1/8	—	7/8	—	.50
20	TB20L075	2.387	2 5/8	KF-1	1008	1/2 - 1	1/8	—	7/8	—	.70
22	TB22L075	2.626	2 7/8	KF-1	1008	1/2 - 1	1/8	—	7/8	—	1.10
24	TB24L075	2.865	3 7/64	KF-1	1210	1/2 - 1 1/4	—	—	1	—	.90
26	TB26L075	3.104	3 11/32	KF-1	1210	1/2 - 1 1/4	—	—	1	—	1.30
28	TB28L075	3.342	3 37/64	KF-1	1610	1/2 - 1 5/8	—	—	1	—	1.30
30	TB30L075	3.581	3 59/64	KF-1	1610	1/2 - 1 5/8	—	—	1	—	1.60
32	TB32L075	3.820	4 1/16	KF-1	1610	1/2 - 1 5/8	—	—	1	—	1.80
40	TB40L075	4.775	5 1/64	CF-1	2012	1/2 - 2	1/4	3 15/16	1 1/4	—	3.60
48	TB48L075	5.730	6 1/64	CF-1	2012	1/2 - 2	1/4	3 15/16	1 1/4	—	5.40
60	TB60L075	7.162	—	C-1	2012	1/2 - 2	1/8	4 3/8	1 1/4	1/8	7.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″

Stock Timing Pulleys

L

3/8″ Pitch

L100 For Belts 1″ Wide (3/8″ Pitch)
Minimum Plain Bore

F = 1¼

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.*	Max.	E	H	L	
14	14L100	1.671	1 55/64	DF-1	3/8	7/8	1/2	1 1/8	1 3/4	.60
16	16L100	1.910	2 3/32	DF-1	1/2	1 1/8	5/8	1 1/16	1 1/8	.80
17	17L100	2.029	2 1/32	DF-1	1/2	1 1/8	5/8	1 1/2	1 1/8	1.0
18	18L100	2.149	2 25/64	DF-1	1/2	1 3/16	5/8	1 5/8	1 1/8	1.1
19	19L100	2.268	2 3/8	DF-1	1/2	1 3/16	5/8	1 5/8	1 1/8	1.4
20	20L100	2.387	2 5/8	DF-1	1/2	1 3/16	5/8	1 11/16	1 1/8	1.75
21	21L100	2.507	2 3/4	DF-1	5/8	1 5/16	11/16	1 1/8	1 1/8	1.80
22	22L100	2.626	2 7/8	DF-1	5/8	1 1/2	3/4	2	2	2.0
24	24L100	2.865	3 3/64	DF-1	5/8	1 5/8	3/4	2 1/4	2	2.5
26	26L100	3.104	3 11/32	DF-1	5/8	1 5/8	7/8	2 1/2	2 1/8	3.3
28	28L100	3.342	3 37/64	DF-1	5/8	1 7/8	1	2 3/4	2 1/4	3.6
30	30L100	3.581	3 53/64	DF-1	5/8	1 7/8	1	2 7/8	2 1/4	4.0
32	32L100	3.820	4 1/16	DF-1	5/8	1 7/8	1	3 1/16	2 1/4	4.4

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″
L Pulleys 14 - 16 teeth min. plain bore stocked with 1-S.S. If keyway is used, reduce maximum bore by twice keyway depth.

L100 For Belts 1″ Wide (3/8″ Pitch)
QD Type

F = 1¼

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
18	18L100JA	2.149	2 25/64	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	.70
20	20L100JA	2.387	2 5/8	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	.90
22	22L100JA	2.626	2 7/8	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	1.0
24	24L100SH	2.865	3 3/64	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.0
26	26L100SH	3.104	3 11/32	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.3
28	28L100SH	3.342	3 37/64	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.7
30	30L100SDS	3.581	3 53/64	EF-1*	SDS	1/2 -2	1/2	—	1 3/8	5/8	2.0
32	32L100SDS	3.820	4 1/16	EF-1*	SDS	1/2 -2	1/2	—	1 3/8	5/8	2.1
36	36L100SDS	4.297	4 17/32	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	2.6
40	40L100SDS	4.775	5 1/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	3.4
44	44L100SDS	5.252	5 31/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	4.2
48	48L100SDS	5.730	6 1/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	5.1
60	60L100SD	7.162	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	6.0
72	72L100SD	8.594	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	8.0
84	84L100SD	10.027	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	9.2

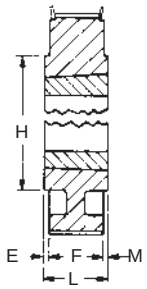
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″
*Reverse mount only

L
⅜″ Pitch

Stock Timing Pulleys

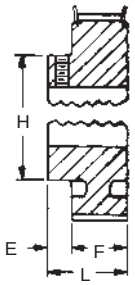
Martin

Type CF



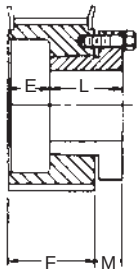
Type C

Type DF



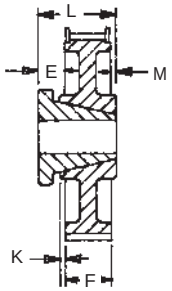
Type D

Type EF



Type E

Type GF



Type G

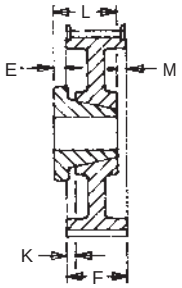
Dash 1 = Solid Style

Dash 2 = Web Style

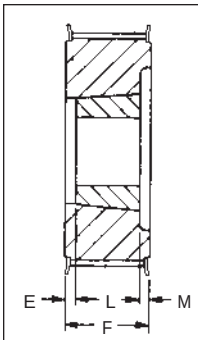
Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.

Type HF



Type H



Type KF

L100 For Belts 1″ Wide (⅜″ Pitch)
Taper Bushed Type **F = 1¼**

No. Teeth	Part Number	Pitch Diam.	Max FL.O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
18	TB18L100	2.149	2 25/64	KF-1	1008	½ - 1	⅜	—	⅞	—	.70
20	TB20L100	2.387	2⅝	KF-1	1008	½ - 1	⅜	—	⅞	—	1.0
22	TB22L100	2.626	2⅞	KF-1	1008	½ - 1	⅜	—	⅞	—	1.3
24	TB24L100	2.865	3 7/64	KF-1	1210	½ -1¼	¼	—	1	—	1.3
26	TB26L100	3.104	3 11/32	KF-1	1210	½ -1¼	¼	—	1	—	1.7
28	TB28L100	3.342	3 37/64	KF-1	1610	½ -1⅜	¼	—	1	—	1.7
30	TB30L100	3.581	3 53/64	KF-1	1610	½ -1⅜	¼	—	1	—	2.2
32	TB32L100	3.820	4 1/16	KF-1	1610	½ -1⅜	¼	—	1	—	2.7
40	TB40L100	4.775	5 1/64	KF-1	2012	½ -2	1/16	—	1¼	—	3.6
48	TB48L100	5.730	6 1/64	KF-1	2012	½ -2	1/16	—	1¼	—	5.1
60	TB60L100	7.162	—	C-2	2012	½ -2	—	—	1¼	—	6.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03″

PULLEYS

H
½″ Pitch

Stock Timing Pulleys

H — ½″ Pitch

H100 For Belts ¾″ and 1″ Wide (½″ Pitch)
Minimum Plain Bore — F = 1 5/16

No. Teeth	Part Number	Pitch Diam.	Max FL. O.D.	Type	Bore Stk.	Bore Max.	Dimensions E	Dimensions H	Dimensions L	Wt.
14	14H100	2.228	2 31/64	DF-1	5/8	1	5/8	1 1/2	1 15/16	1.4
16	16H100	2.546	2 51/64	DF-1	5/8	1 1/4	1 1/16	2	2	2.0
18	18H100	2.865	3 7/64	DF-1	5/8	1 1/2	1 1/16	2 1/4	2	2.8
20	20H100	3.183	3 1/16	DF-1	5/8	1 5/8	7/8	2 1/2	2 3/16	3.4
21	21H100	3.342	3 9/16	DF-1	3/4	1 11/16	1	2 5/8	2 1/4	3.8
22	22H100	3.501	3 3/4	DF-1	3/4	1 7/8	1	2 7/8	2 5/16	4.3
24	24H100	3.820	4 1/64	DF-1	3/4	2 1/8	1	3 1/8	2 5/16	5.3
26	26H100	4.138	4 25/64	DF-1	3/4	2 1/2	1 1/8	3 1/2	2 7/16	6.7
28	28H100	4.456	4 45/64	DF-1	3/4	2 5/8	1 1/8	3 5/8	2 7/16	8.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

H100 For Belts ¾″ and 1″ Wide (½″ Pitch)
QD Type — F = 1 5/16

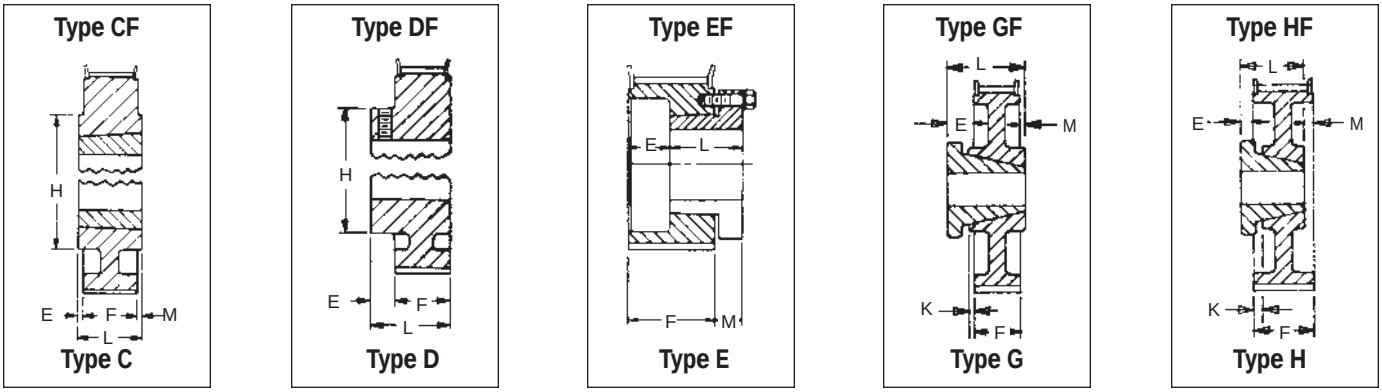
No. Teeth	Part Number	Pitch Diam.	Max FL. O.D.	Type	Bush	Bore Range	Dimensions E	Dimensions H	Dimensions K	Dimensions L	Dimensions M	Wt. Less Bush.
14	14H100JA	2.228	2 31/64	EF-1*	JA	1/2 -1 1/4	3/4	—	—	1 1/16	1/2	1.0
16	16H100JA	2.546	2 51/64	EF-1*	JA	1/2 -1 1/4	3/4	—	—	1 1/16	1/2	1.5
18	18H100SH	2.865	3 7/64	EF-1*	SH	1/2 -1 11/16	9/16	—	—	1 5/16	9/16	1.2
20	20H100SH	3.183	3 1/16	EF-1*	SH	1/2 -1 11/16	9/16	—	—	1 5/16	9/16	1.2
22	22H100SDS	3.501	3 3/4	EF-1*	SDS	1/2 -2	9/16	—	—	1 3/8	5/8	1.4
24	24H100SDS	3.820	4 1/64	EF-1*	SDS	1/2 -2	9/16	—	—	1 3/8	5/8	1.7
26	26H100SDS	4.138	4 25/64	HF-1	SDS	1/2 -2	1/16	—	9/16	1 3/8	—	2.0
28	28H100SDS	4.456	4 45/64	HF-1	SDS	1/2 -2	1/16	—	9/16	1 3/8	—	2.6
30	30H100SD	4.775	5 1/64	GF-1	SD	1/2 -2	5/8	—	—	1 13/16	—	3.0
32	32H100SK	5.093	5 21/64	GF-1	SK	1/2 -2 5/8	1 1/16	—	—	1 15/16	—	4.9
36	36H100SK	5.730	5 61/64	GF-1	SK	1/2 -2 5/8	1 1/16	—	—	1 15/16	—	5.6
40	40H100SK	6.366	6 37/64	GF-1	SK	1/2 -2 5/8	1 1/16	—	—	1 15/16	—	8.2
44	44H100SK	7.003	7 1/4	GF-1	SK	1/2 -2 5/8	1 1/16	—	—	1 15/16	—	10.0
48	48H100SK	7.639	8 1/64	GF-2	SK	1/2 -2 5/8	1 1/16	—	—	1 15/16	—	12.5
60	60H100SF	9.549	—	H-2	SF	1/2 -2 15/16	1 1/16	—	—	2 1/16	—	10.9
72	72H100SF	11.459	—	H-3	SF	1/2 -2 15/16	1 1/16	—	—	2 1/16	—	14.0
84	84H100SF	13.369	—	H-3	SF	1/2 -2 15/16	1 1/16	5 1/8	—	2 1/16	—	20.0
96	96H100SF	15.279	—	H-3	SF	1/2 -2 15/16	1 1/16	5 1/8	—	2 1/16	—	27.0
120	120H100SF	19.099	—	H-3	SF	1/2 -2 15/16	1 1/16	5 1/8	—	2 1/16	—	38.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″
*Reverse mount only

H
½″ Pitch

Stock Timing Pulleys

Martin



Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" in description indicates flanged.

H100 For Belts ¾″ and 1″ Wide (½″ Pitch)
Taper Bushed Type F = 1 5/16

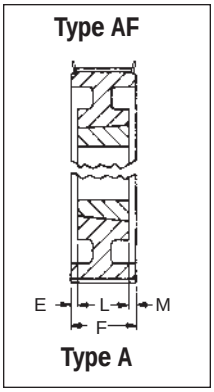
No. Teeth	Part Number	Pitch Diam.	Max FL. O.D.	Type	Bush	Bore Range	Dimensions E	H	L	M	Wt. Less Bush.
14	TB14H100	2.228	2 31/64	KF-1	1008	½ - 1	7/16	—	⅞	—	.80
16	TB16H100	2.546	2 51/64	KF-1	1008	½ - 1	7/16	—	⅞	—	1.3
18	TB18H100	2.865	3 7/64	KF-1	1210	½ - 1¼	5/16	—	1	—	1.2
20	TB20H100	3.183	3 7/16	KF-1	1210	½ - 1¼	5/16	—	1	—	1.7
22	TB22H100	3.501	3¾	KF-1	1610	½ - 1⅜	5/16	—	1	—	1.8
24	TB24H100	3.820	4 1/64	KF-1	1610	½ - 1⅜	5/16	—	1	—	2.3
26	TB26H100	4.138	4 25/64	KF-1	2012	½ - 2	7/16	—	1¼	—	2.6
28	TB28H100	4.456	4 45/64	KF-1	2012	½ - 2	7/16	—	1¼	—	2.8
30	TB30H100	4.775	5 1/64	KF-1	2012	½ - 2	7/16	—	1¼	—	4.2
32	TB32H100	5.093	5 21/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	4.3
40	TB40H100	6.366	6 37/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	7.8
48	TB48H100	7.639	8 1/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	12.1
60	TB60H100	9.549	—	C-2	3020	⅞ - 3	11/32	6¼	2	11/32	10.3

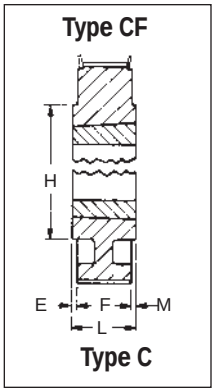
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

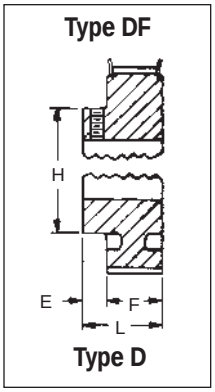
PULLEYS

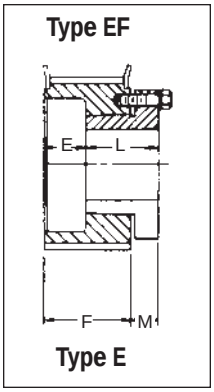
H
½″ Pitch

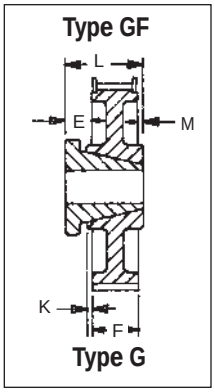
Stock Timing Pulleys

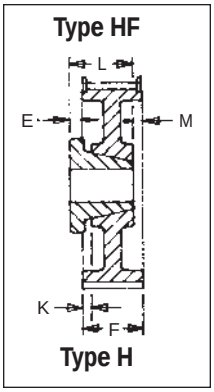


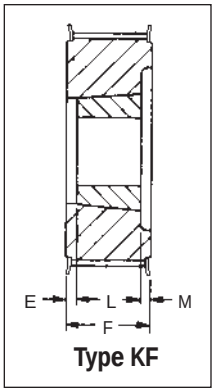












Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.

H150 For Belts 1½″ Wide (½″ Pitch)
Minimum Plain Bore **F = 1 13/16**

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14H150	2.228	2 31/64	DF-1	¾	1	⅝	1½	2 7/16	1.8
16	16H150	2.546	2 55/64	DF-1	¾	1¼	¾	2	2 9/16	2.5
18	18H150	2.865	3 7/64	DF-1	¾	1½	¾	2¼	2 9/16	3.3
19	19H150	3.024	3¼	DF-1	¾	1 9/16	⅞	2¼	2⅝	3.9
20	20H150	3.183	3 7/16	DF-1	¾	1⅝	⅞	2½	2 11/16	4.3
21	21H150	3.342	3 9/16	DF-1	¾	1 11/16	15/16	2½	2¾	5.3
22	22H150	3.501	3¾	DF-1	¾	1⅞	1	2⅞	2 13/16	5.4
24	24H150	3.820	4 1/16	DF-1	¾	2⅛	1	3⅛	2 13/16	6.5
26	26H150	4.138	4 25/32	DF-1	¾	2½	1	3½	2 13/16	8.4

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

PULLEYS

H
½″ Pitch

Stock Timing Pulleys

Martin

H150 For Belts 1½″ Wide (½″ Pitch)
Q.D. Type

F = 1 13/16

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush.	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
14	14H150JA	2.228	2 31/64	EF-1*	JA	½ - 1¼	1¼	—	1 1/16	½	1.5
16	16H150JA	2.546	2 51/64	EF-1*	JA	½ - 1¼	1¼	—	1 1/16	½	2.0
18	18H150SH	2.865	3 3/64	EF-1*	SH	½ - 1 11/16	1	—	1 5/16	9/16	1.3
20	20H150SH	3.183	3 3/16	EF-1*	SH	½ - 1 11/16	1	—	1 5/16	9/16	1.8
22	22H150SD	3.501	3¼	EF-1*	SD	½ - 2	9/16	—	1 13/16	5/8	2.0
24	24H150SD	3.820	4 1/16	EF-1*	SD	½ - 2	9/16	—	1 13/16	5/8	2.6
26	26H150SD	4.138	4 25/32	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	3.0
28	28H150SD	4.456	4 45/64	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	4.0
30	30H150SD	4.775	5 1/64	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	4.9
32	32H150SK	5.093	5 21/64	HF-1	SK	½ - 2⅜	1/8	9/16	1 15/16	0	5.8
36	36H150SK	5.730	5 61/64	HF-1	SK	½ - 2⅜	1/8	9/16	1 15/16	0	7.0
40	40H150SK	6.366	6 37/64	HF-1	SK	½ - 2⅜	1/8	9/16	1 15/16	0	9.2
44	44H150SK	7.003	7¼	HF-1	SK	½ - 2⅜	1/8	9/16	1 15/16	0	11.0
48	48H150SK	7.639	8 1/64	HF-2	SK	½ - 2⅜	1/8	9/16	1 15/16	0	13.7
60	60H150SF	9.549	—	H-2	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	12.5
72	72H150SF	11.459	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	17.0
84	84H150SF	13.369	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	21.5
96	96H150SF	15.279	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	31.0
120	120H150SF	19.099	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	40.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″
*Reverse mount only

H150 For Belts 1½″ Wide (½″ Pitch)
Taper Bushed Type

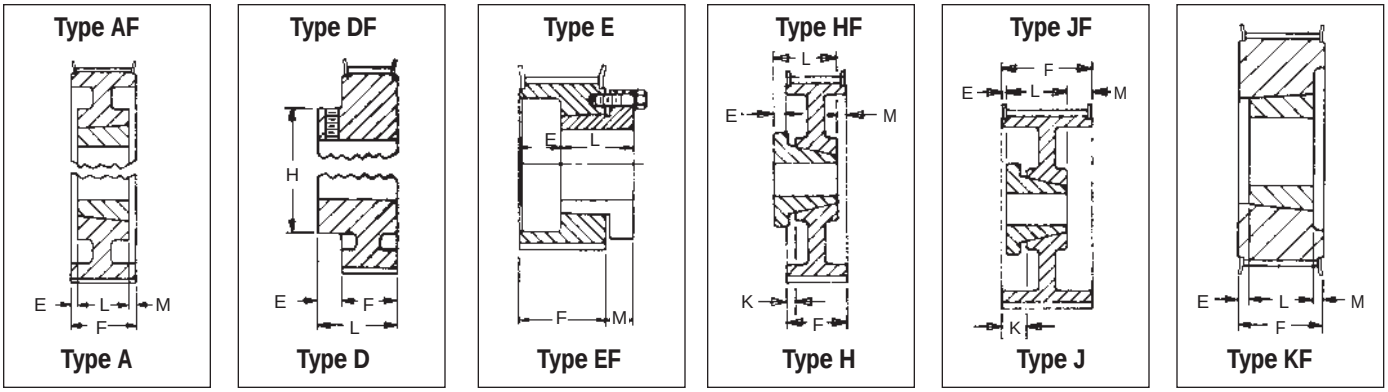
F = 1 13/16

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	K	L	M	Wt. Less Bush.
14	TB14H150	2.228	2 31/64	KF-1	1008	½ - 1	15/32	—	—	7/8	15/32	1.0
16	TB16H150	2.546	2 51/64	KF-1	1008	½ - 1	15/32	—	—	7/8	15/32	1.5
18	TB18H150	2.865	3 3/64	KF-1	1215	½ - 1¼	5/16	—	—	1½	—	1.6
20	TB20H150	3.183	3 3/16	KF-1	1215	½ - 1¼	5/16	—	—	1½	—	2.2
22	TB22H150	3.501	3¾	KF-1	1615	½ - 1⅜	5/16	—	—	1½	—	2.5
24	TB24H150	3.820	4 1/16	KF-1	2012	½ - 2	9/16	—	—	1¼	—	2.7
26	TB26H150	4.138	4 25/32	KF-1	2012	½ - 2	9/16	—	—	1¼	—	3.2
28	TB28H150	4.456	4 45/64	KF-1	2012	½ - 2	9/16	—	—	1¼	—	4.1
30	TB30H150	4.775	5 1/64	KF-1	2012	½ - 2	9/16	—	—	1¼	—	5.1
32	TB32H150	5.093	5 21/64	KF-1	2517	½ - 2½	1/16	—	—	1¾	—	5.6
40	TB40H150	6.366	6 37/64	KF-1	2517	½ - 2½	1/16	—	—	1¾	—	8.6
48	TB48H150	7.639	8 1/64	AF-1	2517	½ - 2½	—	—	1/16	1¾	1/16	13.6
60	TB60H150	9.549	—	C-2	3020	⅞ - 3	3/32	6¼	—	2	3/32	12.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

H
½″ Pitch

Stock Timing Pulleys



Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" in type description indicates flanged.

H200 For Belts 2″ Wide (½″ Pitch)
Minimum Plain Bore **F = 2 11/32**

No. Teeth	Part Number	Pitch Diam.	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14H200	2.228	2 3/8	DF-1	3/4	1	5/8	1 1/2	2 31/32	2.2
16	16H200	2.546	2 51/64	DF-1	3/4	1 1/4	3/4	2	3 3/32	3.1
18	18H200	2.865	3 7/64	DF-1	3/4	1 1/2	3/4	2	3 3/32	3.7
19	19H200	3.024	3 1/4	DF-1	3/4	1 9/16	7/8	2 1/4	3 7/32	3.9
20	20H200	3.183	3 7/16	DF-1	3/4	1 5/8	7/8	2 1/2	3 7/32	4.9
22	22H200	3.501	3 3/4	DF-1	1	1 7/8	1	2 7/8	3 11/32	6.3
24	24H200	3.820	4 1/16	DF-1	1	2 1/8	1	3 1/8	3 11/32	7.5
26	26H200	4.138	4 25/32	DF-1	1	2 1/2	1 1/8	3 1/2	3 15/32	9.5

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

H
½″ Pitch

Stock Timing Pulleys

Martin

H200 For Belts 2″ Wide (½″ Pitch)
Q.D. Type

F = 2 11/32

No. Teeth	Part Number	Pitch Diam.	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
16	16H200JA	2.546	2 51/64	EF-1*	JA	1/2 - 1 1/4	1 25/32	—	1 1/16	1/2	2.6
18	18H200SH	2.865	3 7/64	EF-1*	SH	1/2 - 1 11/16	1 17/32	—	1 5/16	9/16	1.6
20	20H200SH	3.183	3 7/16	EF-1*	SH	1/2 - 1 11/16	1 17/32	—	1 5/16	9/16	2.2
22	22H200SD	3.501	3 3/4	EF-1*	SD	1/2 - 2	1 3/32	—	1 13/16	5/8	2.5
24	24H200SD	3.820	4 1/16	EF-1*	SD	1/2 - 2	1 3/32	—	1 13/16	5/8	3.0
26	26H200SD	4.138	4 25/32	HF-1	SD	1/2 - 2	5/64	35/64	1 13/16	35/64	3.9
28	28H200SD	4.456	4 45/64	HF-1	SD	1/2 - 2	5/64	35/64	1 13/16	35/64	4.7
30	30H200SD	4.775	5 1/64	HF-1	SD	1/2 - 2	5/64	35/64	1 13/16	35/64	5.7
32	32H200SK	5.093	5 21/64	HF-1	SK	1/2 - 2 5/8	9/64	35/64	1 15/16	35/64	6.7
36	36H200SK	5.730	5 61/64	HF-1	SK	1/2 - 2 5/8	9/64	35/64	1 15/16	35/64	8.0
40	40H200SK	6.366	6 37/64	HF-1	SK	1/2 - 2 5/8	9/64	35/64	1 15/16	35/64	10.2
44	44H200SK	7.003	7 1/4	HF-1	SK	1/2 - 2 5/8	9/64	35/64	1 15/16	35/64	12.5
48	48H200SF	7.639	8 1/64	HF-2	SF	1/2 - 2 15/16	9/64	35/64	2 1/16	35/64	14.1
60	60H200SF	9.549	—	H-2	SF	1/2 - 2 15/16	9/64	35/64	2 1/16	35/64	14.6
72	72H200SF	11.459	—	H-3	SF	1/2 - 2 15/16	9/64	35/64	2 1/16	35/64	21.0
84	84H200SF	13.369	—	H-3	SF	1/2 - 2 15/16	9/64	35/64	2 5/16	35/64	23.0
96	96H200E	15.279	—	H-3	E	7/8 - 3 1/2	33/64	23/64	2 5/8	23/64	34.0
120	120H200E	19.099	—	H-3	E	7/8 - 3 1/2	33/64	23/64	2 5/8	23/64	42.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″
*Reverse mount only

H200 For Belts 2″ Wide (½″ Pitch)
Taper Bushed Type

F = 2 11/32

No. Teeth	Part Number	Pitch Diam.	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions E	L	M	Wt. Less Bush.
16	TB16H200	2.546	2 51/64	KF-1	1008	1/2 - 1	3/4	7/8	23/32	1.9
18	TB18H200	2.865	3 7/64	KF-1	1215	1/2 - 1 1/4	7/16	1 1/2	13/32	1.8
20	TB20H200	3.183	3 7/16	KF-1	1215	1/2 - 1 1/4	27/64	1 1/2	27/64	2.6
22	TB22H200	3.501	3 3/4	KF-1	1615	1/2 - 1 5/8	27/64	1 1/2	27/64	2.8
24	TB24H200	3.820	4 1/16	KF-1	2012	1/2 - 2	35/64	1 1/4	35/64	2.8
26	TB26H200	4.138	4 25/32	KF-1	2012	1/2 - 2	35/64	1 1/4	35/64	3.6
28	TB28H200	4.456	4 45/64	KF-1	2012	1/2 - 2	35/64	1 1/4	35/64	5.1
30	TB30H200	4.775	5 1/64	KF-1	2012	1/2 - 2	1 3/32	1 1/4	—	7.0
32	TB32H200	5.093	5 21/64	KF-1	2517	1/2 - 2 1/2	19/32	1 3/4	—	8.5
40	TB40H200	6.366	6 37/64	KF-1	2517	1/2 - 2 1/2	19/32	1 3/4	—	9.9
48	TB48H200	7.639	8 1/64	KF-1	3020	7/8 - 3	11/32	2	—	14.3
60	TB60H200	9.549	—	A-2	3020	7/8 - 3	11/64	2	11/64	15.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

H
½″ Pitch

Stock Timing Pulleys

H300 For Belts 3″ Wide (½″ Pitch)
Minimum Plain Bore
F = 3⅜

No. Teeth	Part Number	Pitch Diam.	Max. FL. O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
16	16H300	2.546	2 51/64	DF-1	¾	1¼	¾	2	4⅛	4.2

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

H300 For Belts 3″ Wide (½″ Pitch)
QD Type
F = 3⅜

No. Teeth	Part Number	Pitch Diam.	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
22	22H300SD	3.501	3¾	EF-1*	SD	½ - 2	2⅛	—	1 13/16	⅝	4.1
24	24H300SD	3.820	4 1/16	EF-1*	SD	½ - 2	2⅛	—	1 13/16	⅝	4.1
26	26H300SD	4.138	4 25/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	5.0
28	28H300SD	4.456	4 45/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	6.0
30	30H300SD	4.775	5 1/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	7.2
32	32H300SK	5.093	5 21/64	JF-1	SK	½ - 2⅜	⅜	1 1/16	1 15/16	1 1/16	8.4
36	36H300SK	5.730	5 61/64	JF-1	SK	½ - 2⅜	⅜	1 1/16	1 15/16	1 1/16	10.0
40	40H300SK	6.366	6 37/64	JF-1	SK	½ - 2⅜	⅜	1 1/16	1 15/16	1 1/16	12.2
44	44H300SK	7.003	7¼	JF-1	SK	½ - 2⅜	⅜	1 1/16	1 15/16	1 1/16	15.5
48	48H300SF	7.639	8 1/64	JF-2	SF	½ - 2 15/16	⅜	1 1/16	2 1/16	1 1/16	16.6
60	60H300SF	9.549	—	J-2	SF	½ - 2 15/16	⅜	1 1/16	2 1/16	1 1/16	17.9
72	72H300SF	11.459	—	J-3	SF	½ - 2 15/16	3/16	1 1/16	2 1/16	1 1/16	23.0
84	84H300SF	13.369	—	J-3	SF	½ - 2 15/16	3/16	1 1/16	2 1/16	1 1/16	30.0
96	96H300E	15.279	—	H-3	E	⅞ - 3½	0	⅞	2⅝	⅞	38.0
120	120H300E	19.099	—	H-3	E	⅞ - 3½	0	⅞	2⅝	⅞	51.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″
*Reverse mount only

H300 For Belts 3″ Wide (½″ Pitch)
Taper Bushed Type
F = 3⅜

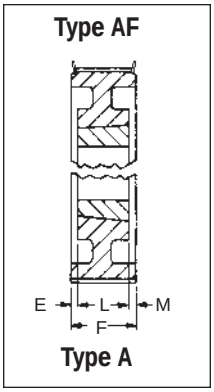
No. Teeth	Part Number	Pitch Diam.	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions			Wt. Less Bush.
							E	L	M	
18	TB18H300	2.865	3 7/64	KF-1	1215	½ - 1¼	15/16	1½	15/16	2.6
20	TB20H300	3.183	3 7/16	KF-1	1215	½ - 1¼	15/16	1½	15/16	3.9
22	TB22H300	3.501	3¾	KF-1	1615	½ - 1⅜	15/16	1½	15/16	4.0
24	TB24H300	3.820	4 1/16	KF-1	2012	½ - 2	1 1/16	1¾	1 1/16	4.3
26	TB26H300	4.138	4 25/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	5.4
28	TB28H300	4.456	4 45/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	6.8
30	TB30H300	4.775	5 1/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	7.5
32	TB32H300	5.093	5 21/64	KF-1	2517	½ - 2½	13/16	1¾	13/16	7.4
40	TB40H300	6.366	6 37/64	KF-1	2517	½ - 2½	13/16	1¾	13/16	12.1
48	TB48H300	7.639	8 1/64	KF-1	3020	⅞ - 3	1 1/16	2	1 1/16	16.3
60	TB60H300	9.549	—	A-2	3020	⅞ - 3	9/16	2	9/16	17.3

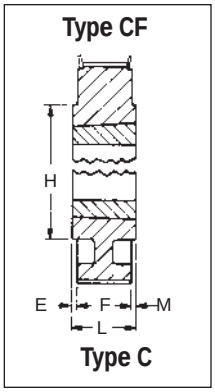
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054″

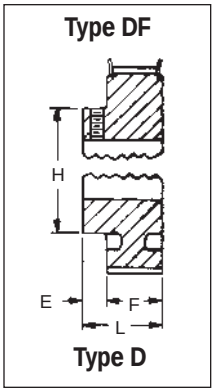
XH
7/8″ Pitch

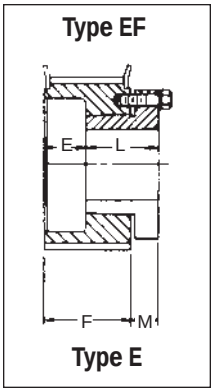
Stock Timing Pulleys

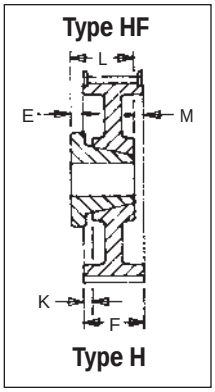
Martin









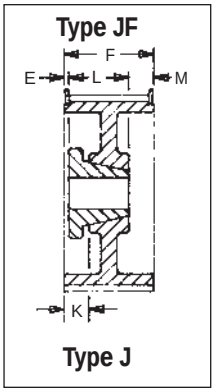


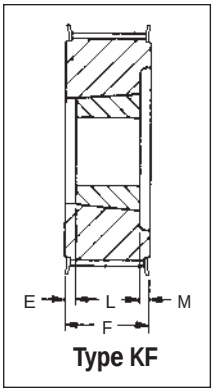
Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.





XH — 7/8 Pitch

XH200 For Belts 2″ Wide (7/8″ Pitch)
Minimum Plain Bore

F = 2 9/16

No. Teeth	Part Number	Pitch Diam.	Max. FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
18	18XH200	5.013	5 37/64	DF-1	1	2 5/8	7/8	3 11/16	3 7/16	12.0
20	20XH200	5.570	6 7/64	DF-1	1	3 1/4	1	4 1/8	3 9/16	16.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11″

XH200 For Belts 2″ Wide (7/8″ Pitch)
Taper Bushed Type

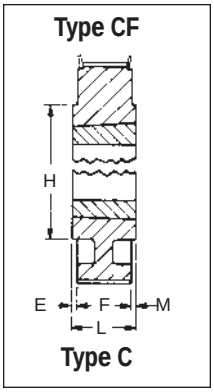
F = 2 9/16

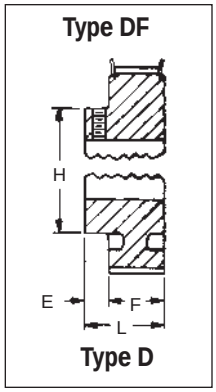
No. Teeth	Part Number	Pitch Diam.	Max. FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	H	L	M	
22	TB22XH200	6.127	6 19/32	KF-1	2517	1/2 - 2 1/2	13/16	—	1 3/4	—	10.6
24	TB24XH200	6.685	7 9/32	KF-1	3020	7/8 - 3	9/16	—	2	—	11.3
26	TB26XH200	7.241	7 25/32	KF-1	3020	7/8 - 3	9/16	—	2	—	13.3
28	TB28XH200	7.799	8 17/64	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	13.5
30	TB30XH200	8.356	9 1/32	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	18.5
32	TB32XH200	8.913	9 33/64	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	21.5
40	TB40XH200	11.141	11 51/64	CF-1	4040	1 7/16 - 4	1 7/16	8 1/2	4	—	37.5
48	TB48XH200	13.369	—	C-2	4040	1 7/16 - 4	13/32	8 1/2	4	23/32	44.5
60	TB60XH200	16.711	—	C-3	4040	1 7/16 - 4	23/32	8 1/2	4	23/32	47.0

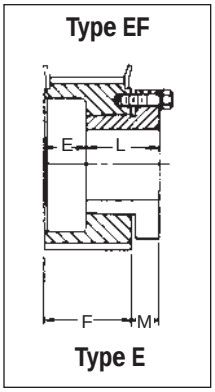
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11″

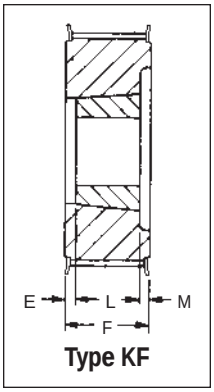
XH
7/8″ Pitch

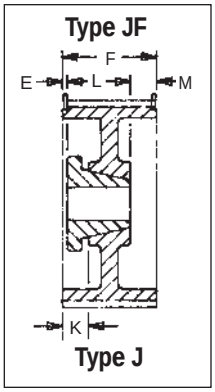
Stock Timing Pulleys











XH300 For Belts 3″ Wide (7/8″ Pitch)
Minimum Plain Bore
F = 3⅝

No. Teeth	Part Number	Pitch Diam.	Max. FL O.D.	Type	Bore		Dimensions				Wt.
					Stk.	Max.	E	H	L	M	
18	18XH300	5.013	5 37/64	DF-1	1	2⅞	⅞	3 11/16	4½	1*	15.0
20	20XH300	5.570	6 7/64	DF-1	1	3¼	1	4⅛	4⅝	¾*	19.0

*Counterbore “M” depth on flush side.

