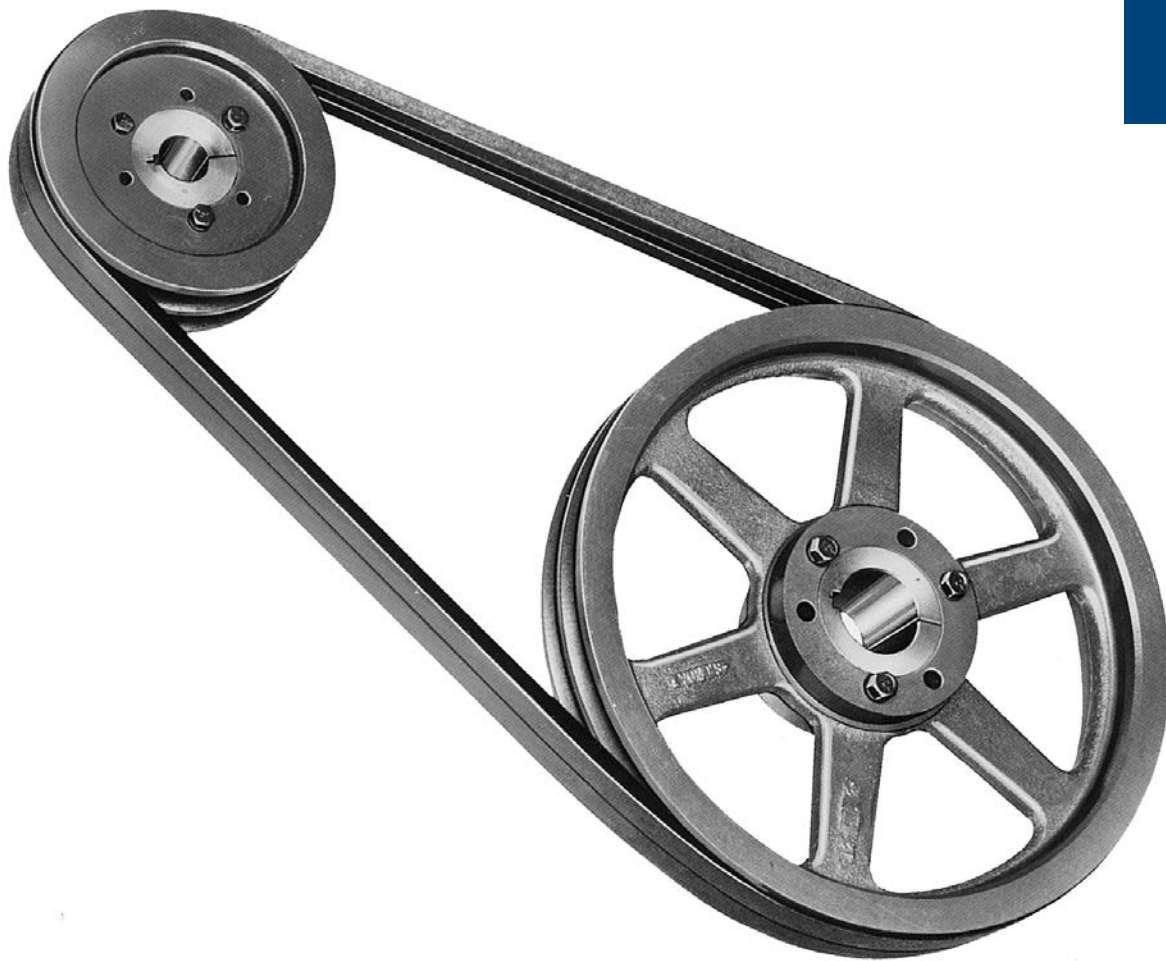


Narrow (Premium-V) Sheaves

BP1

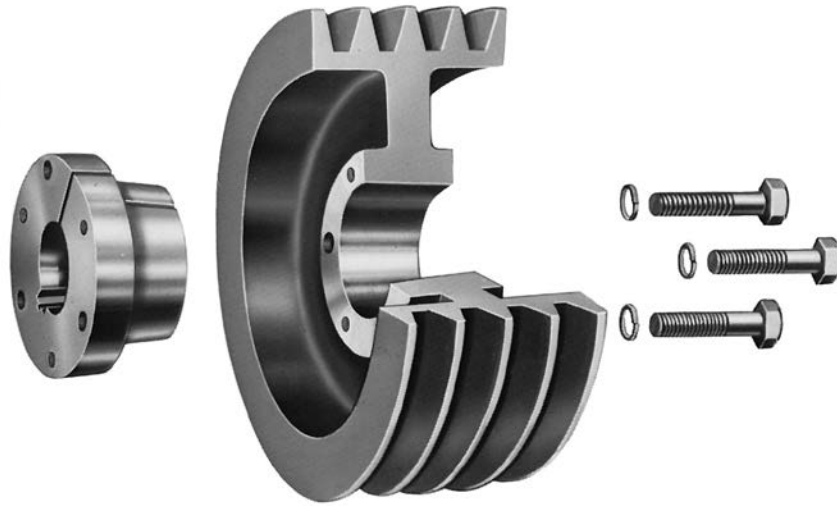


- **For Tough Applications**

Sure-Grip® Narrow (Ultra-V) Sheave

Features

Wood's Ultra-V sheaves are constructed of fine grain, high tensile cast iron, and have been carefully engineered to assure maximum performance over a long life span. Behind each sheave is one of the most extensive engineering design and testing programs in the industry.

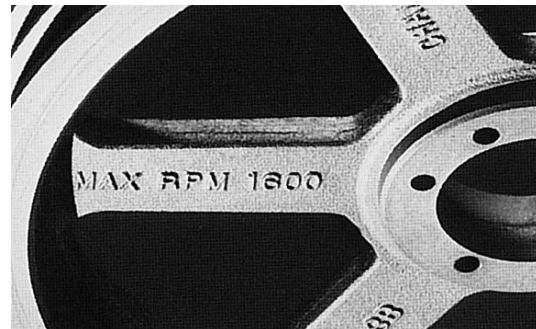


With the advent of higher V-belt ratings, Wood's engineers instituted additional careful test programs to ensure that each Wood's sheave would be capable of safely and dependably delivering the increased performance which was required by the new ratings. Wood's engineers, using a special strain gage test stand, subject sheaves to tension and compression stresses far in excess of those encountered in actual operation.

In another standard test procedure, Wood's sheaves are operated at extremely high speeds. Sheaves are selected from warehouse stocks and tested until they are burst by centrifugal force. Such destructive testing allows Wood's engineers to study the effects of construction and balance on sheave performance. The goal is to assure safe operation at normal speeds. Other continuing programs check product quality in the laboratory and on the manufacturing line.

For applications with special requirements, Wood's sheaves are also available on a made-to-order basis in either cast or ductile iron, and in Sure-Grip or bored-to-suit construction.

Wood's stock narrow sheaves are available with the convenient Sure-Grip QD type bushing. Easy to install and remove, these split, tapered bushings grip the shaft with the equivalent of a shrink fit. This tight holding power eliminates freezing and fretting corrosion between the shaft and the bore and assures quick removal and interchangeability when necessary.



We cast or stamp the maximum safe operating speed, in rpm, on all sheaves we manufacture.

Narrow (Ultra-V) Sheave

Dimensions

STANDARD GROOVE DIMENSIONS

Belt	GROOVE DIMENSIONS IN INCHES								Angle of Groove	Used on O.D.
	A	B	C	E	W	T	U			
3V	11/32	13/32	0	.350	.350	.056	.123	36	Under 3.5	
								38	3.5 to 6.0	
								40	6.01 to 12.0	
								42	12.01, Over	
5V	1/2	11/16	0	.600	.600	.0875	.187	38	Under 10.0	
							.163	40	10.0 to 16.0	
							.139	42	16.01, Over	
8V	3/4	1-1/8	0	1.000	1.000	.125	.312	38	Under 16.0	
							.272	40	16.0 to 22.4	
							.232	42	22.41, Over	

STANDARD SHEAVE FACE WIDTHS

Belt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	For Each Additional Groove Add
3V	11/16*	1-3/32	1-1/2	1-29/32	2-5/16	2-23/32	3-1/8	3-17/32	3-15/16	4-11/32	4-3/4	5-5/32	5-9/16	5-31/32	6-3/8	6-25/32	7-3/16	7-19/32	13/32
5V	1	1-11/16	2-3/8	3-1/16	3-3/4	4-7/16	5-1/8	5-13/16	6-1/2	7-3/16	7-7/8	8-9/16	9-1/4	9-15/16	10-5/8	11-5/16	12	12-11/16	11/16
8V**	1-1/2	2-5/8	3-3/4	4-7/8	6	7-1/8	8-1/4	9-3/8	10-1/2	11-5/8	12-3/4	13-7/8	15	16-1/8	17-1/4	18-3/4	19-7/8	21	1-1/8

* For 10.6 to 13.9 outside diameters face width = 3/4". For outside diameters 14.0 and over face width = 13/16.

** Sheaves 16 grooves and over have 3/8" additional metal added to overall face width.

DEEP GROOVE DIMENSIONS

Belt	A	B	C	E	W	T	U	Angle of Groove	Used on O.D.
3V	3/8	1/2	.109	.459	.421	.079	.123	36	Under 3.72
					.425	.075	.109	38	3.72 to 6.22
					.429	.071	.095	40	6.23 to 12.22
					.434	.067	.081	42	12.22, Over
5V	9/16	13/16	.160	.760	.710	.102	.187	38	Under 10.32
					.716	.096	.163	40	10.32 to 16.32
					.723	.090	.139	42	16.32, Over
8V	27/32	1-5/16	.262	1.262	1.180	.132	.312	38	Under 16.52
					1.191	.123	.272	40	16.52 to 22.92
					1.201	.113	.232	42	22.92, Over

DEEP GROOVE SHEAVE FACE WIDTHS

Belt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	For Each Additional Groove Add
3V	3/4	1-1/4	1-3/4	2-1/4	2-3/4	3-1/4	3-3/4	4-1/4	4-3/4	5-1/4	5-3/4	6-1/4	6-3/4	7-1/4	7-3/4	8-1/4	8-3/4	9-1/4	1/2
5V	1-1/8	1-15/16	2-3/4	3-3/16	4-3/8	5-3/16	6	6-13/16	7-5/8	8-7/16	9-1/4	10-1/16	10-7/8	11-11/16	12-1/2	13-5/16	14-1/8	14-15/16	13/16
8V	1-11/16	3	4-5/16	5-5/8	6-15/16	8-1/4	9-3/16	10-7/8	12-3/16	13-1/2	14-13/16	16-1/8	17-7/16	18-3/4	20-1/16	21-3/8	22-11/16	24	1-5/16

Stock Narrow (Ultra-V) Sheaves 3V

Dimensions

These sheaves are designed to carry the loads of all belts shown in this catalog and other similarly rated V-Belts. For special higher rated V-Belts, consult Wood's Engineering Department for recommendations.

The sheaves listed below are all stock sizes. The dimensions given are with the Sure-Grip bushings in place. When ordering, specify the bushing, if required, and the bore size. The figure following the letter in the "Type" column indicates the sheave construction: 1 – Solid, 2 – Web, 3 – Arms.

DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	1 GROOVE							Product No.	2 GROOVE						
			*F = 11/16								F = 1-3/32						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
2.20†	-	3V221	JA	E1	19/32	7/16	1	29/32	0.9	3V222	JA	E1	1	7/16	1	29/32	1.1
2.35†	-	3V2351	JA	E1	19/32	7/16	1	29/32	1.2	3V2352	JA	E1	1	7/16	1	29/32	1.4
2.50†	-	3V251	JA	E1	19/32	7/16	1	29/32	1.3	3V252	JA	E1	1	7/16	1	29/32	1.5
2.65	2.00	3V2651	JA	D1	13/32	1/16	1	3/32	0.9	3V2652	JA	D1	11/32	1/8	1	7/16	1.2
2.80	2.00	3V281	JA	D1	13/32	1/16	1	3/32	1.0	3V282	JA	D1	11/32	1/8	1	7/16	1.3
3.00	2.00	3V301	JA	D1	13/32	1/16	1	3/32	1.1	3V302	JA	D1	11/32	1/8	1	7/16	1.5
3.15	2.00	3V3151	JA	D1	13/32	1/16	1	3/32	1.2	3V3152	JA	D1	11/32	1/8	1	7/16	1.7
3.35	2.00	3V3.351	JA	D1	13/32	1/16	1	3/32	1.4	3V3.352	SH	D1	7/16	1/8	1-1/4	9/32	1.9
3.65	2.68	3V3651	SH	C1	9/16	0	1-1/4	0	2.0	3V3652	SH	D1	7/16	1/8	1-1/4	9/32	2.4
4.12	2.88	3V4121	SH	C1	9/16	0	1-1/4	0	2.5	3V4122	SH	D1	1/4	5/16	1-1/4	3/32	2.9
4.50	3.18	3V451	SH	C1	9/16	0	1-1/4	0	3.0	3V452	SH	D1	1/4	5/16	1-1/4	3/32	3.5
4.75	3.44	3V4751	SH	C1	9/16	0	1-1/4	0	3.3	3V4752	SH	D1	1/4	5/16	1-1/4	3/32	3.9
5.00	3.68	3V501	SH	C1	9/16	0	1-1/4	0	3.6	3V502	SH	D1	1/4	5/16	1-1/4	3/32	4.2
5.30	4.00	3V531	SH	C1	9/16	0	1-1/4	0	3.8	3V532	SH	D1	1/4	5/16	1-1/4	3/32	4.7
5.60	4.25	3V561	SH	C1	9/16	0	1-1/4	0	4.2	3V562	SH	D1	1/4	5/16	1-1/4	3/32	5.3
6.00	4.69	3V601	SH	C2	9/16	0	1-1/4	0	4.2	3V602	SH	D2	1/4	5/16	1-1/4	3/32	6.2
6.50	5.25	3V651	SH	C2	9/16	0	1-1/4	0	4.6	3V652	SDS	D1	5/16	5/16	1-5/16	3/32	7.5
6.90	5.62	3V691	SH	C2	9/16	0	1-1/4	0	4.5	3V692	SDS	D2	5/16	5/16	1-5/16	3/32	6.7
8.00	6.68	3V801	SDS	C2	5/8	0	1-5/16	0	7.0	3V802	SDS	D2	5/16	5/16	1-5/16	3/32	7.4
10.60	9.25	3V1061	SDS	D3	5/8	0	1-5/16	1/16	7.4	3V1062	SK	C3	15/32	1/4	1-7/8	5/16	13.1
14.00	12.62	3V1401	SK	C3	21/32	0	1-7/8	11/32	14.4	3V1402	SK	C3	15/32	1/4	1-7/8	5/16	19.6
19.00	17.50	3V1901	SK	C3	21/32	0	1-7/8	11/32	20.6	3V1902	SK	C3	15/32	1/4	1-7/8	5/16	24.2
25.00	-	-	-	-	-	-	-	-	-	3V2502	SF	C3	7/16	1/4	2	15/32	40.7

*F = 3/4 for 10.60 inches O.D. – F = 13/16 for 14.00 inches and 19.00 inches O.D.

O.D. ◆	I.D.	Product No.	3 GROOVE							Product No.	4 GROOVE						
			F = 1-1/2								F = 1-29/32						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
2.50 †	-	3V253	JA	E1	1-13/32	7/16	1	29/32	1.8	-	-	-	-	-	-	-	-
2.65	2.00	3V2653	JA	E1	27/32	-1/8	1	11/32	1.5	3V2654	JA	E1	1-1/4	-1/8	1	11/32	1.8
2.80	2.00	3V283	JA	E1	27/32	-1/8	1	11/32	1.6	3V284	JA	E1	1-1/4	-1/8	1	11/32	1.9
3.00	1.81	3V303	SH	E1	1-3/16	3/8	1-1/4	15/16	2.3	3V304	SH	E1	1-19/32	3/8	1-1/4	15/16	2.6
3.15	1.81	3V3153	SH	E1	1-3/16	3/8	1-1/4	15/16	2.6	3V3154	SH	E1	1-19/32	3/8	1-1/4	15/16	3.0
3.35	2.68	3V3.353	SH	D1	7/16	1/8	1-1/4	11/16	2.4	3V3.354	SH	D1	7/16	1/8	1-1/4	1-3/32	2.8
3.65	2.68	3V3653	SH	D1	7/16	1/8	1-1/4	11/16	3.0	3V3654	SH	D1	7/16	1/8	1-1/4	1-3/32	3.6
4.12	2.88	3V4123	SH	A1	1/8	11/16	1-1/4	1/8	3.4	3V4124	SH	A1	1/4	13/16	1-1/4	11/32	3.9
4.50	3.31	3V453	SDS	A1	1/16	11/16	1-5/16	1/8	4.1	3V454	SDS	A1	3/16	13/16	1-5/16	13/32	4.5
4.75	3.44	3V4753	SDS	A1	1/16	11/16	1-5/16	1/8	4.6	3V4754	SDS	A1	3/16	13/16	1-5/16	13/32	5.1
5.00	3.68	3V503	SDS	A1	1/16	11/16	1-5/16	1/8	5.0	3V504	SDS	A1	3/16	13/16	1-5/16	13/32	5.6
5.30	4.07	3V533	SDS	A1	1/16	11/16	1-5/16	1/8	5.6	3V534	SDS	A1	3/16	13/16	1-5/16	13/32	6.1
5.60	4.36	3V563	SDS	A1	1/16	11/16	1-5/16	1/8	6.5	3V564	SDS	A1	3/16	13/16	1-5/16	13/32	7.7
6.00	4.69	3V603	SDS	A1	1/16	11/16	1-5/16	1/8	7.0	3V604	SK	D1	3/32	5/8	1-7/8	1/8	9.8
6.50	5.25	3V653	SDS	A2	1/16	11/16	1-5/16	1/8	7.3	3V654	SK	D1	3/32	5/8	1-7/8	1/8	11.3
6.90	5.62	3V693	SDS	A2	1/16	11/16	1-5/16	1/8	7.8	3V694	SK	D1	3/32	5/8	1-7/8	1/8	12.9
8.00	6.68	3V803	SK	D2	15/32	1/4	1-7/8	3/32	10.6	3V804	SK	D2	3/32	5/8	1-7/8	1/8	12.1
10.60	9.25	3V1063	SK	D3	15/32	1/4	1-7/8	3/32	14.7	3V1064	SK	D3	3/32	5/8	1-7/8	1/8	17.3
14.00	12.62	3V1403	SK	D3	15/32	1/4	1-7/8	3/32	21.1	3V1404	SK	D3	3/32	5/8	1-7/8	1/8	24.1
19.00	17.62	3V1903	SF	C3	7/16	1/4	2	1/16	36.3	3V1904	SF	C3	1/16	5/8	2	1/32	39.3
25.00	23.56	3V2503	SF	C3	7/16	1/4	2	1/16	45.0	3V2504	SF	C3	1/16	5/8	2	1/32	58.3
33.50	31.94	3V3353	SF	C3	7/16	1/4	2	1/16	73.8	3V3354	E	C3	13/32	1/2	2-5/8	5/16	106.3

◆ P.D. = O.D. † Recommended for use with Narrow Cog belts only.
Weights for all Sure-Grip bushed items are approximate and include the bushing.

Stock Narrow (Ultra-V) Sheaves 3V

Dimensions

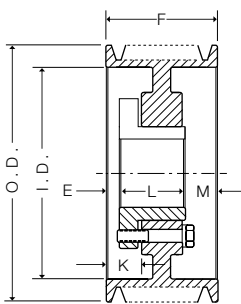
DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	5 GROOVE							Product No.	6 GROOVE						
			F = 2-5/16								F = 2-23/32						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
4.75	3.44	3V4755	SDS	A1	3/16	13/16	1-5/16	13/16	5.7	3V4756	SK	E1	1-7/16	1/8	1-7/8	19/32	7.2
5.00	3.68	3V505	SDS	A1	3/16	13/16	1-5/16	13/16	6.2	3V506	SK	E1	1-7/16	1/8	1-7/8	19/32	8.0
5.30	4.00	3V535	SK	A1	7/32	15/16	1-7/8	7/32	8.2	3V536	SK	A1	19/32	1-5/16	1-7/8	1/4	8.9
5.60	4.31	3V565	SK	A1	7/32	15/16	1-7/8	7/32	9.1	3V566	SK	A1	19/32	1-5/16	1-7/8	1/4	9.8
6.00	4.69	3V605	SK	A1	7/32	15/16	1-7/8	7/32	10.5	3V606	SK	A1	19/32	1-5/16	1-7/8	1/4	11.2
6.50	5.25	3V655	SK	A1	7/32	15/16	1-7/8	7/32	12.1	3V656	SK	A1	19/32	1-5/16	1-7/8	1/4	12.9
6.90	5.62	3V695	SK	A1	7/32	15/16	1-7/8	7/32	13.6	3V696	SK	A1	19/32	1-5/16	1-7/8	1/4	14.5
8.00	6.63	3V805	SK	A2	7/32	15/16	1-7/8	7/32	13.6	3V806	SK	A2	5/32	7/8	1-7/8	11/16	14.7
10.60	9.25	3V1065	SK	A3	7/32	15/16	1-7/8	7/32	18.9	3V1066	SF	A3	3/16	7/8	2	17/32	22.1
14.00	12.62	3V1405	SF	A3	3/16	7/8	2	1/8	29.7	3V1406	SF	A3	3/16	7/8	2	17/32	31.9
19.00	17.62	3V1905	SF	A3	3/16	7/8	2	1/8	46.0	3V1906	E	B3	3/32	1	2-5/8	0	56.5
25.00	23.56	3V2505	E	C3	9/32	5/8	2-5/8	1/32	73.0	3V2506	E	B3	3/32	1	2-5/8	0	84.6
33.50	31.94	3V3355	E	C3	9/32	5/8	2-5/8	1/32	112.7	3V3356	E	B3	3/32	1	2-5/8	0	128.9

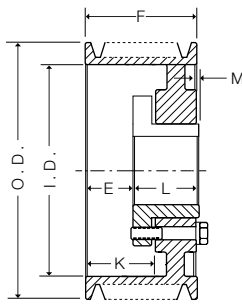
O.D. ◆	I.D.	Product No.	8 GROOVE							Product No.	10 GROOVE						
			F = 3-17/32								F = 4-11/32						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
4.75	3.88	3V4758	SK	E1	2-1/4	1/8	1-7/8	19/32	9.6	3V47510	SK	E1	3-1/16	1/8	1-7/8	19/32	9.6
5.00	3.88	3V508	SK	E1	2-1/4	1/8	1-7/8	19/32	9.3	3V5010	SK	E1	3-1/16	1/8	1-7/8	19/32	10.5
5.30	4.00	3V538	SK	A1	19/32	1-5/16	1-7/8	1-1/16	10.3	3V5310	SK	A1	23/32	1-7/16	1-7/8	1-3/4	11.6
5.60	4.31	3V568	SK	A1	19/32	1-5/16	1-7/8	1-1/16	11.3	3V5610	SK	A1	23/32	1-7/16	1-7/8	1-3/4	12.7
6.00	4.69	3V608	SK	A1	19/32	1-5/16	1-7/8	1-1/16	12.8	3V6010	SK	A1	23/32	1-7/16	1-7/8	1-3/4	14.4
6.50	5.25	3V658	SK	A1	19/32	1-5/16	1-7/8	1-1/16	14.6	3V6510	SK	A1	23/32	1-7/16	1-7/8	1-3/4	16.2
6.90	5.62	3V698	SK	A1	19/32	1-5/16	1-7/8	1-1/16	16.3	3V6910	SK	A1	23/32	1-7/16	1-7/8	1-3/4	18.1
8.00	6.68	3V808	SF	A1	7/16	1-1/8	2	1-3/32	22.0	3V8010	SF	A1	13/16	1-1/2	2	1-17/32	24.2
10.60	9.25	3V1068	SF	A3	7/16	1-1/8	2	1-3/32	25.2	3V10610	E	A2	11/32	1-1/4	2-5/8	1-3/8	40.1
14.00	12.62	3V1408	E	A3	11/32	1-1/4	2-5/8	9/16	50.3	3V14010	E	A3	11/32	1-1/4	2-5/8	1-3/8	54.7
19.00	17.62	3V1908	E	A3	11/32	1-1/4	2-5/8	9/16	68.4	3V19010	E	A3	11/32	1-1/4	2-5/8	1-3/8	77.6
25.00	23.56	3V2508	F	A3	11/32	1-1/4	2-5/8	9/16	99.3	3V25010	F	A3	1/4	1-5/16	3-5/8	15/32	126.2
33.50	31.94	3V3358	F	B3	0	1-1/16	3-5/8	3/32	154.7	3V33510	F	A3	1/4	1-5/16	3-5/8	15/32	188.4

◆ P.D. = O.D.

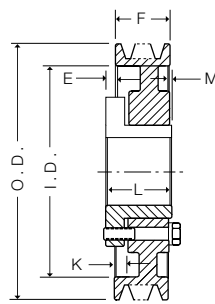
Weights for all Sure-Grip bushed items are approximate and include the bushing.