XH300 For Belts 3″ Wide (7/8″ Pitch)
Taper Bushed Type
F = 3⅝

No. Teeth	Part Number	Pitch Diam.	Max. FL O.D.	Bore Type	Bush	Bore Range	Dimensions				Wt.
							E	H	L	M	
22	TB22XH300	6.127	6 21/32	KF-1	2517	½ - 2½	15/16	—	1¾	15/16	13.6
24	TB24XH300	6.685	7 9/32	KF-1	3020	⅞ - 3	13/16	—	2	13/16	15.3
26	TB26XH300	7.241	7 25/32	KF-1	3020	⅞ - 3	13/16	—	2	13/16	17.3
28	TB28XH300	7.799	8 1/64	KF-1	3535	1 3/16 - 3½	⅛	—	3½	—	17.5
30	TB30XH300	8.356	9 1/32	KF-1	3535	1 3/16 - 3½	⅛	—	3½	—	22.5
32	TB32XH300	8.913	9 33/64	KF-1	3535	1 3/16 - 3½	⅛	—	3½	—	26.5
40	TB40XH300	11.141	11 51/64	CF-1	4040	1 7/16 - 4	⅜	7¾	4	—	43.5
48	TB48XH300	13.369	—	C-2	4040	1 7/16 - 4	3/16	8½	4	3/16	51.5
60	TB60XH300	16.711	—	C-3	4040	1 7/16 - 4	3/16	8½	4	3/16	55.5

XH400 For Belts 4″ Wide (7/8″ Pitch)
QD Type
F = 4 11/16

No. Teeth	Part Number	Pitch Diam.	Max. FL O.D.	Type	Bush	Bore Range	Dimensions				Wt.
							E	K	L	M	
20	20XH400SK	5.570	6 3/32	JF-1	SK	½ - 2½	½	1 3/16	1 15/16	2¼	12.4
22	22XH400SK	6.127	6 21/32	JF-1	SK	½ - 2½	½	1 3/16	1 15/16	2¼	16.7
24	24XH400SF	6.685	7 1/32	JF-1	SF	½ - 2⅞	½	1 3/16	2 1/16	2 3/16	19.2
26	26XH400SF	7.242	7 25/32	JF-1	SF	½ - 2⅞	½	1 3/16	2 1/16	2 3/16	23.0
28	28XH400E	7.799	8 11/32	JF-1	E	⅞ - 3½	2 1/32	1 17/32	2⅝	1 13/32	24.0
30	30XH400E	8.356	8 29/32	JF-1	E	⅞ - 3½	2 1/32	1 17/32	2⅝	1 13/32	30.7
32	32XH400E	8.913	9 1/16	JF-1	E	⅞ - 3½	2 1/32	1 17/32	2⅝	1 13/32	34.0
40	40XH400F	11.141	11 11/16	HF-2	F	1 - 3 15/16	3/32	1 3/32	3⅝	1 3/32	49.0
48	48XH400J	13.369	—	H-3	J	1 7/16 - 4½	3/16	1	4½	⅞	67.3
60	60XH400J	16.711	—	H-3	J	1 7/16 - 4½	7/16	¾	4½	⅝	85.0
72	72XH400J	20.054	—	H-3	J	1 7/16 - 4½	7/16	¾	4½	⅝	108.0
84	84XH400J	23.396	—	H-3	J	1 7/16 - 4½	7/16	¾	4½	⅝	119.0
96	96XH400J	26.738	—	H-3	J	1 7/16 - 4½	7/16	¾	4½	⅝	187.5
120	120XH400J	33.423	—	H-3	J	1 7/16 - 4½	7/16	¾	4½	⅝	187.5

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11″

Stock Drive Selection

STOCK DRIVE SELECTION

The following information is required:

1. HORSEPOWER AND TYPE OF DRIVER.
2. THE RPM OF THE DRIVER.
3. THE RPM OF THE DRIVEN MACHINE.
4. THE SHAFT DIAMETERS AND KEYSEAT DIMENSIONS.
5. THE EXACT OR APPROXIMATE CENTER DISTANCE REQUIRED.
6. OPERATING CONDITIONS OF DRIVE.

A typical example.

1. The driver is a 10hp squirrel cage, NEMA design “A” AC electrical motor.
2. The speed of the driver motor is 3600 rpm (3500 rpm full load speed.)
3. A centrifugal pump is to be driven at 2450 rpm.
4. Both the motor shaft and pump shaft are 1⅜″ with standard keyseats.
5. The drive will require a 25″ to 27″ center distance.
6. The drive is operated intermittently with the full 10 hp required.

SELECTION PROCEDURE

Step 1 — Determine the Design Horsepower

Refer to Table 1 for the CLASS driver and to Table 2 for the TYPE driven machine. The CLASS in the Service Factors (Table 2) will correspond to the CLASS determined in the Driver Classification (Table 1). Check for any additional service factor required for unusual conditions — such as continuous operation and/or use of an idler.

Example: Table 1 places the driver as class 2, and Table 2 shows a centrifugal pump in class 2 to have a service factor of 1.7. We deduct 0.2 for intermittent service. Thus, the service factor is 1.5.

The **design horsepower** is found by multiplying the full load horsepower by the service factor. This is the horsepower for which you are going to select the drive. Thus, design horsepower = 10 × 1.5 or 15 hp.

Step 2 — Choose the Belt Pitch

Locate the rpm of the **faster** shaft from Table 3. Follow this line to the point where the design hp selected in Step 1 intersects this speed. The point at which the lines intersect indicates the recommended belt pitch for your drive.

Example: The table indicates that a ½ inch pitch (H) belt should be selected.

Step 3 — Select the Drive

NOTE: If the driver speed is other than those shown (870, 1160, 1750, or 3500 rpm) in the Driver Speeds column of the Stock Drive Selections or a Speed Up drive is required, step 3 will not be used. Instead turn to “Other Speeds or Speed Up Drive Selection.” This selection procedure is slightly different from step 3, but the Stock Drive Selection Tables can still be used.

A. Turn to the Stock Drive Selection Tables for the belt pitch selected in Step 2.

   Example: Since Step 2 indicated a ½ inch pitch belt, we refer to H ½″ pitch.

B. Find the rpm of your driver. Speeds shown in the Drive Selection Tables are full load motor rating.

   Example: Driver is listed under 3500 rpm.

C. Read down the driven rpm column until you find a speed nearest the required driven speed. Under the same column heading, you will find the horsepower capacity per inch of belt length. Read across to the left for the required driver and driven pulleys.

   Example: We find that we have a choice of two drives, a 28 groove DriveR with a 40 groove DriveN, or a 21 groove DriveR with a 30 groove DriveN. Since the Drive Selection Table indicates that the 21 groove pulley is below the recommended minimum, our choice is reduced to the 28 groove DriveR and a basic horsepower of 15.74.

D. Read across to the right for shaft centers nearest to those you require. The belt size is shown at the top of the center distance column.

   Example: We find a center distance of 26.49 which is within the desired distance. Reading up this column we find the belt designated as 700H.

E. Multiply the horsepower capacity per inch of belt width by the teeth in mesh (TIM) factor (where applicable) — this is found in the table at the bottom of the selection tables. This will give you the corrected horsepower per inch of belt width.

   Example: There is no TIM factor for this application. Since no correction is necessary, the basic horsepower capacity per inch of belt width will remain 15.74.

F. Divide the design horsepower found in Step 1B by the corrected horsepower found in Step 3E — this will give you a NOMINAL BELT WIDTH.

IF YOUR ANSWER CONTAINS A FRACTION, USE THE NEXT LARGER SIZE.

Example: The design horsepower divided by the horsepower per inch of belt width would be:

$$\frac{15}{15.74} = .95 \text{ Nominal Width} = \text{Use } 1.00'' \text{ Belt}$$

Order Martin

(1) — 28H100SDS Pulley
(1) — SDS × 1⅜″ QD Bushing
(1) — 40H100SK Pulley
(1) SK × 1⅜″ QD Bushing

NOTE: Decision to use QD Bushings was arbitrary.

(A re-check of bore limits, number of teeth, and width from the Stock Pulley Dimensions shows all material is stock.)

Stock Drive Selection

BASIC SERVICE FACTORS

To find a basic service factor: First, determine the class of the DriveR (prime mover) in Table 1. Then, determine the basic service factor for the application in Table 2, in the same class as driveR.

Table 1
Drive R (prime mover)

Class of DriveR		Class I	Class II	Class III
Momentary Peak Load % of Rated Load		149%	150 to 249%	250 to 400%
AC Electric Motors Single Phase				All
Squirrel Cage NEMA Design A	3450 rpm	40 hp up	1½ thru 30 hp	
	1750 rpm	100 hp up	5 thru 75 hp	1 thru 3 hp
	1160 rpm	15 hp up	¾ thru 10 hp	
	870 rpm	5 hp up	½ thru 3 hp	
NEMA Design B	3450 rpm		5 hp up	1½ thru 3 hp
	1750 rpm		5 hp up	1 thru 3 hp
	1160 rpm		5 hp up	¾ thru 3 hp
	870 rpm		2 hp up	½ thru 1½ hp
NEMA Design C	1750 rpm		15 hp up	5 thru 10 hp
	1160 rpm		7½ hp up	3 and 5 hp
	870 rpm		All	
NEMA Design D				All
NEMA Design F		All		
Wound Rotor				
	1750 rpm		20 hp	2 to 15 hp
	1160 rpm		15 hp	2 to 10 hp
	870 rpm		7½ hp	1 to 5 hp
Synchronous			Normal Torque	High Torque
D.C. ELECTRIC MOTORS		Shunt	Compound	Series
ENGINES Internal combustion		8 Cyl. up	6 Cyl.	4 Cyl. or less
HYDRAULIC MOTORS, LINE SHAFTS				All

ADDITIONAL SERVICE FACTORS FOR SPEED-UP DRIVES

For speed-up drives, add to the basic service factor the additional factor given at right.

Speed-Up Ratio Range	Add'l Factor
1.00 to 1.24	None
1.25 to 1.74	.10
1.75 to 2.49	.20
2.50 to 3.49	.30
3.50 & Over	.40

FOR UNUSUAL CONDITIONS

For 24-hour continuous operation and/or use of an idler, add 0.2 to basic service factor. For intermittent or seasonal operation, deduct 0.2 from basic service factor.

Additional service factors are required for unusual conditions — such as load reversal, heavy stock, plugged motor stop, electric brake. These should be determined by a transmission specialist.

TABLE 2.

Basic Service Factors of Driven Machines

		Class I	Class II	Class III
agitators, mixers	liquid	1.4	1.6	1.8
(paddle or propeller)	semiliquid	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		1.7	1.9	—
compressors	reciprocating	2.0	2.2	2.4
	centrifugal	1.6	1.7	1.8
conveyors	belt, light package;	1.3	1.5	1.7
	oven belt; ore, coal, sand	1.6	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	1.6	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
hoists, elevators		1.6	1.8	2.0
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
	reciporcating	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
	warpers, reels	1.5	1.7	—
woodworking machinery				
	lathes, band saws	1.3	1.4	—
	jointers, circular saws, planers	1.4	1.6	—

XL
1/5″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 6.00 30 teeth **60 XL**	PL: 7.00 35 teeth **70 XL**	PL: 8.00 40 teeth **80 XL**	PL: 9.00 45 teeth **90 XL**	PL: 10.00 50 teeth **100 XL**
1.00	30 XL	1.910	30 XL	1.910	3500	2.11	1750	1.07	1160	.71	—	—	—	—	—
	28 XL	1.783	28 XL	1.783	3500	1.98	1750	1.00	1160	.66	—	—	—	—	2.20
	24 XL	1.528	24 XL	1.528	3500	1.71	1750	.86	1160	.56	—	—	—	2.10	2.60
	22 XL	1.401	22 XL	1.401	3500	1.57	1750	.79	1160	.52	—	—	1.80	2.30	2.80
	21 XL	1.337	21 XL	1.337	3500	1.49	1750	.75	1160	.50	—	—	1.90	2.40	2.90
	20 XL	1.273	20 XL	1.273	3500	1.42	1750	.72	1160	.46	—	—	2.00	2.50	3.00
	18 XL	1.146	18 XL	1.146	3500	1.28	1750	.64	1160	.42	—	1.70	2.20	2.70	3.20
	16 XL	1.019	16 XL	1.019	3500	1.15	1750	.58	1160	.38	1.40	1.90	2.40	2.90	3.40
	15 XL	.955	15 XL	.955	3500	1.07	1750	.53	1160	.36	1.50	2.00	2.50	3.00	3.50
	14 XL	.891	14 XL	.891	3500	1.00	1750	.50	1160	.33	1.60	2.10	2.60	3.10	3.60
	12 XL	.764	12 XL	.764	3500	.86	1750	.43	1160	.28	1.80	2.30	2.80	3.30	3.80
	11 XL	.700	11 XL	.700	3500	—	1750	.39	1160	.26	1.90⑤	2.40⑤	2.90⑤	3.40⑤	3.90⑤
	10 XL	.637	10 XL	.637	3500	—	1750	.36■	1160	.23	2.00⑤	2.50⑤	3.00⑤	3.50⑤	4.00⑤
1.05	21 XL	1.337	22 XL	1.401	3341	1.49	1675	.75	1107	.50	—	—	1.85	2.35	2.85
	20 XL	1.273	21 XL	1.337	3333	1.42	1667	.72	1105	.46	—	—	1.95	2.45	2.95
1.07	30 XL	1.910	32 XL	2.037	3281	2.11	1641	1.07	1088	.71	—	—	—	—	—
	28 XL	1.783	30 XL	1.910	3267	1.98	1634	1.00	1083	.66	—	—	—	—	2.09
	15 XL	.955	16 XL	1.019	3281	1.07	1641	.53	1088	.36	1.45	1.95	2.45	2.95	3.45
	14 XL	.891	15 XL	.955	3267	1.00	1634	.50	1083	.33	1.55	2.05	2.55	3.05	3.55
1.09	22 XL	1.401	24 XL	1.528	3208	1.57	1604	.79	1063	.52	—	—	—	2.19	2.69
	11 XL	.700	12 XL	.764	3208	—	1604	.39	1063	.26	1.85⑤	2.35⑤	2.85⑤	3.35⑤	3.85⑤
1.10	20 XL	1.273	22 XL	1.401	3182	1.42	1591	.72	1055	.46	—	—	1.89	2.39	2.89
	10 XL	.637	11 XL	.700	3182	—	1591	.36■	1055	.23	1.95④	2.45④	2.95④	3.45④	3.95④
1.11	18 XL	1.146	20 XL	1.273	3150	1.28	1575	.64	1044	.42	—	1.59	2.09	2.59	3.09
1.13	16 XL	1.019	18 XL	1.146	3111	1.15	1556	.58	1031	.38	—	1.79	2.29	2.79	3.29
1.14	28 XL	1.783	32 XL	2.037	3063	1.98	1532	1.00	1015	.66	—	—	—	—	—
	21 XL	1.337	24 XL	1.528	3063	1.49	1532	.75	1015	.50	—	—	1.74	2.24	2.74
	14 XL	.891	16 XL	1.019	3063	1.00	1532	.50	1015	.33	1.49	1.99	2.49	2.99	3.49
1.17	24 XL	1.528	28 XL	1.783	3000	1.71	1500	.86	994	.56	—	—	—	—	2.39
	18 XL	1.146	21 XL	1.337	3000	1.28	1500	.64	994	.42	—	1.54	2.04	2.54	3.04
	12 XL	.764	14 XL	.891	3000	.86	1500	.43	994	.28	1.69⑤	2.19⑤	2.69⑤	3.19⑤	3.69⑤
1.20	30 XL	1.910	36 XL	2.292	2917	2.11	1458	1.07	967	.71	—	—	—	—	—
	20 XL	1.273	24 XL	1.528	2917	1.42	1458	.72	967	.46	—	—	1.79	2.29	2.79
	15 XL	.955	18 XL	1.146	2917	1.07	1458	.53	967	.36	1.34	1.84	2.34	2.84	3.34
	10 XL	.637	12 XL	.764	2917	—	1458	.36■	967	.23	1.89④	2.39④	2.89④	3.39④	3.89④
1.22	18 XL	1.146	22 XL	1.401	2864	1.28	1432	.64	949	.42	—	—	1.99	2.49	2.99
1.25	24 XL	1.528	30 XL	1.910	2800	1.71	1400	.86	928	.56	—	—	—	—	2.29
	16 XL	1.019	20 XL	1.273	2800	1.15	1400	.58	928	.38	—	1.69	2.19	2.69	3.19
	12 XL	.764	15 XL	.955	2800	.86	1400	.43	928	.28	1.64⑤	2.14⑤	2.64⑤	3.14⑤	3.64⑤

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Stock Drive Selection

XL 1/5″ Pitch

center distance, inches†															
according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 11.00 55 teeth **110 XL**	PL: 12.00 60 teeth **120 XL**	PL: 13.00 65 teeth **130 XL**	PL: 14.00 70 teeth **140 XL**	PL: 15.00 75 teeth **150 XL**	PL: 16.00 80 teeth **160 XL**	PL: 17.00 85 teeth **170 XL**	PL: 18.00 90 teeth **180 XL**	PL: 19.00 95 teeth **190 XL**	PL: 20.00 100 teeth **200 XL**	PL: 21.00 105 teeth **210 XL**	PL: 22.00 110 teeth **220 XL**	PL: 23.00 115 teeth **230 XL**	PL: 24.00 120 teeth **240 XL**	PL: 25.00 125 teeth **250 XL**	PL: 26.00 130 teeth **260 XL**	speed ratio □
2.50 2.70 3.10	3.00 3.20 3.60	3.50 3.70 4.10	4.00 4.20 4.60	4.50 4.70 5.10	5.00 5.20 5.60	5.50 5.70 6.10	6.00 6.20 6.60	6.50 6.70 7.10	7.00 7.20 7.60	7.50 7.70 8.10	8.00 8.20 8.60	8.50 8.70 9.10	9.00 9.20 9.60	9.50 9.70 10.10	10.00 10.20 10.60	**1.00**
3.30 3.40 3.50	3.80 3.90 4.00	4.30 4.40 4.50	4.80 4.90 5.00	5.30 5.40 5.50	5.80 5.90 6.00	6.30 6.40 6.50	6.80 6.90 7.00	7.30 7.40 7.50	7.80 7.90 8.00	8.30 8.40 8.50	8.80 8.90 9.00	9.30 9.40 9.50	9.80 9.90 10.00	10.30 10.40 10.50	10.80 10.90 11.00	
3.70 3.90 4.00	4.20 4.40 4.50	4.70 4.90 5.00	5.20 5.40 5.50	5.70 5.90 6.00	6.20 6.40 6.50	6.70 6.90 7.00	7.20 7.40 7.50	7.70 7.90 8.00	8.20 8.40 8.50	8.70 8.90 9.00	9.20 9.40 9.50	9.70 9.90 10.00	10.20 10.40 10.50	10.70 10.90 11.00	11.20 11.40 11.50	
4.10 4.30 4.40⑤ 4.50⑤	4.60 4.80 4.90⑤ 5.00⑤	5.10 5.30 5.40⑤ 5.50⑤	5.60 5.80 5.90⑤ 6.00⑤	6.10 6.30 6.40⑤ 6.50⑤	6.60 6.80 6.90⑤ 7.00⑤	7.10 7.30 7.40⑤ 7.50⑤	7.60 7.80 7.90⑤ 8.00⑤	8.10 8.30 8.40⑤ 8.50⑤	8.60 8.80 8.90⑤ 9.00⑤	9.10 9.30 9.40⑤ 9.50⑤	9.60 9.80 9.90⑤ 10.00⑤	10.10 10.30 10.40⑤ 10.50⑤	10.60 10.80 10.90⑤ 11.00⑤	11.10 11.30 11.40⑤ 11.50⑤	11.60 11.80 11.90⑤ 12.00⑤	
3.35 3.45	3.85 3.95	4.35 4.45	4.85 4.95	5.35 5.45	5.85 5.95	6.35 6.45	6.85 6.95	7.35 7.45	7.85 7.95	8.35 8.45	8.85 8.95	9.35 9.45	9.85 9.95	10.35 10.45	10.85 10.95	**1.05**
2.39 2.59 3.95 4.05	2.89 3.09 4.45 4.55	3.39 3.59 4.95 5.05	3.89 4.10 5.45 5.55	4.40 4.60 5.95 6.05	4.90 5.10 6.45 6.55	5.40 5.60 6.95 7.05	5.90 6.10 7.45 7.55	6.40 6.60 7.95 8.05	6.90 7.10 8.45 8.55	7.40 7.60 8.95 9.05	7.90 8.10 9.45 9.55	8.40 8.60 9.95 10.05	8.90 9.10 10.45 10.55	9.40 9.60 10.95 11.05	9.90 10.10 11.45 11.55	**1.07**
3.19 4.35⑤	3.69 4.85⑤	4.20 5.35⑤	4.70 5.85⑤	5.20 6.35⑤	5.70 6.85⑤	6.20 7.35⑤	6.70 7.85⑤	7.20 8.35⑤	7.70 8.85⑤	8.20 9.35⑤	8.70 9.85⑤	9.20 10.35⑤	9.70 10.85⑤	10.20 11.35⑤	10.70 11.85⑤	**1.09**
3.39 4.45④	3.89 4.95④	4.40 5.45④	4.90 5.95④	5.40 6.45④	5.90 6.95④	6.40 7.45④	6.90 7.95④	7.40 8.45④	7.90 8.95④	8.40 9.45④	8.90 9.95④	9.40 10.45④	9.90 10.95④	10.40 11.45④	10.90 11.95④	**1.10**
3.59	4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60	11.10	**1.11**
3.79	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	**1.13**
2.49 3.24 4.00	2.99 3.74 4.50	3.49 4.24 5.00	3.99 4.74 5.50	4.49 5.24 6.00	4.99 5.74 6.50	5.49 6.24 7.00	5.99 6.74 7.50	6.49 7.24 8.00	6.99 7.74 8.50	7.49 8.24 9.00	7.99 8.74 9.50	8.49 9.25 10.00	8.99 9.75 10.50	9.49 10.25 11.00	9.99 10.75 11.50	**1.14**
2.89 3.54 4.20⑤	3.39 4.04 4.70⑤	3.89 4.54 5.20⑤	4.39 5.04 5.70⑤	4.89 5.54 6.20⑤	5.39 6.04 6.70⑤	5.89 6.54 7.20⑤	6.39 7.04 7.70⑤	6.89 7.54 8.20⑤	7.39 8.04 8.70⑤	7.89 8.54 9.20⑤	8.39 9.05 9.70⑤	8.89 9.55 10.20⑤	9.39 10.05 10.70⑤	9.89 10.55 11.20⑤	10.39 11.05 11.70⑤	**1.17**
— 3.29 3.84 4.40④	2.69 3.79 4.34 4.90④	3.19 4.29 4.84 5.40④	3.69 4.79 5.34 5.90④	4.19 5.29 5.84 6.40④	4.69 5.79 6.34 6.90④	5.19 6.29 6.84 7.40④	5.69 6.79 7.34 7.90④	6.19 7.29 7.84 8.40④	6.69 7.79 8.34 8.90④	7.19 8.29 8.84 9.40④	7.69 8.79 9.35 9.90④	8.19 9.29 9.85 10.40④	8.69 9.79 10.35 10.90④	9.19 10.29 10.85 11.40④	9.69 10.79 11.35 11.90④	**1.20**
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	10.99	**1.22**
2.79 3.69 4.14⑤	3.29 4.19 4.64⑤	3.79 4.69 5.14⑤	4.29 5.19 5.64⑤	4.79 5.69 6.14⑤	5.29 6.19 6.64⑤	5.79 6.69 7.14⑤	6.29 7.19 7.64⑤	6.79 7.69 8.14⑤	7.29 8.19 8.64⑤	7.79 8.69 9.15⑤	8.29 9.19 9.65⑤	8.79 9.69 10.15⑤	9.29 10.19 10.65⑤	9.79 10.69 11.15⑤	10.29 11.19 11.65⑤	**1.25**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
width factor	.15	.21	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XL
1/5″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity						center distance, inches†				
	driveR		driveN		3500 rpm driveR speed		1750 rpm driveR speed		1160 rpm driveR speed		according to belt pitch length (PL), inches and corresponding code number (bold type)				
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	PL: 6.00 30 teeth **60 XL**	PL: 7.00 35 teeth **70 XL**	PL: 8.00 40 teeth **80 XL**	PL: 9.00 45 teeth **90 XL**	PL: 10.00 50 teeth **100 XL**
1.27	22 XL	1.401	28 XL	1.783	2750	1.57	1375	.79	911	.52	—	—	—	1.99	2.49
	11 XL	.700	14 XL	.891	2750	—	1375	.39	911	.26	1.74⑤	2.24⑤	2.74⑤	3.24⑤	3.74⑤
1.29	28 XL	1.783	36 XL	2.292	2722	1.98	1361	1.00	902	.66	—	—	—	—	—
	14 XL	.891	18 XL	1.146	2722	1.00	1361	.50	902	.33	1.39	1.89	2.39	2.89	3.39
1.31	16 XL	1.019	21 XL	1.337	2667	1.15	1333	.58	884	.38	—	1.64	2.14	2.64	3.14
1.33	30 XL	1.910	40 XL	2.546	2625	2.11	1313	1.07	870	.71	—	—	—	—	—
	24 XL	1.528	32 XL	2.037	2625	1.71	1313	.86	870	.56	—	—	—	—	2.18
	21 XL	1.337	28 XL	1.783	2625	1.49	1313	.75	870	.50	—	—	—	2.03	2.54
	18 XL	1.146	24 XL	1.528	2625	1.28	1313	.64	870	.42	—	—	1.89	2.39	2.89
	15 XL	.955	20 XL	1.273	2625	1.07	1313	.53	870	.36	—	1.74	2.24	2.74	3.24
	12 XL	.764	16 XL	1.019	2625	.86	1313	.43	870	.28	1.59⑤	2.09⑤	2.59⑤	3.09⑤	3.59⑤
1.36	22 XL	1.401	30 XL	1.910	2567	1.57	1283	.79	851	.52	—	—	—	—	2.38
	11 XL	.700	15 XL	.955	2567	—	1283	.38	851	.26	1.69⑤	2.19⑤	2.69⑤	3.19⑤	3.69⑤
1.38	16 XL	1.019	22 XL	1.401	2545	1.15	1273	.58	844	.38	—	1.58	2.09	2.59	3.09
1.40	30 XL	1.910	42 XL	2.674	2500	2.11	1250	1.07	829	.71	—	—	—	—	—
	20 XL	1.273	28 XL	1.783	2500	1.42	1250	.72	829	.46	—	—	—	2.08	2.58
	15 XL	.955	21 XL	1.337	2500	1.07	1250	.53	829	.36	—	1.68	2.19	2.69	3.19
	10 XL	.637	14 XL	.891	2500	—	1250	.36■	829	.23	1.79④	2.29④	2.79④	3.29④	3.79④
1.43	28 XL	1.783	40 XL	2.546	2450	1.98	1225	1.00	812	.66	—	—	—	—	—
	21 XL	1.337	30 XL	1.910	2450	1.49	1225	.75	812	.50	—	—	—	1.92	2.43
	14 XL	.891	20 XL	1.273	2450	1.00	1225	.50	812	.33	—	1.79	2.29	2.79	3.29
1.45	22 XL	1.401	32 XL	2.037	2406	1.57	1203	.79	798	.52	—	—	—	—	2.27
	11 XL	.700	16 XL	1.019	2406	—	1203	.39	798	.26	1.64⑤	2.14⑤	2.64⑤	3.14⑤	3.64⑤
1.47	30 XL	1.910	44 XL	2.801	2386	2.11	1193	1.07	791	.71	—	—	—	—	—
	15 XL	.955	22 XL	1.401	2386	1.07	1193	.53	791	.36	—	1.63	2.13	2.64	3.14
1.50	28 XL	1.783	42 XL	2.674	2334	1.98	1167	1.00	773	.66	—	—	—	—	—
	24 XL	1.528	36 XL	2.292	2334	1.71	1167	.86	773	.56	—	—	—	—	—
	20 XL	1.273	30 XL	1.910	2334	1.42	1167	.72	773	.46	—	—	—	1.97	2.48
	16 XL	1.019	24 XL	1.528	2334	1.15	1167	.58	773	.38	—	—	1.98	2.48	2.98
	14 XL	.891	21 XL	1.337	2334	1.00	1167	.50	773	.33	—	1.73	2.23	2.74	3.24
	12 XL	.764	18 XL	1.146	2334.	.86	1167	.43	773	.28	1.48⑤	1.99⑤	2.49⑤	2.99⑤	3.49⑤
	10 XL	.637	15 XL	.955	2334	—	1167	.36■	773	.23	1.74④	2.24④	2.74④	3.24④	3.74④
1.52	21 XL	1.337	32 XL	2.037	2297	1.49	1148	.75	761	.50	—	—	—	—	2.32
1.56	18 XL	1.146	28 XL	1.783	2250	1.28	1125	.64	746	.42	—	—	—	2.17	2.68
1.57	28 XL	1.783	44 XL	2.801	2227	1.98	1114	1.00	738	.66	—	—	—	—	—
	14 XL	.891	22 XL	1.401	2227	1.00	1114	.50	738	.33	—	1.68	2.18	2.68	3.19
1.60	30 XL	1.910	48 XL	3.056	2188	2.11	1094	1.07	725	.71	—	—	—	—	—
	20 XL	1.273	32 XL	2.037	2188	1.42	1094	.72	725	.46	—	—	—	1.86	2.36
	15 XL	.955	24 XL	1.528	2188	1.07	1094	.53	725	.36	—	1.52	2.02	2.53	3.03
	10 XL	.637	16 XL	1.019	2188	—	1094	.36■	725	.23	1.68④	2.19④	2.69④	3.19④	3.69④

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

XL 1/5" Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 11.00 55 teeth 110 XL	PL: 12.00 60 teeth 120 XL	PL: 13.00 65 teeth 130 XL	PL: 14.00 70 teeth 140 XL	PL: 15.00 75 teeth 150 XL	PL: 16.00 80 teeth 160 XL	PL: 17.00 85 teeth 170 XL	PL: 18.00 90 teeth 180 XL	PL: 19.00 95 teeth 190 XL	PL: 20.00 100 teeth 200 XL	PL: 21.00 105 teeth 210 XL	PL: 22.00 110 teeth 220 XL	PL: 23.00 115 teeth 230 XL	PL: 24.00 120 teeth 240 XL	PL: 25.00 125 teeth 250 XL	PL: 26.00 130 teeth 260 XL	speed ratio □
2.99 4.24⑤	3.49 4.74⑤	3.99 5.24⑤	4.49 5.74⑤	4.99 6.24⑤	5.49 6.74⑤	5.99 7.24⑤	6.49 7.74⑤	6.99 8.24⑤	7.49 8.74⑤	7.99 9.25⑤	8.49 9.75⑤	8.99 10.25⑤	9.49 10.75⑤	9.99 11.25⑤	10.49 11.75⑤	**1.27**
2.28 3.89	2.78 4.39	3.29 4.89	3.79 5.39	4.29 5.89	4.79 6.39	5.29 6.89	5.79 7.39	6.29 7.89	6.79 8.39	7.29 8.89	7.79 9.39	8.29 9.89	8.79 10.39	9.29 10.89	9.79 11.39	**1.29**
3.64	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	**1.31**
— 2.68 3.04	2.48 3.19 3.54	2.98 3.69 4.04	3.48 4.19 4.54	3.98 4.69 5.04	4.48 5.19 5.54	4.99 5.69 6.04	5.49 6.19 6.54	5.99 6.69 7.04	6.49 7.19 7.54	6.99 7.69 8.04	7.49 8.19 8.54	7.99 8.69 9.04	8.49 9.19 9.54	8.99 9.69 10.04	9.49 10.19 10.54	**1.33**
3.39 3.74 4.09⑤	3.89 4.24 4.59⑤	4.39 4.74 5.09⑤	4.89 5.24 5.59⑤	5.39 5.74 6.09⑤	5.89 6.24 6.59⑤	6.39 6.74 7.09⑤	6.89 7.24 7.59⑤	7.39 8.24 8.09⑤	7.89 8.24 8.59⑤	8.39 8.74 9.09⑤	8.89 9.24 9.59⑤	9.39 9.74 10.09⑤	9.89 10.24 10.59⑤	10.39 10.74 11.09⑤	10.89 11.24 11.59⑤	
2.88 4.19⑤	3.39 4.69⑤	3.89 5.19⑤	4.39 5.69⑤	4.89 6.19⑤	5.39 6.69⑤	5.89 7.19⑤	6.39 7.69⑤	6.89 8.19⑤	7.39 8.69⑤	7.89 9.19⑤	8.39 9.69⑤	8.89 10.19⑤	9.39 10.69⑤	9.89 11.19⑤	10.39 11.69⑤	**1.36**
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	11.09	**1.38**
— 3.09 3.69 4.29④	— 3.59 4.19 4.79④	2.87 4.09 4.69 5.29④	3.37 4.59 5.19 5.79④	3.88 5.09 5.69 6.29④	4.38 5.59 6.19 6.79④	4.88 6.09 6.69 7.29④	5.38 6.59 7.19 7.79④	5.88 7.09 7.69 8.29④	6.38 7.59 8.19 8.79④	6.88 8.09 8.69 9.29④	7.39 8.59 9.19 9.79④	7.89 9.09 9.69 10.29④	8.39 9.59 10.19 10.79④	8.89 10.09 10.69 11.29④	9.39 10.59 11.19 11.79④	**1.40**
— 2.93 3.79	2.57 3.43 4.29	3.07 3.94 4.79	3.58 4.44 5.29	4.08 4.94 5.79	4.58 5.44 6.29	5.08 5.94 6.79	5.58 6.44 7.29	6.08 6.94 7.79	6.58 7.44 8.29	7.09 7.94 8.79	7.59 8.44 9.29	8.09 8.94 9.79	8.59 9.44 10.29	9.09 9.94 10.79	9.59 10.44 11.29	**1.43**
2.78 4.14⑤	3.28 4.64⑤	3.78 5.14⑤	4.28 5.64⑤	4.78 6.14⑤	5.29 6.64⑤	5.79 7.14⑤	6.29 7.64⑤	6.79 8.14⑤	7.29 8.64⑤	7.79 9.14⑤	8.29 9.64⑤	8.79 10.14⑤	9.29 10.64⑤	9.79 11.14⑤	10.29 11.64⑤	**1.45**
— 3.64	— 4.14	2.76 4.64	3.27 5.14	3.77 5.64	4.27 6.14	4.77 6.64	5.28 7.14	5.78 7.64	6.28 8.14	6.78 8.64	7.28 9.14	7.78 9.64	8.28 10.14	8.78 10.64	9.28 11.14	**1.47**
— 2.47 2.98	2.46 2.97 3.48	2.96 3.47 3.98	3.47 3.98 4.48	3.97 4.48 4.99	4.47 5.98 5.49	4.98 5.48 5.99	5.48 5.98 6.49	5.98 6.48 6.99	6.48 6.98 7.49	6.98 7.49 7.99	7.48 7.99 8.49	7.98 8.49 8.99	8.48 8.99 9.49	8.98 9.49 9.99	9.49 9.99 10.49	**1.50**
3.49 3.74 3.99⑤ 4.24④	3.99 4.24 4.49⑤ 4.74④	4.49 4.74 4.99⑤ 5.24④	4.99 5.24 5.49⑤ 5.74④	5.49 5.74 5.99⑤ 6.24④	5.99 6.24 6.49⑤ 6.74④	6.49 6.74 6.99⑤ 7.24④	6.99 7.24 7.49⑤ 7.74④	7.49 7.74 7.99⑤ 8.24④	7.99 8.24 8.49⑤ 8.74④	8.49 8.74 8.99⑤ 9.24④	8.99 9.24 9.49⑤ 9.74④	9.49 9.74 9.99⑤ 10.24④	9.99 10.24 10.49⑤ 10.74④	10.49 10.74 10.99⑤ 11.24④	10.99 11.24 11.49⑤ 11.74④	
2.82	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	**1.52**
3.18	3.68	4.18	4.68	5.19	6.59	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	**1.56**
— 3.69	— 4.19	2.85 4.69	3.36 5.19	3.86 5.69	4.37 6.19	4.87 6.69	5.37 7.19	5.87 7.69	6.38 8.19	6.88 8.69	7.38 9.19	7.88 9.69	8.38 10.19	8.88 10.69	9.38 11.19	**1.57**
— 2.87 3.53 4.19④	— 3.37 4.04 4.69④	— 3.88 4.54 5.19④	3.04 4.38 5.04 5.69④	3.55 4.88 5.54 6.19④	4.06 5.38 6.04 6.69④	4.56 5.88 6.54 7.19④	5.06 6.38 7.04 7.69④	5.57 6.88 7.54 8.19④	6.07 7.39 8.04 8.69④	6.57 7.89 8.54 9.19④	7.07 8.39 9.04 9.69④	7.57 8.89 9.54 10.19④	8.08 9.39 10.04 10.69④	8.58 9.89 10.54 11.19④	9.08 10.39 11.04 11.69④	**1.60**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
width factor	.15	.21	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XL
1/5″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 6.00 30 teeth **60 XL**	PL: 7.00 35 teeth **70 XL**	PL: 8.00 40 teeth **80 XL**	PL: 9.00 45 teeth **90 XL**	PL: 10.00 50 teeth **100 XL**
1.64	22 XL	1.401	36 XL	2.292	2139	1.57	1069	.79	709	.52	—	—	—	—	—
	11 XL	.700	18 XL	1.146	2139	—	1069	.39	709	.26	1.53⑤	2.03⑤	2.54⑤	3.04⑤	3.54⑤
1.67	24 XL	1.528	40 XL	2.546	2100	1.71	1050	.86	696	.56	—	—	—	—	—
	18 XL	1.146	30 XL	1.910	2100	1.28	1050	.64	696	.42	—	—	—	2.06	2.57
	12 XL	.764	20 XL	1.273	2100	.86	1050	.43	696	.28	1.37⑤	1.88⑤	2.38⑤	2.88⑤	3.39⑤
1.71	28 XL	1.783	48 XL	3.056	2042	1.98	1021	1.00	677	.66	—	—	—	—	—
	21 XL	1.337	36 XL	2.292	2042	1.49	1021	.75	677	.50	—	—	—	—	2.09
	14 XL	.891	24 XL	1.528	2042	1.00	1021	.50	677	.33	—	1.56	2.07	2.58	3.08
1.75	24 XL	1.528	42 XL	2.674	2000	1.71	1000	.86	663	.56	—	—	—	—	—
	16 XL	1.019	28 XL	1.783	2000	1.15	1000	.58	663	.38	—	—	1.75	2.26	2.77
	12 XL	.764	21 XL	1.337	2000	.86	1000	.43	663	.28	1.31⑤	1.82⑤	2.33⑤	2.83⑤	3.33⑤
1.78	18 XL	1.146	32 XL	2.037	1969	1.28	984	.64	653	.42	—	—	—	1.94	2.46
1.80	20 XL	1.273	36 XL	2.292	1944	1.42	972	.72	644	.46	—	—	—	—	2.13
	10 XL	.637	18 XL	1.146	1944	—	972	.36■	644	.23	1.57④	2.08④	2.58④	3.09④	3.59④
1.82	22 XL	1.401	40 XL	2.546	1925	1.57	963	.79	637	.52	—	—	—	—	—
	11 XL	.700	20 XL	1.273	1925	—	963	.39	637	.26	1.42④	1.92④	2.43④	2.93④	3.43⑤
1.83	24 XL	1.528	44 XL	2.801	1909	1.71	955	.86	633	.56	—	—	—	—	—
	12 XL	.764	22 XL	1.401	1909	.86	955	.43	633	.28	—	1.77⑤	2.27⑤	2.78⑤	3.28⑤
1.87	15 XL	.955	28 XL	1.783	1875	1.07	937	.53	621	.36	—	—	1.80	2.31	2.82
1.88	16 XL	1.019	30 XL	1.910	1867	1.15	933	.58	619	.38	—	—	—	2.15	2.66
1.90	21 XL	1.337	40 XL	2.546	1838	1.49	919	.75	609	.50	—	—	—	—	—
1.91	22 XL	1.401	42 XL	2.674	1833	1.57	917	.79	607	.52	—	—	—	—	—
	11 XL	.700	21 XL	1.337	1833	—	917	.39	607	.26	1.36④	1.87④	2.37④	2.88⑤	3.38⑤
2.00	30 XL	1.910	60 XL	3.820	1750	2.11	875	1.07	580	.71	—	—	—	—	—
	24 XL	1.528	48 XL	3.056	1750	1.71	875	.86	580	.56	—	—	—	—	—
	22 XL	1.401	44 XL	2.801	1750	1.57	875	.79	580	.52	—	—	—	—	—
	21 XL	1.337	42 XL	2.674	1750	1.49	875	.75	580	.50	—	—	—	—	—
	20 XL	1.273	40 XL	2.546	1750	1.42	875	.72	580	.46	—	—	—	—	—
	18 XL	1.146	36 XL	2.292	1750	1.28	875	.64	580	.42	—	—	—	—	2.22
	16 XL	1.019	32 XL	2.037	1750	1.15	875	.58	580	.38	—	—	—	2.03	2.54
	15 XL	.955	30 XL	1.910	1750	1.07	875	.53	580	.36	—	—	1.68	2.19	2.70
	14 XL	.891	28 XL	1.783	1750	1.00	875	.50	580	.33	—	—	1.84⑤	2.35	2.86⑤
	12 XL	.764	24 XL	1.528	1750	.86	875	.43	580	.28	—	1.65④	2.16④	2.67⑤	3.17⑤
	11 XL	.700	22 XL	1.401	1750	—	875	.39	580	.26	1.30④	1.81④	2.32④	2.82⑤	3.33⑤
	10 XL	.637	20 XL	1.273	1750	—	875	.36■	580	.23	1.46④	1.97④	2.48④	2.98④	3.48④
2.10	21 XL	1.337	44 XL	2.801	1670	1.49	835	.75	554	.50	—	—	—	—	—
	20 XL	1.273	42 XL	2.674	1666	1.42	833	.72	552	.46	—	—	—	—	—
	10 XL	.637	21 XL	1.337	1666	—	833	.36■	552	.23	1.40④	1.91④	2.42④	2.92④	3.43④
2.13	15 XL	.955	32 XL	2.037	1641	1.07	820	.53	544	.36	—	—	—	2.07	2.59

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

XL 1/5″ Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 11.00 55 teeth 110 XL	PL: 12.00 60 teeth 120 XL	PL: 13.00 65 teeth 130 XL	PL: 14.00 70 teeth 140 XL	PL: 15.00 75 teeth 150 XL	PL: 16.00 80 teeth 160 XL	PL: 17.00 85 teeth 170 XL	PL: 18.00 90 teeth 180 XL	PL: 19.00 95 teeth 190 XL	PL: 20.00 100 teeth 200 XL	PL: 21.00 105 teeth 210 XL	PL: 22.00 110 teeth 220 XL	PL: 23.00 115 teeth 230 XL	PL: 24.00 120 teeth 240 XL	PL: 25.00 125 teeth 250 XL	PL: 26.00 130 teeth 260 XL	speed ratio □
2.56 4.04⑤	3.06 4.54⑤	3.57 5.04⑤	4.07 5.54⑤	4.57 6.04⑤	5.08 6.54⑤	5.58 7.04⑤	6.08 7.54⑤	6.58 8.04⑤	7.08 8.54⑤	7.58 9.04⑤	8.08 9.54⑤	8.58 10.04⑤	9.08 10.54⑤	9.59 11.04⑤	10.09 11.54⑤	**1.64**
— 3.07 3.89⑤	2.75 3.58 4.39⑤	3.26 4.08 4.89⑤	3.76 4.58 5.39⑤	4.27 5.08 5.89⑤	4.77 5.58 6.39⑤	5.27 6.08 6.89⑤	5.77 6.58 7.39⑤	6.27 7.09 7.89⑤	6.78 7.59 8.39⑤	7.28 8.09 8.89⑤	7.78 8.59 9.39⑤	8.28 9.09 9.89⑤	8.78 9.59 10.39⑤	9.28 10.09 10.89⑤	9.78 10.59 11.39⑤	**1.67**
— 2.60 3.58	— 3.11 4.08	— 3.61 4.58	3.13 4.12 5.09	3.64 4.62 5.59	4.15 5.12 6.09	4.65 5.63 6.59	5.16 6.13 7.09	5.66 6.63 7.59	6.16 7.13 8.09	6.67 7.63 8.59	7.17 8.13 9.09	7.67 8.63 9.59	8.17 9.13 10.09	8.67 9.63 10.59	9.17 10.13 11.09	**1.71**
— 3.27 3.83⑤	2.63 3.78 4.34⑤	3.14 4.28 4.84⑤	3.65 4.78 5.34⑤	4.16 5.28 5.84⑤	4.66 5.78 6.34⑤	5.16 6.28 6.84⑤	5.67 6.78 7.34⑤	6.17 7.29 7.84⑤	6.67 7.79 8.34⑤	7.17 8.29 8.84⑤	7.67 8.79 9.34⑤	8.18 9.29 9.84⑤	8.68 9.79 10.34⑤	9.18 10.29 10.84⑤	9.68 10.79 11.34⑤	**1.75**
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	9.99	10.49	**1.78**
2.65 4.09④	3.15 4.59④	3.66 5.09④	4.16 5.69④	4.67 6.09④	5.17 6.59④	5.67 7.09④	6.17 7.59④	6.68 8.09④	7.18 8.59④	7.68 9.09④	8.18 9.59④	8.68 10.09④	9.18 10.59④	9.68 11.09④	10.18 11.59④	**1.80**
2.32 3.94⑤	2.84 4.44⑤	3.35 4.94⑤	3.85 5.44⑤	4.36 5.94⑤	4.86 6.44⑤	5.36 6.94⑤	5.87 7.44⑤	6.37 7.94⑤	6.87 8.44⑤	7.37 8.94⑤	7.87 9.44⑤	8.38 9.94⑤	8.88 10.44⑤	9.38 10.94⑤	9.88 11.44⑤	**1.82**
— 3.78⑤	2.51 4.28⑤	3.03 4.78⑤	3.54 5.29⑤	4.05 5.79⑤	4.55 6.29⑤	5.06 6.79⑤	5.56 7.29⑤	6.06 7.79⑤	6.56 8.29⑤	7.07 8.79⑤	7.57 9.29⑤	8.07 9.79⑤	8.57 10.29⑤	9.07 10.79⑤	9.57 11.29⑤	**1.83**
3.32	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	**1.87**
3.16	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	**1.88**
2.37	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	**1.90**
— 3.88⑤	2.72 4.38⑤	3.23 4.89⑤	3.74 5.39⑤	4.25 5.89⑤	4.75 6.39⑤	5.26 6.89⑤	5.76 7.39⑤	6.26 7.89⑤	6.77 8.39⑤	7.27 8.89⑤	7.77 9.39⑤	8.27 9.89⑤	8.77 10.39⑤	9.27 10.89⑤	9.77 11.39⑤	**1.91**
— — — 2.25	— — 2.60 2.76	— 2.79 3.12 3.28	— 3.31 3.63 3.79	— 3.82 4.14 4.29	3.36 4.33 4.64 4.80	3.88 4.84 5.15 5.30	4.39 5.34 5.65 5.81	4.90 5.85 6.16 6.31	5.41 6.35 6.66 6.81	5.92 6.85 7.16 7.31	6.42 7.36 7.66 7.82	6.93 7.86 8.17 8.32	7.43 8.36 8.67 8.82	7.94 8.86 9.17 9.32	8.44 9.36 9.67 9.82	**2.00**
2.41 2.74 3.05 3.21	2.93 3.24 3.56 3.71	3.44 3.75 4.06 4.22	3.94 4.26 4.57 4.72	4.45 4.76 5.07 5.22	4.95 5.26 5.57 5.73	5.46 5.77 6.07 6.23	5.96 6.27 6.58 6.73	6.46 6.77 7.08 7.23	6.97 7.27 7.58 7.73	7.47 7.77 8.08 8.23	7.97 8.28 8.58 8.73	8.47 8.78 9.08 9.23	8.97 9.28 9.58 9.73	9.47 9.78 10.08 10.23	9.98 10.28 10.58 10.73	
3.37 3.68⑤ 3.83⑤ 3.98④	3.87 4.18⑤ 4.33⑤ 4.48④	4.37 4.68⑤ 4.83⑤ 4.99④	4.88 5.18⑤ 5.33⑤ 5.49④	5.38 5.68⑤ 5.84⑤ 5.99④	5.88 6.18⑤ 6.34⑤ 6.49④	6.38 6.68⑤ 6.84⑤ 6.99④	6.88 7.19⑤ 7.34⑤ 7.49④	7.38 7.69⑤ 7.84⑤ 7.99④	7.88 8.19⑤ 8.34⑤ 8.49④	8.38 8.69⑤ 8.84⑤ 8.99④	8.88 9.19⑤ 9.34⑤ 9.49④	9.38 9.69⑤ 9.84⑤ 9.99④	9.89 10.19⑤ 10.34⑤ 10.49④	10.39 10.69⑤ 10.84⑤ 10.99④	10.89 11.19⑤ 11.34⑤ 11.49④	
— 2.29 3.93④	2.64 2.81 4.43④	3.16 3.32 4.93④	3.67 3.83 5.43④	4.18 4.34 5.94④	4.69 4.84 6.44④	5.19 5.35 6.94④	5.70 5.85 7.44④	6.20 6.36 7.94④	6.71 6.86 8.44④	7.21 7.36 8.94④	7.71 7.86 9.44④	8.21 8.37 9.94④	8.71 8.87 10.44④	9.22 9.37 10.94④	9.72 9.87 11.44④	**2.10**
3.10	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	**2.13**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
width factor	.15	.21	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XL
1/5″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	pulley combination: driveR pitch diameter in.	pulley combination: driveN code: no. of grooves	pulley combination: driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed: driveN speed rpm	3500 rpm driveR speed: hp for 1 inch belt	1750 rpm driveR speed: driveN speed rpm	1750 rpm driveR speed: hp for 1 inch belt	1160 rpm driveR speed: driveN speed rpm	1160 rpm driveR speed: hp for 1 inch belt	center distance, inches†: according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 6.00 30 teeth 60 XL	PL: 7.00 35 teeth 70 XL	PL: 8.00 40 teeth 80 XL	PL: 9.00 45 teeth 90 XL	PL: 10.00 50 teeth 100 XL
2.14	28 XL	1.783	60 XL	3.820	1633	1.98	817	1.00	542	.66	—	—	—	—	—
	14 XL	.891	30 XL	1.910	1633	1.08	817	.50	542	.33	—	—	1.72⑤	2.24⑤	2.75
2.18	22 XL	1.401	48 XL	3.056	1604	1.57	802	.79	532	.52	—	—	—	—	—
	11 XL	.700	24 XL	1.528	1604	—	802	.39	532	.26	—	1.69④	2.21④	2.71④	3.22④
2.20	20 XL	1.273	44 XL	2.801	1591	1.42	795	.72	527	.46	—	—	—	—	—
	10 XL	.637	22 XL	1.401	1591	—	795	.36■	527	.23	1.34③	1.86④	2.36④	2.87④	3.37④
2.22	18 XL	1.146	40 XL	2.546	1575	1.28	788	.64	523	.42	—	—	—	—	—
2.25	16 XL	1.019	36 XL	2.292	1556	1.15	778	.58	516	.38	—	—	—	—	2.31
2.29	21 XL	1.337	48 XL	3.056	1531	1.49	766	.75	508	.50	—	—	—	—	—
	14 XL	.891	32 XL	2.037	1531	1.00	766	.50	508	.33	—	—	—	2.12⑤	2.63⑤
2.33	18 XL	1.146	42 XL	2.674	1500	1.28	750	.64	498	.42	—	—	—	—	—
	12 XL	.764	28 XL	1.783	1500	.86	750	.43	498	.28	—	—	1.93④	2.44⑤	2.95⑤
2.40	30 XL	1.910	72 XL	4.584	1458	2.11	729	1.07	483	.71	—	—	—	—	—
	20 XL	1.273	48 XL	3.056	1458	1.42	729	.72	483	.46	—	—	—	—	—
	15 XL	.955	36 XL	2.292	1458	1.07	729	.53	483	.36	—	—	—	—	2.35
	10 XL	.637	24 XL	1.528	1458	—	729	.36■	483	.23	—	1.74④	2.25④	2.76④	3.27④
2.44	18 XL	1.146	44 XL	2.801	1432	1.28	716	.64	475	.42	—	—	—	—	—
2.50	24 XL	1.528	60 XL	3.820	1400	1.71	700	.86	464	.56	—	—	—	—	—
	16 XL	1.019	40 XL	2.546	1400	1.15	700	.58	464	.38	—	—	—	—	2.05
	12 XL	.764	30 XL	1.910	1400	.86	700	.43	464	.28	—	—	1.80④	2.32④	2.84⑤
2.55	11 XL	.700	28 XL	1.783	1375		688	.39	456	.26	—	—	1.97④	2.49④	3.00④
2.57	28 XL	1.783	72 XL	4.584	1361	1.98	681	1.00	451	.66	—	—	—	—	—
	14 XL	.891	36 XL	2.292	1361	1.00	681	.50	451	.33	—	—	—	1.86⑤	2.39⑤
2.63	16 XL	1.019	42 XL	2.674	1333	1.15	666	.58	442	.38	—	—	—	—	—
2.67	18 XL	1.146	48 XL	3.056	1312	1.28	656	.64	435	.42	—	—	—	—	—
	15 XL	.955	40 XL	2.546	1312	1.07	656	.53	435	.36	—	—	—	—	2.09⑤
	12 XL	.764	32 XL	2.037	1312	.86	656	.43	435	.28	—	—	1.67④	2.20④	2.72⑤
2.73	22 XL	1.401	60 XL	3.820	1283	1.57	642	.79	425	.52	—	—	—	—	—
	11 XL	.700	30 XL	1.910	1283	—	642	.39	425	.26	—	—	1.85④	2.37④	2.88④
2.75	16 XL	1.019	44 XL	2.801	1273	1.15	636	.58	422	.38	—	—	—	—	—
2.80	15 XL	.955	42 XL	2.674	1250	1.07	625	.53	414	.36	—	—	—	—	—
	10 XL	.637	28 XL	1.783	1250	—	625	.36■	414	.23	—	1.48③	2.01④	2.53④	3.04④
2.86	21 XL	1.337	60 XL	3.820	1225	1.49	613	.75	406	.50	—	—	—	—	—
	14 XL	.891	40 XL	2.546	1225	1.00	613	.50	406	.33	—	—	—	—	2.13⑤
2.91	11 XL	.700	32 XL	2.037	1203	—	601	.39	399	.26	—	—	1.71③	2.25④	2.76④
2.93	15 XL	.955	44 XL	2.801	1193	1.07	597	.53	396	.36	—	—	—	—	—

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

XL 1/5″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 11.00 55 teeth 110 XL	PL: 12.00 60 teeth 120 XL	PL: 13.00 65 teeth 130 XL	PL: 14.00 70 teeth 140 XL	PL: 15.00 75 teeth 150 XL	PL: 16.00 80 teeth 160 XL	PL: 17.00 85 teeth 170 XL	PL: 18.00 90 teeth 180 XL	PL: 19.00 95 teeth 190 XL	PL: 20.00 100 teeth 200 XL	PL: 21.00 105 teeth 210 XL	PL: 22.00 110 teeth 220 XL	PL: 23.00 115 teeth 230 XL	PL: 24.00 120 teeth 240 XL	PL: 25.00 125 teeth 250 XL	PL: 26.00 130 teeth 260 XL	speed ratio □
— 3.26	— 3.76	— 4.27	— 4.77	— 5.27	3.44 5.77	3.96 6.27	4.48 6.78	4.99 7.28	5.50 7.78	6.01 8.28	6.52 8.78	7.02 9.28	7.53 9.78	8.03 10.28	8.53 10.78	**2.14**
— 3.72⑤	— 4.23⑤	2.88 4.73⑤	3.39 5.23⑤	3.91 5.73⑤	4.42 6.23⑤	4.93 6.73⑤	5.43 7.23⑤	5.94 7.73⑤	6.44 8.24⑤	6.95 8.74⑤	7.45 9.24⑤	7.95 9.74⑤	8.45 10.24⑤	8.96 10.74⑤	9.46 11.24⑤	**2.18**
— 3.88④	2.69 4.38④	3.20 4.88④	3.72 5.38④	4.23 5.88④	4.73 6.38④	5.24 6.88④	5.74 7.39④	6.25 7.89④	6.75 8.39④	7.26 8.89④	7.76 9.39④	8.26 9.89④	8.76 10.39④	9.26 10.89④	9.77 11.39④	**2.20**
2.50	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	**2.22**
2.82	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	**2.25**
— 3.14	2.39 3.65	2.92 4.16	3.44 4.66	3.95 5.16	4.46 5.67	4.97 6.17	5.48 6.67	5.98 7.17	6.49 7.67	6.99 8.18	7.50 8.68	8.00 9.18	8.50 9.68	9.00 10.18	9.51 10.68	**2.29**
2.37 3.46⑤	2.89 3.96⑤	3.41 4.47⑤	3.92 4.97⑤	4.43 5.47⑤	4.94 5.97⑤	5.44 6.48⑤	5.95 6.98⑤	6.45 7.48⑤	6.95 7.98⑤	7.46 8.48⑤	7.96 8.98⑤	8.46 9.48⑤	8.96 9.98⑤	9.46 10.48⑤	9.97 10.98⑤	**2.33**
— — 2.87 3.77④	— 2.43 3.38 4.27④	— 2.96 3.89 4.77④	— 3.48 4.39 5.28④	— 4.00 4.90 5.78④	— 4.51 5.40 6.28④	— 5.02 5.91 6.78④	3.65 5.52 6.41 7.28④	4.18 6.03 6.91 7.78④	4.70 6.53 7.42 8.28④	5.22 7.00 7.92 8.78④	5.74 7.54 8.42 9.28④	6.25 8.05 8.92 9.79④	6.76 8.55 9.42 10.29④	7.27 9.05 9.92 10.79④	7.78 9.55 10.42 11.29④	**2.40**
2.24	2.77	3.29	3.81	4.32	4.82	5.33	5.84	6.34	6.85	7.35	7.85	8.35	8.86	9.36	9.86	**2.44**
— 2.58 3.35⑤	— 3.10 3.85⑤	— 3.61 4.36⑤	— 4.12 4.86⑤	3.08 4.63 5.36⑤	3.61 5.14 5.87⑤	4.14 5.64 6.37⑤	4.65 6.15 6.87⑤	5.17 6.65 7.37⑤	5.68 7.15 7.87⑤	6.19 7.66 8.38⑤	6.70 8.16 8.88⑤	7.20 8.66 9.38⑤	7.71 9.16 9.88⑤	8.22 9.67 10.38⑤	8.72 10.17 10.88⑤	**2.50**
3.50④	4.01⑤	4.51⑤	5.02⑤	5.52⑤	6.02⑤	6.52⑤	7.02⑤	7.53⑤	8.03⑤	8.53⑤	9.03⑤	9.53⑤	10.03⑤	10.53⑤	11.03⑤	**2.55**
— 2.91⑤	— 3.42	— 3.93	— 4.44	— 4.95	— 5.45	— 5.95	3.73 6.46	4.26 6.96	4.79 7.46	5.31 7.96	5.83 8.47	6.34 8.97	6.85 9.47	7.36 9.97	7.87 10.47	**2.57**
2.45	2.98	3.50	4.01	4.52	5.03	5.53	6.04	6.54	7.05	7.55	8.05	8.56	9.06	9.56	10.06	**2.63**
— 2.62⑤ 3.23	2.51 3.14 3.74	3.04 3.66 4.25⑤	3.57 4.17 4.75⑤	4.08 4.68 5.26⑤	4.60 5.18 5.76⑤	5.11 5.69 6.26⑤	5.61 6.19 6.77⑤	6.12 6.70 7.27⑤	6.63 7.20 7.77⑤	7.13 7.70 8.27⑤	7.64 8.21 8.77⑤	8.14 8.71 9.27⑤	8.64 9.21 9.77⑤	9.15 9.71 10.28⑤	9.65 10.21 10.78⑤	**2.67**
— 3.39④	— 3.90④	— 4.40⑤	— 4.91⑤	3.16 5.41⑤	3.70 5.91⑤	4.22 6.42⑤	4.74 6.92⑤	5.26 7.42⑤	5.77 7.92⑤	6.28 8.42⑤	6.79 8.93⑤	7.30 9.43⑤	7.80 9.93⑤	8.31 10.43⑤	8.81 10.93⑤	**2.73**
2.32⑤	2.86	3.38	3.89	4.41	4.91	5.42	5.93	6.43	6.94	7.44	7.95	8.45	8.95	9.45	9.96	**2.75**
2.50⑤ 3.55④	3.02 4.06④	3.54 4.56④	4.05 5.06④	4.56 5.57④	5.07 6.07④	5.58 6.57④	6.08 7.07④	6.59 7.57④	7.09 8.08④	7.60 8.58④	8.10 9.08④	8.60 9.58④	9.11 10.08④	9.61 10.58④	10.11 11.08④	**2.80**
— 2.67⑤	— 3.19⑤	— 3.70⑤	— 4.21	3.20 4.72	3.74 5.23	4.26 5.74	4.78 6.24	5.30 6.74	5.81 7.25	6.32 7.75	6.83 8.25	7.34 8.76	7.85 9.26	8.35 9.76	8.86 10.26	**2.86**
3.28④	3.79④	4.29④	4.80⑤	5.30⑤	5.81⑤	6.31⑤	6.81⑤	7.31⑤	7.82⑤	8.32⑤	8.82⑤	9.32⑤	9.82⑤	10.32⑤	10.82⑤	**2.91**
2.36⑤	2.90⑤	3.42	3.94	4.45	4.96	5.47	5.97	6.48	6.98	7.49	7.99	8.50	9.00	9.50	10.00	**2.93**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
width factor	.15	.21	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XL
1/5″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 6.00 30 teeth 60 XL	PL: 7.00 35 teeth 70 XL	PL: 8.00 40 teeth 80 XL	PL: 9.00 45 teeth 90 XL	PL: 10.00 50 teeth 100 XL
3.00	24 XL	1.528	72 XL	4.584	1167	1.71	583	.86	387	.56	—	—	—	—	—
	20 XL	1.273	60 XL	3.820	1167	1.42	583	.72	387	.46	—	—	—	—	—
	16 XL	1.019	48 XL	3.056	1167	1.15	583	.58	387	.38	—	—	—	—	
	14 XL	.891	42 XL	2.674	1167	1.00	583	.50	387	.33	—	—	—	—	1.99④
	12 XL	.764	36 XL	2.292	1167	.86	583	.43	387	.28	—	—	—	1.94④	2.48④
	10 XL	.637	30 XL	1.910	1167	—	583	.36■	387	.23	—	—	1.89③	2.41④	2.93④
3.14	14 XL	.891	44 XL	2.801	1114	1.00	557	.50	370	.33	—	—	—	—	—
3.20	15 XL	.955	48 XL	3.056	1094	1.07	547	.53	363	.36	—	—	—	—	—
	10 XL	.637	32 XL	2.037	1094	—	547	.36■	.363	.23	—	—	1.75③	2.29③	2.81③
3.27	22 XL	1.401	72 XL	4.584	1069	1.57	535	.79	355	.52	—	—	—	—	—
	11 XL	.700	36 XL	2.292	1069	—	535	.39	355	.26	—	—	—	1.98③	2.52④
3.33	18 XL	1.146	60 XL	3.820	1050	1.28	525	.64	348	.42	—	—	—	—	—
	12 XL	.764	40 XL	2.546	1050	.86	525	.43	348	.28	—	—	—	—	2.21④
3.43	21 XL	1.337	72 XL	4.584	1021	1.49	510	.75	338	.50	—	—	—	—	—
	14 XL	.891	48 XL	3.056	1021	1.00	510	.50	338	.33	—	—	—	—	—
3.50	12 XL	.764	42 XL	2.674	1000	.86	500	.43	331	.28	—	—	—	—	2.07④
3.60	20 XL	1.273	72 XL	4.584	972	1.42	486	.72	322	.46	—	—	—	—	—
	10 XL	.637	36 XL	2.292	972	—	486	.36■	322	.23	—	—	—	2.02 ③	2.56③
3.64	11 XL	.700	40 XL	2.546	963	—	481	.39	319	.26	—	—	—	—	2.25③
3.67	12 XL	.764	44 XL	2.801	955	.86	477	.43	316	.28	—	—	—	—	—
3.75	16 XL	1.019	60 XL	3.820	933	1.15	467	.58	309	.38	—	—	—	—	—
3.82	11 XL	.700	42 XL	2.674	917	—	458	.39	304	.26	—	—	—	—	2.11⑤
4.00	18 XL	1.146	72 XL	4.584	875	1.28	438	.64	290	.42	—	—	—	—	—
	15 XL	.955	60 XL	3.820	875	1.07	438	.53	290	.36	—	—	—	—	—
	12 XL	.764	48 XL	3.056	875	.86	438	.43	290	.28	—	—	—	—	—
	11 XL	.700	44 XL	2.801	875	—	438	.39	290	.26	—	—	—	—	1.96③
	10 XL	.637	40 XL	2.546	875	—	438	.36■	290	.23	—	—	—	—	2.29③
4.20	10 XL	.637	42 XL	2.674	832	—	416	.36■	276	.23	—	—	—	—	2.15③
4.29	14 XL	.891	60 XL	3.820	817	1.00	408	.50	270	.33	—	—	—	—	—
4.36	11 XL	.700	48 XL	3.056	802	—	401	.39	266	.26	—	—	—	—	—
4.40	10 XL	.637	44 XL	2.801	796	—	398	.36■	264	.23	—	—	—	—	1.99③
4.50	16 XL	1.019	72 XL	4.584	778	1.15	389	.58	258	.38	—	—	—	—	—
4.80	15 XL	.955	72 XL	4.584	730	1.07	365	.53	242	.36	—	—	—	—	—
	10 XL	.637	48 XL	3.056	730	—	365	.36■	242	.23	—	—	—	—	—
5.00	12 XL	.764	60 XL	3.820	700	.86	350	.43	232	.28	—	—	—	—	—
5.14	14 XL	.891	72 XL	4.584	681	1.00	340	.50	226	.33	—	—	—	—	—
5.45	11 XL	.700	60 XL	3.820	642	—	321	.39	213	.26	—	—	—	—	—
6.00	12 XL	.764	72 XL	4.584	584	.86	292	.43	193	.28	—	—	—	—	—
	10 XL	.637	60 XL	3.820	584	—	292	.36■	193	.23	—	—	—	—	—
6.55	11 XL	.755	72 XL	4.584	535	—	267	.39	177	.26	—	—	—	—	—
7.20	10 XL	.637	72 XL	4.584	486	—	243	.36■	161	.23	—	—	—	—	—