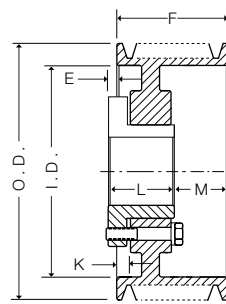
Type A



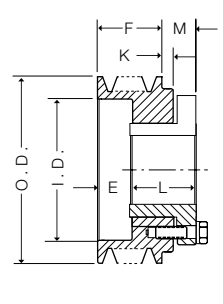
Type B



Type C



Type D



Type E

Stock Narrow (Ultra-V) Sheaves 5V

Dimensions

These sheaves are designed to carry the loads of all belts shown in this catalog and other similarly rated V-Belts. For special higher rated V-Belts, consult Wood's Engineering Department for recommendations.

The sheaves listed below are all stock sizes. The dimensions given are with the Sure-Grip bushings in place. When ordering, specify the bushing, if required, and the bore size. The figure following the letter in the "Type" column indicates the sheave construction: 1 – Solid, 2 – Web, 3 – Arms.

DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	2 GROOVE							Product No.	3 GROOVE						
			F = 1-11/16								F = 2-3/8						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
4.4 †	2.72	5V442	SH	A1	1/8	11/16	1-1/4	5/16	4.0	5V443	SDS	E1	1-11/16	0	1-5/16	5/8	5.2
4.65 †	2.94	5V4652	SDS	E1	13/16	3/16	1-5/16	7/16	4.3	5V4653	SDS	E1	1-11/16	0	1-5/16	5/8	5.8
4.9 †	3.25	5V492	SDS	A1	1/16	11/16	1-5/16	5/16	4.8	5V493	SDS	A1	7/16	1-1/16	1-5/16	5/8	6.3
5.2 †	3.50	5V522	SDS	A1	1/16	11/16	1-5/16	5/16	5.4	5V523	SDS	A1	7/16	1-1/16	1-5/16	5/8	6.6
5.5 †	3.69	5V552	SDS	A1	1/16	11/16	1-5/16	5/16	6.1	5V553	SDS	A1	7/16	1-1/16	1-5/16	5/8	7.4
5.9 †	4.18	5V592	SDS	A1	1/16	11/16	1-5/16	5/16	6.8	5V593	SDS	A1	7/16	1-1/16	1-5/16	5/8	8.3
6.3 †	4.56	5V632	SK	D1	9/32	7/16	1-7/8	3/32	10.7	5V633	SK	A1	11/32	1-1/16	1-7/8	5/32	11.2
6.7 †	4.94	5V672	SK	D1	9/32	7/16	1-7/8	3/32	11.0	5V673	SK	A1	11/32	1-1/16	1-7/8	5/32	13.8
7.1	5.31	5V712	SK	D1	9/32	7/16	1-7/8	3/32	13.4	5V713	SF	A1	5/16	1	2	1/16	14.8
7.5	5.62	5V752	SK	D1	9/32	7/16	1-7/8	3/32	14.0	5V753	SF	A1	5/16	1	2	1/16	16.6
8.0	6.12	5V802	SK	D1	9/32	7/16	1-7/8	3/32	15.9	5V803	SF	A1	5/16	1	2	1/16	18.7
8.5	6.62	5V852	SK	D2	9/32	7/16	1-7/8	3/32	14.2	5V853	SF	A1	5/16	1	2	1/16	21.0
9.0	7.12	5V902	SK	D2	9/32	7/16	1-7/8	3/32	16.4	5V903	SF	A1	5/16	1	2	1/16	23.3
9.25	7.44	5V9252	SK	D2	9/32	7/16	1-7/8	3/32	16.7	5V9253	SF	A2	5/16	1	2	1/16	20.4
9.75	7.94	5V9752	SK	D3	9/32	7/16	1-7/8	3/32	14.6	5V9753	SF	A2	5/16	1	2	1/16	22.7
10.3	8.50	5V1032	SK	D3	9/32	7/16	1-7/8	3/32	16.5	5V1033	SF	A2	5/16	1	2	1/16	26.1
10.9	9.12	5V1092	SK	D3	9/32	7/16	1-7/8	3/32	17.8	5V1093	SF	A2	5/16	1	2	1/16	26.7
11.3	9.38	5V1132	SK	D3	9/32	7/16	1-7/8	3/32	18.3	5V1133	SF	A3	5/16	1	2	1/16	25.7
11.8	9.94	5V1182	SK	D3	9/32	7/16	1-7/8	3/32	19.1	5V1183	SF	A3	5/16	1	2	1/16	26.7
12.5	10.62	5V1252	SF	C3	1/4	7/16	2	1/16	21.9	5V1253	F	C3	5/32	3/4	2-5/8	3/32	35.2
13.2	11.31	5V1322	SF	C3	1/4	7/16	2	1/16	24.7	5V1323	F	C3	5/32	3/4	2-5/8	3/32	37.1
14.0	12.12	5V1402	SF	C3	1/4	7/16	2	1/16	25.9	5V1403	F	C3	5/32	3/4	2-5/8	3/32	41.0
15.0	13.12	5V1502	SF	C3	1/4	7/16	2	1/16	27.7	5V1503	F	C3	5/32	3/4	2-5/8	3/32	42.6
16.0	14.12	5V1602	SF	C3	1/4	7/16	2	1/16	30.1	5V1603	F	C3	5/32	3/4	2-5/8	3/32	45.1
18.7	16.75	5V1872	SF	C3	1/4	7/16	2	1/16	40.0	5V1873	F	C3	5/32	3/4	2-5/8	3/32	54.4
21.2	19.25	5V2122	SF	C3	1/4	7/16	2	1/16	45.0	5V2123	F	C3	5/32	3/4	2-5/8	3/32	63.0
23.6	21.62	5V2362	F	C3	5/32	3/4	2-5/8	25/32	61.7	5V2363	F	C3	5/32	3/4	2-5/8	3/32	76.0
28.0	26.00	5V2802	F	C3	5/32	3/4	2-5/8	25/32	77.5	5V2803	F	C3	5/32	3/4	2-5/8	3/32	103.6
31.5	29.50	-	-	-	-	-	-	-	-	5V3153	F	C3	1/2	9/16	3-5/8	3/4	128.4
37.5	35.25	-	-	-	-	-	-	-	-	5V3753	F	C3	1/2	9/16	3-5/8	3/4	161.9
50.0	47.38	-	-	-	-	-	-	-	-	5V5003	F	C3	1/2	9/16	3-5/8	3/4	240.0

O.D. ◆	I.D.	Product No.	4 GROOVE							Product No.	5 GROOVE						
			F = 3-1/16								F = 3-3/4						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
4.4 †	2.70	5V444	SD	E1	1-7/8	0	1-13/16	5/8	6.4	5V445	SD	E1	2-9/16	0	1-13/16	5/8	7.3
4.65 †	2.94	5V4654	SD	E1	1-7/8	0	1-13/16	5/8	7.1	5V4655	SD	E1	2-9/16	0	1-13/16	5/8	8.1
4.9 †	3.25	5V494	SD	A1	11/16	1-5/16	1-13/16	9/16	7.7	5V495	SD	A1	11/16	1-5/16	1-13/16	1-1/4	8.7
5.2 †	3.50	5V524	SD	A1	11/16	1-5/16	1-13/16	9/16	8.7	5V525	SD	A1	11/16	1-5/16	1-13/16	1-1/4	9.9
5.5 †	3.75	5V554	SD	A1	11/16	1-5/16	1-13/16	9/16	9.8	5V555	SD	A1	11/16	1-5/16	1-13/16	1-1/4	11.1
5.9 †	4.18	5V594	SD	A1	11/16	1-5/16	1-13/16	9/16	11.1	5V595	SK	A1	19/32	1-5/16	1-7/8	1-9/32	12.6
6.3 †	4.56	5V634	SK	A1	19/32	1-5/16	1-7/8	19/32	12.7	5V635	SK	A1	19/32	1-5/16	1-7/8	1-9/32	14.3
6.7 †	4.94	5V674	SK	A1	19/32	1-5/16	1-7/8	19/32	14.3	5V675	SF	A1	5/8	1-5/16	2	1-1/8	16.6
7.1	5.31	5V714	SF	A1	3/8	1-1/16	2	11/16	16.6	5V715	SF	A1	11/16	1-3/8	2	1-1/16	19.9
7.5	5.62	5V754	SF	A1	3/8	1-1/16	2	11/16	18.7	5V755	SF	A1	11/16	1-3/8	2	1-1/16	20.8
8.0	6.12	5V804	E	B1	17/32	1-7/16	2-5/8	3/32	25.5	5V805	E	A1	27/32	1-3/4	2-5/8	9/32	27.8
8.5	6.62	5V854	E	B1	17/32	1-7/16	2-5/8	3/32	28.4	5V855	E	A1	27/32	1-3/4	2-5/8	9/32	30.8
9.0	7.12	5V904	E	B1	17/32	1-7/16	2-5/8	3/32	31.5	5V905	E	A1	27/32	1-3/4	2-5/8	9/32	34.1
9.25	7.44	5V9254	E	B1	17/32	1-7/16	2-5/8	3/32	32.8	5V9255	E	A1	27/32	1-3/4	2-5/8	9/32	35.4
9.75	7.94	5V9754	E	B2	17/32	1-7/16	2-5/8	3/32	38.0	5V9755	E	A2	27/32	1-3/4	2-5/8	9/32	38.8
10.3	8.50	5V1034	E	B2	17/32	1-7/16	2-5/8	3/32	33.9	5V1035	E	A2	27/32	1-3/4	2-5/8	9/32	37.3
10.9	9.12	5V1094	E	B2	17/32	1-7/16	2-5/8	3/32	36.0	5V1095	E	A2	27/32	1-3/4	2-5/8	9/32	39.5
11.3	9.38	5V1134	E	B2	17/32	1-7/16	2-5/8	3/32	40.0	5V1135	E	A2	27/32	1-3/4	2-5/8	9/32	43.6
11.8	9.94	5V1184	E	B2	17/32	1-7/16	2-5/8	3/32	42.7	5V1185	E	A2	27/32	1-3/4	2-5/8	9/32	45.4
12.5	10.62	5V1254	E	B3	17/32	1-7/16	2-5/8	3/32	42.5	5V1255	E	A3	27/32	1-3/4	2-5/8	9/32	44.4
13.2	11.31	5V1324	E	B3	17/32	1-7/16	2-5/8	3/32	45.0	5V1325	E	A3	27/32	1-3/4	2-5/8	9/32	46.8
14.0	12.12	5V1404	E	B3	17/32	1-7/16	2-5/8	3/32	47.0	5V1405	E	A3	27/32	1-3/4	2-5/8	9/32	52.0
15.0	13.12	5V1504	E	B3	17/32	1-7/16	2-5/8	3/32	47.7	5V1505	E	A3	27/32	1-3/4	2-5/8	9/32	53.9
16.0	14.12	5V1604	E	B3	17/32	1-7/16	2-5/8	3/32	51.0	5V1605	E	A3	27/32	1-3/4	2-5/8	9/32	57.4
18.7	16.75	5V1874	E	A3	11/32	1-1/4	2-5/8	3/32	63.0	5V1875	F	B3	1/4	1-5/16	3-5/8	1/8	86.9
21.2	19.25	5V2124	F	A3	11/32	1-1/4	2-5/8	3/32	75.0	5V2125	F	B3	1/4	1-5/16	3-5/8	1/8	97.3
23.6	21.62	5V2364	F	C3	3/16	7/8	3-5/8	3/8	98.2	5V2365	F	B3	1/4	1-5/16	3-5/8	1/8	111.9
28.0	26.00	5V2804	F	C3	3/16	7/8	3-5/8	3/8	125.5	5V2805	F	B3	1/4	1-5/16	3-5/8	1/8	143.1
31.5	29.50	5V3154	F	C3	3/16	7/8	3-5/8	3/8	141.6	5V3155	J	C3	1/4	1	4-1/2	1/2	174.6
37.5	35.25	5V3754	F	C3	3/16	7/8	3-5/8	3/8	192.2	5V3755	J	C3	1/4	1	4-1/2	1/2	237.5
50.0	47.38	5V5004	J	C3	9/16	11/16	4-1/2	7/8	290.0	5V5005	J	C3	1/4	1	4-1/2	1/2	330.0

◆ P.D. = O.D. † Recommended for use with 5VX Narrow Cog belts only.
Weights for all Sure-Grip bushed items are approximate and include the bushing.