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

XL 1/5″ Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 11.00 55 teeth 110 XL	PL: 12.00 60 teeth 120 XL	PL: 13.00 65 teeth 130 XL	PL: 14.00 70 teeth 140 XL	PL: 15.00 75 teeth 150 XL	PL: 16.00 80 teeth 160 XL	PL: 17.00 85 teeth 170 XL	PL: 18.00 90 teeth 180 XL	PL: 19.00 95 teeth 190 XL	PL: 20.00 100 teeth 200 XL	PL: 21.00 105 teeth 210 XL	PL: 22.00 110 teeth 220 XL	PL: 23.00 115 teeth 230 XL	PL: 24.00 120 teeth 240 XL	PL: 25.00 125 teeth 250 XL	PL: 26.00 130 teeth 260 XL	speed ratio □
—	—	—	—	—	—	3.34	3.89	4.43	4.96	5.48	6.00	6.52	7.03	7.54	8.05	**3.00**
—	—	—	—	3.24	3.78	4.31	4.83	5.34	5.86	6.37	6.88	7.39	7.89	8.40	8.90	
—	2.59⑤	3.13	3.65	4.17	4.68	5.20	5.70	6.21	6.72	7.22	7.73	8.23	8.74	9.24	9.74	
2.54⑤	3.07⑤	3.58⑤	4.10⑤	4.61	5.12	5.62	6.13	6.64	7.14	7.64	8.15	8.65	9.15	9.65	10.16	
3.00④	3.51⑤	4.02⑤	4.53⑤	5.04⑤	5.54⑤	6.05⑤	6.55⑤	7.05⑤	7.56⑤	8.06⑤	8.56⑤	9.06⑤	9.57⑤	10.07⑤	10.57⑤	
3.44④	3.94④	4.45④	4.95④	5.46④	5.96④	6.46④	6.97④	7.47④	7.97④	8.47④	8.97④	9.47④	9.98④	10.48④	10.98④	
2.40④	2.94⑤	3.46④	3.98⑤	4.49	5.00	5.51	6.02	6.53	7.03	7.53	8.04	8.54	9.05	9.55	10.05	**3.14**
—	2.63⑤	3.17⑤	3.70	4.21	4.73	5.24	5.75	6.26	6.76	7.27	7.77	8.28	8.78	9.29	9.79	**3.20**
3.32④	3.83④	4.34④	4.84④	5.35④	5.85④	6.36④	6.86④	7.36④	7.86④	8.37④	8.87④	9.37④	9.87④	10.37④	10.87④	
—	—	—	—	—	—	3.42	3.97	4.51	5.04	5.57	6.09	6.60	7.12	7.63	8.14	**3.27**
3.04④	3.56④	4.07④	4.58④	5.08④	5.59④	6.09⑤	6.60⑤	7.10⑤	7.60⑤	8.11⑤	8.61⑤	9.11⑤	9.61⑤	10.11⑤	10.62⑤	
—	—	—	2.77	3.32	3.86	4.39	4.91	5.43	5.94	6.46	6.97	7.48	7.98	8.49	9.00	**3.33**
2.75⑤	3.27⑤	3.79⑤	4.30⑤	4.81⑤	5.32⑤	5.83⑤	6.33⑤	6.84⑤	7.34⑤	7.84⑤	8.35⑤	8.85⑤	9.35⑤	9.86⑤	10.36⑤	
—	—	—	—	—	—	3.46	4.01	4.55	5.08	5.61	6.13	6.65	7.16	7.67	8.18	**3.43**
—	2.67④	3.21⑤	3.74⑤	4.26⑤	4.77⑤	5.28	5.79	6.30	6.81	7.32	7.82	8.33	8.83	9.33	9.84	
2.62④	3.15④	3.67④	4.19⑤	4.70⑤	5.21⑤	5.72⑤	6.22⑤	6.73⑤	7.23⑤	7.74⑤	8.24⑤	8.74⑤	9.25⑤	9.75⑤	10.25⑤	**3.50**
—	—	—	—	—	—	3.50	4.05	4.59	5.13	5.65	6.17	6.69	7.20	7.72	8.23	**3.60**
3.08④	3.60④	4.11④	4.62④	5.13④	5.63④	6.14④	6.64④	7.15④	7.65④	8.15④	8.66④	9.16④	9.66④	10.16④	10.66④	
2.79④	3.32④	3.83④	4.35④	4.86④	5.37④	5.87④	6.38④	6.88⑤	7.39⑤	7.89⑤	8.39⑤	8.90⑤	9.40⑤	9.90⑤	10.40⑤	**3.64**
2.48④	3.02④	3.55④	4.07④	4.58⑤	5.09⑤	5.60⑤	6.11⑤	6.62⑤	7.12⑤	7.63⑤	8.13⑤	8.64⑤	9.14⑤	9.64⑤	10.14⑤	**3.67**
—	—	—	2.84⑤	3.40⑤	3.94	4.47	5.00	5.52	6.03	6.55	7.06	7.57	8.07	8.58	9.09	**3.75**
2.66④	3.19④	3.71④	4.23④	4.74④	5.25④	5.76④	6.27④	6.77④	7.28④	7.78⑤	8.29⑤	8.79⑤	9.29⑤	9.80⑤	10.30⑤	**3.82**
—	—	—	—	—	—	3.57	4.13	4.68	5.21	5.74	6.26	6.78	7.29	7.81	8.32	**4.00**
—	—	—	2.88④	3.44⑤	3.99⑤	4.52⑤	5.04	5.56	6.08	6.59	7.10	7.61	8.12	8.63	9.13⑤	
2.19③	2.75④	3.29④	3.82④	4.34④	4.86④	5.37⑤	5.88⑤	6.39⑤	6.90⑤	7.41⑤	7.91⑤	8.42⑤	8.92⑤	9.43⑤	9.93⑤	
2.52③	3.06④	3.59④	4.11④	4.63④	5.14④	5.65④	6.16④	6.66④	7.17④	7.67④	8.18⑤	8.68⑤	9.19⑤	9.69⑤	10.19⑤	
2.83③	3.36④	3.88④	4.39④	4.90④	5.41④	5.92④	6.42④	6.93④	7.43④	7.94④	8.44④	8.94④	9.45④	9.95④	10.45④	
2.70③	3.23③	3.76④	4.27④	4.79④	5.30④	5.81④	6.31④	6.82④	7.32④	7.83④	8.33④	8.84④	9.34④	9.84④	10.35④	**4.20**
—	—	—	2.92④	3.48④	4.03⑤	4.56⑤	5.08⑤	5.60⑤	6.12⑤	6.63⑤	7.15	7.66	8.16	8.67	9.18	**4.29**
2.23③	2.79③	3.34④	3.86④	4.39④	4.90④	5.42④	5.93④	6.44④	6.95④	7.45④	7.96④	8.46⑤	8.97⑤	9.47⑤	9.98⑤	**4.36**
2.59③	3.11③	3.63④	4.15④	4.67④	5.18④	5.69④	6.20④	6.71④	7.21④	7.72④	8.22④	8.73④	9.23④	9.74④	10.24④	**4.40**
—	—	—	—	—	3.06④	3.65⑤	4.21⑤	4.76⑤	5.29	5.82	6.34	6.86	7.38	7.89	8.41	**4.50**
—	—	—	—	—	3.10④	3.69④	4.25⑤	4.80⑤	5.33⑤	5.86⑤	6.39	6.91	7.42	7.94	8.45	**4.80**
2.26③	2.83③	3.38③	3.91③	4.43④	4.95④	5.46④	5.97④	6.48④	6.99④	7.50④	8.00④	8.51④	9.01④	9.52④	10.02④	
—	—	—	3.00③	3.56④	4.11④	4.64④	5.17④	5.69④	6.21④	6.72⑤	7.23⑤	7.74⑤	8.25⑤	8.76⑤	9.27⑤	**5.00**
—	—	—	—	—	3.14④	3.73④	4.29④	4.84⑤	5.38⑤	5.90⑤	6.43⑤	6.95⑤	7.47⑤	7.98⑤	8.49⑤	**5.14**
—	—	—	3.04③	3.60③	4.15④	4.68④	5.21④	5.73④	6.25④	6.77④	7.28④	7.79④	8.30④	8.81④	9.31④	**5.45**
—	—	—	—	—	3.21③	3.81③	4.37④	4.92④	5.46④	5.99④	6.51④	7.03④	7.55④	8.07⑤	8.58⑤	**6.00**
—	—	2.46②	3.07③	3.64③	4.19③	4.73③	5.25④	5.77④	6.29④	6.81④	7.32④	7.83④	8.34④	8.85④	9.36④	
—	—	—	—	—	3.25③	3.84③	4.41③	4.96③	5.50④	6.03④	6.56④	7.08④	7.60④	8.11④	8.63④	**6.55**
—	—	—	—	—	3.28②	3.88③	4.45③	5.00③	5.54③	6.07③	6.60④	7.12④	7.64④	8.16④	8.67④	**7.20**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
width factor	.15	.21	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
1.00	48 L	5.730	48 L	5.730	3500	6.27	1750	4.06	1160	2.81	—	—	—	—	—
	44 L	5.252	44 L	5.252	3500	6.12	1750	3.77	1160	2.59	—	—	—	—	—
	40 L	4.775	40 L	4.775	3500	5.87	1750	3.47	1160	2.36	—	—	—	—	—
	36 L	4.297	36 L	4.297	3500	5.52	1750	3.15	1160	2.14	—	—	—	—	—
	32 L	3.820	32 L	3.820	3500	5.10	1750	2.83	1160	1.91	—	—	—	4.51	5.26
	30 L	3.581	30 L	3.581	3500	4.86	1750	2.66	1160	1.79	—	—	—	4.88	5.63
	28 L	3.342	28 L	3.342	3500	4.71	1750	2.49	1160	1.67	—	—	4.13	4.26	6.01
	26 L	3.104	26 L	3.104	3500	4.35	1750	2.32	1160	1.56	—	—	4.51	5.63	6.38
	24 L	2.865	24 L	2.865	3500	4.06	1750	2.15	1160	1.44	—	—	4.88	6.01	6.76
	22 L	2.626	22 L	2.626	3500	3.77	1750	1.98	1160	1.32	—	3.38	5.26	6.39	7.31
	21 L	2.507	21 L	2.507	3500	3.62	1750	1.89	1160	1.26	—	3.57	5.45	6.57	7.32
	20 L	2.387	20 L	2.387	3500	3.46	1750	1.80	1160	1.20	—	3.76	5.53	6.76	7.51
	19 L	2.268	19 L	2.268	3500	3.31	1750	1.71	1160	1.14	2.63	3.95	5.82	6.95	7.70
	18 L	2.149	18 L	2.149	3500	3.15	1750	1.62	1160	1.08	2.82	4.13	6.01	7.14	7.89
	17 L	2.029	17 L	2.029	3500	2.99	1750	1.54	1160	1.03	3.01	4.32	6.20	7.32	8.07
	16 L	1.910	16 L	1.910	3500	2.83	1750	1.45	1160	.97	3.20	4.51	6.39	7.51	8.26
	14 L	1.671	14 L	1.671	3500	2.49■	1750	1.27	1160	.85	3.57	4.89	6.76	7.89	8.64
	12 L	1.432	12 L	1.432	3500	—	1750	1.09■	1160	.72	3.95	5.26	7.14	8.26	9.01
1.04	21 L	2.507	22 L	2.626	3342	3.62	1671	1.89	1108	1.26	—	3.48	5.35	6.48	7.23
1.05	20 L	2.387	21 L	2.507	3333	3.46	1667	1.80	1105	1.20	—	3.66	5.54	6.67	7.42
	19 L	2.268	20 L	2.387	3325	3.31	1663	1.71	1102	1.14	—	3.85	5.73	6.85	7.60
1.06	18 L	2.149	19 L	2.268	3314	3.15	1657	1.62	1098	1.08	2.72	4.04	5.92	7.04	7.79
	17 L	2.029	18 L	2.149	3305	2.99	1653	1.54	1096	1.03	2.91	4.23	6.10	7.23	7.98
	16 L	1.910	17 L	2.029	3294	2.83	1647	1.45	1092	.97	3.10	4.42	6.29	7.42	8.17
1.07	30 L	3.581	32 L	3.820	3281	4.86	1641	2.66	1087	1.79	—	—	—	4.69	5.44
	28 L	3.342	30 L	3.581	3267	4.61	1633	2.49	1083	1.67	—	—	3.94	5.07	5.82
1.08	26 L	3.104	28 L	3.342	3250	4.35	1625	2.32	1077	1.56	—	—	4.32	5.44	6.19
	24 L	2.865	26 L	3.104	3231	4.06	1615	2.15	1071	1.44	—	—	4.69	5.82	6.57
1.09	44 L	5.252	48 L	5.730	3208	6.12	1804	3.77	1063	2.59	—	—	—	—	—
	22 L	2.626	24 L	2.865	3208	3.77	1604	1.98	1063	1.32	—	—	5.07	6.20	6.95
1.10	40 L	4.775	44 L	5.252	3182	5.87	1591	3.47	1055	2.36	—	—	—	—	—
	20 L	2.387	22 L	2.626	3182	3.46	1591	1.80	1055	1.20	—	3.57	5.45	6.57	7.32
1.11	36 L	4.297	40 L	4.775	3150	5.52	1575	3.15	1044	2.14	—	—	—	—	—
	19 L	2.268	21 L	2.507	3167	3.31	1583	1.71	1050	1.14	—	3.76	5.63	6.76	7.51
	18 L	2.149	20 L	2.387	3150	3.15	1575	1.62	1044	1.08	—	3.94	5.82	6.95	7.70
1.12	17 L	2.029	19 L	2.268	3132	2.99	1566	1.54	1038	1.03	2.82	4.13	6.01	7.14	7.89
1.13	32 L	3.820	36 L	4.297	3111	5.10	1556	2.83	1031	1.91	—	—	—	—	4.88
	16 L	1.910	18 L	2.149	3111	2.83	1556	1.45	1031	.97	—	4.32	6.20	7.32	8.07
1.14	28 L	3.342	32 L	3.820	3063	4.61	1531	2.49	1015	1.67	—	—	—	4.88	5.63
	21 L	2.507	24 L	2.865	3063	3.62	1531	1.89	1015	1.26	—	3.28	5.16	6.29	7.04
	14 L	1.671	16 L	1.910	3036	2.49■	1531	1.27	1015	.85	3.38	4.70	6.57	7.70	8.45
1.15	26 L	3.104	30 L	3.581	3033	4.35	1517	2.32	1005	1.56	—	—	4.12	5.25	6.00
1.16	19 L	2.268	22 L	2.626	3023	3.31	1511	1.71	1002	1.14	—	3.66	5.54	6.66	7.41

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

L
3/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
—	—	—	—	—	7.13	8.26	9.38	10.51	12.01	13.51	15.01	16.51	18.01	21.01	**1.00**
—	—	—	6.01	6.76	7.88	9.01	10.13	11.26	12.76	14.26	15.76	17.26	18.76	21.76	
—	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	
5.26	6.01	6.76	7.51	8.26	9.38	10.51	11.63	17.76	14.26	15.76	17.26	18.76	20.26	23.26	
6.01	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	
6.38	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	
6.76	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	
7.13	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	
7.51	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	
7.89	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	
8.07	8.82	9.57	10.32	11.07	12.20	13.32	14.45	15.57	17.07	18.57	20.08	21.58	23.08	26.08	
8.26	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	
8.54	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	
8.64	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	
8.82	9.57	10.32	11.07	11.83	12.95	14.07	15.20	16.33	17.83	19.33	20.83	22.33	23.83	26.83	
9.01	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	
9.39	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	
9.76	10.51	11.26	12.01	12.76	13.89	15.01	16.14	17.26	18.76	20.26	21.76	23.26	24.76	27.76	
7.98	8.73	9.48	10.23	10.98	12.11	13.23	14.36	15.48	16.98	18.48	19.98	21.48	22.98	25.98	**1.04**
8.17	8.92	9.67	10.42	11.17	12.29	13.42	14.54	15.67	17.17	18.76	20.17	21.67	23.17	26.17	**1.05**
8.35	9.11	9.86	10.61	11.36	12.48	13.61	14.73	15.86	17.36	18.86	20.36	21.86	23.36	26.36	
8.54	9.29	10.04	10.79	11.54	12.67	13.79	14.92	16.04	17.54	19.04	20.54	22.04	23.54	26.55	**1.06**
8.73	9.48	10.23	10.98	11.73	12.86	13.98	15.11	16.23	17.73	19.23	20.73	22.23	23.73	26.73	
8.92	9.67	10.42	11.17	11.92	13.04	14.17	15.29	16.42	17.92	19.42	20.92	22.42	23.92	26.92	
6.19	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	**1.07**
6.57	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	
6.95	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	**1.08**
7.32	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	
—	—	—	—	6.38	7.50	8.63	9.76	10.88	12.38	13.88	15.38	16.88	18.38	21.39	**1.09**
7.70	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	
—	—	5.63	6.38	7.13	8.25	9.38	10.51	11.63	13.13	14.63	16.13	17.63	18.13	22.14	**1.10**
8.07	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	
4.88	5.63	6.38	7.13	7.88	9.01	10.13	11.26	12.38	13.88	15.38	16.89	18.39	19.89	22.89	**1.11**
8.26	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	
8.45	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	
8.64	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	**1.12**
5.63	6.38	7.14	7.88	8.63	9.76	10.88	12.01	13.13	14.63	16.13	17.64	19.14	20.64	23.64	**1.13**
8.82	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	
6.38	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	**1.14**
7.79	8.54	9.29	10.04	10.79	11.92	13.04	14.17	15.29	16.79	18.29	19.79	21.29	22.79	25.79	
9.20	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	
6.75	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	**1.15**
8.16	8.91	9.67	10.42	11.17	12.29	13.42	14.54	15.67	17.17	18.67	20.17	21.67	23.17	26.17	**1.16**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	3500 rpm driveR speed — hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	1750 rpm driveR speed — hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	1160 rpm driveR speed — hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
1.17	24 L	2.865	28 L	3.342	3000	4.06	1500	2.15	994	1.44	—	—	4.50	5.63	6.38
	18 L	2.149	21 L	2.507	3000	3.15	1500	1.62	994	1.08	—	3.85	5.73	6.85	7.60
	12 L	1.432	14 L	1.671	3000	—	1500	1.09■	994	.72	3.76⑤	5.07⑤	6.95⑤	8.07⑤	8.83⑤
1.18	22 L	2.626	26 L	3.104	2962	3.77	1481	1.62	982	1.32	—	—	4.88	6.00	6.76
	17 L	2.029	20 L	2.387	2975	2.99	1483	1.54	986	1.03	2.72	4.04	5.91	7.04	7.79
1.19	16 L	1.910	19 L	2.263	2947	2.83	1474	1.45	977	.97	2.91	4.22	6.10	7.23	7.98
1.20	40 L	4.775	48 L	5.730	2917	5.87	1458	3.47	967	2.36	—	—	—	—	—
	30 L	3.581	36 L	4.297	2917	4.86	1458	2.66	967	1.79	—	—	—	4.30	5.06
	20 L	2.387	24 L	2.865	2917	3.46	1458	1.80	967	1.20	—	3.37	5.25	6.38	7.13
1.21	14 L	1.671	17 L	2.029	2882	2.49■	1441	1.27	955	.85	3.28	4.60	6.48	7.60	8.35
1.22	36 L	4.297	44 L	5.252	2864	5.52	1432	3.15	949	2.14	—	—	—	—	—
	18 L	2.149	22 L	2.626	2864	3.15	1432	1.62	949	1.08	—	3.75	5.63	6.76	7.51
1.23	26 L	3.104	32 L	3.820	2844	4.35	1422	2.32	943	1.56	—	—	—	5.06	5.81
	17 L	2.029	21 L	2.507	2833	2.99	1417	1.54	939	1.03	2.62	3.94	5.81	6.94	7.69
1.24	21 L	2.507	26 L	3.104	2827	3.62	1413	1.89	937	1.26	—	3.09	4.97	6.10	6.85
1.25	48 L	5.730	60 L	7.162	2800	6.27	1400	4.06	928	2.81	—	—	—	—	—
	32 L	3.820	40 L	4.775	2800	5.10	1400	2.83	928	1.91	—	—	—	—	—
	24 L	2.865	30 L	3.581	2800	4.06	1400	2.15	928	1.44	—	—	4.31	5.43	6.19
	16 L	1.910	20 L	2.387	2800	2.83	1400	1.45	928	.97	2.81	4.13	6.01	7.13	7.88
1.26	19 L	2.268	24 L	2.865	2770	3.31	1385	1.71	918	1.15	—	3.46	5.34	6.47	7.22
1.27	22 L	2.626	28 L	3.342	2750	3.77	1375	1.98	911	1.32	—	—	—	5.81	6.56
1.29	28 L	3.342	36 L	4.297	2722	4.61	1361	2.49	902	1.67	—	—	—	4.48	5.24
	17 L	2.029	22 L	2.626	2705	2.99	1352	1.54	896	1.03	—	3.84	5.72	6.85	7.60
	14 L	1.671	18 L	2.149	2722	2.49■	1361	1.27	902	.85	3.19	4.50	6.38	7.51	8.26
1.30	20 L	2.387	26 L	3.104	2692	3.46	1346	1.80	892	1.20	—	—	5.06	6.19	6.94
1.31	16 L	1.910	21 L	2.507	2666	2.83	1333	1.45	884	.97	2.71	4.03	5.91	5.04	7.79
1.33	36 L	4.297	48 L	5.730	2625	5.52	1313	3.15	870	2.14	—	—	—	—	—
	30 L	3.581	40 L	4.775	2625	4.86	1313	2.66	870	1.79	—	—	—	—	4.66
	24 L	2.865	32 L	3.820	2625	4.06	1313	2.15	870	1.44	—	—	4.10	5.24	5.99
	21 L	2.507	28 L	3.342	2625	3.62	1313	1.89	870	1.26	—	—	4.77	5.90	6.65
	18 L	2.149	24 L	2.865	2625	3.15	1313	1.62	870	1.08	—	3.55	5.44	6.56	7.31
	12 L	1.432	16 L	1.910	2625	—	1313	1.09■	870	.72	3.56⑤	4.88⑤	6.76⑤	7.88⑤	8.63⑤
1.36	44 L	5.252	60 L	7.162	2567	6.12	1283	3.77	851	2.59	—	—	—	—	—
	22 L	2.626	30 L	3.581	2567	3.77	1283	1.98	851	1.32	—	—	4.48	5.61	6.37
	14 L	1.671	19 L	2.268	2579	2.49■	1289	1.27	855	.85	3.09	4.41	6.28	7.41	8.18
1.37	19 L	2.268	26 L	3.104	2558	3.31	1279	1.71	848	1.14	—	3.26	5.15	6.28	7.03
1.38	32 L	3.820	44 L	5.252	2545	5.10	1273	2.83	844	1.91	—	—	—	—	—
	26 L	3.104	36 L	4.297	2528	4.35	1264	2.32	838	1.56	—	—	—	4.66	5.41
	16 L	1.910	22 L	2.626	2545	2.83	1273	1.45	844	.97	2.61	3.93	5.81	6.94	7.69
1.40	20 L	2.387	28 L	3.342	2500	3.46	1250	1.80	829	1.20	—	—	4.86	5.99	6.74

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

L
3/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
7.13 8.35 9.57⑤	7.88 9.10 10.32⑤	8.63 9.85 11.07⑤	9.38 10.60 11.83⑤	10.13 11.35 12.58⑤	11.26 12.48 13.70⑤	12.38 13.60 14.83⑤	13.51 14.73 15.95⑤	14.64 15.85 17.08⑤	16.13 17.36 18.57⑤	17.64 18.86 20.08⑤	19.13 20.36 21.58⑤	20.64 21.86 23.08⑤	22.14 23.36 24.58⑤	25.14 26.36 27.58	**1.17**
7.51 8.54	8.26 9.29	9.01 10.04	9.76 10.79	10.51 11.54	11.63 12.67	12.76 13.79	13.88 14.92	15.01 16.04	16.51 17.54	18.01 19.04	19.51 20.56	21.01 22.04	22.51 23.59	25.51 26.54	**1.18**
8.73	9.48	10.23	10.98	11.73	12.86	13.98	15.10	16.23	17.73	19.23	20.73	22.23	23.73	26.73	**1.19**
— 5.81 7.88	— 6.56 8.63	— 7.31 9.38	5.99 8.06 10.13	6.74 8.81 10.88	7.87 9.94 12.01	9.00 11.07 13.13	10.12 12.19 14.26	11.25 13.32 15.38	12.75 14.82 16.89	14.25 16.32 18.39	15.75 17.82 19.89	17.25 19.32 21.39	18.76 20.82 22.89	21.76 23.82 25.89	**1.20**
9.10	9.85	10.60	11.35	12.11	13.23	14.36	15.48	16.61	18.11	19.61	21.11	22.61	24.11	27.11	**1.21**
— 8.26	5.23 9.01	5.99 9.76	6.74 10.51	7.49 11.26	8.62 12.39	9.75 13.51	10.87 14.64	12.00 15.76	13.50 17.26	15.00 18.76	16.50 20.26	18.01 21.76	19.51 23.36	22.51 26.26	**1.22**
6.56 8.44	7.31 8.63	8.06 9.95	8.81 10.70	9.57 11.45	10.69 12.57	11.82 13.70	12.94 14.82	14.11 15.95	15.57 17.45	17.07 18.95	18.57 20.45	20.07 21.95	21.57 23.45	24.57 26.45	**1.23**
7.60	8.35	9.10	9.85	10.60	11.73	12.85	13.98	15.10	16.60	18.10	19.60	21.11	20.60	25.61	**1.24**
— 5.29 6.94 8.63	— 5.99 7.69 9.38	— 6.74 8.44 10.13	— 7.49 9.19 10.88	— 8.25 9.04 11.64	— 9.37 11.07 12.76	7.45 10.50 12.19 13.89	8.58 11.62 13.32 15.01	9.36 12.75 14.44 16.13	10.86 14.25 15.94 17.64	12.36 15.75 17.45 19.14	13.87 17.26 18.95 20.64	15.37 18.76 20.45 22.14	16.87 20.26 21.95 23.64	19.87 23.26 24.95 26.64	**1.25**
7.97	8.72	9.47	10.23	10.98	12.10	13.23	14.35	15.48	16.98	18.48	19.98	21.48	22.98	25.98	**1.26**
7.31	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	**1.27**
5.99 8.35 9.01	6.74 9.10 9.76	7.49 9.85 10.51	8.25 10.60 11.26	9.00 11.35 12.01	10.12 12.48 13.14	11.25 13.60 14.26	12.38 14.73 15.39	13.50 15.85 16.51	15.00 17.35 18.01	16.50 18.86 19.51	18.01 20.36 21.01	19.51 21.86 22.51	21.01 23.36 24.01	24.01 26.36 27.01	**1.29**
7.69	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	**1.30**
8.54	9.29	10.04	10.79	11.54	12.66	13.79	14.92	16.04	17.54	19.04	20.54	22.04	23.54	25.64	**1.31**
— 5.41 6.74	— 6.17 7.49	5.58 6.92 8.25	6.34 7.67 9.00	7.10 8.43 9.75	8.23 9.55 10.88	9.36 10.68 12.00	10.49 11.81 13.13	11.61 12.93 14.25	13.12 14.44 15.75	14.61 15.94 17.26	16.12 17.44 18.76	17.62 18.94 20.26	19.12 20.44 21.76	22.12 23.44 24.76	**1.33**
7.40 8.06 9.38⑤	8.16 8.82 10.13⑤	8.91 9.57 10.88⑤	9.66 10.32 11.64⑤	10.41 11.07 12.39⑤	14.59 12.19 13.51⑤	12.66 13.32 14.64⑤	13.79 14.45 15.76⑤	14.91 15.57 16.89⑤	16.41 17.07 18.39⑤	17.91 18.57 19.89⑤	19.42 20.07 21.39⑤	20.91 21.57 22.89⑤	22.42 23.07 24.39⑤	25.42 26.07 27.39⑤	
— 7.12 8.91	— 7.87 9.66	— 8.62 10.41	— 9.37 11.16	— 10.13 11.92	— 11.25 13.04	7.45 12.38 14.17	8.58 13.50 15.29	9.79 14.63 16.42	11.22 16.13 17.92	12.72 17.63 19.42	14.23 19.13 20.92	15.73 20.63 22.42	17.23 22.13 23.92	20.24 25.13 26.92	**1.36**
7.78	8.53	9.28	10.03	10.79	14.96	13.04	14.16	15.29	16.79	18.29	19.79	21.29	22.79	25.79	**1.37**
— 6.17 8.44	5.58 6.92 9.19	6.34 7.67 9.94	7.10 8.43 10.69	7.85 9.18 11.44	8.98 10.31 12.57	10.11 11.43 13.70	11.24 12.56 14.82	12.36 13.68 15.95	13.87 15.19 17.45	15.37 16.69 18.95	16.87 18.19 20.45	18.37 19.69 21.95	19.89 21.19 23.45	22.88 24.19 26.45	**1.38**
7.49	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	**1.40**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity						center distance, inches†				
	driveR		driveN		3500 rpm driveR speed		1750 rpm driveR speed		1160 rpm driveR speed		according to belt pitch length (PL), inches and corresponding code number (bold type)				
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
1.41	17 L	2.029	24 L	2.865	2479	2.99	1239	1.54	822	1.03	—	3.64	5.52	6.65	7.40
1.42	12 L	1.432	17 L	2.029	2470	—	1235	1.09■	819	.72	3.46⑤	4.78⑤	6.66⑤	7.79⑤	8.54⑤
1.43	28 L	3.342	40 L	4.775	2450	4.61	1225	2.49	812	1.67	—	—	—	—	4.83
	21 L	2.507	30 L	3.581	2450	3.62	1225	1.89	812	1.26	—	—	4.66	5.70	6.46
	14 L	1.671	20 L	2.387	2450	2.49■	1225	1.27	812	.85	2.99	4.31	6.19	7.32	8.07
1.44	18 L	2.149	26 L	3.104	2423	3.15	1212	1.62	803	1.08	—	—	5.24	6.37	7.12
1.45	22 L	2.626	32 L	3.820	2406	3.77	1203	1.98	788	1.32	—	—	4.28	5.41	6.17
1.47	30 L	3.581	44 L	5.252	2386	4.86	1193	2.66	791	1.79	.—	—	—	—	—
	19 L	2.268	28 L	3.342	2375	3.31	1187	1.71	787	1.14	—	3.05	4.95	6.08	6.83
1.50	48 L	5.730	72 L	8.594	2333	6.27	1167	4.06	773	2.81	—	—	—	—	—
	40 L	4.775	60 L	7.162	2333	5.87	1167	3.47	773	2.36	—	—	—	—	—
	32 L	3.820	48 L	5.730	2333	5.10	1167	2.83	773	1.91	—	—	—	—	—
	24 L	2.865	36 L	4.297	2333	4.06	1167	2.15	773	1.44	—	—	—	4.83	5.59
	20 L	2.387	30 L	3.581	2333	3.46	1167	1.80	773	1.20	—	—	4.66	5.79	6.54
	16 L	1.910	24 L	2.865	2333	2.83	1167	1.45	773	.97	—	3.73	5.61	6.74	7.50
	14 L	1.671	21 L	2.507	2333	2.49■	1167	1.27	773	.85	2.88	4.21	6.09	7.32	7.97
	12 L	1.432	18 L	2.149	2333	—	1167	1.09■	773	.72	3.36⑤	4.68⑤	6.56⑤	7.69⑤	8.44⑤
1.52	21 L	2.507	32 L	3.820	2297	3.62	1148	1.89	761	1.26	—	—	4.36	5.50	6.26
1.53	17 L	2.029	26 L	3.104	2288	2.99	1144	1.54	758	1.03	—	3.43	5.32	6.46	7.11
1.54	26 L	3.104	40 L	4.775	2275	4.35	1138	2.32	754	1.56	—	—	—	4.24	5.00
1.56	18 L	2.149	28 L	3.342	2250	3.15	1125	1.62	746	1.08	—	—	5.04	6.07	6.92
1.57	28 L	3.342	44 L	5.252	2227	4.61	1114	2.49	738	1.67	—	—	—	—	—
	14 L	1.671	22 L	2.626	2227	2.49■	1114	1.27	738	.85	2.78	4.11	5.99	7.12	7.87
1.58	19 L	2.268	30 L	3.581	2217	3.31	1108	1.71	735	1.14	—	—	4.74	5.88	6.63
	12 L	1.432	19 L	2.268	2207		1104	1.09■	731	.72	3.26⑤	4.58⑤	6.47⑤	7.59⑤	8.34⑤
1.60	30 L	3.581	48 L	5.730	2188	4.86	1094	2.66	725	1.79	—	—	—	—	—
	20 L	2.387	32 L	3.820	2188	3.46	1094	1.80	725	1.20	—	—	4.45	5.59	6.34
1.63	16 L	1.910	26 L	3.104	2154	2.83	1077	1.45	714	.97	—	3.52	5.41	6.55	7.30
1.64	44 L	5.252	72 L	8.594	2139	6.12	1069	3.77	709	2.59	—	—	—	—	—
	22 L	2.626	36 L	4.297	2139	3.77	1069	1.98	709	1.32	—	—	3.85	5.00	5.76
1.65	17 L	2.029	28 L	3.342	2125	2.99	1062	1.54	704	1.03	—	3.22	5.12	6.26	7.01
1.66	36 L	4.297	60 L	7.162	2100	5.52	1050	3.15	696	2.14	—	—	—	—	—
1.67	24 L	2.865	40 L	4.775	2100	4.06	1050	2.15	696	1.44	—	—	—	4.40	5.17
	18 L	2.149	30 L	3.581	2100	3.15	1050	1.62	696	1.08	—	2.92	4.83	5.97	6.72
	12 L	1.432	20 L	2.387	2100	—	1050	1.09■	696	.72	3.16⑤	4.48⑤	6.37⑤	7.50⑤	8.25⑤
1.68	19 L	2.268	32 L	3.820	2078	3.31	1039	1.71	689	1.14	—	—	4.53	5.67	6.43
1.69	26 L	3.104	44 L	5.252	2068	4.35	1034	2.32	685	1.56	—	—	—	—	4.57
1.71	28 L	3.342	48 L	5.730	2042	4.61	1021	2.49	677	1.67	—	—	—	—	—
	21 L	2.507	36 L	4.297	2042	3.62	1021	1.89	677	1.26	—	—	3.93	5.08	5.85
	14 L	1.671	24 L	2.865	2042	2.49■	1021	1.27	677	.85	—	3.90	5.79	6.92	7.67

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

L
3/8″ Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
8.16	8.91	9.66	10.41	11.16	12.29	13.41	14.54	15.66	17.16	18.67	20.17	21.67	23.17	26.17	**1.41**
9.29⑤	10.04⑤	10.79⑤	11.54⑤	12.29⑤	13.42⑤	14.54	15.67	16.79	18.29	19.79	21.29	22.79	24.29	27.29	**1.42**
5.59 7.21 8.82	6.34 7.96 9.57	7.10 8.71 10.32	7.85 9.46 11.07	8.60 10.22 11.82	9.73 11.34 12.95	10.86 12.47 14.11	11.99 13.59 15.20	13.12 14.72 16.32	14.62 16.03 17.82	16.12 17.72 19.32	17.62 19.22 20.82	19.12 20.72 22.32	20.63 22.23 23.82	23.63 25.23 26.82	**1.43**
7.87	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	**1.44**
6.92	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	**1.45**
5.00 7.58	5.76 8.34	6.52 9.09	7.24 9.84	8.03 10.59	9.16 11.72	10.29 12.84	11.42 13.97	12.24 15.10	14.05 16.60	15.55 18.10	17.05 19.60	18.56 21.10	20.07 22.60	23.06 25.60	**1.47**
— — — 6.34	— — 5.17 7.10	— — 5.93 7.85	— — 6.69 8.60	— — 7.45 9.36	— 6.65 8.58 10.49	— 7.79 9.71 11.61	— 8.93 10.84 12.74	8.13 10.06 11.97 13.87	9.65 11.57 13.48 15.37	11.17 13.08 14.98 16.87	12.68 14.59 16.48 18.37	14.19 16.09 17.99 19.87	15.69 17.60 19.49 21.38	18.70 20.60 22.49 24.38	**1.50**
7.30 8.25 8.72 9.19⑤	8.05 9.00 9.47 9.94⑤	8.80 9.75 10.22 10.69⑤	9.55 10.50 10.97 11.44⑤	10.31 11.24 11.72 12.20⑤	11.43 12.38 12.85 13.32⑤	12.56 13.50 13.97 14.45⑤	13.69 14.63 15.10 15.57⑤	14.81 15.76 16.23 16.70⑤	16.31 17.26 17.73 18.20⑤	17.81 18.76 19.23 19.70⑤	19.32 20.26 20.73 21.20⑤	20.82 21.76 22.23 22.70⑤	22.32 23.26 23.73 24.20⑤	25.32 26.26 26.73 27.20⑤	
7.01	7.76	8.52	9.27	10.02	11.15	12.28	13.40	14.53	16.03	17.53	19.03	20.53	22.03	25.04	**1.52**
7.96	8.71	9.46	10.22	10.97	12.09	13.22	14.35	15.47	16.97	18.47	19.98	21.48	22.98	25.98	**1.53**
5.76	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	**1.54**
7.67	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	**1.56**
5.17 8.62	5.93 9.37	6.69 10.13	7.45 10.88	8.20 11.63	9.34 12.75	10.47 13.88	11.60 15.00	12.72 16.13	14.23 17.63	15.73 19.13	17.29 20.63	18.74 22.13	20.24 23.63	23.24 26.63	**1.57**
7.39 9.10⑤	8.14 9.85⑤	8.89 10.60⑤	9.64 11.35⑤	10.40 12.10⑤	11.52 13.23⑤	12.65 14.35⑤	13.78 15.48⑤	14.90 16.60⑤	16.41 18.10⑤	17.91 19.60⑤	19.41 21.10⑤	20.91 22.60⑤	22.41 24.10⑤	25.41 27.10⑤	**1.58**
— 7.10	5.34 7.85	6.10 8.60	6.86 9.36	7.62 10.11	8.75 11.24	9.89 12.37	11.02 13.49	12.15 14.62	13.66 16.12	15.16 17.62	16.66 19.12	18.17 20.63	19.67 22.13	22.67 25.13	**1.60**
8.05	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	**1.63**
— 6.52	— 7.27	— 8.03	— 8.78	— 9.54	— 10.66	— 11.79	7.31 12.92	8.47 14.05	9.99 15.55	11.51 17.05	13.03 18.56	14.54 20.06	16.05 21.56	19.06 24.56	**1.64**
7.76	8.52	9.27	10.02	10.77	11.90	13.03	14.15	15.28	16.78	18.28	19.78	21.28	22.74	25.79	**1.65**
—	—	—	—	—	6.99	8.13	9.27	10.41	11.92	13.43	14.94	16.45	17.95	20.96	**1.66**
5.93 7.48 9.00⑤	6.69 8.23 9.75⑤	7.45 8.98 10.50⑤	8.20 9.73 11.25⑤	8.96 10.49 12.00⑤	10.09 11.61 13.13⑤	11.22 12.74 14.25⑤	12.35 13.87 15.38⑤	13.48 14.99 16.51⑤	14.98 16.50 18.01⑤	16.48 18.00 19.51⑤	17.99 19.50 21.01⑤	19.49 21.00 22.51⑤	20.99 22.50 24.01⑤	23.99 25.50 27.01⑤	**1.67**
7.19	7.94	8.69	9.45	10.20	11.33	12.46	13.58	14.71	16.22	17.71	19.22	20.72	22.22	25.22	**1.68**
5.33	6.10	6.86	7.62	8.38	9.51	10.64	11.77	12.99	14.41	15.91	17.42	18.92	20.42	23.43	**1.69**
4.73 6.60 8.43	5.50 7.36 9.18	6.27 8.12 9.93	7.03 8.87 10.68	7.79 9.62 11.43	8.93 10.75 12.56	10.06 11.88 13.69	11.20 13.01 14.81	12.33 14.14 15.94	13.83 15.64 17.44	15.34 17.14 18.94	16.84 18.65 20.44	18.35 20.15 21.94	19.85 21.65 23.44	22.86 24.65 26.44	**1.71**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	3500 rpm — hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	1750 rpm — hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	1160 rpm — hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
1.75	48 L	5.730	84 L	10.027	2000	6.27	1000	4.06	663	2.81	—	—	—	—	—
	16 L	1.910	28 L	3.342	2000	2.83	1000	1.45	663	.97	—	—	5.21	6.34	7.10
	12 L	1.432	21 L	2.507	2000	—	1000	1.09■	663	.72	3.05⑤	4.38⑤	6.27⑤	7.40⑤	8.15⑤
1.76	17 L	2.029	30 L	3.581	1983	2.99	992	1.54	657	1.03	—	—	4.92	6.05	6.81
1.78	18 L	2.149	32 L	3.820	1969	3.15	985	1.62	652	1.08	—	—	4.62	5.76	6.52
1.80	40 L	4.775	72 L	8.594	1944	5.87	972	3.47	644	2.36	—	—	—	—	—
	20 L	2.387	36 L	4.297	1944	3.46	972	1.80	644	1.20	—	—	4.02	5.17	5.93
1.82	22 L	2.626	40 L	4.775	1925	3.77	963	1.98	638	1.32	—	—	—	4.57	5.34
1.83	24 L	2.865	44 L	5.252	1909	4.06	955	2.15	633	1.44	—	—	—	—	4.73
	12 L	1.432	22 L	2.626	1909	—	955	1.09■	633	.72	2.95⑤	4.28⑤	6.17⑤	7.30⑤	8.05⑤
1.85	26 L	3.104	48 L	5.730	1896	4.35	948	2.32	628	1.56	—	—	—	—	—
1.86	14 L	1.671	26 L	3.104	1885	2.49■	942	1.27	625	.85	—	3.69	5.59	6.72	7.48
1.88	32 L	3.820	60 L	7.162	1867	5.10	933	2.83	619	1.91	—	—	—	—	—
	17 L	2.029	32 L	3.820	1859	2.99	930	1.54	616	1.03	—	—	4.70	5.85	6.60
	16 L	1.910	30 L	3.581	1867	2.83	933	1.45	619	.97	—	—	5.00	6.14	6.90
1.89	19 L	2.268	36 L	4.297	1847	3.31	924	1.71	612	1.14	—	—	4.10	5.25	6.02
1.90	21 L	2.507	40 L	4.775	1838	3.62	919	1.89	609	1.26	—	—	—	4.65	5.42
1.91	44 L	5.252	84 L	10.027	1833	6.12	917	3.77	607	2.59	—	—	—	—	—
2.00	36 L	4.297	72 L	8.594	1750	5.52	875	3.15	580	2.14	—	—	—	—	—
	30 L	3.581	60 L	7.162	1750	4.86	875	2.66	580	1.79	—	—	—	—	—
	24 L	2.865	48 L	5.730	1750	4.06	875	2.15	580	1.44	—	—	—	—	—
	22 L	2.626	44 L	5.252	1750	3.77	875	1.98	580	1.32	—	—	—	—	4.89
	20 L	2.387	40 L	4.775	1750	3.46	875	1.80	580	1.20	—	—	—	4.73	5.50
	18 L	2.149	36 L	4.297	1750	3.15	875	1.62	580	1.08	—	—	4.18	5.34	6.10
	16 L	1.910	32 L	3.820	1750	2.83	875	1.45	580	.97	—	—	4.79	5.93	6.69
	14 L	1.671	28 L	3.342	1750	2.49■	875	1.27	580	.85	—	3.47	5.38	6.52	7.27
	12 L	1.432	24 L	2.865	1750	—	875	1.09■	580	.72	2.72⑤	4.07⑤	5.97⑤	7.10⑤	7.85⑤
2.09	21 L	2.507	44 L	5.252	1670	3.62	835	1.89	554	1.26	—	—	—	—	4.97
2.10	40 L	4.775	84 L	10.027	1667	5.87	833	3.47	552	2.36	—	—	—	—	—
2.11	19 L	2.268	40 L	4.775	1663	3.31	831	1.71	551	1.14	—	—	—	5.36	5.58
2.12	17 L	2.029	36 L	4.297	1653	2.99	826	1.54	548	1.03	—	—	4.26	5.42	6.18
2.14	28 L	3.342	60 L	7.162	1633	4.61	817	2.49	541	1.67	—	—	—	—	—
	14 L	1.671	30 L	3.581	1633	2.49■	817	1.27	541	.85	—	3.24⑤	5.17	6.31	7.07
2.17	12 L	1.432	26 L	3.104	1615	—	808	1.09■	535	.72	—	3.85⑤	5.76⑤	6.90⑤	7.65⑤
2.18	22 L	2.626	48 L	5.730	1604	3.77	802	1.98	532	1.32	—	—	—	—	—