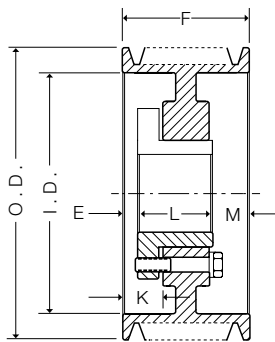
Stock Narrow (Ultra-V) Sheaves 5V

Dimensions

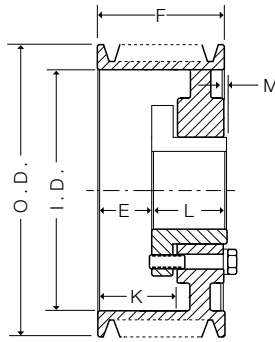
DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	6 GROOVE							Product No.	7 GROOVE						
			F = 4-7/16								F = 5-1/8						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
4.4 †	2.70	5V446	SD	E1	3-1/4	0	1-13/16	5/8	8.3	-	-	-	-	-	-	-	-
4.65 †	2.94	5V4656	SD	E1	3-1/4	0	1-13/16	5/8	8.3	-	-	-	-	-	-	-	-
4.9 †	3.25	5V496	SD	A1	11/16	1-5/16	1-13/16	1-15/16	10.3	-	-	-	-	-	-	-	-
5.2 †	3.50	5V526	SD	A1	11/16	1-5/16	1-13/16	1-15/16	11.1	-	-	-	-	-	-	-	-
5.5 †	3.75	5V556	SD	A1	11/16	1-5/16	1-13/16	1-15/16	12.4	-	-	-	-	-	-	-	-
5.9 †	4.18	5V596	SK	A1	19/32	1-5/16	1-7/8	1-31/32	14.0	-	-	-	-	-	-	-	-
6.3 †	4.56	5V636	SK	A1	19/32	1-5/16	1-7/8	1-31/32	15.8	-	-	-	-	-	-	-	-
6.7 †	4.99	5V676	SF	A1	15/16	1-5/8	2	1-1/2	18.3	-	-	-	-	-	-	-	-
7.1	5.31	5V716	SF	A1	15/16	1-5/8	2	1-1/2	20.3	5V717	SF	A1	15/16	1-5/8	2	2-3/16	22.1
7.5	5.62	5V756	SF	A1	15/16	1-5/8	2	1-1/2	22.9	5V757	SF	A1	15/16	1-5/8	2	2-3/16	25.0
8.0	6.12	5V806	E	A1	1-3/32	2	2-5/8	23/32	30.1	5V807	E	A1	1-3/32	2	2-5/8	1-13/32	32.3
8.5	6.62	5V856	E	A1	1-3/32	2	2-5/8	23/32	30.3	5V857	E	A1	1-3/32	2	2-5/8	1-13/32	35.7
9.0	7.12	5V906	E	A1	1-3/32	2	2-5/8	23/32	36.7	5V907	E	A1	1-3/32	2	2-5/8	1-13/32	39.3
9.25	7.44	5V9256	E	A1	1-3/32	2	2-5/8	23/32	37.9	5V9257	E	A1	1-3/32	2	2-5/8	1-13/32	40.4
9.75	7.94	5V9756	E	A1	1-3/32	2	2-5/8	23/32	41.5	5V9757	E	A1	1-3/32	2	2-5/8	1-13/32	44.1
10.3	8.50	5V1036	E	A2	1-3/32	2	2-5/8	23/32	40.6	5V1037	F	B1	1-1/2	2-9/16	3-5/8	0	60.5
10.9	9.12	5V1096	E	A2	1-3/32	2	2-5/8	23/32	45.8	5V1097	F	B1	1-1/2	2-9/16	3-5/8	0	67.1
11.3	9.38	5V1136	E	A2	1-3/32	2	2-5/8	23/32	47.8	5V1137	F	B1	1-1/2	2-9/16	3-5/8	0	73.3
11.8	9.94	5V1186	E	A2	1-3/32	2	2-5/8	23/32	50.4	5V1187	F	B2	1-1/2	2-9/16	3-5/8	0	64.3
12.5	10.62	5V1256	F	B2	1	2-1/16	3-5/8	3/16	65.1	5V1257	F	B2	1-1/2	2-9/16	3-5/8	0	69.0
13.2	11.31	5V1326	F	B2	1	2-1/16	3-5/8	3/16	69.6	5V1327	F	B2	1-1/2	2-9/16	3-5/8	0	73.8
14.0	12.12	5V1406	F	B2	1	2-1/16	3-5/8	3/16	74.6	5V1407	F	B2	1-1/2	2-9/16	3-5/8	0	79.1
15.0	13.12	5V1506	F	B3	1	2-1/16	3-5/8	3/16	72.1	5V1507	F	B3	1-1/2	2-9/16	3-5/8	0	76.9
16.0	14.12	5V1606	F	B3	1	2-1/16	3-5/8	3/16	76.4	5V1607	F	B3	1-1/2	2-9/16	3-5/8	0	82.5
18.7	16.75	5V1876	F	A3	1/4	1-5/16	3-5/8	9/16	93.3	5V1877	F	A3	1/4	1-5/16	3-5/8	1-1/4	99.6
21.2	19.25	5V2126	F	A3	1/4	1-5/16	3-5/8	9/16	106.5	5V2127	J	A3	1/16	1-5/16	4-1/2	9/16	131.2
23.6	21.62	5V2366	J	B3	1/16	1-5/16	4-1/2	1/8	133.4	5V2367	J	A3	1/16	1-5/16	4-1/2	9/16	141.7
28.0	26.00	5V2806	J	B3	1/16	1-5/16	4-1/2	1/8	169.1	5V2807	J	A3	1/16	1-5/16	4-1/2	9/16	181.0
31.5	29.50	5V3156	J	B3	1/16	1-5/16	4-1/2	1/8	198.1	5V3157	J	A3	1/16	1-5/16	4-1/2	9/16	212.1
37.5	35.25	5V3756	J	B3	1/16	1-5/16	4-1/2	1/8	253.8	5V3757	M	B3	15/32	1-15/16	6-3/4	2-3/32	349.6
50.0	47.38	5V5006	M	C3	31/32	1/2	6-3/4	1-11/32	472.1	5V5007	M	C3	31/32	1/2	6-3/4	21/32	465.0

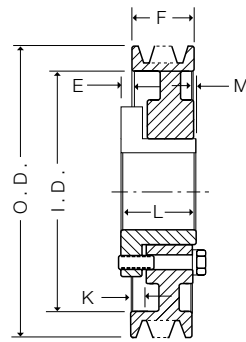
◆P.D. = O.D. † Recommended for use with 5VX Narrow Cog belts only.
Weights for all Sure-Grip bushed items are approximate and include the bushing.



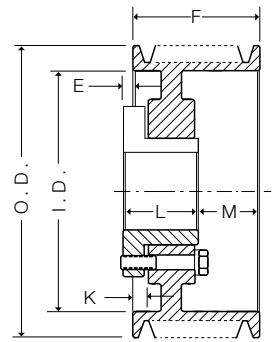
Type A



Type B



Type C



Type D

Stock Narrow (Ultra-V) Sheaves 5V

Dimensions

DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	8 GROOVE							Product No.	9 GROOVE						
			F = 5-13/16								F = 6-1/2						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
7.1	5.31	5V718	SF	A1	1-7/16	2-1/8	2	2-3/8	24.0	-	-	-	-	-	-	-	-
7.5	5.62	5V758	SF	A1	1-7/16	2-1/8	2	2-3/8	27.1	-	-	-	-	-	-	-	-
8.0	6.12	5V808	E	A1	1-19/32	2-1/2	2-5/8	1-19/32	34.6	5V809	E	A1	1-19/32	2-1/2	2-5/8	2-9/32	36.9
8.5	6.62	5V858	E	A1	1-19/32	2-1/2	2-5/8	1-19/32	38.2	5V859	E	A1	1-19/32	2-1/2	2-5/8	2-9/32	40.6
9.0	7.12	5V908	E	A1	1-19/32	2-1/2	2-5/8	1-19/32	41.9	5V909	E	A1	1-19/32	2-1/2	2-5/8	2-9/32	44.5
9.25	7.44	5V9258	F	A1	1-1/2	2-9/16	3-5/8	11/16	51.7	5V9259	F	A1	1-1/2	2-9/16	3-5/8	1-3/8	54.2
9.75	7.94	5V9758	F	A1	1-1/2	2-9/16	3-5/8	11/16	57.0	5V9759	F	A1	1-1/2	2-9/16	3-5/8	1-3/8	59.7
10.3	8.50	5V1038	F	A1	1-1/2	2-9/16	3-5/8	11/16	63.4	5V1039	F	A1	1-1/2	2-9/16	3-5/8	1-3/8	66.3
10.9	9.12	5V1098	F	A1	1-1/2	2-9/16	3-5/8	11/16	70.2	5V1099	F	A1	1-1/2	2-9/16	3-5/8	1-3/8	73.3
11.3	9.38	5V1138	F	A1	1-1/2	2-9/16	3-5/8	11/16	76.9	5V1139	F	A1	1-1/2	2-9/16	3-5/8	1-3/8	80.5
11.8	9.94	5V1188	F	A2	1-1/2	2-9/16	3-5/8	11/16	67.9	5V1189	F	A2	1-1/2	2-9/16	3-5/8	1-3/8	71.4
12.5	10.62	5V1258	F	A2	1-1/2	2-9/16	3-5/8	11/16	72.8	5V1259	F	A2	1-1/2	2-9/16	3-5/8	1-3/8	76.8
13.2	11.31	5V1328	F	A2	1-1/2	2-9/16	3-5/8	11/16	77.9	5V1329	F	A2	1-1/2	2-9/16	3-5/8	1-3/8	83.9
14.0	12.12	5V1408	F	A2	1-1/2	2-9/16	3-5/8	11/16	83.3	5V1409	F	A2	1-1/2	2-9/16	3-5/8	1-3/8	90.2
15.0	13.12	5V1508	F	A3	1-1/2	2-9/16	3-5/8	11/16	81.5	5V1509	J	B2	2-5/16	3-9/16	4-1/2	5/16	109.5
16.0	14.12	5V1608	F	A3	1-1/2	2-9/16	3-5/8	11/16	87.4	5V1609	J	B3	2-5/16	3-9/16	4-1/2	5/16	109.0
18.7	16.75	5V1878	J	A3	5/16	1-9/16	4-1/2	1	124.6	5V1879	J	A3	5/16	1-9/16	4-1/2	1-11/16	128.6
21.2	19.25	5V2128	J	A3	5/16	1-9/16	4-1/2	1	138.9	5V2129	J	A3	5/16	1-9/16	4-1/2	1-11/16	146.0
23.6	21.62	5V2368	J	A3	5/16	1-9/16	4-1/2	1	154.6	5V2369	J	A3	5/16	1-9/16	4-1/2	1-11/16	165.1
28.0	26.00	5V2808	J	A3	5/16	1-9/16	4-1/2	1	191.0	5V2809	M	B3	15/32	1-15/16	6-3/4	23/32	273.7
31.5	29.50	5V3158	M	B3	15/32	1-15/16	6-3/4	1-13/32	295.7	5V3159	M	B3	15/32	1-15/16	6-3/4	23/32	316.0
37.5	35.25	5V3758	M	B3	15/32	1-15/16	6-3/4	1-13/32	366.2	5V3759	M	B3	15/32	1-15/16	6-3/4	23/32	398.5
50.0	47.38	5V5008	M	B3	15/32	1-15/16	6-3/4	1-13/32	540.0	5V5009	M	B3	15/32	1-15/16	6-3/4	23/32	580.1

O.D. ◆	I.D.	Product No.	10 GROOVE						
			F = 7-3/16						
			Bush.	Type	E	K	L	M	Wt.
8.0	6.12	5V8010	E	A1	2-11/32	3-1/4	2-5/8	2-7/32	39.1
8.5	6.62	5V8510	E	A1	2-11/32	3-1/4	2-5/8	2-7/32	43.0
9.0	7.12	5V9010	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	54.9
9.25	7.38	5V92510	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	59.1
9.75	7.94	5V97510	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	62.4
10.3	8.50	5V10310	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	69.2
10.9	9.12	5V10910	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	76.3
11.3	9.38	5V11310	F	A1	2-1/4	3-5/16	3-5/8	1-5/16	84.0
11.8	9.94	5V11810	F	A2	2-1/4	3-5/16	3-5/8	1-5/16	75.0
12.5	10.62	5V12510	J	A2	2-5/16	3-9/16	4-1/2	3/8	92.9
13.2	11.31	5V13210	J	A2	2-5/16	3-9/16	4-1/2	3/8	99.0
14.0	12.12	5V14010	J	A2	2-5/16	3-9/16	4-1/2	3/8	105.4
15.0	13.12	5V15010	J	A2	2-5/16	3-9/16	4-1/2	3/8	99.0
16.0	14.12	5V16010	J	A3	2-5/16	3-9/16	4-1/2	3/8	114.1
18.7	16.75	5V18710	J	A3	5/16	1-9/16	4-1/2	2-3/8	136.4
21.2	19.25	5V21210	J	A3	5/16	1-9/16	4-1/2	2-3/8	159.4
23.6	21.62	5V23610	M	B3	15/32	1-15/16	6-3/4	1/32	245.8
28.0	26.00	5V28010	M	B3	15/32	1-15/16	6-3/4	1/32	293.0
31.5	29.50	5V31510	M	B3	15/32	1-15/16	6-3/4	1/32	329.1
37.5	35.25	5V37510	M	B3	15/32	1-15/16	6-3/4	1/32	421.0
50.0	47.38	5V50010	M	B3	15/32	1-15/16	6-3/4	1/32	637.1

◆ P.D. = O.D.

Weights for all Sure-Grip bushed items are approximate and include the bushing.

Stock Narrow (Ultra-V) Sheaves 8V

Dimensions

These sheaves are designed to carry the loads of all belts shown in this catalog and other similarly rated V-Belts. For special higher rated V-Belts, consult TB Wood's Engineering Department for recommendations.

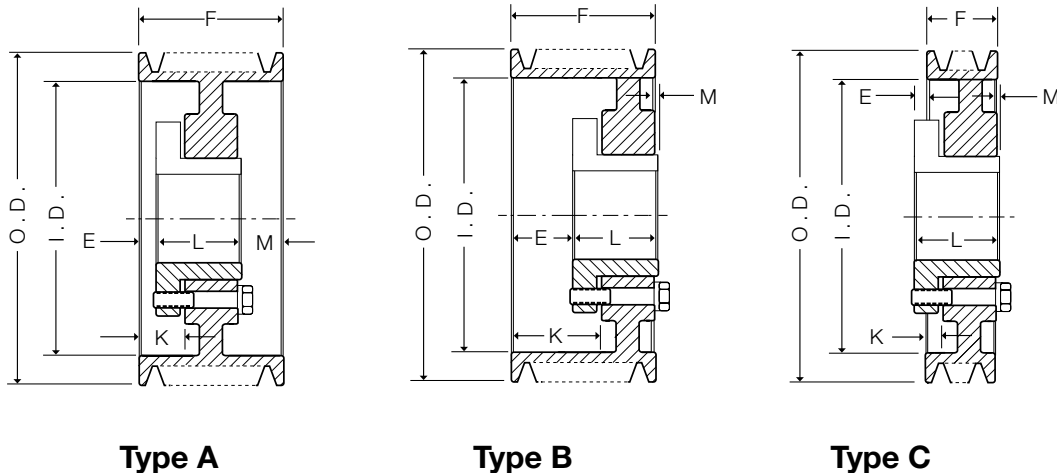
The sheaves listed below are all stock sizes. The dimensions given are with the Sure-Grip bushings in place. When ordering, specify the bushing, if required, and the bore size. The figure following the letter in the "Type" column indicates the sheave construction: 1 - Solid, 2 - Web, 3 - Arms.

DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	4 GROOVE							Product No.	5 GROOVE						
			F = 4-7/8								F = 6						
			Bush.	Type	E	K	L	M	Wt.		Bush.	Type	E	K	L	M	Wt.
12.5	9.75	8V1254	F	A1	1/8	1-3/16	3-5/8	1-1/8	85.5	8V1255	F	A1	1-1/4	2-5/16	3-5/8	1-1/8	93.3
13.2	10.44	8V1324	F	A2	1/8	1-3/16	3-5/8	1-1/8	78.4	8V1325	F	A2	1-1/4	2-5/16	3-5/8	1-1/8	88.2
14.0	11.25	8V1404	F	A2	1/8	1-3/16	3-5/8	1-1/8	84.5	8V1405	F	A2	1-1/4	2-5/16	3-5/8	1-1/8	95.2
15.0	12.25	8V1504	F	A2	1/8	1-3/16	3-5/8	1-1/8	92.6	8V1505	F	A2	1-1/4	2-5/16	3-5/8	1-1/8	108.0
16.0	13.25	8V1604	F	A2	1/8	1-3/16	3-5/8	1-1/8	98.8	8V1605	F	A2	1-1/4	2-5/16	3-5/8	1-1/8	112.1
17.0	14.25	8V1704	F	A2	1/8	1-3/16	3-5/8	1-1/8	109.4	8V1705	J	A2	3/4	2	4-1/2	3/4	141.0
18.0	15.25	8V1804	F	A2	1/8	1-3/16	3-5/8	1-1/8	118.1	8V1805	J	A2	3/4	2	4-1/2	3/4	157.0
19.0	16.25	8V1904	F	A2	1/8	1-3/16	3-5/8	1-1/8	128.3	8V1905	J	A2	3/4	2	4-1/2	3/4	169.0
20.0	17.25	8V2004	J	A3	3/16	1-7/16	4-1/2	3/16	128.3	8V2005	J	A2	3/4	2	4-1/2	3/4	167.5
21.2	18.44	8V2124	J	A3	3/16	1-7/16	4-1/2	3/16	142.8	8V2125	J	A2	3/4	2	4-1/2	3/4	183.8
22.4	19.62	8V2244	J	A3	3/16	1-7/16	4-1/2	3/16	154.2	8V2245	M	B2	15/32	1-15/16	6-3/4	1-7/32	262.0
24.8	21.90	8V2484	M	C3	21/32	13/16	6-3/4	1-7/32	247.5	8V2485	M	B3	15/32	1-15/16	6-3/4	1-7/32	266.5
30.0	27.12	8V3004	M	C3	21/32	13/16	6-3/4	1-7/32	286.7	8V3005	M	B3	15/32	1-15/16	6-3/4	1-7/32	327.6
35.5	32.50	8V3554	M	C3	21/32	13/16	6-3/4	1-7/32	342.0	8V3555	M	B3	15/32	1-15/16	6-3/4	1-7/32	404.0
40.0	37.00	8V4004	M	C3	21/32	13/16	6-3/4	1-7/32	407.6	8V4005	M	B3	15/32	1-15/16	6-3/4	1-7/32	441.0
44.5	41.60	8V4454	M	C3	21/32	13/16	6-3/4	1-7/32	461.0	8V4455	N	C3	3/4	15/16	8-1/8	1-3/8	580.5
53.0	49.81	8V5304	M	C3	21/32	13/16	6-3/4	1-7/32	557.0	8V5305	N	C3	3/4	15/16	8-1/8	1-3/8	688.0

◆ P.D. = O.D.

Weights for all Sure-Grip bushed items are approximate and include the bushing.



Stock Narrow (Ultra-V) Sheaves 8V

Dimensions

DIMENSIONS (In Inches)

O.D. ◆	I.D.	Product No.	6 GROOVE								Product No.	8 GROOVE						
			F = 7-1/8									F = 9-3/8						
			Bush.	Type	E	K	L	M	Wt.	Bush.		Type	E	K	L	M	Wt.	
12.5	9.75	8V1256	F	A1	1-1/4	2-5/16	3-5/8	2-1/4	100.9	8V1258	J	A1	2-5/16	3-9/16	4-1/2	2-9/16	129.1	
13.2	10.44	8V1326	F	A2	1-1/4	2-5/16	3-5/8	2-1/4	96.6	8V1328	J	A1	2-5/16	3-9/16	4-1/2	2-9/16	144.5	
14.0	11.25	8V1406	F	A2	1-1/4	2-5/16	3-5/8	2-1/4	104.1	8V1408	J	A2	2-5/16	3-9/16	4-1/2	2-9/16	136.6	
15.0	12.25	8V1506	J	A2	1-5/16	2-9/16	4-1/2	1-5/16	133.0	8V1508	J	A2	2-5/16	3-9/16	4-1/2	2-9/16	146.5	
16.0	13.25	8V1606	J	A2	1-5/16	2-9/16	4-1/2	1-5/16	143.5	8V1608	J	A2	2-5/16	3-9/16	4-1/2	2-9/16	164.5	
17.0	14.25	8V1706	J	A2	1-5/16	2-9/16	4-1/2	1-5/16	153.0	8V1708	M	A2	2-15/32	3-15/16	6-3/4	5/32	244.1	
18.0	15.25	8V1806	J	A2	1-5/16	2-9/16	4-1/2	1-5/16	169.0	8V1808	M	A2	2-15/32	3-15/16	6-3/4	5/32	257.0	
19.0	16.25	8V1906	J	A2	1-5/16	2-9/16	4-1/2	1-5/16	182.0	8V1908	M	A2	2-15/32	3-15/16	6-3/4	5/32	280.0	
20.0	17.25	8V2006	M	B2	1-15/32	2-15/16	6-3/4	1-3/32	242.8	8V2008	M	A2	2-15/32	3-15/16	6-3/4	5/32	292.6	
21.2	18.44	8V2126	M	B2	1-15/32	2-15/16	6-3/4	1-3/32	263.3	8V2128	M	A2	2-15/32	3-15/16	6-3/4	5/32	314.0	
22.4	19.62	8V2246	M	B2	1-15/32	2-15/16	6-3/4	1-3/32	280.9	8V2248	M	A2	2-15/32	3-15/16	6-3/4	5/32	338.0	
24.8	21.90	8V2486	M	B3	15/32	1-15/16	6-3/4	3/32	285.5	8V2488	N	A3	9/16	2-1/4	8-1/8	11/16	377.0	
30.0	27.12	8V3006	M	B3	15/32	1-15/16	6-3/4	3/32	354.4	8V3008	N	A3	9/16	2-1/4	8-1/8	11/16	468.9	
35.5	32.50	8V3556	N	C3	9/16	1-1/8	8-1/8	7/16	537.0	8V3558	N	A3	9/16	2-1/4	8-1/8	11/16	588.0	
40.0	37.00	8V4006	N	C3	9/16	1-1/8	8-1/8	7/16	549.9	8V4008	N	A3	9/16	2-1/4	8-1/8	11/16	663.0	
44.5	41.60	8V4456	N	C3	9/16	1-1/8	8-1/8	7/16	619.5	8V4458	P	B3	3/4	2-5/8	9-3/8	3/4	860.0	
53.0	49.81	8V5306	N	C3	9/16	1-1/8	8-1/8	7/16	768.0	8V5308	P	B3	3/4	2-5/8	9-3/8	3/4	992.0	
63.0	59.69	8V6306	P	B3	1/8	2	9-3/8	2-3/8	1027.0	8V6308	P	B3	3/4	2-5/8	9-3/8	3/4	1262.0	
71.0	67.70	8V7106	P	B3	1/8	2	9-3/8	2-3/8	1200.0	8V7108	W	B3	0	2-1/4	11-3/8	2	1725.0	

O.D. ◆	I.D.	Product No.	10 GROOVE								Product No.	12 GROOVE						
			F = 11-5/8									F = 13-7/8						
			Bush.	Type	E	K	L	M	Wt.	Bush.		Type	E	K	L	M	Wt.	
12.5	9.75	8V12510	J	A1	2-5/16	3-9/16	4-1/2	4-13/16	148.9	8V12512	M	A1	2-15/32	3-15/16	6-3/4	4-21/32	198.0	
13.2	10.44	8V13210	J	A1	2-5/16	3-9/16	4-1/2	4-13/16	148.6	8V13212	M	A1	2-15/32	3-15/16	6-3/4	4-21/32	225.0	
14.0	11.25	8V14010	J	A1	2-5/16	3-9/16	4-1/2	4-13/16	161.0	8V14012	M	A1	2-15/32	3-15/16	6-3/4	4-21/32	245.8	
15.0	12.25	8V15010	M	A1	2-15/32	3-15/16	6-3/4	2-13/32	264.0	8V15012	M	A1	2-15/32	3-15/16	6-3/4	4-21/32	285.0	
16.0	13.25	8V16010	M	A1	2-15/32	3-15/16	6-3/4	2-13/32	296.7	8V16012	M	A1	2-15/32	3-15/16	6-3/4	4-21/32	324.0	
17.0	14.25	8V17010	M	A2	2-15/32	3-15/16	6-3/4	2-13/32	269.1	8V17012	M	A2	2-15/32	3-15/16	6-3/4	4-21/32	324.0	
18.0	15.25	8V18010	M	A2	2-15/32	3-15/16	6-3/4	2-13/32	295.0	8V18012	M	A2	2-15/32	3-15/16	6-3/4	4-21/32	338.0	
19.0	16.25	8V19010	M	A2	2-15/32	3-15/16	6-3/4	2-13/32	318.0	8V19012	N	A2	9/16	2-1/4	8-1/8	5-3/16	412.0	
20.0	17.25	8V20010	M	A2	2-15/32	3-15/16	6-3/4	2-13/32	318.6	8V20012	N	A2	9/16	2-1/4	8-1/8	5-3/16	411.0	
21.2	18.44	8V21210	M	A2	2-15/32	3-15/16	6-3/4	2-13/32	340.7	8V21212	N	A2	9/16	2-1/4	8-1/8	5-3/16	421.0	
22.4	19.62	8V22410	N	A2	9/16	2-1/4	8-1/8	2-15/16	411.1	8V22412	N	A2	9/16	2-1/4	8-1/8	5-3/16	478.0	
24.8	21.90	8V24810	N	A2	9/16	2-1/4	8-1/8	2-15/16	463.0	8V24812	N	A2	9/16	2-1/4	8-1/8	5-3/16	516.5	
30.0	27.12	8V30010	N	A3	9/16	2-1/4	8-1/8	2-15/16	557.5	8V30012	P	A3	3/4	2-5/8	9-3/8	3-3/4	672.1	
35.5	32.50	8V35510	P	A3	3/4	2-5/8	9-3/8	1-1/2	727.0	8V35512	P	A3	3/4	2-5/8	9-3/8	3-3/4	837.0	
40.0	37.00	8V40010	P	A3	3/4	2-5/8	9-3/8	1-1/2	817.9	8V40012	P	A3	3/4	2-5/8	9-3/8	3-3/4	909.5	
44.5	41.60	8V44510	P	A3	3/4	2-5/8	9-3/8	1-1/2	927.0	8V44512	P	A3	3/4	2-5/8	9-3/8	3-3/4	1097.0	
53.0	49.81	8V53010	P	A3	3/4	2-5/8	9-3/8	1-1/2	1137.0	8V53012	W	A3	5/8	2-7/8	11-3/8	1-7/8	1482.0	
63.0	59.69	8V63010	W	B3	3/8	2-5/8	11-3/8	1/8	1652.0	8V63012	W	A3	5/8	2-7/8	11-3/8	1-7/8	1777.0	
71.0	67.70	8V71010	W	B3	3/8	2-5/8	11-3/8	1/8	1865.0	8V71012	W	A3	5/8	2-7/8	11-3/8	1-7/8	2180.0	