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

L
3/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
— 7.85 8.90⑤	— 8.61 9.65⑤	— 9.36 10.40⑤	— 10.11 11.16⑤	— 10.86 11.91⑤	— 11.99 13.03⑤	— 13.12 14.07⑤	— 14.24 15.29⑤	— 15.37 16.41⑤	8.35 16.87 17.91⑤	9.90 18.37 19.41⑤	11.43 19.88 20.91⑤	12.96 21.38 22.41⑤	14.47 22.88 23.91⑤	17.50 25.88 26.91⑤	**1.75**
7.56	8.32	9.07	9.82	10.58	11.70	12.83	13.96	15.09	16.59	18.09	19.59	21.09	22.59	25.60	**1.76**
7.27	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	**1.78**
— 6.69	— 7.45	— 8.20	— 8.96	— 9.71	— 10.84	— 11.97	7.64 13.10	8.80 14.23	10.33 15.73	11.85 17.24	13.37 18.74	14.89 20.24	16.40 21.74	19.42 24.74	**1.80**
6.10	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	**1.82**
5.50 8.80⑤	6.27 9.56⑤	7.03 10.31⑤	7.79 11.06⑤	8.55 11.81⑤	9.69 12.94⑤	10.82 14.06⑤	11.95 15.19⑤	13.08 16.32⑤	14.59 17.82⑤	16.09 19.32⑤	17.60 20.82⑤	19.10 22.32⑤	20.60 23.82⑤	23.61 26.82⑤	**1.83**
4.89	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	**1.85**
8.23	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	**1.86**
— 7.36 7.65	— 8.12 8.41	— 8.87 9.16	— 9.62 9.91	6.15 10.38 10.67	7.32 11.51 11.80	8.47 12.64 12.92	9.61 13.76 14.05	10.75 14.89 15.18	12.27 16.39 16.68	13.78 17.90 18.18	15.29 19.40 19.68	16.80 20.90 22.18	18.31 22.40 22.68	21.32 25.40 25.69	**1.88**
6.78	7.53	8.29	9.05	9.80	10.93	12.06	13.19	14.32	15.82	17.33	18.83	20.33	21.83	24.84	**1.89**
6.19	6.95	7.71	8.46	9.22	10.35	11.49	12.62	13.74	15.25	16.75	18.26	19.76	21.26	24.27	**1.90**
—	—	—	—	—	—	—	—	—	8.68	10.23	11.76	13.29	14.82	17.85	**1.91**
— — 5.05	— — 5.83	— — 6.60	— — 7.37	— 6.31 8.13	— 7.48 9.27	6.79 8.63 10.41	7.96 9.78 11 55	9.13 10.92 12.68	10.67 12.44 14.19	12.19 13.96 15.70	13.72 15.47 17.20	15.23 16.98 18.71	16.75 18.49 20.21	19.77 21.50 23.22	**2.00**
5.67 6.27 6.86	6.44 7.03 7.62	7.20 7.79 8.38	7.96 8.55 9.13	8.72 9.31 9.89	9.86 10.44 11.02	10.99 11.57 12.15	12.13 12.70 13.28	13.26 13.83 14.41	14.77 15.34 15.91	16.27 16.84 17.42	17.78 18.35 18.92	19.28 19.85 20.42	20.78 21.35 21.92	23.79 24.36 24.93	
7.45 8.03 8.61⑤	8.20 8.78 9.36⑤	8.96 9.54 10.11⑤	9.71 10.29 10.86⑤	10.47 11.04 11.62⑤	11.60 12.17 12.74⑤	12.73 13.30 13.87⑤	13.85 14.43 15.00⑤	14.98 15.55 16.12⑤	16.48 17.05 17.62⑤	17.99 18.56 19.13⑤	19.49 20.06 20.63⑤	29.99 21.56 22.13⑤	22.49 23.06 23.62⑤	25.50 26.06 26.63⑤	
5.75	6.52	7.28	8.05	8.81	9.95	11.08	12.21	13.35	14.85	16.36	17.86	19.37	20.87	23.88	**2.09**
—	—	—	—	—	—	—	—	—	9.00	10.55	12.10	13.63	15.16	18.19	**2.10**
6.35	7.12	7.88	8.64	9.40	10.53	11.66	12.79	13.92	15.43	16.93	18.44	19.94	21.44	24.45	**2.11**
6.95	7.71	8.46	9.22	9.98	11.11	12.24	13.37	14.50	16.00	17.51	19.01	20.51	22.01	25.02	**2.12**
— 7.83	— 8.58	— 9.34	5.68 10.09	6.47 10.85	7.64 11.97	8.80 13.10	9.95 14.23	11.09 15.36	12.61 16.86	14.13 18.36	15.64 19.86	17.15 21.37	18.66 22.87	21.68 25.87	**2.14**
8.41⑤	9.16⑤	9.91⑤	10.67⑤	11.42⑤	12.55⑤	13.67⑤	14.80⑤	15.93⑤	17.43⑤	18.93⑤	20.43⑤	21.94⑤	23.44⑤	26.44⑤	**2.17**
5.21	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	**2.18**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
2.20	20 L	2.387	44 L	5.252	1590	3.46	795	1.80	527	1.20	—	—	—	4.26	5.05
2.22	18 L	2.149	40 L	4.775	1575	3.15	788	1.62	522	1.08	—	—	—	4.89	5.67
2.25	32 L	3.820	72 L	8.594	1556	5.10	778	2.83	516	1.91	—	—	—	—	—
	16 L	1.910	36 L	4.297	1556	2.83	778	1.45	516	.97	—	—	4.34	5.50	6.27
2.29	21 L	2.507	48 L	5.730	1531	3.62	766	1.89	507	1.26	—	—	—	—	4.49
	14 L	1.671	32 L	3.820	1531	2.49■	766	1.27	507	.85	—	—	4.95⑤	6.10	6.86
2.31	26 L	3.104	60 L	7.162	1517	4.35	758	2.32	503	1.56	—	—	—	—	—
2.32	19 L	2.268	44 L	5.252	1511	3.31	756	1.71	501	1.14	—	—	—	4.34	5.13
2.33	36 L	4.297	84 L	10.027	1500	5.52	750	3.15	497	2.14	—	—	—	—	—
	12 L	1.432	28 L	3.342	1500	—	750	1.09■	497	.72	—	3.63④	5.55⑤	6.69⑤	7.45⑤
2.40	30 L	3.581	72 L	8.594	1458	4.86	729	2.66	483	1.79	—	—	—	—	
	20 L	2.387	48 L	5.730	1458	3.46	729	1.80	483	1.20	—	—	—	—	4.57
2.44	18 L	2.149	44 L	5.252	1432	3.15	716	1.62	475	1.08	—	—	—	4.42	5.21
2.50	24 L	2.865	60 L	7.162	1400	4.06	700	2.15	464	1.44	—	—	—	—	—
	16 L	1.910	40 L	4.775	1400	2.83	700	1.45	464	.97	—	—	—	5.05	5.83
	12 L	1.432	30 L	3.581	1400	—	700	1.09■	464	.72	—	3.40④	5.34⑤	6.48⑤	7.24⑤
2.53	19 L	2.268	48 L	5.730	1385	3.31	693	1.71	459	1.14	—	—	—	—	4.65
2.57	28 L	3.342	72 L	8.594	1361	4.61	681	2.49	451	1.67	—	—	—	—	—
	14 L	1.671	36 L	4.297	1361	2.49■	681	1.27	451	.85	—	—	4.50⑤	5.67⑤	6.44
2.59	17 L	2.029	44 L	5.252	1352	2.99	676	1.54	448	1.03	—	—	—	4.50	5.29
2.63	32 L	3.820	84 L	10.027	1333	5.10	667	2.83	442	1.91	—	—	—	—	—
2.67	18 L	2.149	48 L	5.730	1312	3.15	656	1.62	435	1.08	—	—	—	—	4.73
	12 L	1.432	32 L	3.820	1312	—	656	1.09■	435	.72	—	3.15⑤	5.12⑤	6.27⑤	7.03⑤
2.73	22 L	2.626	60 L	7.162	1283	3.77	642	1.98	425	1.32	—	—	—	—	—
2.75	16 L	1.910	44 L	5.252	1272	2.83	636	1.45	422	.97	—	—	—	4.57	5.37
2.77	26 L	3.104	72 L	8.594	1264	4.35	632	2.32	419	1.56	—	—	—	—	—
2.80	30 L	3.581	84 L	10.027	1250	4.86	625	2.66	414	1.79	—	—	—	—	—
2.82	17 L	2.029	48 L	5.730	1240	2.99	620	1.54	411	1.03	—	—	—	—	4.80
2.86	21 L	2.507	60 L	7.162	1225	3.62	613	1.89	406	1.26	—	—	—	—	—
	14 L	1.671	40 L	4.775	1225	2.49■	613	1.27	406	.85	—	—	—	5.21	5.99
3.00	28 L	3.342	84 L	10.027	1167	4.61	583	2.49	387	1.67	—	—	—	—	—
	24 L	2.865	72 L	8.594	1167	4.06	583	2.15	387	1.44	—	—	—	—	—
	20 L	2.387	60 L	7.162	1167	3.46	583	1.80	387	1.20	—	—	—	—	—
	16 L	1.910	48 L	5.730	1167	2.83	583	1.45	387	.97	—	—	—	—	4.88
	12 L	1.432	36 L	4.297	1167	—	583	1.09■	387	.72	—	—	4.66④	5.83⑤	6.60⑤
3.14	14 L	1.671	44 L	5.252	1114	2.49■	557	1.27	369	.85	—	—	—	4.73⑤	5.53⑤

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

L
3/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
5.83	6.60	7.37	8.13	8.89	10.03	11.17	12.30	13.43	14.94	16.45	17.95	19.46	20.96	23.97	**2.20**
6.44	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	**2.22**
—	—	—	—	—	—	7.10	8.29	9.45	11.00	12.53	14.06	15.58	17.09	20.12	**2.25**
7.03	7.79	8.55	9.31	10.07	11.20	12.33	13.46	14.59	16.09	17.60	19.10	20.60	22.11	25.11	
5.29	6.07	6.85	7.62	8.39	9.53	10.67	11.99	12.94	14.45	15.96	17.47	18.97	20.48	23.49	**2.29**
7.62	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	**2.31**
5.91	6.68	7.45	8.22	8.98	10.12	11.25	12.39	13.52	15.03	16.54	18.04	19.55	21.05	24.06	**2.32**
—	—	—	—	—	—	—	—	7.72	9.31	10.88	12.43	13.96	15.49	18.54	**2.33**
8.20⑤	8.96⑤	9.71⑤	10.47⑤	11.22⑤	12.35⑤	13.48⑤	14.61⑤	15.73⑤	17.24⑤	18.74⑤	20.24⑤	21.74⑤	23.24⑤	26.25⑤	
—	—	—	—	—	—	7.26	8.44	9.62	11.16	12.70	14.23	15.75	17.27	20.29	**2.40**
5.37	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	
5.99	6.77	7.54	8.30	9.06	10.20	11.34	12.48	13.61	15.12	16.63	18.13	19.64	21.14	24.15	**2.44**
—	—	—	5.99	6.79	7.97	9.13	10.28	11.43	12.96	14.48	15.99	17.50	19.01	22.03	**2.50**
6.60	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	
8.00⑤	8.76⑤	9.51⑤	10.27⑤	11.02⑤	12.15⑤	13.28⑤	14.41⑤	15.54⑤	17.04⑤	18.54⑤	20.05⑤	21.55⑤	23.05⑤	26.05⑤	
5.45	6.23	7.01	7.78	8.55	9.70	10.84	11.98	13.11	14.63	16.14	17.65	19.15	20.66	23.67	**2.53**
—	—	—	—	—	6.19	7.41	8.60	9.78	11.33	12.86	14.39	15.92	17.44	20.47	**2.57**
7.20	7.96	8.72	9.48	10.24	11.37	12.51	13.64	14.77	16.27	17.78	19.28	20.78	22.29	25.29	
6.07	6.85	7.62	8.39	9.15	10.29	11.43	12.56	13.70	15.21	16.72	18.22	19.73	21.23	24.24	**2.59**
—	—	—	—	—	—	—	—	8.02	9.63	11.20	12.75	14.30	15.83	18.88	**2.63**
5.53	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	**2.67**
7.79⑤	8.55⑤	9.31⑤	10.07⑤	10.82⑤	11.95⑤	13.08⑤	14.21⑤	15.34⑤	16.85⑤	18.35⑤	19.85⑤	21.36⑤	22.86⑤	25.86⑤	
—	—	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	**2.73**
6.15	6.93	7.70	8.47	9.23	10.38	11.51	12.65	13.78	15.30	16.80	18.31	19.82	21.32	24.33	**2.75**
—	—	—	—	—	6.34	7.56	8.76	9.94	11.49	13.03	14.56	16.09	17.61	20.64	**2.77**
—	—	—	—	—	—	—	—	8.17	9.78	11.36	12.92	14.46	16.00	19.05	**2.80**
5.61	6.39	7.17	7.95	8.72	9.87	11.01	12.15	13.29	14.80	16.31	17.82	19.33	20.84	23.85	**2.82**
.....	.....	5.40	6.22	7.02	8.21	9.37	10.53	11.68	13.21	14.73	16.25	17.77	19.28	22.30	**2.86**
6.77	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	**3.00**
—	—	—	—	—	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	
5.68	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	
7.37⑤	8.13⑤	8.89⑤	9.65⑤	10.41⑤	11.55⑤	12.68⑤	13.81⑤	14.94⑤	16.45⑤	17.96⑤	19.46⑤	20.96⑤	22.47⑤	25.47⑤	
6.31⑤	7.09⑤	7.87	8.64	9.40	10.54	11.68	12.82	13.96	15.47	16.98	18.49	19.99	21.50	24.51	**3.14**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

L
3/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	pulley combination: driveR pitch diameter in.	pulley combination: driveN code: no. of grooves	pulley combination: driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	3500 rpm driveR speed — hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	1750 rpm driveR speed — hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	1160 rpm driveR speed — hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 12.375 33 teeth **124 L**	PL: 15.00 40 teeth **150 L**	PL: 18.75 50 teeth **187 L**	PL: 21.00 56 teeth **210 L**	PL: 22.50 60 teeth **225 L**
3.16	19 L	2.268	60 L	7.162	1108	3.31	554	1.71	367	1.14	—	—	—	—	—
3.23	26 L	3.104	84 L	10.027	1084	4.35	542	2.32	359	1.56	—	—	—	—	—
3.27	22 L	2.626	72 L	8.594	1069	3.77	535	1.98	354	1.32	—	—	—	—	—
3.33	18 L 12 L	2.149 1.432	60 L 40 L	7.162 4.775	1050 1050	3.15 —	525 525	1.62 1.09■	348 348	1.08 .72	— —	— —	— 4.17④	— 5.37④	— 6.15④
3.43	21 L 14 L	2.507 1.671	72 L 48 L	8.594 5.730	1021 1021	3.62 2.49■	510 510	1.89 1.27	338 338	1.26 .85	— —	— —	— —	— 4.19④	— 5.03⑤
3.50	24 L	2.865	84 L	10.027	1000	4.06	500	2.15	331	1.44	—	—	—	—	—
3.53	17 L	2.029	60 L	7.162	992	2.99	496	1.54	329	1.03	—	—	—	—	—
3.60	20 L	2.387	72 L	8.594	972	3.46	486	1.80	3.22	1.20	—	—	—	—	—
3.66	12 L	1.432	44 L	5.252	955	—	477	1.09■	316	.72	—	—	—	4.88④	5.68④
3.75	16 L	1.910	60 L	7.162	933	2.83	467	1.45	309	.97	—	—	—	—	—
3.79	19 L	2.268	72 L	8.594	924	3.31	462	1.71	306	1.14	—	—	—	—	—
3.82	22 L	2.626	84 L	10.027	916	3.77	458	1.98	304	1.32	—	—	—	—	—
4.00	21 L 18 L 12 L	2.507 2.149 1.432	84 L 72 L 48 L	10.027 8.594 5.730	875 875 875	3.62 3.15 —	438 438 438	1.89 1.62 1.09■	290 290 290	1.26 1.08 .72	— — —	— — —	— — —	— — 4.34④	— — 5.18④
4.20	20 L	2.387	84 L	10.027	833	3.46	417	1.80	276	1.20	—	—	—	—	—
4.23	17 L	2.029	72 L	8.594	826	2.99	413	1.54	274	1.03	—	—	—	—	—
4.29	14 L	1.671	60 L	7.162	817	2.49■	408	1.27	271	.85	—	—	—	—	—
4.42	19 L	2.268	84 L	10.027	792	3.31	396	1.71	262	1.14	—	—	—	—	—
4.50	16 L	1.910	72 L	8.594	778	2.83	389	1.45	258	.97	—	—	—	—	—
4.67	18 L	2.149	84 L	10.027	749	3.15	375	1.62	248	1.08	—	—	—	—	—
4.94	17 L	2.029	84 L	10.027	708	2.99	354	1.54	235	1.03	—	—	—	—	—
5.00	12 L	1.432	60 L	7.162	700	—	350	1.09■	232	.72	—	—	—	—	—
5.14	14 L	1.671	72 L	8.594	681	2.49■	340	1.27	226	.85	—	—	—	—	—
5.25	16 L	1.910	84 L	10.027	667	2.83	333	1.45	221	.97	—	—	—	—	—
6.00	14 L 12 L	1.671 1.432	84 L 72 L	10.027 8.594	583 583	2.49■ —	292 292	1.27 1.09■	193 193	.85 .72	— —	— —	— —	— —	— —
7.00	12 L	1.432	84 L	10.027	500	—	250	1.09■	166	.72	—	—	—	—	—

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

L
3/8" Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)															
PL: 24.00 64 teeth 240 L	PL: 25.50 68 teeth 255 L	PL: 27.00 72 teeth 270 L	PL: 28.50 76 teeth 285 L	PL: 30.00 80 teeth 300 L	PL: 32.25 86 teeth 322 L	PL: 34.50 92 teeth 345 L	PL: 36.75 98 teeth 367 L	PL: 39.00 104 teeth 390 L	PL: 42.00 112 teeth 420 L	PL: 45.00 120 teeth 450 L	PL: 48.00 128 teeth 480 L	PL: 51.00 136 teeth 510 L	PL: 54.00 144 teeth 540 L	PL: 60.00 160 teeth 600 L	speed ratio □
—	—	5.46	6.38	7.18	8.37	9.54	10.70	11.85	14.50	14.90	16.42	17.94	19.45	22.47	**3.16**
—	—	—	—	—	—	—	7.22	8.48	10.10	11.68	13.24	14.79	16.33	19.39	**3.23**
—	—	—	—	—	6.64	7.87	9.07	10.26	11.82	13.36	14.90	16.43	17.95	20.99	**3.27**
— 6.93⑤	— 7.70⑤	5.62 8.47⑤	6.45 9.23⑤	7.26 10.00⑤	8.45 11.14⑤	9.62 12.27⑤	10.78 13.40⑤	11.93 14.54⑤	13.46 16.05⑤	14.99 17.56⑤	16.51 19.06⑤	18.02 20.57⑤	19.54 22.08⑤	22.56 25.08⑤	**3.33**
— 5.84⑤	— 6.63⑤	— 7.42⑤	— 8.19⑤	— 8.97⑤	6.71 10.12	7.95 11.26	9.15 12.41	10.34 13.55	11.90 15.06	13.44 16.57	14.98 18.08	16.51 19.59	18.03 21.10	21.07 24.11	**3.43**
—	—	—	—	—	—	—	7.37	8.63	10.25	11.84	13.40	14.95	16.49	19.56	**3.50**
—	4.84⑤	5.70	6.53	7.34	8.52	9.70	10.86	12.02	13.55	15.07	16.59	18.11	19.62	22.65	**3.53**
—	—	—	—	—	6.78	8.02	9.23	10.42	11.98	13.53	15.06	16.59	18.12	21.16	**3.60**
6.47④	7.25④	8.03⑤	8.80⑤	9.57⑤	10.71⑤	11.86⑤	13.00⑤	14.13⑤	15.64⑤	17.16⑤	18.66⑤	20.17⑤	21.68⑤	24.69⑤	**3.66**
—	4.91⑤	5.77⑤	6.60⑤	7.41	8.60	9.78	10.94	12.10	13.63	15.16	16.68	18.20	19.71	22.73	**3.75**
—	—	—	—	—	6.86	8.10	9.31	10.51	12.06	13.61	15.15	16.68	18.20	21.24	**3.79**
—	—	—	—	—	—	—	7.51	8.78	10.40	12.00	13.56	15.12	16.66	19.18	**3.82**
— — 5.99④	— — 6.79④	— — 7.58④	— — 8.36④	— 5.61⑤ 9.13⑤	— 6.93 10.28⑤	— 8.18 11.43⑤	7.58 9.39 12.58⑤	8.85 10.58 13.72⑤	10.48 12.14 15.23⑤	12.07 13.69 16.75⑤	13.64 15.23 18.25⑤	15.20 16.76 19.77⑤	16.74 18.29 21.28⑤	19.80 21.33 24.29⑤	**4.00**
—	—	—	—	—	—	—	7.66	8.93	10.56	12.15	13.72	15.28	16.82	19.89	**4.20**
—	—	—	—	5.68⑤	7.00⑤	8.25	9.46	10.65	12.22	13.77	15.31	16.85	18.37	21.42	**4.23**
—	5.05④	5.92④	6.75⑤	7.57⑤	8.76⑤	9.94⑤	11.11⑤	12.26⑤	13.80	15.33	16.85	18.37	19.88	22.91	**4.29**
—	—	—	—	—	—	6.38⑤	7.73	9.00	10.64	12.23	13.80	15.36	16.91	19.98	**4.42**
—	—	—	—	5.75④	7.08⑤	8.33⑤	9.54	10.73	12.30	13.85	15.40	16.93	18.46	21.50	**4.50**
—	—	—	—	—	—	6.45⑤	7.80⑤	9.08	10.71	12.31	13.88	15.44	16.99	20.06	**4.67**
—	—	—	—	—	—	6.51④	7.87⑤	9.15⑤	10.79	12.39	13.96	15.52	17.07	20.14	**4.94**
—	5.19③	6.07④	6.90④	7.72④	8.92④	10.10④	11.27⑤	12.43⑤	13.97⑤	15.49⑤	17.02⑤	18.54⑤	20.06⑤	23.08⑤	**5.00**
—	—	—	—	5.89④	7.22④	8.48⑤	9.70⑤	10.89⑤	12.46⑤	14.02⑤	15.56⑤	17.10	18.63	21.67	**5.14**
—	—	—	—	—	—	6.58④	7.94⑤	9.22⑤	10.87	12.47	14.04	15.60	17.15	20.23	**5.25**
— —	— —	— —	— —	— 6.03③	— 7.37④	6.72④ 8.63④	8.09④ 9.85④	9.37④ 11.05④	11.02⑤ 12.62④	12.62⑤ 14.18⑤	14.20⑤ 15.73⑤	15.76⑤ 17.26⑤	17.32⑤ 18.79⑤	20.39⑤ 21.84⑤	**6.00**
—	—	—	—	—	—	6.86③	8.23③	9.52④	11.17④	12.78④	14.36④	15.93④	17.48⑤	20.56⑤	**7.00**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	3/8	7/16	1/2	5/8	3/4	7/8	1	1¼	1½	1¾	2	2½	3
width factor	.28	.35	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

H
½″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 24.00 48 teeth **240 H**	PL: 27.00 54 teeth **270 H**	PL: 30.00 60 teeth **300 H**	PL: 33.00 66 teeth **330 H**	PL: 36.00 72 teeth **360 H**	PL: 39.00 78 teeth **390 H**	PL: 42.00 84 teeth **420 H**
1.00	48 H	7.639	48H	7.639	3500	21.63	1750	13.84	1160	9.55	—	—	—	—	—	—	9.01
	44 H	7.003	44 H	7.003	3500	21.01	1750	12.81	1160	8.80	—	—	—	—	—	8.51	10.01
	40 H	6.366	40 H	6.366	3500	20.08	1750	11.79	1160	8.03	—	—	—	—	8.01	9.51	11.01
	36 H	5.730	36 H	5.730	3500	18.89	1750	10.71	1160	7.26	—	—	—	7.51	9.01	10.51	12.01
	32 H	5.093	32 H	5.093	3500	17.40	1750	9.60	1160	6.48	—	5.51	7.01	8.51	10.01	11.51	13.01
	30 H	4.775	30 H	4.775	3500	16.59	1750	9.03	1160	6.08	—	6.01	7.51	9.01	10.51	12.01	13.51
	28 H	4.456	28 H	4.456	3500	15.74	1750	8.46	1160	5.68	5.01	6.51	8.01	9.51	11.01	12.51	14.01
	26 H	4.138	26 H	4.138	3500	14.80	1750	7.88	11.60	5.28	5.51	7.01	8.51	10.01	11.51	13.01	14.51
	24 H	3.820	24 H	3.820	3500	13.82	1750	7.30	1160	4.89	6.01	7.51	9.01	10.51	12.01	13.51	15.01
	22 H	3.501	22 H	3.501	3500	12.84	1750	6.71	1160	4.48	6.51	8.01	9.51	11.01	12.51	14.01	15.51
	21 H	3.342	21 H	3.342	3500	12.31■	1750	6.41	1160	4.28	6.76	8.26	9.76	11.26	12.76	14.26	15.76
	20 H	3.183	20 H	3.183	3500	11.77■	1750	6.11	1160	4.08	7.01	8.51	10.01	11.51	13.01	14.51	16.01
	19 H	3.024	19 H	3.024	3500	11.24■	1750	5.81■	1160	3.88	7.26	8.76	10.26	11.76	13.26	14.76	16.26
	18 H	2.865	18H	2.865	3500	10.71■	1750	5.52■	1160	3.68	7.51	9.01	10.51	12.01	13.51	15.01	16.51
	16 H	2.546	16 H	2.546	3500	—	1750	4.91■	1160	3.27■	8.01	9.51	11.01	12.51	14.01	15.51	17.01
1.04	21 H	3.342	22 H	3.501	3342	12.31■	1671	6.41	1108	4.28	6.63	8.13	9.63	11.13	12.63	14.14	15.64
1.05	20 H	3.183	21 H	3.342	3333	11.77■	1667	6.11	1105	4.08	6.88	8.38	9.88	11.38	12.88	14.39	15.89
	19 H	3.024	20 H	3.183	3325	11.24■	1663	5.81■	1102	3.88	7.13	8.63	10.13	11.63	13.14	14.64	16.14
	18 H	2.865	19 H	3.024	3314	10.71■	1657	5.52■	1098	3.68	7.38	8.88	10.38	11.89	13.39	14.89	16.39
1.07	30 H	4.775	32 H	5.093	3281	16.59	1641	9.03	1087	6.08	—	5.75	7.25	8.76	10.26	11.76	13.26
	28 H	4.456	30 H	4.775	3267	15.74	1633	8.46	1083	5.68	—	6.25	7.26	9.26	10.76	12.26	13.76
1.08	26 H	4.138	28 H	4 456	3250	14.80	1625	7.88	1077	5.28	5.25	6.75	8.26	9.76	11.26	12.76	14.26
	24 H	3.820	26 H	4.138	3231	13.82	1615	7.30	1071	4.89	5.76	7.26	8.76	10.26	11.76	13.26	14.76
1.09	44 H	7.003	48 H	7.639	3208	21.01	1604	12.84	1063	8.80	—	—	—	—	—	7.98	9.50
	22 H	3.501	24 H	3.820	3208	12.84	1604	6.71	1063	4.48	6.26	7.76	9.26	10.76	12.26	13.76	15.26
1.10	40 H	6.366	44 H	7.003	3182	20.08	1591	11.79	1055	8.03	—	—	—	—	7.50	9.00	10.50
	20 H	3.183	22 H	3.501	3182	11.77■	1591	6.11	1055	4.08	6.76	8.26	9.76	11.26	12.76	14.26	15.75
	19 H	3.024	21 H	3.342	3167	11.24■	1583	5.81■	1050	3.88	7.01	8.51	10.01	11.51	13.01	14.51	16.01
1.11	36 H	5.730	40 H	6.366	3150	18.89	1575	10.71	1044	7.26	—	—	—	7.00	8.50	10.00	11.50
	18 H	2.865	20 H	3.183	3150	10.71■	1575	5.52■	1044	3.68	7.26	8.76	10.26	11.76	13.26	14.76	16.26
1.13	32 H	5.093	36 H	5.730	3111	17.40	1556	9.60	1031	6.48	—	—	6.50	8.00	9.50	11.00	12.50
	16 H	2.546	18 H	2.865	3111	—	1556	4.91■	1031	3.27■	7.76	9.26	10.76	12.26	13.76	15.26	16.76
1.14	28 H	4.456	32 H	5.093	3063	15.74	1531	8.46	1015	5.68	—	6.00	7.50	9.00	10.50	12.01	13.51
	21 H	3.342	24 H	3.820	3063	12.31■	1531	6.41	1015	4.28	6.38	7.88	9.38	10.88	12.38	13.88	15.38
1.15	26 H	4.138	30 H	4.775	3033	14.80	1517	7.88	1005	5.28	5.00	6.50	8.00	9.50	11.00	12.51	14.01
1.16	19 H	3.024	22 H	3.501	3023	11.24■	1511	5.81■	1002	3.88	6.88	8.38	9.88	11.38	12.88	14.38	15.88
1.17	24 H	3.820	28 H	4.456	3000	13.82	1500	7.30	994	4.89	5.50	7.00	8.50	10.00	11.50	13.01	14.51
	18 H	2.865	21 H	3.342	3000	10.71■	1500	5.52■	994	3.68	7.13	8.63	10.13	11.63	13.13	14.63	16.13
1.18	22 H	3.501	26 H	4.138	2962	12.84	1481	6.71	982	4.48	6.00	7.50	9.00	10.50	12.01	13.50	15.01
1.19	16 H	2.546	19 H	3.024	2947	—	1474	4.91■	977	3.27■	7.63	9.73	10.63	12.13	13.63	15.13	16.63
1.20	40 H	6.366	48 H	7.639	2917	20.08	1458	11.79	967	8.03	—	—	—	—	—	8.48	9.99
	30 H	4.775	36 H	5.730	2917	16.59	1458	9.03	967	6.08	—	—	6.74	8.24	9.75	11.25	12.75
	20 H	3.183	24 H	3.820	2917	11.77■	1458	6.11	967	4.08	6.50	8.00	9.50	11.00	12.51	14.01	15.51

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

H
½″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)																		
PL: 45.00 90 teeth 450 H	PL: 48.00 96 teeth 480 H	PL: 51.00 102 teeth 510 H	PL: 54.00 108 teeth 540 H	PL: 57.00 114 teeth 570 H	PL: 60.00 120 teeth 600 H	PL: 63.00 126 teeth 630 H	PL: 66.00 132 teeth 660 H	PL: 70.00 140 teeth 700 H	PL: 75.00 150 teeth 750 H	PL: 80.00 160 teeth 800 H	PL: 85.00 170 teeth 850 H	PL: 90.00 180 teeth 900 H	PL: 100.00 200 teeth 1000 H	PL: 110.00 220 teeth 1100 H	PL: 125.00 250 teeth 1250 H	PL: 140.00 280 teeth 1400 H	PL: 170.00 340 teeth 1700 H	speed ratio □
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	**1.00**
11.51	13.01	14.51	16.01	17.51	19.01	20.51	22.01	24.01	26.51	29.01	31.51	34.01	39.01	44.01	51.51	59.01	74.01	
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	75.01	
13.51	15.01	16.51	18.01	19.51	21.01	22.51	24.01	26.01	28.51	31.01	33.51	36.01	41.01	46.01	53.51	61.01	76.01	
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	
17.26	18.76	20.26	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	
17.51	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	
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	
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	
17.14	18.64	20.14	21.64	23.14	24.64	26.14	27.64	29.64	32.14	34.64	37.14	39.64	44.69	49.64	57.14	64.64	79.64	**1.04**
17.39	18.89	20.39	21.88	23.39	24.89	26.39	27.89	29.89	32.39	34.89	37.39	39.89	44.89	49.89	57.39	64.89	79.89	**1.05**
17.64	19.14	20.64	22.14	23.64	25.14	26.64	28.14	30.14	32.64	35.14	37.64	40.14	45.14	50.14	57.64	65.14	80.14	
17.89	19.39	20.89	22.39	23.89	25.39	26.89	28.39	30.39	32.89	36.39	37.89	40.39	45.39	50.39	57.89	65.39	80.39	
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	54.76	62.26	77.26	**1.07**
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	**1.08**
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	
11.00	12.50	14.00	15.51	17.01	18.51	20.01	21.51	23.51	26.01	28.51	21.00	33.51	38.51	43.51	51.01	58.51	73.51	**1.09**
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	
12.00	13.50	16.01	16.51	18.01	19.51	21.01	22.51	24.51	27.01	29.51	32.01	34.51	39.51	44.51	58.01	59.51	74.51	**1.10**
17.26	18.75	20.36	21.76	23.26	24.76	26.26	27.76	29.76	22.26	34.76	37.26	39.76	44.76	49.76	57.26	64.76	79.76	
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	
13.00	14.50	16.01	17.51	19.01	20.51	22.01	23.51	25.51	28.01	30.51	33.01	35.51	40.51	45.51	53.01	60.51	75.51	**1.11**
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	
14.01	15.51	17.01	18.51	20.01	21.51	23.01	24.51	26.51	29.01	31.51	34.01	36.51	41.51	46.51	54.01	61.50	76.51	**1.13**
18.26	19.76	21.26	22.76	24.26	25.76	27.26	28.76	30.76	32.26	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	**1.14**
16.88	18.38	19.88	21.38	22.89	24.39	25.89	27.39	29.39	31.89	34.39	36.89	39.39	44.39	49.39	56.89	64.39	79.39	
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	**1.15**
17.38	18.88	20.39	21.89	23.39	24.89	26.39	27.89	29.89	32.39	34.89	37.39	39.89	44.86	49.89	57.39	64.89	79.89	**1.16**
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	**1.17**
17.63	19.13	20.63	22.13	23.64	25.14	26.64	28.14	30.14	32.64	35.74	37.64	40.14	45.14	50.14	57.64	65.14	80.14	
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	**1.18**
18.13	19.63	21.14	22.64	24.14	25.64	27.14	28.64	30.64	33.14	35.64	38.14	40.64	45.64	50.64	58.14	65.64	80.64	**1.19**
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	**1.20**
14.25	15.75	17.25	18.75	20.25	21.76	23.26	24.76	26.76	29.26	31.76	34.26	36.76	41.76	46.76	54.26	61.76	76.76	
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	

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8
width factor	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

H
½″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination: driveR code: no. of grooves	driveR pitch diameter in.	driveN code: no. of grooves	driveN pitch diameter in.	driveN speed and hp capacity: 3500 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1750 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	1160 rpm driveR speed — driveN speed rpm	hp for 1 inch belt	center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type): PL: 24.00 48 teeth 240 H	PL: 27.00 54 teeth 270 H	PL: 30.00 60 teeth 300 H	PL: 33.00 66 teeth 330 H	PL: 36.00 72 teeth 360 H	PL: 39.00 78 teeth 390 H	PL: 42.00 84 teeth 420 H
1.22	36 H	5.730	44 H	7.003	2864	18.89	1432	10.71	949	7.26	—	—	—	—	7.98	9.48	10.99
	18 H	2.865	22 H	3.501	2864	10.71■	1432	5.52■	949	3.68	7.01	8.50	10.00	11.51	13.01	14.51	16.01
1.23	26 H	4.138	32 H	5.093	2844	14.80	1422	7.88	943	5.28	—	6.24	7.74	9.24	10.75	12.25	13.75
1.24	21 H	3.342	26 H	4.138	2827	12.31■	1413	6.41	937	4.28	6.12	7.62	9.12	10.63	12.13	13.63	15.13
1.25	48 H	7.639	60 H	9.549	2800	—	1400	13.84	928	9.55	—	—	—	—	—	—	—
	32 H	5.093	40 H	6.366	2800	17.40	1400	9.60	928	6.48	—	—	—	7.48	8.98	10.49	11.99
	24 H	3.820	30 H	4.775	2800	13.82	1400	7.30	928	4.89	5.24	6.40	8.24	9.75	11.25	12.75	14.25
	16 H	2.546	20 H	3.183	2800	—	1400	4.91■	928	3.27■	7.50	9.00	10.50	12.01	13.51	15.01	16.51
1.26	19 H	3.024	24 H	3.820	2770	11.24■	1385	5.81■	918	3.88	6.64	8.12	9.63	11.13	12.63	14.13	15.63
1.27	22 H	3.501	28 H	4.456	2750	12.84	1375	6.71	911	4.48	5.74	7.24	8.74	10.25	11.75	13.25	14.75
1.29	28 H	4.456	36 H	5.730	2722	15.74	1361	8.46	902	5.68	—	5.47	6.98	8.47	9.99	11.49	13.00
1.30	20 H	3.183	26 H	4.138	2692	11.77■	1346	6.11	892	4.08	6.24	7.74	9.25	10.75	12.25	13.75	15.26
1.31	16 H	2.546	21 H	3.342	2666	—	1333	4.91■	884	3.27■	7.37	8.87	10.38	11.88	13.38	14.88	16.38
1.33	36 H	5.730	48 H	7.639	2625	18.89	1313	10.71	870	7.26	—	—	—	—	7.44	8.96	10.47
	30 H	4.775	40 H	6.366	2625	16.59	1313	9.03	870	6.08	—	—	6.20	7.72	9.22	10.73	12.24
	24 H	3.820	32 H	5.093	2625	13.82	1313	7.30	870	4.89	4.97	6.48	7.98	9.49	10.99	12.49	14.00
	21 H	3.342	28 H	4.456	2625	12.31■	1313	6.41	870	4.28	5.86	7.36	8.87	10.37	11.87	13.37	14.88
	18 H	2.865	24 H	3.820	2625	10.71■	1313	5.52■	870	3.68	6.74	8.24	9.75	11.25	12.75	14.25	15.76
1.36	44 H	7.003	60 H	9.549	2567	21.01	1283	12.84	851	8.80	—	—	—	—	—	—	—
	22 H	3.501	30 H	4.775	2567	12.84	1283	6.71	851	4.48	5.47	6.98	8.48	9.99	11.49	12.99	14.50
1.38	32 H	5.093	44 H	7.003	2545	17.40	1273	9.60	844	6.48	—	—	—	6.94	8.45	9.96	11.47
	26 H	4.138	36 H	5.730	2528	14.80	1264	7.88	838	5.28	—	5.70	7.21	8.72	10.23	11.73	13.24
	19 H	3.024	26 H	4.138	2558	11.24■	1279	5.81■	848	3.88	6.36	7.86	9.37	10.87	12.37	13.87	15.38
	16 H	2.546	22 H	3.501	2545	—	1273	4.91■	844	3.27■	7.24	8.75	10.25	11.75	13.25	14.75	16.25
1.40	20 H	3.183	28 H	4.456	2500	11.77■	1250	6.11	829	4.08	5.97	7.48	8.99	10.49	11.99	13.49	15.00
1.43	28 H	4.456	40 H	6.366	2450	15.74	1225	8.46	812	5.68	—	—	6.50	7.95	9.46	10.97	12.47
	21 H	3.342	30 H	4.775	2450	12.31■	1225	6.41	812	4.28	5.59	7.10	8.60	10.11	11.61	13.11	14.62
1.44	18 H	2.865	26 H	4.138	2423	10.71■	1212	5.52■	803	3.68	6.48	7.98	9.49	10.99	12.49	14.00	15.50
1.45	22 H	3.501	32 H	5.093	2406	12.84	1203	6.71	798	4.48	5.20	6.71	8.22	9.73	11.23	12.73	14.24
1.46	30 H	4.775	44 H	7.003	2386	16.59	1193	9.03	791	6.08	—	—	—	7.17	8.68	10.20	11.70
1.47	19 H	3.024	28 H	4.456	2375	11.24■	1187	5.81■	787	3.88	6.09	7.60	9.11	10.61	12.11	13.62	15.12
1.50	48 H	7.639	72 H	11.459	2333	21.63	1167	13.84	773	9.55	—	—	—	—	—	—	—
	40 H	6.366	60 H	9.549	2333	20.08	1167	11.79	773	8.03	—	—	—	—	—	—	8.35
	32 H	5.093	48 H	7.639	2333	17.40	1167	9.60	773	6.48	—	—	—	—	7.90	9.42	10.93
	24 H	3.820	36 H	5.730	2333	13.82	1167	7.30	773	4.89	—	5.93	7.44	8.96	10.46	11.97	13.48
	20 H	3.183	30 H	4.775	2333	11.77■	1167	6.11	773	4.08	5.70	7.21	8.72	10.23	11.73	13.24	14.74
	16 H	2.546	24 H	3.820	2333	—	1167	4.91■	773	3.27■	6.98	8.48	9.99	11.49	12.99	14.50	16.00
1.52	21 H	3.342	32 H	5.093	2297	12.31■	1148	6.41	761	4.28	5.31	6.83	8.34	9.84	11.35	12.85	14.45
1.54	26 H	4.138	40 H	6.366	2275	14.80	1138	7.88	754	5.28	—	—	6.66	8.18	9.69	11.20	12.71

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

H
½″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)																		
PL: 45.00 90 teeth 450 H	PL: 48.00 96 teeth 480 H	PL: 51.00 102 teeth 510 H	PL: 54.00 108 teeth 540 H	PL: 57.00 114 teeth 570 H	PL: 60.00 120 teeth 600 H	PL: 63.00 126 teeth 630 H	PL: 66.00 132 teeth 660 H	PL: 70.00 140 teeth 700 H	PL: 75.00 150 teeth 750 H	PL: 80.00 160 teeth 800 H	PL: 85.00 170 teeth 850 H	PL: 90.00 180 teeth 900 H	PL: 100.00 200 teeth 1000 H	PL: 110.00 220 teeth 1100 H	PL: 125.00 250 teeth 1250 H	PL: 140.00 280 teeth 1400 H	PL: 170.00 340 teeth 1700 H	speed ratio □
12.49 17.51	13.99 19.01	15.50 20.51	17.00 22.01	18.50 23.51	20.00 25.01	21.50 26.51	23.00 28.01	25.00 30.01	27.50 32.51	30.00 35.01	32.50 37.50	35.01 40.04	40.01 45.01	45.01 50.01	52.51 57.51	60.01 65.01	75.01 80.01	**1.22**
15.24	16.75	18.25	19.76	21.25	22.76	24.26	25.76	27.76	30.25	32.76	36.26	37.76	42.76	47.76	55.26	62.76	77.76	**1.23**
16.63	18.13	19.63	21.13	22.63	24.13	25.63	27.13	29.13	31.63	34.13	36.63	39.14	44.14	49.14	56.64	64.14	79.14	**1.24**
8.95 13.49 15.75 18.01	10.46 15.00 17.25 19.51	11.97 16.50 18.80 21.01	13.47 18.00 20.25 22.51	14.98 19.50 21.76 24.01	16.48 21.00 23.26 25.51	17.98 22.50 24.76 27.01	19.48 24.00 26.25 28.51	21.49 26.00 28.26 30.51	23.99 28.50 30.76 33.01	26.49 31.00 33.26 35.51	28.99 33.50 35.75 38.01	31.50 36.01 38.26 40.51	36.50 41.00 43.26 45.51	41.50 46.01 48.26 50.51	49.00 53.51 55.76 58.01	56.50 61.01 63.26 65.51	71.50 76.01 78.26 80.51	**1.25**
17.13	18.63	20.13	21.63	23.13	24.63	26.13	22.63	29.64	32.13	34.64	37.13	39.64	44.64	49.64	57.14	64.64	79.64	**1.26**
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	**1.27**
14.50	16.00	17.50	19.00	20.50	22.00	23.50	25.00	27.00	29.50	32.00	34.51	37.01	42.01	47.01	54.51	62.01	77.01	**1.29**
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	**1.30**
17.88	19.38	20.88	22.38	23.88	25.38	26.88	28.38	30.38	32.88	35.39	37.89	40.39	45.39	50.39	57.89	65.39	80.39	**1.31**
11.97 13.74 15.50 16.38 17.25	13.47 15.24 17.00 17.88 18.80	14.98 16.74 18.50 19.38 20.26	16.48 18.24 20.00 20.88 21.76	17.98 19.74 21.50 22.38 23.26	19.49 21.25 23.00 23.88 24.76	20.99 22.75 24.50 25.38 26.25	22.48 24.25 26.00 26.88 27.76	24.49 26.25 28.00 28.88 29.76	26.99 28.75 30.50 31.38 32.25	29.49 31.25 33.00 33.88 34.76	32.00 33.75 35.51 36.38 37.26	34.50 36.25 38.01 38.88 39.76	39.50 41.25 43.00 43.88 44.76	44.50 46.25 48.01 48.88 49.76	52.00 53.75 55.51 56.38 57.26	59.50 61.26 63.01 63.88 64.76	74.51 76.26 78.01 78.89 79.76	**1.33**
9.42 16.00	10.93 17.50	12.44 19.00	13.95 20.50	15.45 22.00	16.96 23.50	18.46 25.00	19.97 26.50	21.97 28.50	24.48 31.00	26.98 33.51	29.48 36.01	31.98 38.50	36.99 43.51	41.99 48.51	49.49 56.01	57.00 63.51	72.00 78.52	**1.36**
12.97 14.74 16.88 17.76	14.48 16.24 18.38 19.26	15.98 17.74 19.88 20.76	17.48 19.24 21.38 22.26	18.99 20.75 22.88 23.76	20.49 22.25 24.38 25.26	21.99 23.75 25.88 26.76	23.49 25.25 27.38 28.26	25.49 27.25 29.38 30.26	27.99 29.75 31.88 32.76	30.50 32.25 34.38 35.26	33.00 34.75 36.88 37.76	35.50 37.25 39.38 40.26	40.50 42.25 44.38 45.26	45.50 47.25 49.38 50.26	53.00 54.76 56.89 57.76	60.50 62.26 64.38 65.26	75.51 77.26 79.39 80.26	**1.38**
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	**1.40**
13.98 16.12	15.48 17.62	16.98 19.12	18.48 20.62	19.99 22.12	21.49 23.63	22.99 25.13	24.49 26.63	26.49 28.63	29.00 31.13	31.50 33.63	34.00 36.13	36.50 38.63	41.50 43.63	46.50 48.63	54.00 56.13	61.50 63.63	76.50 78.64	**1.43**
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	**1.44**
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	**1.45**
13.21	14.72	16.22	17.72	19.23	20.73	22.23	23.73	25.74	28.24	30.74	33.24	35.74	40.75	45.75	53.25	60.41	75.75	**1.46**
16.62	18.12	19.62	21.12	22.62	24.13	25.63	27.13	29.14	31.63	34.13	36.63	39.13	44.13	49.13	56.63	64.13	79.14	**1.47**
— 9.88 12.44	— 11.40 13.95	10.33 12.91 15.46	11.85 14.42 16.97	13.37 15.93 18.47	14.88 17.44 19.97	16.40 18.94 21.47	17.91 20.45 22.97	19.92 22.45 24.98	22.43 24.96 27.48	24.94 27.46 29.98	27.44 29.97 32.49	29.95 32.47 34.99	34.96 37.48 39.99	39.96 42.48 44.99	47.47 49.98 52.50	54.98 57.49 60.00	69.99 72.49 74.99	**1.50**
14.98 16.24 17.50	16.48 17.74 19.00	17.98 19.24 20.50	19.49 20.75 22.00	20.99 22.25 23.50	22.49 23.75 25.00	23.99 25.25 26.50	25.49 26.75 28.00	27.49 28.75 30.01	30.00 31.25 32.51	32.50 33.75 35.01	35.00 36.25 37.50	37.50 38.75 40.01	42.50 43.76 45.02	47.50 48.76 50.01	55.00 56.27 57.51	62.50 63.75 65.01	77.51 78.76 80.01	
15.86	17.36	18.86	20.37	21.87	23.37	24.87	26.32	28.37	30.87	33.38	35.88	38.38	43.38	48.38	55.88	63.88	78.38	**1.52**
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	**1.54**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8
width factor	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

H
½″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination				driveN speed and hp capacity						center distance, inches†						
	driveR		driveN		3500 rpm driveR speed		1750 rpm driveR speed		1160 rpm driveR speed		according to belt pitch length (PL), inches and corresponding code number (bold type)						
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	PL: 24.00 48 teeth **240 H**	PL: 27.00 54 teeth **270 H**	PL: 30.00 60 teeth **300 H**	PL: 33.00 66 teeth **330 H**	PL: 36.00 72 teeth **360 H**	PL: 39.00 78 teeth **390 H**	PL: 42.00 84 teeth **420 H**
1.56	18 H	2.865	28 H	4.456	2250	10.71■	1125	5.52■	746	3.68	6.21	7.72	9.22	10.73	12.23	13.74	15.24
1.57	28 H	4.456	44 H	7.003	2227	15.74	1114	8.46	738	5.68	—	—	—	7.40	8.92	10.43	11.94
1.58	19 H	3.024	30 H	4.775	2217	11.24■	1108	5.81■	735	3.88	5.82	7.33	8.84	10.35	11.85	13.36	14.86
1.60	30 H	4.775	48 H	7.639	2188	16.59	1094	9.03	725	6.08	—	—	—	6.60	8.13	9.65	11.17
	20 H	3.183	32 H	5.093	2188	11.77■	1094	6.11	725	4.08	5.42	6.94	8.45	9.96	11.47	12.97	14.48
1.63	44 H	7.003	72 H	11.459	2139	21.01	1069	12.84	709	8.80	—	—	—	—	—	—	—
	22 H	3.501	36 H	5.730	2139	12.84	1069	6.71	709	4.48	—.	6.16	7.68	9.19	10.70	12.21	13.71
	16 H	2.546	26 H	4.138	2154	—	1077	4.91■	714	3.27■	6.71	8.22	9.73	11.23	12.73	14.24	15.74
1.67	36 H	5.730	60 H	9.549	2100	18.89	1050	10.71	696	7.26	—	—	—	—	—	—	8.80
	24 H	3.820	40 H	6.366	2100	13.82	1050	7.30	696	4.89	—	—	6.89	8.41	9.93	11.44	12.95
	18 H	2.865	30 H	4.775	2100	10.71■	1050	5.52■	696	3.68	5.93	7.45	8.96	10.46	11.97	13.48	14.98
1.68	19 H	3.024	32 H	5.093	2078	11.24■	1039	5.81■	689	3.88	5.54	7.06	8.57	10.08	11.59	13.09	14.60
1.69	26 H	4.138	44 H	7.003	2068	14.80	10.34	7.88	685	5.28	—	—	6.09	7.62	9.15	10.66	12.17
1.71	28 H	4.456	48 H	7.639	2042	15.74	1021	8.46	677	5.68	—	—	—	6.82	8.35	9.88	11.40
	21 H	3.342	36 H	5.730	2042	12.31■	1021	6.41	677	4.28	4.73	6.27	7.79	9.31	10.82	12.33	13.83
1.75	48 H	7.639	84 H	13.369	2000	21.63	1000	13.84	663	9.55	—	—	—	—	—	—	—
	16 H	2.546	28 H	4.456	2000	—	1000	4.91■	663	3.27■	6.44	7.95	9.46	10.97	12.47	13.98	15.48
1.78	18 H	2.865	32 H	5.093	1969	10.71■	985	5.52■	652	3.68	5.65	7.17	8.69	10.20	11.71	13.21	14.72
1.80	40 H	6.366	72 H	11.459	1944	20.08	972	11.79	644	8.03	—	—	—	—	—	—	—
	20 H	3.183	36 H	5.730	1944	11.77■	972	6.11	644	4.08	4.84	6.38	7.90	9.42	10.93	12.44	13.95
1.82	22 H	3.501	40 H	6.366	1925	12.84	963	6.71	638	4.48	—	5.57	7.11	8.64	10.16	11.67	13.18
1.83	24 H	3.820	44 H	7.003	1909	13.82	955	7.30	633	4.89	—	—	6.30	7.84	9.37	10.89	12.41
1.85	26 H	4.138	48 H	7.639	1896	14.80	948	7.88	628	5.28	—	—	—	7.04	8.58	10.11	11.63
1.88	32 H	5.093	60 H	9.549	1867	17.40	933	9.60	619	6.48	—	—	—	—	—	7.68	9.24
	16 H	2.546	30 H	4.775	1867	—	933	4.91■	619	3.27■	6.16	7.68	9.19	10.70	12.21	13.71	15.22
1.89	19 H	3.024	36 H	5.730	1847	11.24■	924	5.81■	612	3.88	4.94	6.49	8.02	9.54	11.41	12.56	14.07
1.90	21 H	3.342	40 H	6.366	1838	12.31■	919	6.41	609	4.28	—	5.68	7.22	8.75	10.27	11.79	13.30
1.91	44 H	7.003	84 H	13.369	1833	21.01	917	12.84	607	8.80	—	—	—	—	—	—	—
2.00	48 H	7.639	96 H	15.279	1750	21.63	875	13.84	580	9.55	—	—	—	—	—	—	—
	36 H	5.730	72 H	11.459	1750	18.89	875	10.71	580	7.26	—	—	—	—	—	—	—
	30 H	4.775	60 H	9.549	1750	16.59	875	9.03	580	6.08	—	—	—	—	—	7.89	9.45
	24 H	3.820	48 H	7.639	1750	13.82	875	7.30	580	4.89	—	—	—	7.25	8.80	10.33	11.85
	22 H	3.501	44 H	7.003	1750	12.84	875	6.71	580	4.48	—	—	6.52	8.07	9.60	11.12	12.64
	20 H	3.183	40 H	6.366	1750	11.77■	875	6.11■	580	4.08	—	5.78	7.33	8.86	10.39	11.90	13.41
	18 H	2.865	36 H	5.730	1750	10.71■	875	5.52■	580	3.68	5.05	6.60	8.13	9.65	11.16	12.68	14.19
	16 H	2.546	32 H	5.093	1750	—	875	4.91■	580	3.27■	5.87	7.40	8.92	10.43	11.94	13.45	14.96
2.09	21 H	3.342	44 H	7.003	1670	12.31■	835	6.41	554	4.28	—	—	6.63	8.18	9.71	11.23	12.75
2.10	40 H	6.366	84 H	13.369	1667	20.08	833	11.79	552	8.03	—	—	—	—	—	—	—
2.11	19 H	3.024	40 H	6.366	1663	11.24■	831	5.81■	551	3.88	—	5.89	7.44	8.98	10.50	12.02	13.53

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

H
½″ Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 45.00 90 teeth 450 H	PL: 48.00 96 teeth 480 H	PL: 51.00 102 teeth 510 H	PL: 54.00 108 teeth 540 H	PL: 57.00 114 teeth 570 H	PL: 60.00 120 teeth 600 H	PL: 63.00 126 teeth 630 H	PL: 66.00 132 teeth 660 H	PL: 70.00 140 teeth 700 H	PL: 75.00 150 teeth 750 H	PL: 80.00 160 teeth 800 H	PL: 85.00 170 teeth 850 H	PL: 90.00 180 teeth 900 H	PL: 100.00 200 teeth 1000 H	PL: 110.00 220 teeth 1100 H	PL: 125.00 250 teeth 1250 H	PL: 140.00 280 teeth 1400 H	PL: 170.00 340 teeth 1700 H	speed ratio □
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	**1.56**
13.45	14.95	16.46	17.96	19.47	20.97	22.47	23.98	25.98	28.48	30.99	33.49	35.99	40.99	45.99	53.50	61.00	76.00	**1.57**
16.36	17.86	19.37	20.87	22.37	23.87	25.37	26.87	28.87	31.37	33.88	36.38	38.88	43.88	48.88	56.38	63.88	78.88	**1.58**
12.68 15.98	14.19 17.48	15.69 18.99	17.20 20.49	18.70 21.99	20.21 23.49	21.71 24.99	23.22 26.49	25.22 28.50	27.72 31.00	30.23 33.50	32.13 36.00	35.23 38.50	40.24 43.50	45.24 48.50	52.74 56.00	60.25 63.52	75.25 78.51	**1.60**
— 15.22 17.24	— 16.72 18.74	10.77 18.23 20.25	12.30 19.73 21.75	13.83 21.23 23.18	15.35 22.73 24.75	16.86 24.24 26.25	18.37 25.78 27.75	20.39 27.74 29.75	22.99 30.24 32.25	25.42 32.74 34.75	27.92 35.24 37.25	30.43 37.75 39.76	35.44 42.75 44.76	40.45 47.75 49.76	47.96 55.25 57.25	55.47 62.75 64.76	70.48 77.76 79.77	**1.63**
10.33 14.45 16.48	11.85 15.96 17.96	13.37 17.46 19.49	14.88 18.97 20.99	16.40 20.47 22.49	17.91 21.97 23.99	19.42 23.48 25.49	20.92 24.98 26.99	22.93 26.98 29.00	25.44 29.48 31.50	27.94 31.99 34.00	30.45 34.49 36.50	32.95 36.99 39.00	37.96 41.99 44.00	42.97 47.00 49.00	50.48 54.50 56.51	57.98 62.00 64.01	72.99 77.01 79.01	**1.67**
16.10	17.60	19.11	20.61	22.11	23.61	25.12	26.62	28.62	31.12	33.62	36.12	38.62	43.63	48.63	56.13	63.63	78.63	**1.68**
13.68	15.19	16.70	18.20	19.71	21.21	22.72	24.22	26.22	28.73	31.23	33.73	36.23	41.24	46.24	53.74	61.25	76.25	**1.69**
12.91 15.34	14.42 16.84	15.93 18.35	17.44 19.85	18.94 21.35	20.45 22.86	21.95 24.36	23.46 25.86	25.46 27.86	27.97 30.36	30.47 32.87	32.97 35.37	35.48 37.87	40.48 42.87	45.48 47.87	52.99 55.57	60.49 62.88	75.49 77.88	**1.71**
— 16.98	— 18.49	— 19.99	— 21.49	11.65 22.99	13.19 24.49	14.73 26.00	16.25 27.49	18.28 29.50	20.81 32.00	23.33 34.50	25.85 37.00	28.34 39.50	33.39 44.50	38.40 49.50	45.92 57.01	53.43 64.50	68.45 79.51	**1.75**
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	**1.78**
— 15.46	9.67 16.96	11.22 18.47	12.75 19.97	14.28 21.47	25.81 22.98	17.32 24.48	18.84 25.98	20.85 28.47	23.37 30.49	25.88 32.99	28.40 35.49	30.90 37.99	35.92 42.99	40.93 48.00	48.44 55.50	55.95 63.00	70.97 78.00	**1.80**
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	**1.82**
13.92	15.43	16.93	18.44	19.95	21.45	22.96	24.46	26.46	28.97	31.47	33.97	36.48	41.48	46.48	53.99	61.49	76.50	**1.83**
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	**1.85**
10.78 16.72	12.31 18.23	13.83 19.73	15.35 21.23	16.86 22.73	18.37 24.24	19.88 25.74	21.39 27.24	23.40 29.24	25.91 31.74	28.42 34.24	30.93 36.75	33.44 39.25	38.45 44.25	43.45 49.25	50.96 56.15	58.47 64.14	73.48 79.25	**1.88**
15.58	17.08	18.59	20.09	21.59	23.10	24.60	26.10	28.10	30.61	33.11	35.61	38.11	43.12	48.12	55.87	63.12	78.13	**1.89**
14.81	16.31	17.82	19.33	20.83	22.33	23.84	25.34	27.34	29.85	32.35	34.85	37.36	42.36	47.36	54.74	62.37	77.37	**1.90**
—	—	—	10.52	12.08	13.63	15.17	16.70	18.74	21.27	23.79	26.32	28.83	33.86	38.88	46.40	53.92	68.94	**1.91**
— 8.52 11.00	— 10.10 12.53	— 11.65 14.06	— 13.19 15.58	— 14.73 17.09	— 16.25 18.61	12.94 17.78 20.35	14.50 19.29 21.63	16.56 21.32 23.64	19.12 23.82 26.15	21.67 26.35 28.66	24.21 28.87 31.17	26.74 31.38 33.68	31.78 36.40 38.69	36.81 41.41 43.70	44.35 48.93 51.21	51.87 56.44 58.71	66.90 71.45 73.73	**2.00**
13.37 14.15 14.92	14.89 15.66 16.43	16.40 17.17 17.94	17.91 18.68 19.45	19.42 20.18 20.95	20.92 21.69 22.45	22.43 23.19 23.96	23.93 24.70 25.46	25.94 26.70 27.47	28.45 29.21 29.97	30.95 31.71 32.47	33.46 34.22 34.97	35.96 36.72 37.48	40.97 41.73 42.48	45.97 46.73 47.48	53.48 54.22 54.99	60.98 61.74 62.49	75.99 76.74 77.50	
15.69 16.46	17.20 17.97	18.71 19.47	20.21 20.87	21.71 22.48	23.22 23.98	24.72 25.48	26.22 26.98	28.23 28.99	30.73 31.48	33.23 33.99	35.73 36.49	38.24 38.99	43.24 43.99	48.24 49.00	55.74 56.50	63.24 64.00	78.25 79.01	
14.27	15.78	17.29	18.80	20.30	21.81	23.31	24.82	26.82	29.33	31.83	34.34	36.84	41.85	46.85	54.36	61.86	76.87	**2.09**
—	—	—	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	**2.10**
15.04	16.55	18.06	19.56	21.07	22.57	24.08	25.58	27.59	30.09	32.59	35.10	37.60	42.60	47.61	55.11	62.61	77.62	**2.11**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8
width factor	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

H
½″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity						center distance, inches†						
	driveR		driveN		3500 rpm driveR speed		1750 rpm driveR speed		1160 rpm driveR speed		according to belt pitch length (PL), inches and corresponding code number (bold type)						
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	PL: 24.00 48 teeth **240 H**	PL: 27.00 54 teeth **270 H**	PL: 30.00 60 teeth **300 H**	PL: 33.00 66 teeth **330 H**	PL: 36.00 72 teeth **360 H**	PL: 39.00 78 teeth **390 H**	PL: 42.00 84 teeth **420 H**
2.14	28 H	4.456	60 H	9.549	1633	15.74	817	8.46	541	5.68	—	—	—	—	—	8.10	9.67
	14 H	2.228	30 H	4.775	1633	—	817	—	541	2.86■	6.38	7.90	9.42	10.94	12.44	13.95	15.46
2.18	44 H	7.003	96 H	15.279	1604	21.01	802	12.84	532	8.80	—	—	—	—	—	—	—
	22 H	3.501	48 H	7.639	1604	12.84	802	6.71	532	4.48	—	—	—	7.47	9.02	10.55	12.08
2.20	20 H	3.183	44 H	7.003	1590	11.77■	795	6.11	527	4.08	—	—	6.73	8.29	9.82	11.35	12.87
2.22	18 H	2.865	40 H	6.366	1575	10.71■	788	5.52■	522	3.68	—	6.00	7.55	9.09	10.61	12.13	13.65
2.25	32 H	5.093	72 H	11.459	1556	17.40	778	9.60	516	6.48	—	—	—	—	—	—	—
	16 H	2.546	36 H	5.730	1556	—	778	4.91■	516	3.27■	5.26	6.82	8.36	9.88	11.40	12.91	14.42
2.29	21 H	3.342	48 H	7.639	1531	12.31■	766	6.41	507	4.28	—	4.34	5.99	7.57	9.13	10.67	12.19
2.31	26H	4.138	60 H	9.549	1517	14.80	758	7.88	503	5.28	—	—	—	—	—	8.31	9.88
	19 H	3.024	44 H	7.003	1511	11.24■	756	5.81■	501	3.88	—	5.25	6.84	8.40	9.93	11.46	12.98
2.33	36 H	5.730	84 H	13.369	1500	18.89	750	10.71	497	7.26	—	—	—	—	—	—	—
2.40	40 H	6.366	96 H	15.279	1458	20.08	729	11.79	483	8.03	—	—	—	—	—	—	—
	30 H	4.775	72 H	11.459	1458	16.59	729	9.03	483	6.08	—	—	—	—	—	—	—
	20 H	3.183	48 H	7.639	1458	11.77■	729	6.11	483	4.08	—	—	6.09	7.68	9.24	10.78	12.31
2.44	18 H	2.865	44 H	7.003	1432	10.71■	716	5.52■	475	3.68	—	5.35	6.95	8.50	10.04	11.57	13.09
2.50	48 H	7.639	120 H	19.099	1400	21.63	700	13.84	464	9.55	—	—	—	—	—	—	—
	24 H	3.820	60 H	9.549	1400	13.82	700	7.30	464	4.89	—	—	—	—	—	8.52	10.10
	16 H	2.546	40 H	6.366	1400	—	700	4.91■	464	3.27■	—	6.21	7.77	9.31	10.84	12.36	13.88
2.53	19 H	3.024	48 H	7.639	1385	11.24	693	5.81■	459	3.88	—	—	6.20	7.79	9.35	10.89	12.42
2.57	28 H	4.456	72 H	11.459	1361	15.74	681	8.46	451	5.68	—	—	—	—	—	—	—
2.63	32 H	5.093	84 H	13.369	1333	17.40	667	9.60	442	6.48	—	—	—	—	—	—	—
2.67	36 H	5.730	96 H	15.279	1312	18.89	656	10.71	435	7.26	—	—	—	—	—	—	—
	18 H	2.865	48 H	7.639	1312	10.71■	656	5.52■	435	3.68	—	—	6.30	7.89	9.45	11.00	12.53
2.73	44 H	7.003	120 H	19.099	1283	21.01	642	12.84	425	8.80	—	—	—	—	—	—	—
	22 H	3.501	60 H	9.549	1283	12.84	642	6.71	425	4.48	—	—	—	—	7.10	8.73	10.31
2.75	16 H	2.546	44 H	7.003	1272	—	636	4.91■	422	3.27■	—	5.55⑤	7.16	8.72	10.26	11.80	13.32
2.77	26 H	4.138	72 H	11.459	1264	14.80	632	7.88	419	5.28	—	—	—	—	—	—	—
2.80	30 H	4.775	84 H	13.369	1250	16.59	625	9.03	414	6.08	—	—	—	—	—	—	—
2.86	21 H	3.342	60 H	9.549	1225	12.31■	613	6.41	406	4.28	—	—	—	—	7.20	8.83	10.42
3.00	40 H	6.366	120 H	19.099	1167	20.08	583	11.79	387	8.03	—	—	—	—	—	—	—
	32 H	5.093	96 H	15.279	1167	17.40	583	9.60	387	6.48	—	—	—	—	—	—	—
	28 H	4.456	84 H	13.369	1167	15.74	583	8.46	387	5.68	—	—	—	—	—	—	—
	24 H	3.820	72 H	11.459	1167	13.82	583	7.30	387	4.89	—	—	—	—	—	—	8.08
	20 H	3.183	60 H	9.549	1167	11.77■	583	6.11	387	4.08	—	—	—	—	7.30	8.93	10.52
	16 H	2.546	48 H	7.639	1167	—	583	4.91■	387	3.27■	—	—	6.50	8.10	9.67	11.22	12.75
3.16	19 H	3.024	60 H	9.549	1108	11.24■	554	5.81■	367	3.88	—	—	—	5.66	7.40	9.04	10.63
3.20	30 H	4.775	96 H	15.279	1094	16.59	547	9.03	363	6.08	—	—	—	—	—	—	—
3.23	26 H	4.138	84 H	13.369	1084	14.80	542	7.88	359	5.28	—	—	—	—	—	—	—

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

H
½″ Pitch

center distance, inches†

according to belt pitch length (PL), inches and corresponding code number (bold type)

PL: 45.00 90 teeth 450 H	PL: 48.00 96 teeth 480 H	PL: 51.00 102 teeth 510 H	PL: 54.00 108 teeth 540 H	PL: 57.00 114 teeth 570 H	PL: 60.00 120 teeth 600 H	PL: 63.00 126 teeth 630 H	PL: 66.00 132 teeth 660 H	PL: 70.00 140 teeth 700 H	PL: 75.00 150 teeth 750 H	PL: 80.00 160 teeth 800 H	PL: 85.00 170 teeth 850 H	PL: 90.00 180 teeth 900 H	PL: 100.00 200 teeth 1000 H	PL: 110.00 220 teeth 1100 H	PL: 125.00 250 teeth 1250 H	PL: 140.00 280 teeth 1400 H	PL: 170.00 340 teeth 1700 H	speed ratio □
11.21 16.96	12.75 18.47	14.28 19.97	15.80 21.47	17.32 22.98	18.84 24.48	20.35 25.98	21.86 27.48	23.87 29.48	26.39 31.99	28.90 34.49	31.41 36.99	33.91 39.49	38.93 44.49	43.94 49.50	51.45 57.01	58.95 64.50	73.97 79.50	**2.14**
— 13.60	— 15.12	6.68 16.63	8.47 18.14	10.15 19.65	11.77 21.16	13.36 22.67	14.93 24.17	17.00 26.18	19.57 28.69	22.12 31.19	24.66 33.70	27.19 36.20	32.13 41.21	37.28 46.22	44.82 53.72	52.35 61.23	67.38 76.24	**2.18**
14.38	15.89	17.40	18.91	20.42	21.93	23.43	24.94	26.94	29.45	31.95	34.46	36.96	41.97	46.97	54.48	61.98	76.99	**2.20**
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	**2.22**
8.93 15.93	10.52 17.44	12.08 18.94	13.63 20.45	15.17 21.95	16.70 23.46	18.23 24.96	19.75 26.46	21.78 28.47	24.30 30.97	26.82 33.47	29.34 35.98	31.85 38.48	36.87 43.48	41.89 48.49	49.41 55.99	56.92 63.49	71.94 78.50	**2.25**
13.71	15.23	16.75	18.26	19.77	21.28	22.78	24.29	26.30	28.81	31.31	33.82	36.32	41.33	46.34	53.84	61.35	76.36	**2.29**
11.44 14.50	12.97 16.01	14.51 17.18	16.03 19.03	17.55 20.54	19.07 22.05	20.58 23.55	22.09 25.06	24.11 27.06	26.62 29.57	29.13 32.08	31.64 34.58	34.15 37.08	39.17 42.09	44.18 47.09	51.69 54.60	59.20 62.10	74.21 77.11	**2.31**
—	—	9.75	11.36	12.94	14.50	16.05	17.59	19.64	22.18	24.71	27.24	29.76	34.80	39.83	47.36	54.88	69.91	**2.33**
— 9.14 13.83	— 10.76 15.35	— 12.30 16.86	— 13.85 18.37	— 15.39 19.89	12.18 16.93 21.39	13.78 18.45 22.90	15.35 19.98 24.41	17.43 22.01 26.42	20.01 24.53 28.92	22.57 27.05 31.43	25.11 29.57 33.94	27.65 32.09 36.44	32.71 37.11 41.45	37.75 42.13 46.46	45.29 49.65 53.97	52.82 57.16 61.47	67.87 72.19 76.48	**2.40**
14.61	16.13	17.64	19.15	20.66	22.16	23.67	25.18	27.18	29.69	32.20	34.70	37.20	42.21	47.22	54.72	62.23	77.24	**2.44**
— 11.65 15.39	— 13.20 16.90	— 14.73 18.41	— 16.25 19.92	— 17.77 21.43	— 19.30 22.93	— 20.81 24.44	— 22.33 25.94	— 24.34 27.95	15.43 26.86 30.45	18.09 29.37 32.96	20.71 31.88 35.46	23.30 34.39 37.97	28.43 39.41 42.97	33.52 44.42 47.97	41.11 51.93 55.48	48.67 59.44 62.98	63.75 74.46 77.99	**2.50**
13.94	15.46	16.98	18.49	20.00	21.51	23.02	24.53	26.54	29.04	31.55	34.06	36.56	41.57	46.58	54.09	61.59	76.60	**2.53**
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	**2.57**
—	—	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	**2.63**
— 14.06	— 15.58	— 17.09	— 18.61	10.95 20.35	12.59 21.63	14.20 23.14	15.78 24.64	17.89 26.65	20.45 29.16	23.01 31.67	25.56 34.18	28.10 36.68	33.17 41.69	38.21 46.70	45.76 54.21	53.30 61.71	68.34 76.73	**2.67**
— 11.87	— 13.42	— 14.95	— 16.48	— 18.00	— 19.52	— 21.04	— 22.56	— 24.58	15.84 27.09	18.51 29.61	21.13 32.12	23.73 34.63	28.87 39.65	33.97 44.66	41.57 52.17	49.09 59.69	64.23 74.70	**2.73**
14.84	16.36	17.87	19.38	20.89	22.40	23.91	25.41	27.42	29.93	32.44	34.94	37.45	42.45	47.46	54.97	62.47	77.48	**2.75**
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	**2.77**
—	—	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	**2.80**
11.98	13.52	15.06	16.59	18.12	19.64	21.16	22.67	24.69	27.21	29.72	32.24	34.75	39.77	44.78	52.30	59.93	74.82	**2.86**
— — —	— — —	— — 10.55	— —— 12.18	— 11.34 13.78	— 12.99 15.36	14.61 23.67 16.92	16.20 26.18 18.47	18.29 28.19 20.52	20.88 30.69 23.08	18.92 23.45 25.62	21.56 26.01 28.16	24.16 28.55 30.69	29.31 33.62 35.73	34.42 38.67 40.77	42.03 46.23 48.31	49.60 53.77 55.83	64.70 68.82 70.87	**3.00**
9.75 12.09 14.28	11.36 13.63 15.80	12.94 15.17 17.32	14.50 16.70 18.84	16.05 18.23 20.35	17.59 19.75 21.86	19.13 21.27 23.37	20.65 22.79 24.88	22.69 24.81 26.89	25.22 27.32 29.40	27.75 29.84 31.91	30.27 32.35 34.42	32.79 38.87 36.92	37.82 39.88 41.93	42.84 44.90 46.94	50.37 52.42 54.45	57.88 59.93 61.96	72.91 94.95 76.97	
12.19	13.74	15.28	16.82	18.34	19.87	21.39	22.90	24.92	27.44	29.96	32.47	34.98	40.00	45.02	52.54	60.05	75.07	**3.16**
—	—	—	—	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	**3.20**
—	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	**3.23**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8
width factor	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