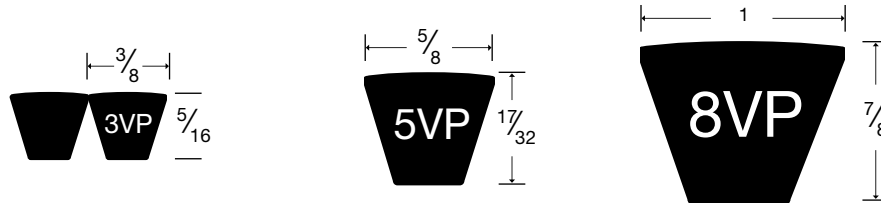
◆ P.D. = O.D.

Weights for all Sure-Grip bushed items are approximate and include the bushing.

Narrow (Premium-V) V-Belt

Features

Narrow Premium-V belts have the highest power density of any V-belt, and stretch dramatically less than standard cross sections. That's why they're ideal for use on problem drives requiring high-impact strength and load-carrying power. Wood's **Narrow Premium V-belts** have the same cross section dimensions as the corresponding Wood's Narrow Ultra-V belts and they meet RMA oil and heat resistance standards.



All Premium-V Belts are constructed with:

Kevlar* or aramid tensile cords

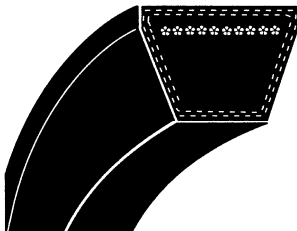
Give extraordinary strength, durability and virtually zero stretch

Specially-treated extra tough cover

Withstands slip and shear forces at peak loads without generating excessive heat; fends off penetration by foreign materials

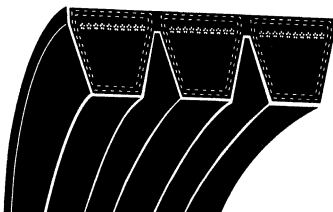
Heavy duty double fabric cover

Creates maximum abrasion resistance that protects against wear caused by fine airborne dust in rock quarries and lumber mills which can cause rapid belt sidewall wear resulting in early failures



Narrow (Premium-V) V-belts

For applications when Banded belts are not an option. Single belts are specially designed for use on deep groove sheaves and drives with limited room for "take up." Single belts should be length matched for multiple belt drives.



Narrow (Premium-V) Banded V-belts

Replaces several belts with the strength of a single belt. Banded belts feature a multiple layer band that provide excellent lateral rigidity to prevent belts from turning over from coming off of the drive section.

Warning: When incorporating TB Wood's Premium-V belts, it is important to evaluate the load capacity of Ultra-V sheaves. The exceptional strength of Premium-V belts, combined with tough application environments, may require extra heavy-duty sheaves that can meet the challenge. TB Wood's can design and manufacture a full array of sheaves to meet the specific needs of your application.

*Kevlar® is a registered trademark of Dupont™

Narrow (Premium-V) Belts

Dimensions

5VP Single Belts

Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.
5VP800	80.0	1.02	5VP1800	180.0	2.30
5VP850	85.0	1.08	5VP1900	190.0	2.42
5VP900	90.0	1.15	5VP2000	200.0	2.55
5VP950	95.0	1.21	5VP2120	212.0	2.70
5VP1000	100.0	1.28	5VP2240	224.0	2.86
5VP1060	106.0	1.35	5VP2360	236.0	3.01
5VP1120	112.0	1.43	5VP2.500	250.0	3.19
5VP1180	118.0	1.50	5VP2650	265.0	3.38
5VP1250	125.0	1.59	5VP2800	280.0	3.57
5VP1320	132.0	1.68	5VP3000	300.0	3.83
5VP1400	140.0	1.79	5VP3150	315.0	4.02
5VP1500	150.0	1.91	5VP3350	335.0	4.27
5VP1600	160.0	2.04	5VP3550	355.0	4.53
5VP1700	170.0	2.17			

8VP Single Belts

Product No.	Belt Length	Weight Lbs.
8VP1600	160.0	5.29
8VP1700	170.0	5.62
8VP1800	180.0	5.95
8VP1900	190.0	6.28
8VP2000	200.0	6.61
8VP2120	212.0	7.00
8VP2240	224.0	7.40
8VP2360	236.0	7.80
8VP2500	250.0	8.26
8VP2650	265.0	8.75
8VP2800	280.0	9.25
8VP3000	300.0	9.91
8VP3150	315.0	10.41
8VP3350	335.0	11.07
8VP3550	355.0	11.73

3VP Narrow (Premium-V) Banded Belts

Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.
2/3VP450	45	0.51	4/3VP600	60	1.37	2/3VP850	85	0.97	4/3VP1120	112	2.56
3/3VP450	45	0.77	5/3VP600	60	1.71	3/3VP850	85	1.46	5/3VP1120	112	3.20
4/3VP450	45	1.03	2/3VP630	63	0.72	4/3VP850	85	1.94	2/3VP1180	118	1.35
5/3VP450	45	1.29	3/3VP630	63	1.08	5/3VP850	85	2.43	3/3VP1180	118	2.02
2/3VP475	47.5	0.54	4/3VP630	63	1.44	2/3VP900	90	1.03	4/3VP1180	118	2.70
3/3VP475	47.5	0.81	5/3VP630	63	1.80	3/3VP900	90	1.54	5/3VP1180	118	3.37
4/3VP475	47.5	1.09	2/3VP670	67	0.77	4/3VP900	90	2.06	2/3VP1250	125	1.43
5/3VP475	47.5	1.36	3/3VP670	67	1.15	5/3VP900	90	2.57	3/3VP1250	125	2.14
2/3VP500	50	0.57	4/3VP670	67	1.53	2/3VP950	95	1.09	4/3VP1250	125	2.86
3/3VP500	50	0.86	5/3VP670	67	1.91	3/3VP950	95	1.63	5/3VP1250	125	3.57
4/3VP500	50	1.14	2/3VP710	71	0.81	4/3VP950	95	2.17	2/3VP1320	132	1.51
5/3VP500	50	1.43	3/3VP710	71	1.22	5/3VP950	95	2.71	3/3VP1320	132	2.26
2/3VP530	53	0.61	4/3VP710	71	1.62	2/3VP1000	100	1.14	4/3VP1320	132	3.02
3/3VP530	53	0.91	5/3VP710	71	2.03	3/3VP1000	100	1.71	5/3VP1320	132	3.77
4/3VP530	53	1.21	2/3VP750	75	0.86	4/3VP1000	100	2.28	2/3VP1400	140	1.60
5/3VP530	53	1.51	3/3VP750	75	1.29	5/3VP1000	100	2.86	3/3VP1400	140	2.40
2/3VP560	56	0.64	4/3VP750	75	1.71	2/3VP1060	106	1.21	4/3VP1400	140	3.20
3/3VP560	56	0.96	5/3VP750	75	2.14	3/3VP1060	106	1.82	5/3VP1400	140	4.00
4/3VP560	56	1.28	2/3VP800	80	0.91	4/3VP1060	106	2.42			
5/3VP560	56	1.60	3/3VP800	80	1.37	5/3VP1060	106	3.03			
2/3VP600	60	0.69	4/3VP800	80	1.83	2/3VP1120	112	1.28			
3/3VP600	60	1.03	5/3VP800	80	2.28	3/3VP1120	112	1.92			

Available up to 10 strands. 6-10 strands made to order.

Narrow (Premium-V) Belts

Dimensions

5VP Narrow (Premium-V) Banded Belts

Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.
2/5VP600	60	1.69	2/5VP950	95	2.68	2/5VP1600	160	4.52	2/5VP2500	250	7.06
3/5VP600	60	2.54	3/5VP950	95	4.02	3/5VP1600	160	6.77	3/5VP2500	250	10.58
4/5VP600	60	3.39	4/5VP950	95	5.36	4/5VP1600	160	9.03	4/5VP2500	250	14.11
5/5VP600	60	4.23	5/5VP950	95	6.70	5/5VP1600	160	11.29	5/5VP2500	250	17.64
2/5VP630	63	1.78	2/5VP1000	100	2.82	2/5VP1700	170	4.80	2/5VP2650	265	7.48
3/5VP630	63	2.67	3/5VP1000	100	4.23	3/5VP1700	170	7.20	3/5VP2650	265	11.22
4/5VP630	63	3.56	4/5VP1000	100	5.64	4/5VP1700	170	9.60	4/5VP2650	265	14.96
5/5VP630	63	4.45	5/5VP1000	100	7.06	5/5VP1700	170	11.99	5/5VP2650	265	18.7
2/5VP670	67	1.89	2/5VP1060	106	2.99	2/5VP1800	180	5.08	2/5VP2800	280	7.90
3/5VP670	67	2.84	3/5VP1060	106	4.49	3/5VP1800	180	7.62	3/5VP2800	280	11.85
4/5VP670	67	3.78	4/5VP1060	106	5.98	4/5VP1800	180	10.16	4/5VP2800	280	15.80
5/5VP670	67	4.73	5/5VP1060	106	7.48	5/5VP1800	180	12.70	5/5VP2800	280	19.76
2/5VP710	71	2.00	2/5VP1120	112	3.16	2/5VP1900	190	5.36	2/5VP3000	300	8.47
3/5VP710	71	3.01	3/5VP1120	112	4.74	3/5VP1900	190	8.04	3/5VP3000	300	12.7
4/5VP710	71	4.01	4/5VP1120	112	6.32	4/5VP1900	190	10.72	4/5VP3000	300	16.93
5/5VP710	71	5.01	5/5VP1120	112	7.90	5/5VP1900	190	13.40	5/5VP3000	300	21.17
2/5VP750	75	2.12	2/5VP1180	118	3.33	2/5VP2000	200	5.64	2/5VP3150	315	8.89
3/5VP750	75	3.18	3/5VP1180	118	5.00	3/5VP2000	200	8.47	3/5VP3150	315	13.34
4/5VP750	75	4.23	4/5VP1180	118	6.66	4/5VP2000	200	11.29	4/5VP3150	315	17.78
5/5VP750	75	5.29	5/5VP1180	118	8.33	5/5VP2000	200	14.11	5/5VP3150	315	22.23
2/5VP800	80	2.26	2/5VP1250	125	3.53	2/5VP2030	203	5.73	2/5VP3350	335	9.45
3/5VP800	80	3.39	3/5VP1250	125	5.29	3/5VP2030	203	8.59	3/5VP3350	335	14.18
4/5VP800	80	4.52	4/5VP1250	125	7.06	4/5VP2030	203	11.46	4/5VP3350	335	18.91
5/5VP800	80	5.64	5/5VP1250	125	8.82	5/5VP2030	203	14.32	5/5VP3350	335	23.64
2/5VP850	85	2.40	2/5VP1320	132	3.73	2/5VP2120	212	5.98	2/5VP3550	355	10.02
3/5VP850	85	3.60	3/5VP1320	132	5.59	3/5VP2120	212	8.97	3/5VP3550	355	15.03
4/5VP850	85	4.80	4/5VP1320	132	7.45	4/5VP2120	212	11.97	4/5VP3550	355	20.04
5/5VP850	85	6.00	5/5VP1320	132	9.31	5/5VP2120	212	14.96	5/5VP3550	355	25.05
2/5VP870	87	2.46	2/5VP1400	140	3.95	2/5VP2240	224	6.32			
3/5VP870	87	3.68	3/5VP1400	140	5.93	3/5VP2240	224	9.48			
4/5VP870	87	4.91	4/5VP1400	140	7.90	4/5VP2240	224	12.64			
5/5VP870	87	6.14	5/5VP1400	140	9.88	5/5VP2240	224	15.8			
2/5VP900	90	2.54	2/5VP1500	150	4.23	2/5VP2360	236	6.66			
3/5VP900	90	3.81	3/5VP1500	150	6.35	3/5VP2360	236	9.99			
4/5VP900	90	5.08	4/5VP1500	150	8.47	4/5VP2360	236	13.32			
5/5VP900	90	6.35	5/5VP1500	150	10.58	5/5VP2360	236	16.65			

Available up to 16 strands. 6-16 strands made to order.

Narrow (Premium-V) Belts

Dimensions

8VP Narrow (Premium-V) Banded Belts

Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.	Product No.	Belt Length	Weight Lbs.
2/8VP1000	100	6.95	2/8VP1600	160.00	11.13	2/8VP2500	250.00	17.39	2/8VP4000	400.00	27.82
3/8VP1000	100	10.43	3/8VP1600	160.00	16.69	3/8VP2500	250.00	26.08	3/8VP4000	400.00	41.73
4/8VP1000	100	13.91	4/8VP1600	160.00	22.26	4/8VP2500	250.00	34.77	4/8VP4000	400.00	55.64
5/8VP1000	100	17.39	5/8VP1600	160.00	27.82	5/8VP2500	250.00	43.47	5/8VP4000	400.00	69.55
2/8VP1060	106	7.37	2/8VP1700	170.00	11.82	2/8VP2650	265.00	18.43	2/8VP4250	425.00	29.56
3/8VP1060	106	11.06	3/8VP1700	170.00	17.73	3/8VP2650	265.00	27.65	3/8VP4250	425.00	44.34
4/8VP1060	106	14.74	4/8VP1700	170.00	23.65	4/8VP2650	265.00	36.86	4/8VP4250	425.00	59.12
5/8VP1060	106	18.43	5/8VP1700	170.00	29.56	5/8VP2650	265.00	46.08	5/8VP4250	425.00	73.89
2/8VP1120	112	7.79	2/8VP1800	180.00	12.52	2/8VP2800	280.00	19.47	2/8VP4500	450.00	31.30
3/8VP1120	112	11.68	3/8VP1800	180.00	18.78	3/8VP2800	280.00	29.21	3/8VP4500	450.00	46.95
4/8VP1120	112	15.58	4/8VP1800	180.00	25.04	4/8VP2800	280.00	38.95	4/8VP4500	450.00	62.59
5/8VP1120	112	19.47	5/8VP1800	180.00	31.30	5/8VP2800	280.00	48.68	5/8VP4500	450.00	78.24
2/8VP1180	118	8.21	2/8VP1900	190.00	13.21	2/8VP3000	300.00	20.86	2/8VP4750	475.00	33.04
3/8VP1180	118	12.31	3/8VP1900	190.00	19.82	3/8VP3000	300.00	31.30	3/8VP4750	475.00	49.55
4/8VP1180	118	16.41	4/8VP1900	190.00	26.43	4/8VP3000	300.00	41.73	4/8VP4750	475.00	66.07
5/8VP1180	118	20.52	5/8VP1900	190.00	33.04	5/8VP3000	300.00	52.16	5/8VP4750	475.00	82.59
2/8VP1250	125	8.69	2/8VP2000	200.00	13.91	2/8VP3150	315.00	21.91	2/8VP5000	500.00	34.77
3/8VP1250	125	13.04	3/8VP2000	200.00	20.86	3/8VP3150	315.00	32.86	3/8VP5000	500.00	52.16
4/8VP1250	125	17.39	4/8VP2000	200.00	27.82	4/8VP3150	315.00	43.82	4/8VP5000	500.00	69.55
5/8VP1250	125	21.73	5/8VP2000	200.00	34.77	5/8VP3150	315.00	54.77	5/8VP5000	500.00	86.94
2/8VP1320	132	9.18	2/8VP2120	212.00	14.74	2/8VP3350	335.00	23.30	2/8VP5600	560.00	38.95
3/8VP1320	132	13.77	3/8VP2120	212.00	22.12	3/8VP3350	335.00	34.95	3/8VP5600	560.00	58.42
4/8VP1320	132	18.36	4/8VP2120	212.00	29.49	4/8VP3350	335.00	46.60	4/8VP5600	560.00	77.89
5/8VP1320	132	22.95	5/8VP2120	212.00	36.86	5/8VP3350	335.00	58.25	5/8VP5600	560.00	97.37
2/8VP1400	140	9.74	2/8VP2240	224.00	15.58	2/8VP3550	355.00	24.69	2/8VP6000	600.00	41.73
3/8VP1400	140	14.61	3/8VP2240	224.00	23.37	3/8VP3550	355.00	37.03	3/8VP6000	600.00	62.59
4/8VP1400	140	19.47	4/8VP2240	224.00	31.16	4/8VP3550	355.00	49.38	4/8VP6000	600.00	83.46
5/8VP1400	140	24.34	5/8VP2240	224.00	38.95	5/8VP3550	355.00	61.72	5/8VP6000	600.00	104.32
2/8VP1500	150.00	10.43	2/8VP2360	236.00	16.41	2/8VP3750	375.00	26.08			
3/8VP1500	150.00	15.65	3/8VP2360	236.00	24.62	3/8VP3750	375.00	39.12			
4/8VP1500	150.00	20.86	4/8VP2360	236.00	32.83	4/8VP3750	375.00	52.16			
5/8VP1500	150.00	26.08	5/8VP2360	236.00	41.03	5/8VP3750	375.00	65.20			

1. Determine DESIGN HORSEPOWER

DESIGN HORSEPOWER = DriveR HP x Service Factor (See below)

SERVICE FACTORS

DRIVEN MACHINE See Note 1	DRIVER					
	AC Normal Torque Electric Motor (NEMA Design A-B) See Note 2			AC High Torque Electric Motor (NEMA Design C-D) See Note 3		
	Intermittent Service See Note 4	Normal Service See Note 5	Continuous Service See Note 6	Intermittent Service See Note 4	Normal Service See Note 5	Continuous Service See Note 6
Agitators for Liquids						
Blowers and Exhausters						
Centrifugal Pumps and Compressors	1.0	1.1	1.2	1.1	1.2	1.3
Conveyors (Light Duty)						
Fans (up to 10 H.P.)						
Belt Conveyors for Sand, Grain, etc.						
Fans (over 10 H.P.)						
Generators						
Laundry Machinery						
Line Shafts						
Machine Tools	1.1	1.2	1.3	1.2	1.3	1.4
Mixers (Dough)						
Positive Displacement Rotary Pumps						
Printing Machinery						
Punches-Presses-Shears See Note 1						
Revolving and Vibrating Screens						
Blowers (Positive Displacement)						
Brick Machinery						
Compressors (Piston) See Note 1						
Conveyors (Drag-Pan-Screw)						
Elevators (Bucket)						
Exciters	1.2	1.3	1.4	1.4	1.5	1.6
Hammer Mills						
Paper Mill Beaters						
Pulverized						
Pumps (Piston)						
Saw Mill and Woodworking Machinery						
Textile Machinery						
Crushers (Gyratory-Jaw-Roll) See Note 1						
Mills (Ball-Rod-Tube) See Note 1	1.3	1.4	1.5	1.5	1.6	1.8
Hoists See Note 1						
Rubber Calenders-Extruders-Mills See Note 1						

- Note 1** The Driven Machines listed above are representative samples only. When one of the sheaves of the drive is used as a flywheel to reduce speed fluctuations and equalize the energy exerted at the shaft or for applications involving impact or jam loads specially constructed sheaves may be required. Consult the manufacturer.
- Note 2** Included under this heading are the following electric motors: Synchronous and Squirrel Cage AC Normal Torque, AC Split Phase, DC Shunt Wound and Internal Combustion Engines.
- Note 3** Included under this heading are the following electric motors: AC High Torque, AC Hi-Slip, AC Repulsion, Induction, AC Single Phase Series Wound, AC Slip Ring and DC Compound Wound.
- Note 4** Intermittent Service refers to 3–5 hours of daily or seasonal operation.

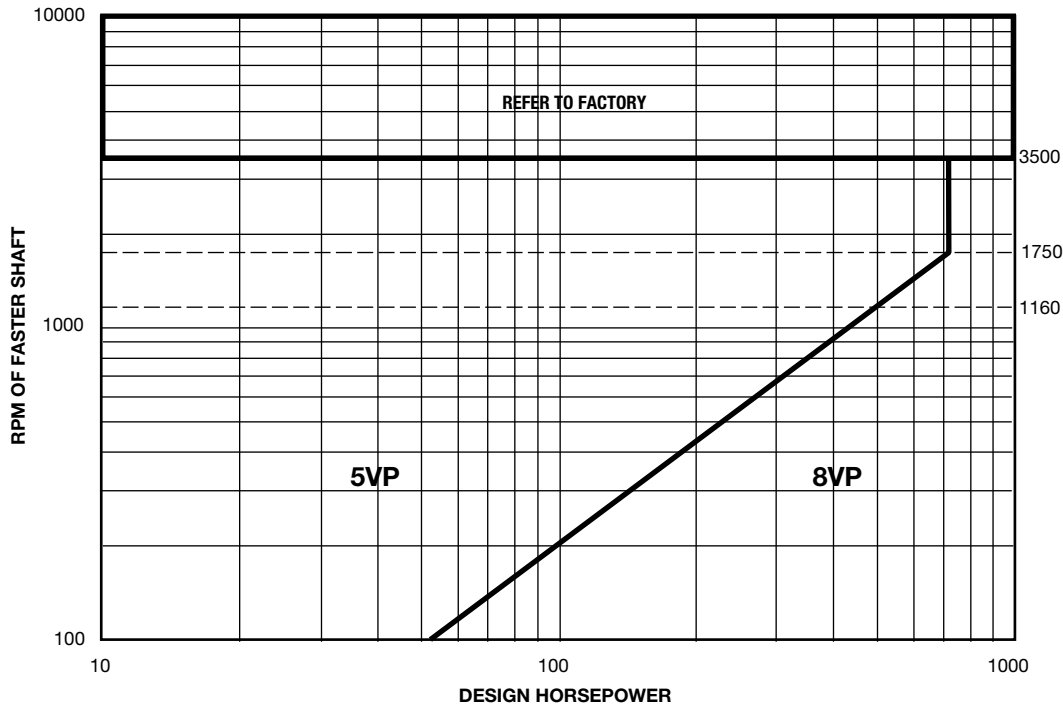
- Note 5** Normal Service indicates 8–10 hours of daily operation.
- Note 6** Continuous Service refers to 16–24 hours of daily operation.
- Note 7** If idlers are used, add the following to the service factor.