H
½″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity						center distance, inches†						
	driveR		driveN		3500 rpm driveR speed		1750 rpm driveR speed		1160 rpm driveR speed		according to belt pitch length (PL), inches and corresponding code number (bold type)						
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	PL: 24.00 48 teeth 240 H	PL: 27.00 54 teeth 270 H	PL: 30.00 60 teeth 300 H	PL: 33.00 66 teeth 330 H	PL: 36.00 72 teeth 360 H	PL: 39.00 78 teeth 390 H	PL: 42.00 84 teeth 420 H
3.27	22 H	3.501	72 H	11.459	1069	12.84	535	6.71	354	4.48	—	—	—	—	—	—	8.28
3.33	36 H	5.730	120 H	19.099	1050	18.89	525	10.71	348	7.26	—	—	—	—	—	—	—
	18 H	2.865	60 H	9.549	1050	10.71■	525	5.52■	348	3.68	—	—	—	—	7.50	9.14	10.77
3.43	28 H	4.456	96 H	15.279	1021	15.74	510	8.46	338	5.68	—	—	—	—	—	—	—
	21 H	3.342	72 H	11.459	1021	12.31■	510	6.41	338	4.28	—	—	—	—	—	6.58	8.38
3.50	24 H	3.820	84 H	13.369	1000	13.82	500	7.30	331	4.89	—	—	—	—	—	—	—
3.60	20 H	3.183	72 H	11.459	972	11.77■	486	6.11	322	4.08	—	—	—	—	—	—	8.47
3.69	26 H	4.138	96 H	15.279	948	14.80	474	7.88	314	5.28	—	—	—	—	—	—	—
3.75	32 H	5.093	120 H	19.099	933	17.40	467	9.60	309	6.48	—	—	—	—	—	—	—
	16 H	2.546	60 H	9.549	933	—	467	4.91■	309	3.27■	—	—	—	—	7.69⑤	9.34⑤	10.94
3.79	19 H	3.024	72 H	11.459	924	11.24■	462	5.81■	306	3.88	—	—	—	—	—	—	8.57⑤
3.82	22 H	3.501	84 H	13.369	916	12.84	458	6.71	304	4.48	—	—	—	—	—	—	—
4.00	30 H	4.775	120 H	19.099	875	16.59	438	9.03	290	6.08	—	—	—	—	—	—	—
	24 H	3.820	96 H	15.279	875	13.82	438	7.30	290	4.89	—	—	—	—	—	—	—
	21 H	3.342	84 H	13.369	875	12.31■	438	6.41	290	4.28	—	—	—	—	—	—	—
	18 H	2.865	72 H	11.459	875	10.71■	438	5.52■	290	3.22	—	—	—	—	—	—	8.67
4.20	20 H	3.183	84 H	13.369	833	11.77■	417	6.11	276	4.08	—	—	—	—	—	—	—
4.29	28 H	4.456	120 H	19.099	817	15.74	408	8.46	271	5.68	—	—	—	—	—	—	—
4.36	22 H	3.501	96 H	15.279	802	12.84	401	6.71	266	4.48	—	—	—	—	—	—	—
4.42	19 H	3.024	84 H	13.369	792	11.24■	396	5.81■	262	3.88	—	—	—	—	—	—	—
4.50	16 H	2.546	72 H	11.459	778	—	389	4.91■	258	3.27■	—	—	—	—	—	—	8.86⑤
4.57	21 H	3.342	96 H	15.279	766	12.31■	383	6.41	254	4.28	—	—	—	—	—	—	—
4.62	26 H	4.138	120 H	19.099	758	14.80	379	7.88	251	5.28	—	—	—	—	—	—	—
4.67	18 H	2.865	84 H	13.369	749	10.71■	375	5.52■	248	3.68	—	—	—	—	—	—	—
4.80	20 H	3.183	96 H	15.279	729	11.77■	365	6.11	242	4.08	—	—	—	—	—	—	—
5.00	24 H	3.820	120 H	19.099	700	13.82	350	7.30	232	4.89	—	—	—	—	—	—	—
5.05	19 H	3.024	96 H	15.279	693	11.24■	346	5.81■	230	3.88	—	—	—	—	—	—	—
5.25	16 H	2.546	84 H	13.369	667	—	333	4.91■	.221	3.27■	—	—	—	—	—	—	—
5.33	18 H	2.865	96 H	15.279	656	10.71■	323	5.52■	217	3.68	—	—	—	—	—	—	—
5.45	22 H	3.501	120 H	19.099	642	12.84	321	6.71	213	4.48	—	—	—	—	—	—	—
5.72	21 H	3.342	120 H	19.099	613	12.31■	306	6.41	203	4.28	—	—	—	—	—	—	—
6.00	20 H	3.183	120 H	19.099	583	11.77■	292	6.11	193	4.08	—	—	—	—	—	—	—
	16 H	2.546	96 H	15.279	583	—	292	4.91■	193	3.27■	—	—	—	—	—	—	—
6.32	19 H	3.024	120 H	19.099	554	11.24■	277	5.81■	184	3.88	—	—	—	—	—	—	—
6.67	18 H	2.865	120 H	19.099	525	10.71■	262	5.52■	174	3.68	—	—	—	—	—	—	—
7.50	16 H	2.546	120 H	19.099	467	—	233	4.91■	155	3.27■	—	—	—	—	—	—	—

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

PULLEYS

Martin Stock Drive Selection

H
½″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)																		
PL: 45.00 90 teeth 450 H	PL: 48.00 96 teeth 480 H	PL: 51.00 102 teeth 510 H	PL: 54.00 108 teeth 540 H	PL: 57.00 114 teeth 570 H	PL: 60.00 120 teeth 600 H	PL: 63.00 126 teeth 630 H	PL: 66.00 132 teeth 660 H	PL: 70.00 140 teeth 700 H	PL: 75.00 150 teeth 750 H	PL: 80.00 160 teeth 800 H	PL: 85.00 170 teeth 850 H	PL: 90.00 180 teeth 900 H	PL: 100.00 200 teeth 1000 H	PL: 110.00 220 teeth 1100 H	PL: 125.00 250 teeth 1250 H	PL: 140.00 280 teeth 1400 H	PL: 170.00 340 teeth 1700 H	speed ratio □
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	**3.27**
— 12.30	— 13.85	— 15.39	— 16.93	— 18.46	— 19.98	9.55 21.50	11.50 23.02	13.86 25.04	16.64 27.56	19.34 30.07	21.98 32.59	24.59 35.10	29.75 40.12	34.87 45.14	42.48 52.66	50.06 60.17	65.17 75.19	**3.33**
— 10.05	— 11.67	— 13.26	— 14.82	11.73 16.38	13.40 17.92	15.02 19.46	16.62 20.99	18.72 23.03	21.32 25.56	23.89 28.09	26.45 30.62	29.00 33.14	34.08 38.17	39.13 43.19	46.70 50.72	54.24 58.25	69.30 73.27	**3.43**
....	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	**3.50**
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	**3.60**
—	—	—	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	**3.69**
— 12.51	— 14.07	— 15.61	— 17.15	— 18.68	— 20.21	— 21.73	— 23.26	14.25 25.27	17.05 27.79	19.75 30.31	22.40 32.82	25.02 35.34	30.19 40.36	35.31 45.38	42.94 52.90	50.52 60.41	65.64 75.43	**3.75**
10.25	11.87	13.47	15.04	16.59	18.14	19.68	21.21	23.25	25.79	28.32	30.85	33.37	38.40	43.43	50.96	58.48	73.52	**3.79**
—	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	**3.82**
— — — 10.35	— — 9.53 11.98	— — 11.24 13.57	— 10.38 12.89 15.14	— 12.12 14.51 16.70	— 13.80 15.99 18.25	— 15.43 17.67 19.79	— 17.03 19.22 21.32	14.44 19.14 21.29 23.36	17.25 21.75 23.85 25.90	19.96 24.33 26.41 28.44	22.61 27.00 28.95 30.96	25.23 29.45 31.49 33.48	30.41 34.53 36.54 38.52	35.53 39.59 41.58 43.55	43.16 47.16 49.13 51.08	50.75 54.71 56.66 58.60	65.87 69.78 71.71 73.64	**4.00**
—	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	**4.20**
—	—	—	—	—	—	—	—	14.63	17.45	20.16	22.82	25.45	30.63	35.76	43.39	50.98	66.11	**4.29**
—	—	—	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	**4.36**
—	9.72	11.44	13.10	14.71	16.30	17.88	19.44	21.51	24.08	26.63	29.17	31.71	36.77	41.81	49.37	56.90	71.95	**4.42**
10.55⑤	12.18⑤	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	**4.50**
—	—	—	10.66	12.42	14.10	15.74	17.34	19.46	22.07	24.66	27.23	29.78	34.87	39.94	47.51	55.06	70.13	**4.57**
—	—	—	—	—	—	—	12.43	14.82	17.65	20.37	23.03	25.66	30.85	35.98	43.62	51.21	66.34	**4.62**
—	9.81⑤	11.54	13.20	14.82	16.41	17.99	19.55	21.62	24.19	26.74	29.29	31.83	36.89	41.93	49.48	57.02	72.07	**4.67**
—	—	—	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	**4.80**
—	—	—	—	—	—	—	—	15.02	17.84	20.57	23.24	25.87	31.06	36.20	43.84	51.44	66.57	**5.00**
—	—	—	10.85	12.61	14.30	15.94	17.55	19.67	22.29	24.87	27.45	30.01	35.10	40.17	47.74	55.30	70.37	**5.05**
—	10.00⑤	11.73⑤	13.40	15.02	16.62	18.20	19.76	21.84	24.39	26.96	29.51	32.05	37.12	42.16	49.72	57.25	72.31	**5.25**
—	—	—	10.94⑤	12.71⑤	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	**5.33**
—	—	—	—	—	—	—	12.79	15.21	18.04	20.78	23.45	26.08	31.28	36.42	44.07	51.67	66.81	**5.45**
—	—	—	—	—	—	—	12.89	15.30	18.14	20.88	23.55	26.19	31.39	36.53	44.18	51.78	66.92	**5.72**
— —	— —	— 9.20③	— 11.13④	— 12.90⑤	— 14.59⑤	— 16.24⑤	12.98⑤ 17.86	15.40 19.99	18.24 22.61	20.98 25.20	23.66 27.78	26.29 30.34	31.50 35.44	36.64 40.51	44.29 48.09	51.90 55.65	67.04 70.73	**6.00**
—	—	—	—	—	—	—	13.07⑤	15.49	18.34	21.08	23.76	26.40	31.61	36.75	44.41	52.01	67.16	**6.32**
—	—	—	—	—	—	—	13.16⑤	15.59⑤	18.44	21.18	23.86	26.51	31.71	36.86	44.52	52.13	67.27	**6.67**
—	—	—	—	—	—	—	13.34④	15.78⑤	18.64⑤	21.38⑤	24.07	26.72	31.93	37.08	44.74	52.35	67.50	**7.50**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8
width factor	.42	.57	.71	.86	1.0	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XH
7/8″ Pitch

Stock Drive Selection

Martin

speed ratio □	pulley combination				driveN speed and hp capacity					
	driveR		driveN		1750 rpm driveR speed		1160 rpm driveR speed		870 rpm driveR speed	
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt
1.00	40 XH	11.141	40 XH	11.141	1750	22.22	1160	17.44	870	13.79
	32 XH	8.913	32 XH	8.913	1750	19.87	1160	14.57	870	11.29
	30 XH	8.356	30 XH	8.356	1750	19.06	1160	13.79	870	10.63
	28 XH	7.799	28 XH	7.799	1750	18.16	1160	12.97	870	9.97
	26 XH	7.241	26 XH	7.241	1750	17.17	1160	12.13	870	9.29
	24 XH	6.685	24 XH	6.685	1750	16.14■	1160	11.29	870	8.61
	22 XH	6.127	22 XH	6.127	1750	15.03■	1160	10.41■	870	7.92
	20 XH	5.570	20 XH	5.570	1750	13.85■	1160	9.51■	870	7.23■
	18 XH	5.013	18 XH	5.013	1750	—	1160	8.61■	870	6.52■
1.07	30 XH	8.356	32 XH	8.913	1641	19.06	1088	13.79	816	10.63
	28 XH	7.799	30 XH	8.356	1633	18.16	1083	12.97	812	9.97
1.08	26 XH	7.241	28 XH	7.799	1625	17.17	1077	12.13	808	9.29
	24 XH	6.685	26 XH	7.241	1615	16.14■	1071	11.29	803	8.61
1.09	22 XH	6.127	24 XH	6.685	1604	15.03■	1063	10.41■	798	7.92
1.10	20 XH	5.570	22 XH	6.127	1591	13.85■	1055	9.51■	791	7.23■
1.11	18 XH	5.013	20 XH	5.570	1575	—	1044	8.61■	783	6.52■
1.14	28 XH	7.799	32 XH	8.913	1531	18.16	1015	12.97	761	9.97
1.15	26 XH	7.241	30 XH	8.356	1517	17.17	1005	12.13	754	9.29
1.17	24 XH	6.685	28 XH	7.799	1500	16.14■	994	11.29	746	8.61
1.18	22 XH	6.127	26 XH	7.241	1481	15.03■	982	10.41■	736	7.92
1.20	40 XH	11.141	48 XH	13.369	1458	22.22	967	17.44	725	13.79
	20 XH	5.570	24 XH	6.685	1548	13.85■	967	9.51■	725	7.23■
1.22	18 XH	5.013	22 XH	6.127	1432	—	949	8.61■	712	6.52■
1.23	26 XH	7.241	32 XH	8.913	1422	17.17	943	12.13	707	9.29
1.25	32 XH	8.913	40 XH	11.141	1400	19.87	928	14.57	696	11.29
	24 XH	6.685	30 XH	8.356	1400	16.14■	928	11.29	696	8.61
1.27	22 XH	6.127	28 XH	7.799	1375	15.03■	911	10.41■	684	7.92
1.30	20 XH	5.570	26 XH	7.241	1346	13.85■	892	9.51■	669	7.23■
1.33	30 XH	8.356	40 XH	11.141	1313	19.06	870	13.79	653	10.63
	24 XH	6.685	32 XH	8.913	1313	16.14■	870	11.29	653	8.61
	18 XH	5.013	24 XH	6.685	1313	—	870	8.61■	653	6.52■
1.36	22 XH	6.127	30 XH	8.356	1283	15.03■	851	10.41■	638	7.92
1.40	20 XH	5.570	28 XH	7.799	1250	13.85■	829	9.51■	621	7.23■
1.43	28 XH	7.799	40 XH	11.141	1225	18.16	812	12.97	609	9.97
1.44	18 XH	5.013	26 XH	7.241	1212	—	803	8.61■	602	6.52■
1.45	22 XH	6.127	32 XH	8.913	1203	15.03■	798	10.41■	598	7.92

□ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

XH
7/8" Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)												
PL: 50.75 58 teeth **507 XH**	PL: 56.00 64 teeth **560 XH**	PL: 63.00 72 teeth **630 XH**	PL: 70.00 80 teeth **700 XH**	PL: 77.00 88 teeth **770 XH**	PL: 84.00 96 teeth **840 XH**	PL: 98.00 112 teeth **980 XH**	PL: 112.00 128 teeth **1120 XH**	PL: 126.00 144 teeth **1260 XH**	PL: 140.00 160 teeth **1400 XH**	PL: 154.00 176 teeth **1540 XH**	PL: 175.00 200 teeth **1750 XH**	speed ratio □
— 11.375 12.250	— 14.000 14.875	14.000 17.500 18.375	17.500 21.000 21.875	21.000 24.500 25.375	24.500 28.000 28.875	31.500 35.000 35.875	38.500 42.000 42.875	45.500 49.000 49.875	52.500 56.000 56.875	59.500 63.000 63.875	70.000 73.500 74.375	**1.00**
13.125 14.000 14.875 15.750 16.625	15.750 16.625 17.500 18.375 19.250	19.250 20.125 21.000 21.875 22.750	22.750 23.625 24.500 25.375 26.250	26.250 27.125 28.000 28.875 29.750	29.750 30.625 31.500 32.375 33.250	36.750 37.625 38.500 39.375 40.250	43.750 44.625 45.500 46.375 47.250	50.750 51.625 52.500 53.375 54.250	57.750 58.625 59.500 60.375 61.250	64.750 65.625 66.500 67.375 68.250	75.250 76.125 77.000 77.875 78.750	
17.500	20.125	23.625	27.125	30.625	34.125	41.125	48.125	55.125	62.125	69.125	79.625	
11.809 12.685	14.435 15.310	17.936 18.811	21.436 22.311	24.936 25.811	28.436 29.312	35.437 36.312	42.437 43.312	49.437 50.312	56.437 57.312	63.437 64.312	73.937 74.812	**1.07**
13.560 14.435	16.185 17.060	19.686 20.561	23.186 24.061	26.686 27.561	30.187 31.062	37.187 38.062	44.187 45.062	51.187 52.062	58.187 59.062	65.187 66.062	75.687 76.562	**1.08**
15.310	17.936	21.436	24.936	28.436	31.937	38.937	45.937	52.937	59.937	66.937	77.437	**1.09**
16.185	18.811	22.311	25.811	29.312	32.812	39.812	46.812	53.812	60.812	67.812	78.312	**1.10**
17.060	19.686	23.186	26.686	30.187	33.687	40.687	47.687	54.687	61.686	68.687	79.187	**1.11**
12.238	14.865	18.366	21.868	25.369	28.870	35.871	42.872	49.872	58.872	63.872	74.373	**1.14**
13.114	15.740	19.242	22.743	26.244	29.745	36.746	43.747	50.747	57.747	64.747	75.248	**1.15**
13.989	16.615	20.117	23.619	27.120	30.620	37.621	44.622	51.622	58.622	65.622	76.123	**1.17**
14.865	17.491	20.993	24.494	27.995	31.495	38.496	45.497	52.497	59.497	66.497	76.998	**1.18**
— 15.740	— 18.366	— 21.868	15.711 25.369	19.218 28.870	22.723 32.371	29.729 39.372	36.733 46.372	43.736 53.372	50.738 60.372	57.740 67.372	68.241 77.873	**1.20**
16.615	19.242	22.743	26.244	29.745	33.246	40.247	47.247	54.247	61.247	68.247	78.748	**1.22**
12.660	15.290	18.794	22.297	25.799	29.300	36.303	43.305	50.306	57.306	64.307	74.808	**1.23**
— 13.537	12.199 16.166	15.711 19.670	19.218 23.173	22.723 26.674	26.226 30.176	33.322 37.178	40.234 44.180	47.237 51.181	54.239 58.181	61.240 65.182	71.741 75.683	**1.25**
14.413	17.042	20.546	24.048	27.550	31.051	38.051	45.055	52.056	59.056	66.057	76.558	**1.27**
15.290	17.918	21.421	24.924	28.425	31.927	38.929	45.930	52.931	59.931	66.932	77.433	**1.30**
— 13.078 16.166	12.611 15.711 18.794	16.127 19.218 22.297	19.639 22.723 25.799	23.146 26.226 29.300	26.651 29.729 32.802	33.659 36.733 39.804	40.664 43.736 46.806	47.667 50.738 53.806	54.670 57.740 60.806	61.672 64.740 67.807	72.174 75.242 78.308	**1.33**
13.955	16.587	20.094	23.599	27.102	30.605	37.608	44.611	51.613	58.615	65.615	76.117	**1.36**
14.833	17.464	20.970	24.475	27.978	31.481	38.484	45.486	52.489	59.490	66.490	76.992	**1.40**
10.365	13.017	16.540	20.055	23.566	27.073	34.084	41.091	48.096	55.100	62.102	72.606	**1.43**
15.711	18.341	21.847	25.351	28.853	32.356	39.359	46.362	53.364	60.365	67.366	77.867	**1.44**
13.491	16.127	19.639	23.146	26.651	30.155	37.161	44.166	51.168	58.171	65.173	75.674	**1.45**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13	14
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

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XH
7/8″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity					
	driveR		driveN		1750 rpm driveR speed		1160 rpm driveR speed		870 rpm driveR speed	
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt
1.50	40 XH 32 XH 20 XH	11.141 8.913 5.570	60 XH 48 XH 30 XH	16.711 13.369 8.356	1167 1167 1167	22.22 19.87 13.85■	773 773 773	17.44 14.57 9.51■	580 580 580	13.79 11.29 7.23■
1.54	26 XH	7.241	40 XH	11.141	1138	17.17	754	12.13	566	9.29
1.56	18 XH	5.013	28 XH	7.799	1125	—	746	8.61■	559	6.52■
1.60	30 XH 20 XH	8.356 5.570	48 XH 32 XH	13.369 8.913	1094 1094	19.06 13.85■	725 725	13.79 9.51■	544 544	10.63 7.23■
1.67	24 XH 18 XH	6.685 5.013	40 XH 30 XH	11.141 8.356	1050 1050	16.14■ —	696 696	11.29 8.61■	522 522	8.61 6.52■
1.71	28 XH	7.799	48 XH	13.369	1021	18.16	677	12.97	508	9.97
1.78	18 XH	5.013	32 XH	8.913	984	—	653	8.61■	489	6.52■
1.80	40 XH	11.141	72 XH	20.054	972	22.22	644	17.44	483	13.78
1.82	22 XH	6.127	40 XH	11.141	963	15.03■	638	10.41■	479	7.92
1.85	26 XH	7.241	48 XH	13.369	948	17.17	628	12.13	471	9.29
1.88	32 XH	8.913	60 XH	16.711	933	19.87	618	14.57	464	11.29
2.00	30 XH 24 XH 20 XH	8.356 6.685 5.570	60 XH 48 XH 40 XH	16.711 13.369 11.141	875 875 875	19.06 16.14■ 13.85■	580 580 580	13.79 11.29 9.51■	435 435 435	10.63 8.61 7.23■
2.10	40 XH	11.141	84 XH	23.396	833	22.22	552	17.44	414	13.79
2.14	28 XH	7.799	60 XH	16.711	817	18.16	541	12.97	407	9.97
2.18	22 XH	6.127	48 XH	13.369	802	15.03■	531	10.41■	399	7.92
2.22	18 XH	5.013	40 XH	11.141	788	—	523	8.61■	392	6.52■
2.25	32 XH	8.913	72 XH	20.054	778	19.87	516	14.57	387	11.29
2.31	26 XH	7.241	60 XH	16.711	758	17.17	502	12.13	377	9.29
2.40	40 XH 30 XH 20 XH	11.141 8.356 5.570	96 XH 72 XH 48 XH	26.738 20.054 13.369	729 729 729	22.22 19.06 13.85■	483 483 483	17.44 13.79 9.51■	363 363 363	13.79 10.63 7.23■
2.50	24 XH	6.685	60 XH	16.711	700	16.14■	464	11.29	348	8.61
2.57	28 XH	7.799	72 XH	20.054	681	18.16	451	12.97	339	9.97
2.63	32 XH	8.913	84 XH	23.396	667	19.87	442	14.57	331	11.29
2.67	18 XH	5.013	48 XH	13.369	656	—	434	8.61■	326	6.52■

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

XH
7/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)												
PL: 50.75 58 teeth 507 XH	PL: 56.00 64 teeth 560 XH	PL: 63.00 72 teeth 630 XH	PL: 70.00 80 teeth 700 XH	PL: 77.00 88 teeth 770 XH	PL: 84.00 96 teeth 840 XH	PL: 98.00 112 teeth 980 XH	PL: 112.00 128 teeth 1120 XH	PL: 126.00 144 teeth 1260 XH	PL: 140.00 160 teeth 1400 XH	PL: 154.00 176 teeth 1540 XH	PL: 175.00 200 teeth 1750 XH	speed ratio □
— — 14.370	— — 17.006	— 13.820 20.515	— 17.357 24.022	16.388 20.881 27.528	19.930 24.399 31.031	26.982 31.421 38.037	34.011 38.435 45.041	41.031 45.446 52.044	48.045 52.453 59.046	55.055 59.458 66.048	65.566 69.964 76.550	**1.50**
10.761	13.421	16.951	20.470	23.983	27.493	34.507	41.517	48.523	55.528	62.532	73.036	**1.54**
15.249	17.883	21.392	24.899	28.403	31.907	38.913	45.917	52.919	59.922	66.923	77.425	**1.56**
— 13.898	— 16.540	14.216 20.055	17.761 23.566	21.290 27.073	24.811 30.580	31.839 37.588	38.857 44.594	45.869 51.598	52.878 58.601	59.885 65.604	70.393 76.107	**1.60**
11.152 14.781	13.820 17.420	17.357 20.934	20.881 24.443	24.399 27.950	27.911 31.455	34.929 38.455	41.941 38.464	48.949 52.474	55.955 59.476	62.961 66.479	73.466 76.982	**1.67**
—	11.022	14.609	18.161	21.696	25.221	32.255	39.276	46.291	53.302	60.311	70.820	**1.71**
14.305	16.951	20.470	23.983	27.493	31.001	38.013	45.021	52.026	59.030	66.034	76.538	**1.78**
—	—	—	—	—	16.909	24.087	31.181	38.240	45.280	52.310	62.842	**1.80**
11.540	14.216	17.761	21.290	24.811	28.326	35.348	42.363	49.374	56.382	63.388	73.895	**1.82**
—	11.399	14.998	18.559	22.100	25.630	32.669	39.694	46.712	53.725	60.736	71.247	**1.85**
—	—	—	14.341	17.950	21.521	28.609	35.662	42.697	49.722	56.741	67.262	**1.88**
— — 11.924	— 11.772 14.609	— 15.386 18.161	14.716 18.954 21.696	18.335 22.502 25.221	21.914 26.036 28.740	29.102 33.081 35.767	36.070 40.111 42.784	43.110 47.132 49.797	50.138 54.147 56.807	57.159 61.159 63.815	67.684 71.672 74.323	**2.00**
—	—	—	—	—	—	20.974	28.207	35.342	42.432	49.495	60.063	**2.10**
—	—	—	15.087	18.717	22.304	29.411	36.478	43.522	50.553	57.578	68.104	**2.14**
—	12.143	15.770	19.348	22.901	26.439	33.492	40.526	47.549	54.568	61.581	72.097	**2.18**
12.304	14.998	18.559	22.100	25.630	29.152	36.183	43.204	50.219	57.230	64.240	74.750	**2.22**
—	—	—	—	—	18.400	25.643	32.776	39.860	46.919	53.962	64.509	**2.25**
—	—	—	15.457	19.098	22.691	29.810	36.883	43.932	50.968	57.994	68.524	**2.31**
— — —	— — 12.513	— — 16.152	— — 19.738	— 15.035 23.298	— 18.769 26.842	— 26.028 33.900	25.025 33.170 40.940	32.304 40.262 47.967	39.477 47.325 54.987	46.596 54.373 62.003	57.218 64.924 72.520	**2.40**
—	—	—	15.824	19.476	23.078	30.209	37.287	44.342	51.380	58.410	68.943	**2.50**
—	—	—	—	15.388	19.135	26.411	33.564	40.662	47.731	54.782	65.337	**2.57**
—	—	—	—	—	—	22.446	29.739	36.913	44.028	51.111	61.700	**2.63**
10.056	12.879	16.531	20.128	23.693	27.241	34.308	41.352	48.382	55.405	62.423	72.943	**2.67**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

belt width	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13	14
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

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

XH
7/8″ Pitch

Stock Drive Selection

Martin

speed ratio ☐	pulley combination				driveN speed and hp capacity					
	driveR		driveN		1750 rpm driveR speed		1160 rpm driveR speed		870 rpm driveR speed	
	code: no. of grooves	pitch diameter in.	code: no. of grooves	pitch diameter in.	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt	driveN speed rpm	hp for 1 inch belt
2.73	22 XH	6.127	60 XH	16.711	642	15.03■	425	10.41■	319	7.92
2.77	26 XH	7.241	72 XH	20.054	632	17.17	419	12.13	314	9.29
2.80	30 XH	8.356	84 XH	23.396	625	19.06	414	13.79	311	10.63
3.00	40 XH 32 XH	11.141 8.913	120 XH 96 XH	33.423 26.738	583 583	22.22 19.87	387 387	17.44 14.57	290 290	13.79 11.29
	28 XH 24 XH 20 XH	7.799 6.685 5.570	84 XH 72 XH 60 XH	23.396 20.054 16.711	583 583 583	18.16 16.14■ 13.85■	387 387 387	12.97 11.29 9.51■	290 290 290	9.97 8.61 7.23■
3.20	30 XH	8.356	96 XH	26.738	547	19.06	363	13.79	272	10.63
3.23	26 XH	7.241	84 XH	23.396	542	17.17	359	12.13	269	9.29
3.27	22 XH	6.127	72 XH	20.054	535	15.03■	355	10.41■	266	7.92
3.33	18 XH	5.013	60 XH	16.711	525	—	348	8.61■	261	6.52■
3.43	28 XH	7.799	96 XH	26.738	510	18.16	338	12.97	254	9.97
3.50	24 XH	6.685	84 XH	23.396	500	16.14■	331	11.29	249	8.61
3.60	20 XH	5.570	72 XH	20.054	486	13.85■	322	9.51■	242	7.23■
3.69	26 XH	7.241	96 XH	26.738	474	17.17	314	12.13	236	9.29
3.75	32 XH	8.913	120 XH	33.423	467	19.87	309	14.57	232	11.29
3.82	22 XH	6.127	84 XH	23.396	458	15.03■	304	10.41■	228	7.92
4.00	30 XH 24 XH 18 XH	8.356 6.685 5.013	120 XH 96 XH 72 XH	33.423 26.738 20.054	438 438 438	19.06 16.14 —	290 290 290	13.79 11.29 8.61■	218 218 218	10.63 8.61 6.52■
4.20	20 XH	5.570	84 XH	23.396	416	13.85■	276	9.51■	207	7.23■
4.29	28 XH	7.799	120 XH	33.423	408	18.16	270	12.97	203	9.97
4.36	22 XH	6.127	96 XH	26.738	401	15.03■	266	10.41■	200	7.92
4.62	26 XH	7.241	120 XH	33.423	379	17.17	251	12.13	188	9.29
4.67	18 XH	5.013	84 XH	23.396	375	—	249	8.61■	186	6.52■
4.80	20 XH	5.570	96 XH	26.738	365	13.85■	242	9.51■	181	7.23■
5.00	24 XH	6.685	120 XH	33.423	350	16.14■	232	11.29	173	8.61
5.33	18 XH	5.013	96 XH	26.738	328	—	217	8.61■	162	6.52■
5.45	22 XH	6.127	120 XH	33.423	321	15.03■	212	10.41■	159	7.92
6.00	20 XH	5.570	120 XH	33.423	292	13.85■	193	9.51■	145	7.23■
6.67	18 XH	5.013	120 XH	33.423	262	—	174	8.61■	130	6.52■

☐ Pulley combinations shown are for conventional speed-reduction ratios; same table can be used for speed step-up ratios by making proper correction of driveN speed and belt hp capacity per inch width.

■ Pulley diameter is below recommended minimum; if used reduced belt life must be expected.

† Center distances shown are **theoretical;** manufacturing tolerances of belt length and pulley diameters can affect actual operating drive center distances.

Martin Stock Drive Selection

XH 7/8″ Pitch

center distance, inches† according to belt pitch length (PL), inches and corresponding code number (bold type)												
PL: 50.75 58 teeth 507 XH	PL: 56.00 64 teeth 560 XH	PL: 63.00 72 teeth 630 XH	PL: 70.00 80 teeth 700 XH	PL: 77.00 88 teeth 770 XH	PL: 84.00 96 teeth 840 XH	PL: 98.00 112 teeth 980 XH	PL: 112.00 128 teeth 1120 XH	PL: 126.00 144 teeth 1260 XH	PL: 140.00 160 teeth 1400 XH	PL: 154.00 176 teeth 1540 XH	PL: 175.00 200 teeth 1750 XH	speed ratio □
—	—	12.417	16.190	19.853	23.463	30.604	37.691	44.749	51.792	58.825	69.360	**2.73**
—	—	—	—	15.740	19.500	26.793	33.956	41.062	48.136	55.191	65.750	**2.77**
—	—	—	—	—	—	22.811	30.118	37.302	44.425	51.513	62.107	**2.80**
— —	— —	— —	— —	— —	— —	— 18.851	— 26.485	25.528 33.819	33.107 41.028	40.457 48.173	51.286 58.824	**3.00**
— — —	— — —	— — 12.764	— — 16.553	— 16.090 20.228	— 19.864 23.846	23.175 27.174 30.998	30.497 34.347 38.092	37.691 41.460 45.156	44.820 48.539 52.203	51.913 55.598 59.238	62.513 66.162 69.778	
—	—	—	—	—	—	19.191	26.849	34.195	41.414	48.565	59.223	**3.20**
—	—	—	—	—	15.828	23.538	30.875	38.077	45.214	52.313	62.919	**3.23**
—	—	—	—	16.440	20.227	27.553	34.738	41.857	48.941	56.004	66.574	**3.27**
—	—	13.110⑥	16.916	20.602	24.228	31.391	38.492	45.561	52.612	59.651	70.193	**3.33**
—	—	—	—	—	—	19.531	27.210	34.570	41.798	48.956	59.622	**3.43**
—	—	—	—	—	16.163	23.899	31.252	38.464	45.608	52.712	63.323	**3.50**
—	—	—	—	16.788⑥	20.588	27.931	35.126	42.253	49.343	56.410	66.983	**3.60**
—	—	—	—	—	—	19.870	27.570	34.944	42.181	49.347	60.019	**3.69**
—	—	—	—	—	—	—	—	26.908	34.553	41.947	52.822	**3.75**
—	—	—	—	—	16.496	24.259	31.627	38.849	46.000	53.109	63.727	**3.82**
— — —	— — —	— — —	— — 13.086⑤	— — 17.134⑥	— — 20.948⑥	— 20.207 28.308	— 27.930 35.514	27.251 35.317 42.648	34.913 42.564 49.743	42.318 49.736 56.814	53.204 60.416 67.393	**4.00**
—	—	—	—	—	16.830⑥	24.618	32.001	39.233	46.392	53.506	64.130	**4.20**
—	—	—	—	—	—	—	—	27.593	35.271	42.688	53.586	**4.29**
—	—	—	—	—	—	20.544	28.289	35.690	42.945	50.124	60.813	**4.36**
—	—	—	—	—	—	—	—	27.935	35.630	43.057	53.967	**4.62**
—	—	—	—	—	17.161⑤	24.977⑥	32.374	39.617	46.782	53.902	64.532	**4.67**
—	—	—	—	—	—	20.880⑥	28.647	36.061	43.326	50.512	61.208	**4.80**
—	—	—	—	—	—	—	—	28.277	35.987	43.425	54.347	**5.00**
—	—	—	—	—	—	21.215⑤	29.004⑥	36.431	43.705	50.899	61.603	**5.33**
—	—	—	—	—	—	—	—	28.617	36.344	43.793	54.727	**5.45**
—	—	—	—	—	—	—	20.406⑤	28.956⑥	36.699	44.160	55.106	**6.00**
—	—	—	—	—	—	—	20.717⑤	29.296⑥	37.055⑥	44.527	55.484	**6.67**

Teeth in Mesh	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2	.20

NOTE: Multiply the H.P. ratings shown in the Drive Section Tables by Factor "F" and the width correction factors shown below:

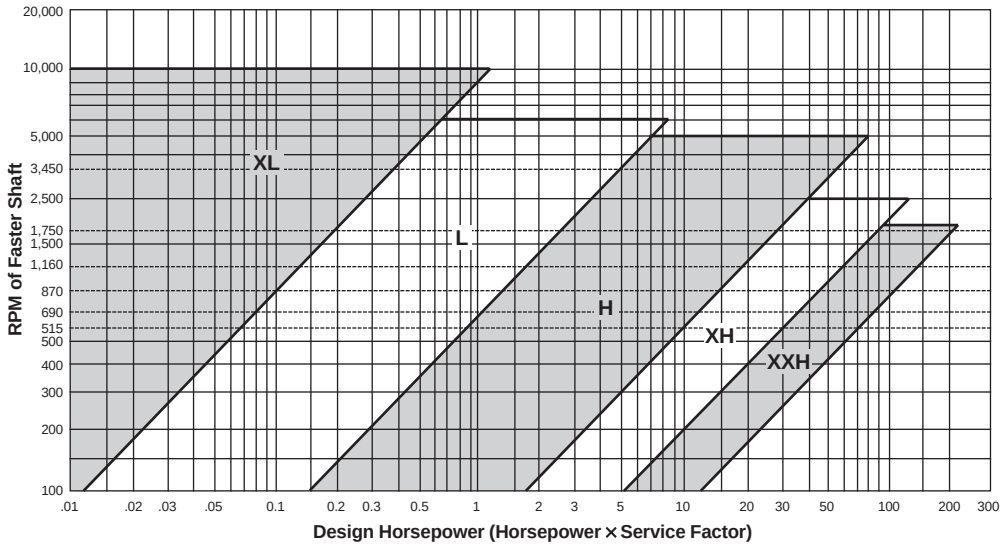
belt width	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13	14
width factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62

If the number of teeth in mesh (TIM) is 5 or less, the exact TIM is indicated by the number in a circle following the center distance.

PULLEYS

Timing Pulley Other Speeds/ Speed-Up Drives

TABLE 3. Cross Section Selection Chart



Other Speeds or Speed-Up Drive Selection

A. The service factor and belt pitch are selected the same as outlined in Steps 1 and 2. Be sure to include the additional factor from Table 3 in your service factor for speed-up drives.

B. Turn to the Drive Selection Tables for the belt pitch selected.

C. Divide the rpm of the faster machine by the rpm of the slower machine. This gives the speed ratio. (If you are replacing a chain or gear drive, divide the number of teeth in the larger sprocket or gear by the number of teeth in the smaller sprocket or gear. If you are replacing a flat belt or conventional V-belt drive, divide the diameter of the larger pulley or sheave by the diameter of the smaller pulley or sheave.)

D. Read the Speed Ratio column of the Table for the belt pitch selected to find the stock speed ratio nearest the ratio you require. Read across to the right to find the pulley combination, center distance, belt number, and Teeth in Mesh (TIM) factor. If you cannot find a speed ratio sufficiently close, use Non-Stock Drive Design.

E. Turn to basic horsepower rating table for the belt pitch selected. Read down the left-hand column to find the rpm of your **faster** shaft and then across to the right. The horsepower rating per inch of belt width will be found under the column headed by the pulley size you have selected.

F. If the number of teeth in mesh is five or less, you will have a TIM factor found in Step D. Multiply the basic horsepower per inch of belt width found in Step E by the TIM factor (where applicable) and this will give you the corrected horsepower per inch of belt width.

G. Divide the design horsepower found in Step A by the corrected horsepower to find the NOMINAL BELT WIDTH. This will give you your final belt and pulley width. If the answer contains a fraction, use the next largest stock width.

Nonstock Drive Design

Most drives can be selected by using the Stock Drive Selection Procedures with the pre-figured drive tables. However, if your drive requires the use of one or more non-stock pulleys due to unusual application or special specifications the following steps can be used to select the correct timing pulleys for your application.

THE FOLLOWING INFORMATION WILL BE REQUIRED TO SELECT THE DRIVE:

1. HORSEPOWER AND TYPE OF DRIVER.
2. THE RPM OF THE DRIVER.
3. THE RPM OF THE DRIVEN MACHINE.
4. SHAFT DIAMETERS AND KEYSEAT DIMENSIONS.
5. THE EXACT OR APPROXIMATE CENTER DISTANCE REQUIRED.
6. OPERATING CONDITIONS OF THE DRIVE.

AN EXAMPLE OF A NON-STOCK TIMING PULLEY DRIVE:

1. THE DRIVER IS A 40 HP, NEMA DESIGN “B” MOTOR.
2. THE SPEED OF THE DRIVER MOTOR IS 1800 RPM (1750 RPM FULL LOAD SPEED).
3. A HAMMERMILL IS TO BE DRIVEN AT 1250 RPM.
4. THE MOTOR SHAFT IS 1⅞″; AGITATOR SHAFT IS 1$^{15}/_{16}$″. BOTH HAVE STANDARD KEYSEATS.
5. THE DRIVE WILL REQUIRE A CENTER DISTANCE OF APPROXIMATELY 24″.
6. THE DRIVE IS OPERATED 8 HOURS PER DAY.

SELECTION PROCEDURE

Step 1 — Find the Design Horsepower

A. Refer to Table 1, from “Stock Drive Selection” for the class driver and to Table 2 for the type driven machine. The class in the Service Factors Table will correspond to the class determined in the Driver Classification Table. Check for any additional Service Factor required for unusual conditions — such as continuous operation and/or use of an idler.

Example: Table 1 places the driver in Class II, and Table 2 shows a hammermill in Class II to have a Service Factor of 1.9.

B. The design horsepower is found by multiplying the full load horsepower by the Service Factor. This is the horsepower for which you are going to select the drive.

Example: Design horsepower = 40 × 1.9 or 76 hp.

Step 2 — Choose the Belt Pitch

Locate the rpm of the faster shaft on the vertical line of Table 4. Follow this line up to the point where the design horsepower selected in Step 1 intersects this speed. The point at which the lines intersect indicates the recommended belt pitch for your drive.

Example: The table indicates that a ⅞ inch pitch (XH) belt should be selected.

Step 3 — Find the Speed Ratio

Divide the rpm of the faster machine by the rpm of the slower machine. This gives the speed ratio.

$$\frac{\text{Faster rpm}}{\text{Slower rpm}} = \text{ratio}$$

If you are replacing a chain or gear drive, divide the number of teeth on the larger sprocket or gear by the number of teeth on the smaller.

Example:

$$\frac{1750}{1250} = 1.4 \text{ ratio}$$

Step 4 — Choose the Pulley Sizes

A. You should try to use one stock pulley for the drive, preferably the larger. If both are standard size you can use the stock number selection tables by the method described under “Stock Drive Selection.”

B. If a minimum or maximum diameter for one of the pulleys is determined by the application, start with that diameter (or number of grooves). Be sure to check for the minimum recommended number of grooves for the belt pitch selected. (p. page K-4).

Example: The Minimum Pulley Diameter Table indicates the recommended number of grooves is 26.

C. If no limitations are placed on diameter, multiply the minimum recommended number of grooves for the small pulley by the ratio found in Step 3 to obtain the number of grooves required on the large pulley. If possible, for a more economical drive, use the next larger size stock pulley. To maintain ratio, divide the number of grooves in the large pulley by the ratio — this will give the number of grooves that must be used in the small pulley.

Example: The recommended number of grooves is 26 as determined by Step B above.

Multiply this size by the ratio determined in Step 3 to find the size of the large pulley:

$$26 \times 1.4 = 35.4$$

The next larger stock size is a 40 groove pulley. We divide 40 by the ratio (1.4) to find the number of grooves in the small pulley:

$$\frac{40}{1.4} = 28.6$$

In this case, we use a stock 40 groove pulley. Our pulley sizes have now been determined as:

Driver = 29 XH, Driven = 40 XH

D. Calculate the RIM speed. RIM speed equals 0.262 × OD of either pulley × rpm of same pulley.

Example: the diameter of our example pulley (29 XH) is determined as 7.967 from the Pulley Diameter Tables.

$$7.967 \times .262 \times 1750 = 3653 \text{ fpm}$$

If RIM speed exceeds 65 fpm, consult Martin.

Step 5 — Find Belt Length and Center Distance

A. To calculate belt length when center distance is known:

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

Correct centers by adding to (if standard belt is longer) or subtracting from (if standard belt is shorter) one-half the difference between the calculated belt length and standard belt length.

Example: Calculating the belt length on our example drive using a 24 inch center distance:

$$L = 2\,(24) + 1.57\,(11.141 + 8.077) + \frac{(11.141 - 8.077)^2}{4\,(24)} = 78.270$$

From Stock Selection tables standard pitch length is 77.0 inches; therefore, we correct answer to find adjusted center distance:

$$78.270 - 77.0 = 1.270, \quad \frac{1.270}{2} = .635$$

24.0″ - .635″ = 23.365″ Center Distance with 770XH Belt.

B. To calculate centers when belt length is known:

$$C = \frac{b + \sqrt{b^2 - 32\,(D - d)^2}}{16}$$

Calculating our example center distance using a standard 77.0″ pitch length belt:

$$b = 4\,(77) - 6.28318\,(11.141 + 8.077) = 187.25$$

$$C = \frac{187.25 + \sqrt{(187.25)^2 - 32\,(11.141 - 8.077)^2}}{16} = 23.356''$$

VALUES:
C = Center Distance
L = Belt Pitch Length
D = Pitch Diameter Large Pulley
d = Pitch Diameter Small Pulley
b = 4L - 6.28318 (D + d)

NOTE: Use these formulas only when you have adjustment available on centers. For fixed center applications, where exact centers are required, consult Martin.

Step 6 — Determine Drive Width

A. Turn to the basic horsepower rating table for the belt pitch selected. Read down the left hand column to find the rpm of your faster shaft and then across to the right and the horsepower rating per inch of belt width will be found under the column headed by the pulley size you have selected. Interpolate for sizes not shown.

Example: By interpolating the XH HP Rating Table we find that our example pulley (1750 rpm for the fastest shaft, with 29 teeth in the pulley) has 18.61 hp rating per inch of belt width.

B. Find the number of teeth in mesh.

$$\text{Arc of Contact} = 180° - \frac{60\,(D - d)}{C}$$

$$\text{Teeth in Mesh} = \frac{\text{Arc of Contact} \times n}{360}$$

n = Number of teeth in small pulley

Example: The number of teeth in mesh for this application:

$$Ac = 180 - \frac{60\,(11.141 - 8.077)}{23.365} = 172.132$$

$$TIM = \frac{172.132 \times 29}{360} = 13.866$$

TIM	F factor
6 or more	1.00
5	.80
4	.60
3	.40
2 or more	.20

TEETH IN MESH FACTOR

If the number of teeth in mesh is 5 or less, multiply the horsepower per inch of belt width by the TIM factor. This is the corrected horsepower per inch of belt width.

Example: No TIM factor correction is necessary for our example, since the multiple for 6 or more teeth in mesh is 1.00.

C. Divide the design horsepower found in Step 1b by the corrected horsepower per inch of belt width found in Steps 6a and 6b to find the nominal belt width. If the answer contains a fraction, use the next largest stock width.

Example:

$$\frac{29}{18.61} = 1.56 \text{ nominal width}$$

(Continued on Page K-63)

Nonstock Drive Design

Below we find that a 1.56 width Factor corresponds more closely to a 1½″ belt width for ⅞ belt pitch or the next *stock* width of 2″. As indicated by the shaded area.

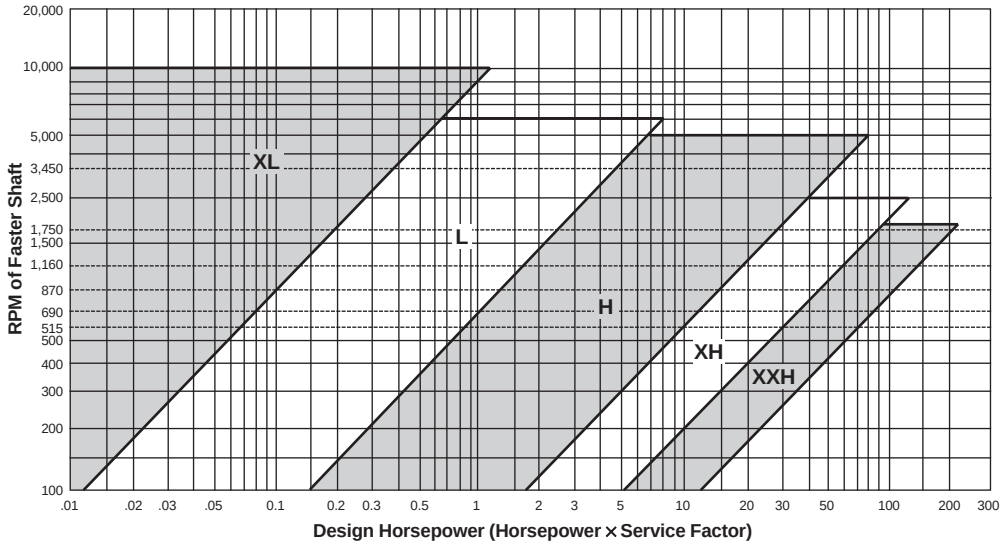
Therefore, our final belt width will be 2.0″.

Order Martin

(1) TB 40 XH200
(1) 4040 × 1 15/16 bushing
(1) M-T-O TB 29 XH200
(1) 3535 × 1⅞ bushing

(A re-check of bore limits, number of teeth, and width from the Stock Pulley Dimensions, shows that all material is stock.)

Table 4



Allowable Working Tensions (T.) in Pounds

Belt Width		¼	5/16	⅜	7/16	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	4	5	6	7	8	9	10	11	12	13	14
Belt Pitch	⅕″	6	8	11	14	17	23	29	35	41	53	64																
	⅜″			15	19	23	31	39	47	55	71	86	101	118	150	185												
	½″					59	80	99	120	140	181	218	258	300	381	470	568	666	861	1050	1245	1445						
	⅞″									191	246	298	351	409	520	642	775	909	1175	1433	1698	1971	2235	2502	2752	3025	3278	3555
	1¼″									234	302	365	431	501	636	786	950	1114	1439	1755	2080	2415	2738	3065	3372	3707	4015	4357
Width Factor		.15	.21	.28	.35	.42	.57	.71	.86	1.0	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

Shaded Areas are Stock Width Belts

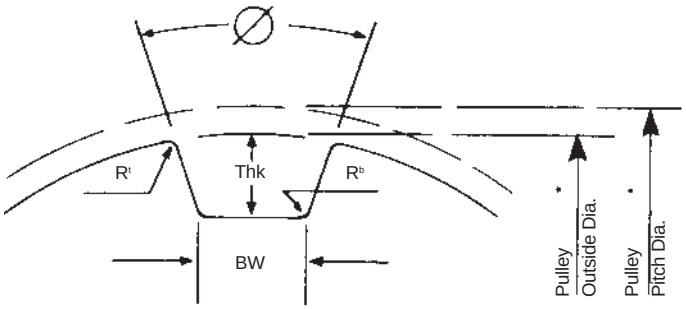
PULLEYS

Timing Pulley Information

The Positive Drive belt should be installed with a snug fit, neither too tight nor too loose. The belt's positive grip eliminates the need for initial tension. Consequently, a belt, when installed with snug fit (that is, not too taut), assures longer life, less wear on bearings, quieter operation. Pre-loading, often the cause of premature failure, is not necessary. A belt in either the ⅞- or 1¼-inch pitch can usually be installed slightly slack (because of deeper tooth section) unless shock loads of reversals are abnormally high. For additional recommendations on timing belt installation and tensioning, please contact the belt manufacturer.

Note:
Experience reveals that an extremely high percentage of Timing Pulley difficulties are caused by using pulley diameters that are too small. As a rule of thumb, a drive carrying the full recommended design loading per inch of belt width should not have a pulley diameter less than the drive belt width — even though the pulley diameter falls within the acceptable range shown in the minimum pulley diameter table.

TIMING PULLEY GROOVE PROFILES



Stock Belt Pitches	Approx. Pitch	Belt Tooth Profile	BW	Thk	O	R^b	R^t
⅕ (XL)	.187	F	.068 +.002 -.000	.060 +.000 -.002	40° ± 3°	1/64 MAX.	.015 +.002 -.000
⅕ (XL)	.200	H	.052 +.002 -.000	.065 +.000 -.003	50° ± 3°	1/64 MAX.	.025 +.002 -.000
⅕ (XL)	.234	D	.080 +.003 -.000	.073 +.000 -.004	40° ± 3°	1/32 MAX.	.030 +.005 -.000
⅜ (L)	.375	C	.120 +.004 -.000	.105 +.000 -.004	40° ± 3°	3/64 MAX.	.046 +.005 -.000
½ (H)	.500	B	.165 +.005 -.000	.120 +.000 -.005	40° ± 3°	1/16 MAX.	1/16 +.005 -.000
⅞ (XH)	.875	G	.311 +.006 -.000	.281 +.000 -.005	40° ± 3°	5/64 MAX.	3/32 +.005 -.000
1¼ (XXH)	1.250	E	.479 +.007 -.000	.406 +.000 -.005	40° ± 3°	4/32 MAX.	⅛ +.005 -.000

Martin Horsepower Ratings

XL

XL - 1/5″ Pitch

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.	23XL 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	.46	.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	1.78	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.
* HP ratings are for conventional speed-reduction drives.
• Pulley diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive, whenever possible.

PULLEYS

L

Horsepower Ratings

L - 3/8″ Pitch

RPM of Faster Shaft	HP for a 1″ Wide Belt for Various Pulleys*																		
	10L 1.194 P.D.	12L 1.432 P.D.	13L■ 1.552 P.D.	14L 1.671 P.D.	15L■ 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	•.05	.06	.07	.07	.08	.08	.09	.09	.10	.10	.11	.12	.13	.14	.15	.16	.17	.21	.25
200	•.10	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22	.23	.25	.27	.29	.31	.33	.42	.50
300	•.16	.19	.20	.22	.23	.25	.27	.28	.30	.31	.33	.34	.38	.41	.44	.47	.50	.63	.75
400	•.21	.25	.27	.29	.31	.33	.35	.38	.40	.42	.44	.46	.50	.54	.58	.62	.67	.83	1.00
500	•.26	.31	.34	.37	.39	.42	.44	.47	.50	.52	.55	.57	.63	.68	.73	.78	.83	1.04	1.24
600	•.31	.37	.41	.44	.47	.50	.53	.56	.59	.63	.66	.69	.75	.81	.87	.94	1.00	1.24	1.49
700	•.37	.44	.47	.51	.55	.58	.62	.66	.69	.73	.77	.80	.87	.95	1.02	1.09	1.16	1.45	1.73
800	•.42	.50	.54	.58	.62	.67	.71	.75	.79	.83	.87	.92	1.00	1.08	1.16	1.24	1.32	1.65	1.97
870	•.45	.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	•.47	.56	.61	.66	.70	.75	.80	.84	.89	.94	.98	1.03	1.12	1.21	1.30	1.40	1.49	1.85	2.21
1000	•.52	.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	•.57	.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	•.60	.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	•.63	• .75	.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	•.68	• .81	.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	•.73	• .87	.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	•.78	• .94	•1.02	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	•.83	•1.00	•1.08	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	•.89	•1.06	•1.15	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	•.91	•1.09	•1.17	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	—	•1.12	•1.21	•1.30	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	—	•1.18	•1.27	•1.38	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	—	•1.24	•1.35	•1.45	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	—	•1.36	•1.48	•1.59	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	—	•1.49	•1.61	•1.73	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	—	•1.55	•1.68	•1.80	•1.92	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	—	•1.61	•1.74	•1.87	•2.00	2.13	2.26	2.38	2.51	2.63	2.76	2.99	3.12	3.36	3.59	3.81	4.03	4.83	5.48
2800	—	•1.73	•1.87	•2.01	•2.14	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	—	•1.85	•2.00	•2.15	•2.29	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	—	—	•2.13	•2.28	•2.44	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	—	—	•2.26	•2.42	•2.58	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	—	—	•2.32	•2.49	•2.65	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	—	—	—	•2.55	•2.73	•2.90	•3.07	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	—	—	—	•2.69	•2.86	•3.03	•3.22	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	—	—	—	•2.83	•3.00	•3.20	•3.37	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	—	—	—	—	•3.15	•3.34	•3.53	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	—	—	—	—	•3.28	•3.49	•3.67	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	—	—	—	—	•3.41	•3.63	•3.82	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	—	—	—	—	•3.54	•3.77	•3.96	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	—	—	—	—	•3.67	•3.91	•4.10	•4.31	•4.50	4.68	4.86	5.04	5.35	5.63	5.86	6.06	6.20	6.26	†5.30
5200	—	—	—	—	•3.81	•4.03	•4.23	•4.45	•4.63	4.82	5.01	5.18	5.48	5.76	5.98	6.15	6.27	†6.16	†4.91
5400	—	—	—	—	•3.93	•4.17	•4.37	•4.59	•4.77	4.96	5.14	5.31	5.61	5.88	6.07	6.23	6.32	†6.01	†4.44
5600	—	—	—	—	•4.05	•4.29	•4.50	•4.72	•4.91	5.09	5.28	5.44	5.73	5.98	6.16	6.28	6.34	†5.83	†3.89
5800	—	—	—	—	•4.17	•4.42	•4.62	•4.84	•5.04	5.22	5.40	5.57	5.84	6.07	6.23	6.32	6.34	†5.60	†3.27
6000	—	—	—	—	•4.29	•4.55	•4.75	•4.97	•5.15	5.34	5.52	5.68	5.93	6.15	6.28	6.35	6.33	†5.32	†2.57

PULLEYS

L Belt Width Table

Belt Width Factor	.28	.35	.42	.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.
* HP ratings are for conventional speed-reduction drives.
■ Special non-stock sizes.
† Belt speed exceeds 6500 fpm — consult factory.
• Pulley diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive, whenever possible.

Horsepower Ratings

H - ½″ Pitch

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 5.093 P.D.	36H■ 5.730 P.D.	40H 6.366 P.D.	44H■ 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
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	20.57	†21.58	†21.92	†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	—	—	—	—	—	•16.89	•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	†20.46	—	—
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	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2½	3	3½	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.

* HP ratings are for conventional speed-reduction drives.

■ Special non-stock sizes.

† Belt speed exceeds 6500 fpm — consult factory.

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

XH

Horsepower Ratings

XH - ⅛″ Pitch

RPM of Faster Shaft	HP for a 1″ Wide Belt for Various Pulleys*								
	18 XH 5.013 P.D.	20 XH 5.570 P.D.	22 XH 6.127 P.D.	24 XH 6.685 P.D.	26 XH 7.241 P.D.	28 XH 7.799 P.D.	30 XH 8.356 P.D.	32 XH 8.910 P.D.	40 XH 11.141 P.D.
100	• .76	.84	.93	1.01	1.11	1.18	1.26	1.34	1.68
200	•1.51	1.68	1.85	2.02	2.19	2.36	2.52	2.69	3.37
300	•2.28	2.52	2.78	3.03	3.28	3.54	3.78	4.03	5.02
400	•3.03	3.37	3.70	4.03	4.37	4.70	5.02	5.36	6.66
480	•3.63	4.03	4.43	4.82	5.22	5.62	6.00	6.40	7.95
500	•3.78	• 4.20	4.61	5.02	5.44	5.85	6.26	6.71	8.26
510	•3.86	• 4.29	4.71	5.12	5.54	5.97	6.37	6.80	8.42
570	•4.30	• 4.77	5.25	5.72	6.17	6.65	7.10	7.56	9.36
600	•4.53	• 5.02	5.52	6.00	6.50	6.98	7.47	7.95	9.82
680	•5.12	• 5.68	6.24	6.80	7.34	7.88	8.42	8.96	11.04
700	•5.27	• 5.84	6.42	6.98	7.54	8.10	8.66	9.21	11.35
800	•6.00	• 6.66	7.31	7.95	8.59	9.21	9.83	10.44	12.80
870	•6.52	• 7.23	7.92	8.61	9.29	9.97	10.63	11.29	13.79
900	•6.74	• 7.46	• 8.19	8.90	9.59	10.29	10.97	11.64	14.18
1000	•7.47	• 8.26	• 9.05	9.82	10.59	11.35	12.08	12.80	15.51
1100	•8.19	• 9.05	• 9.91	10.75	11.56	12.38	13.15	13.92	16.74
1160	•8.61	• 9.51	•10.41	11.29	12.13	12.97	13.79	14.57	17.44
1200	—	• 9.83	•10.75	•11.64	12.51	13.37	14.29	14.99	17.89
1300	—	•10.59	•11.57	•12.51	13.44	14.32	15.18	16.01	18.94
1400	—	•11.35	•12.37	•13.37	14.32	15.25	16.14	16.98	19.87
1500	—	•12.08	•13.15	•14.19	15.18	16.14	17.03	17.89	20.71
1600	—	•12.80	•13.92	•14.99	16.01	16.98	17.14	18.82	21.42
1700	—	•13.50	•14.66	•15.76	16.80	17.78	18.68	19.51	21.99
1750	—	•13.85	•15.03	•16.14	17.17	18.16	19.06	19.87	22.22
1800	—	—	•15.37	•16.51	•17.56	18.53	19.42	20.22	22.35
1900	—	—	•16.07	•17.22	•18.65	19.23	20.69	20.86	22.70
2000	—	—	•16.74	•17.89	•18.94	19.87	20.71	21.42	22.84
2100	—	—	•17.39	•18.53	•19.56	20.48	21.25	21.88	22.81
2200	—	—	•18.00	•19.43	•20.14	21.01	21.72	22.27	22.61
2300	—	—	•18.59	•19.70	•20.67	21.47	22.11	22.55	†22.30
2400	—	—	•19.31	•20.22	•21.14	21.88	22.42	22.75	†21.65
2500	—	—	—	•20.71	•21.57	•22.22	22.64	22.84	†20.89
2600	—	—	—	•21.14	•21.94	•22.49	22.80	22.82	†19.92
2800	—	—	—	•21.89	•22.49	•22.81	22.81	†22.47	—
3000	—	—	—	•22.42	•22.80	•22.81	†22.44	†21.65	—
3200	—	—	—	•22.75	•22.82	•22.47	†21.65	†20.33	—
3400	—	—	—	•22.84	•22.58	•21.78	†20.42	†18.48	—
3500	—	—	—	•22.81	†•22.34	†•21.29	†19.64	—	—
3600	—	—	—	•22.71	†•22.02	†•20.72	†18.73	—	—
3800	—	—	—	†•22.31	†•21.41	†•19.22	—	—	—
4000	—	—	—	†•21.65	†•19.92	—	—	—	—
4200	—	—	—	†•20.71	†•18.33	—	—	—	—
4400	—	—	—	†•19.47	—	—	—	—	—

PULLEYS

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	1¼	1½	1¾	2	2½	3	3½	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.

* HP ratings are for conventional speed-reduction drives.

† Belt speed exceeds 6500 fpm — consult factory.

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

Timing Pulley Diameters

XL - 1/5″ Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
10XL	.637	.617	33XL	2.101	2.081	55XL	3.501	3.481	77XL	4.902	4.882	99XL	6.303	6.283
11XL	.700	.680	34XL	2.165	2.145	56XL	3.565	3.545	78XL	4.966	4.946	100XL	6.346	6.326
12XL	.764	.744	35XL	2.228	2.208	57XL	3.629	3.609	79XL	5.029	5.009	101XL	6.430	6.410
13XL	.828	.808	36XL	2.292	2.272	58XL	3.692	3.672	80XL	5.093	5.073	102XL	6.494	6.474
14XL	.891	.871	37XL	2.355	2.335	59XL	3.756	3.736	81XL	5.157	5.137	103XL	6.557	6.537
15XL	.955	.935	38XL	2.419	2.399	60XL	3.820	3.800	82XL	5.220	5.200	104XL	6.621	6.601
16XL	1.019	.999	39XL	2.483	2.463	61XL	3.883	3.863	83XL	5.284	5.264	105XL	6.685	6.665
17XL	1.082	1.062	40XL	2.546	2.526	62XL	3.947	3.927	84XL	5.348	5.328	106XL	6.748	6.728
18XL	1.146	1.126	41XL	2.610	2.590	63XL	4.011	3.991	85XL	5.411	5.391	107XL	6.812	6.792
19XL	1.210	1.190	42XL	2.674	2.654	64XL	4.074	4.054	86XL	5.475	5.455	108XL	6.875	6.855
20XL	1.273	1.253	43XL	2.737	2.717	65XL	4.138	4.118	87XL	5.539	5.519	109XL	6.939	6.919
21XL	1.337	1.317	44XL	2.801	2.781	66XL	4.202	4.182	88XL	5.602	5.582	110XL	7.003	6.983
22XL	1.401	1.381	45XL	2.865	2.845	67XL	4.265	4.245	89XL	5.666	5.646	111XL	7.066	7.046
23XL	1.464	1.444	46XL	2.928	2.908	68XL	4.329	4.309	90XL	5.730	5.710	112XL	7.130	7.110
24XL	1.528	1.508	47XL	2.992	2.972	69XL	4.393	4.373	91XL	5.793	5.773	113XL	7.194	7.174
25XL	1.592	1.572	48XL	3.056	3.036	70XL	4.456	4.436	92XL	5.857	5.837	114XL	7.257	7.237
26XL	1.655	1.635	49XL	3.119	3.099	71XL	4.520	4.500	93XL	5.921	5.901	115XL	7.321	7.301
27XL	1.719	1.699	50XL	3.183	3.163	72XL	4.584	4.564	94XL	5.984	5.964	116XL	7.385	7.365
28XL	1.783	1.763	51XL	3.247	3.227	73XL	4.647	4.627	95XL	6.048	6.028	117XL	7.448	7.428
29XL	1.846	1.826	52XL	3.310	3.290	74XL	4.711	4.691	96XL	6.112	6.092	118XL	7.512	7.492
30XL	1.910	1.890	53XL	3.374	3.354	75XL	4.775	4.755	97XL	6.175	6.155	119XL	7.576	7.556
31XL	1.974	1.954	54XL	3.438	3.418	76XL	4.838	4.818	98XL	6.239	6.219	120XL	7.639	7.619
32XL	2.037	2.017												

L - 3/8″ Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
10L	1.194	1.164	33L	3.939	3.909	56L	6.685	6.655	79L	9.430	9.400	102L	12.175	12.145
11L	1.313	1.283	34L	4.058	4.028	57L	6.804	6.774	80L	9.549	9.519	103L	12.295	12.265
12L	1.432	1.402	35L	4.178	4.148	58L	6.923	6.893	81L	9.669	9.639	104L	12.414	12.384
13L	1.552	1.522	36L	4.297	4.267	59L	7.043	7.013	82L	9.788	9.758	105L	12.533	12.503
14L	1.671	1.641	37L	4.417	4.387	60L	7.162	7.132	83L	9.907	9.877	106L	12.653	12.623
15L	1.790	1.760	38L	4.536	4.506	61L	7.281	7.251	84L	10.027	9.997	107L	12.772	12.742
16L	1.910	1.880	39L	4.655	4.625	62L	7.401	7.371	85L	10.147	10.117	108L	12.892	12.862
17L	2.029	1.999	40L	4.775	4.745	63L	7.520	7.490	86L	10.265	10.235	109L	13.011	12.981
18L	2.149	2.119	41L	4.894	4.864	64L	7.639	7.609	87L	10.385	10.355	110L	13.130	13.100
19L	2.268	2.238	42L	5.013	4.983	65L	7.759	7.729	88L	10.504	10.474	111L	13.250	13.220
20L	2.387	2.357	43L	5.133	5.103	66L	7.878	7.848	89L	10.624	10.594	112L	13.369	13.339
21L	2.507	2.477	44L	5.252	5.222	67L	7.998	7.968	90L	10.743	10.713	113L	13.488	13.458
22L	2.626	2.596	45L	5.371	5.341	68L	8.117	8.087	91L	10.862	10.832	114L	13.608	13.578
23L	2.745	2.715	46L	5.491	5.461	69L	8.236	8.206	92L	10.982	10.952	115L	13.727	13.697
24L	2.865	2.835	47L	5.610	5.580	70L	8.356	8.326	93L	11.101	11.071	116L	13.846	13.816
25L	2.984	2.954	48L	5.730	5.700	71L	8.475	8.445	94L	11.220	11.190	117L	13.966	13.936
26L	3.104	3.074	49L	5.849	5.819	72L	8.594	8.564	95L	11.340	11.310	118L	14.085	14.055
27L	3.223	3.193	50L	5.968	5.938	73L	8.714	8.684	96L	11.459	11.429	119L	14.205	14.175
28L	3.342	3.312	51L	6.088	6.058	74L	8.833	8.803	97L	11.579	11.549	120L	14.324	14.294
29L	3.462	3.432	52L	6.207	6.177	75L	8.952	8.922	98L	11.698	11.668	130L	15.518	15.488
30L	3.581	3.551	53L	6.326	6.296	76L	9.072	9.042	99L	11.817	11.787	140L	16.711	16.681
31L	3.700	3.670	54L	6.446	6.416	77L	9.191	9.161	100	11.937	11.907	150L	17.905	17.875
32L	3.820	3.790	55L	6.565	6.535	78L	9.311	9.261	101L	12.056	12.026			

Timing Pulley Diameters

H - ½″ Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
15H	2.387	2.333	35H	5.570	5.516	55H	8.754	8.700	75H	11.937	11.883	95H	15.120	15.066
16H	2.546	2.492	36H	5.730	5.676	56H	8.913	8.859	76H	12.096	12.042	96H	15.225	15.171
17H	2.706	2.652	37H	5.889	5.835	57H	9.072	9.018	77H	12.255	12.201	97H	15.438	15.384
18H	2.865	2.811	38H	6.048	5.994	58H	9.231	9.177	78H	12.414	12.360	98H	15.597	15.543
19H	3.024	2.970	39H	6.207	6.153	59H	9.390	9.336	79H	12.573	12.519	99H	15.756	15.702
20H	3.183	3.129	40H	6.366	6.312	60H	9.549	9.495	80H	12.732	12.678	100H	15.915	15.861
21H	3.342	3.288	41H	6.525	6.471	61H	9.708	9.654	81H	12.892	12.848	102H	16.234	16.180
22H	3.501	3.447	42H	6.685	6.631	62H	9.868	9.814	82H	13.051	12.997	104H	16.552	16.498
23H	3.661	3.607	43H	6.844	6.790	63H	10.027	9.973	83H	13.210	13.156	106H	16.870	16.816
24H	3.820	3.766	44H	7.003	6.949	64H	10.186	10.132	84H	13.369	13.315	108H	17.189	17.135
25H	3.979	3.925	45H	7.162	7.108	65H	10.345	10.291	85H	13.528	13.474	110H	17.507	17.453
26H	4.138	4.084	46H	7.321	7.267	66H	10.504	10.450	86H	13.687	13.633	115H	18.303	18.249
27H	4.297	4.243	47H	7.480	7.426	67H	10.663	10.609	87H	13.846	13.792	120H	19.099	19.045
28H	4.456	4.402	48H	7.639	7.585	68H	10.823	10.769	88H	14.005	13.952	125H	19.894	19.840
29H	4.615	4.561	49H	7.799	7.745	69H	10.982	10.928	89H	14.165	14.111	130H	20.690	20.636
30H	4.775	4.721	50H	7.958	7.904	70H	11.141	11.087	90H	14.324	14.270	135H	21.486	21.432
31H	4.934	4.880	51H	8.117	8.063	71H	11.300	11.246	91H	14.483	14.429	140H	22.282	22.228
32H	5.093	5.039	52H	8.276	8.222	72H	11.459	11.405	92H	14.642	14.588	145H	23.077	23.023
33H	5.252	5.198	53H	8.435	8.381	73H	11.618	11.564	93H	14.801	14.747	150H	23.873	23.819
34H	5.411	5.357	54H	8.594	8.540	74H	11.777	11.723	94H	14.961	14.907	156H	24.828	24.774

XH - ⅞″ Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
18XH	5.013	4.903	45XH	12.533	12.423	70XH	19.496	19.386	95XH	26.460	26.350	120XH	33.423	33.313
20XH	5.570	5.460	46XH	12.812	12.702	71XH	19.776	19.666	96XH	26.738	26.628	122XH	33.980	33.870
22XH	6.127	6.017	47XH	13.091	12.981	72XH	20.054	19.944	97XH	27.017	26.907	124XH	34.537	34.427
23XH	6.406	6.296	48XH	13.369	13.259	73XH	20.332	20.222	98XH	27.295	27.185	126XH	35.094	34.984
24XH	6.685	6.575	49XH	13.648	13.538	74XH	20.611	20.501	99XH	27.574	27.464	128XH	35.651	35.541
25XH	6.963	6.853	50XH	13.926	13.816	75XH	20.889	20.779	100XH	27.852	27.742	130XH	36.208	36.098
26XH	7.242	7.132	51XH	14.205	14.095	76XH	21.168	21.058	101XH	28.131	28.021	132XH	36.765	36.655
27XH	7.520	7.410	52XH	14.483	14.373	77XH	21.446	21.336	102XH	28.409	28.299	134XH	37.322	37.212
28XH	7.799	7.689	53XH	14.762	14.652	78XH	21.725	21.615	103XH	28.688	28.578	136XH	37.879	37.769
29XH	8.077	7.967	54XH	15.140	14.930	79XH	21.003	21.893	104XH	28.966	28.856	138XH	38.436	38.326
30XH	8.356	8.246	55XH	15.319	15.209	80XH	22.282	22.172	105XH	29.245	29.135	140XH	38.993	38.883
31XH	8.634	8.524	56XH	15.597	15.487	81XH	22.560	22.450	106XH	29.523	29.413	142XH	39.550	39.440
32XH	8.913	8.803	57XH	15.876	15.766	82XH	22.839	22.729	107XH	29.802	29.682	144XH	40.107	39.997
33XH	9.191	9.081	58XH	16.154	16.044	83XH	23.118	23.008	108XH	30.080	29.970	146XH	40.664	40.554
34XH	9.470	9.360	59XH	16.433	16.323	84XH	23.396	23.286	109XH	30.359	30.249	150XH	41.778	41.668
35XH	9.748	9.638	60XH	16.711	16.601	85XH	23.674	23.564	110XH	30.637	30.527			
36XH	10.027	9.917	61XH	16.990	16.880	86XH	23.953	23.843	111XH	30.916	30.806			
37XH	10.305	10.195	62XH	17.268	17.158	87XH	24.231	24.121	112XH	31.194	31.084			
38XH	10.584	10.474	63XH	17.547	17.437	88XH	24.510	24.400	113XH	31.473	31.363			
39XH	10.862	10.752	64XH	17.825	17.715	89XH	24.788	24.678	114XH	31.751	31.641			
40XH	11.141	11.031	65XH	18.104	17.994	90XH	25.067	24.957	115XH	32.030	31.920			
41XH	11.419	11.309	66XH	18.382	18.272	91XH	25.345	25.235	116XH	32.308	32.198			
42XH	11.698	11.588	67XH	18.661	18.551	92XH	25.624	25.514	117XH	32.587	32.477			
43XH	11.976	11.866	68XH	18.939	18.829	93XH	25.902	25.792	118XH	32.665	32.755			
44XH	12.255	12.145	69XH	19.218	19.108	94XH	26.181	26.071	119XH	33.145	33.035			

Outside Diameter Tolerances

PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL
0-1″	+.002 -.000	2.001″ -4″	+.004 -.000	7.001″ -12″	+.006 -.000	20.001 UP	+.008 -.000
1.000″-2″	+.003 -.000	4.001″ -7″	+.005 -.000	12.001″ -20″	+.007 -.000		