Idler on slack side (inside)	None
Idler on slack side (outside)	0.1
Idler on tight side (inside)	0.1
Idler on tight side (outside)	0.2

Drive Selection

Narrow Belts

2. Select **BELT CROSS SECTION** using chart below.



3. If using a 60 HZ electric motor, **Note the Minimum Motor Sheave Outside Diameter recommended by NEMA.**

Motor Horsepower	MOTOR RPM			
	870	1160	1750	3500
1/2	2.2	-	-	-
3/4	2.4	2.2	-	-
1	2.4	2.4	2.2	-
1-1/2	2.4	2.4	2.4	2.2
2	3.0	2.4	2.4	2.4
3	3.0	3.0	2.4	2.4
5	3.8	3.0	3.0	2.4
7-1/2	4.4	3.8	3.0	3.0
10	4.4	4.4	3.8	3.0
15	5.2	4.4	4.4	3.8
20	6.0	5.2	4.4	4.4
25	6.8	6.0	4.4	4.4
30	6.8	6.8	5.2	-
40	8.2	6.8	6.0	-
50	8.4	8.2	6.8	-
60	10.0	8.2	7.4	-
75	10.0	10.0	8.6	-
100	12.0	10.0	8.6	-
125	-	12.0	10.5	-
150	-	-	10.5	-
200	-	-	13.2	-
250	-	-	-	-
300	-	-	-	-

* For ODP motors

Balancing Standards

- BELT LENGTH = $2 \times C + 1.57 \times (D + d) + [(D - d)^2 / 4 \times C]$
- CENTER DISTANCE = $1/2 \times [A - h \times (D - d)]$

WHERE:

C = Center Distance (in.) D = O.D. of larger sheave (in.)
 L = Belt Length (in.) d = O.D. of smaller sheave (in.)
 A = $L - 1.57 \times (D + d)$ h = Factor from chart below

$\frac{D-d}{A}$	h	$\frac{D-d}{A}$	h	$\frac{D-d}{A}$	h	$\frac{D-d}{A}$	h
0.00	0.00	0.16	0.08	0.30	0.16	0.43	0.24
0.02	0.01	0.18	0.09	0.32	0.17	0.44	0.25
0.04	0.02	0.20	0.10	0.34	0.18	0.46	0.26
0.06	0.03	0.21	0.11	0.35	0.19	0.47	0.27
0.08	0.04	0.23	0.12	0.37	0.20	0.48	0.28
0.10	0.05	0.25	0.13	0.39	0.21	0.50	0.29
0.12	0.06	0.27	0.14	0.40	0.22	0.51	0.30
0.14	0.07	0.29	0.15	0.41	0.23	-	-

AC FACTORS

$\frac{D-d}{C}$	Factor AC	$\frac{D-d}{C}$	Factor AC
0.000	1.000	0.750	0.879
0.025	0.997	0.775	0.874
0.050	0.994	0.800	0.869
0.075	0.990	0.825	0.864
0.100	0.987	0.850	0.858
0.125	0.983	0.875	0.852
0.150	0.980	0.900	0.847
0.175	0.977	0.925	0.841
0.200	0.973	0.950	0.835
0.225	0.969	0.975	0.829
0.250	0.966	1.000	0.823
0.275	0.962	1.025	0.816
0.300	0.958	1.050	0.810
0.325	0.954	1.075	0.803
0.350	0.951	1.100	0.796
0.375	0.947	1.125	0.789
0.400	0.943	1.150	0.782
0.425	0.939	1.175	0.774
0.450	0.935	1.200	0.767
0.475	0.930	1.225	0.759
0.500	0.926	1.250	0.751
0.525	0.922	1.275	0.742
0.550	0.917	1.300	0.734
0.575	0.913	1.325	0.725
0.600	0.908	1.350	0.716
0.625	0.904	1.375	0.706
0.650	0.899	1.400	0.697
0.675	0.894	1.425	0.687
0.700	0.889	-	-
0.725	0.884	-	-

LC FACTORS

Belt No.	Correction Factor LC	Belt No.	Correction Factor LC	Belt No.	Correction Factor LC
3VP450	.94	5VP600	.88	8VP1000	.87
3VP475	.95	5VP630	.89	8VP1060	.88
3VP500	.96	5VP670	.90	8VP1120	.88
3VP530	.97	5VP710	.91	8VP1180	.89
3VP560	.98	5VP750	.92	8VP1250	.90
3VP600	.99	5VP800	.93	8VP1320	.91
3VP630	1.00	5VP850	.94	8VP1400	.92
3VP670	1.01	5VP900	.95	8VP1500	.93
3VP710	1.02	5VP950	.95	8VP1600	.94
3VP750	1.03	5VP1000	.96	8VP1700	.94
3VP800	1.04	5VP1060	.97	8VP1800	.95
3VP850	1.05	5VP1120	.98	8VP1900	.96
3VP900	1.07	5VP1180	.99	8VP2000	.97
3VP950	1.08	5VP1250	1.00	8VP2120	.97
3VP1000	1.09	5VP1320	1.01	8VP2240	.98
3VP1060	1.10	5VP1400	1.02	8VP2360	.99
3VP1120	1.11	5VP1500	1.03	8VP2500	1.00
3VP1180	1.12	5VP1600	1.04	8VP2650	1.01
3VP1250	1.13	5VP1700	1.05	8VP2800	1.02
3VP1320	1.14	5VP1800	1.06	8VP3000	1.02
3VP1400	1.15	5VP1900	1.07	8VP3150	1.03
		5VP2000	1.08	8VP3350	1.04
		5VP2120	1.09	8VP3550	1.05
		5VP2240	1.09	8VP3750	1.06
		5VP2360	1.10	8VP4000	1.07
		5VP2500	1.11	8VP4250	1.08
		5VP2650	1.12	8VP4500	1.09
		5VP2800	1.13	8VP4750	1.09
		5VP3000	1.14	8VP5000	1.10
		5VP3150	1.15	8VP5600	1.12
		5VP3350	1.16	8VP6000	1.13
		5VP3550	1.17		

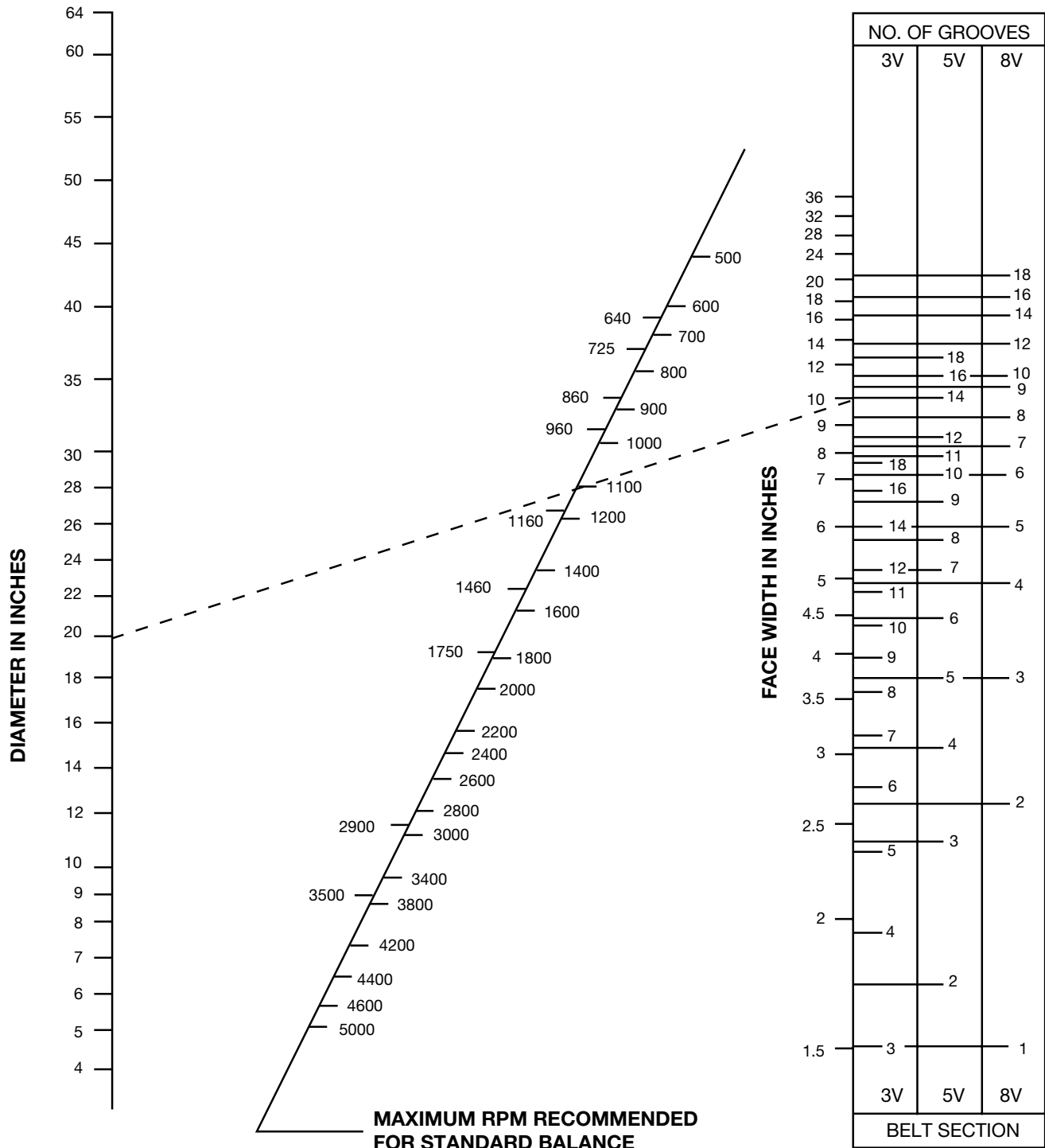
Balancing Standards

Proper balance of rotating products is important for smooth, vibration-free operation. Standard balance of Wood's stock products is a one plane balance. Depending on the face width, outside diameter, and operating speed a higher precision balance may be required for smooth operation. In those cases a two-plane balance is suggested.

Note: Two plane balance is for smooth operation only and DOES NOT increase the maximum safe operating speed of the product. Stock cast iron wheels may not exceed 6,550 feet per minute; and ductile iron wheels are limited to 10,000 FPM. (FPM = sheave outside diameter x RPM x .262)

The nomograph below may be used as a guideline to determine when two-plane balance is recommended. To use this chart lay a straight-edge between the diameter of the part on the left of the chart and the face width of the part on the right. The straight edge will intersect the slanted scale in the center of the chart. When the operating speed is greater than the intersection point a two-plane balance is recommended.

Example: If a 20 in. diameter x 10 in. face width sheave runs faster than 1100 rpm, dynamic balancing is recommended.



Standard Motor Speed - Reduction or 1:1 Ratio Drives

Example: Given a 1000 HP engine at 900 RPM driving a Jaw Crusher operating at 320 RPM, 8 hours per day.
The engine shaft is 5-7/8", the Crusher shaft is 8", and the center distance is 80"

Procedure	Example																								
Step #1: Calculate the Design Horsepower DHP = DriveR HP x service factor (page BP1-15)	Service Factor = 1.6 DHP = 1000 HP x 1.6 = 1600																								
Step #2: Choose the Belt Cross Section Reference chart (page BP1-16)	1600 DHP and 900 RPM intersect in the 8VP section																								
Step #3: Check NEMA recommended Minimum Motor Sheave Outside Diameter (page BP1-16)	Not Applicable with Internal Combustion Engine																								
Step #4: Calculate Speed Ratio Speed Ratio = Faster RPM / Slower RPM	Speed Ratio = 900 RPM / 320 RPM = 2.81																								
Step #5: Use the Ratio and any diameter limits or known sheaves to determine the diameters of DriveR and DriveN. Try to utilize stock parts when possible.	22.4 DriveR Sheave x 2.81 Ratio = DriveN Sheave Use Stock 8VP63.0 stock sheave																								
Step #6: Using the diameter of the sheave the actual ratio and speed can be calculated.	Actual Ratio = 63.0 DriveN / 22.4 DriveR = 2.81 Actual RPM = 900 RPM DriveR / 2.81 = 320 RPM DriveN																								
Step #7: Calculate Belt Length to determine the closest stock belt. Then calculate the actual CD using the stock belt. (Formulas on page BP1-17)	$BL = 2 \times 80 + 1.57 \times (63.0 + 22.4) + [(63.0 - 22.4)^2 / (4 \times 80)]$ BL = 299.2 Use an 8VP3000 Belt $A = 300 - 1.57 \times (63.0 + 22.4) = 165.9$ $CD = 1/2 \times [165.9 - .13 \times (63.0 - 22.4)] = 80.3"$																								
Step #8: Find the AC and LC correction factors. (page BP1-17)	AC factor = .926 LC factor for 8VP3000 belts = 1.02																								
Step #9: In the HP Rating Tables, following the Drive Selection Tables, locate the HP per Belt under the correct Belt Section. (Use Small Sheave Diameter and RPM)	8VP rating tables (pages BP1-24 to -25) 22.4 diameter @ 900 RPM HP / Belt = 177.7																								
Step #10: Calculate corrected HP per Belt Add on for ratio is found to the right of the HP Rating Tables CHP = (HP per Belt + Add on) x AC x LC	Add on for 2.81 ratio = 6.20 CHP = (177.7 + 6.20) x .926 x 1.02 = 173.7																								
Step #11: Determine the number of belts required NOB = Design HP / CHP	NOB = 1600 DHP / 173.7 CHP = 9.21 Use 10 belts																								
Step #12: Check for Dynamic Balance Recommendations Reference Chart (page BP1-18)	OK as Standard - 8V22.4 x 10 standard balance good to 1050 RPM OK as Standard - 8V63.0 x 10 standard balance good to 550 RPM																								
Step #13: Stock cast iron parts are good to 6500 FPM. If operating faster MTO ductile iron is required. FPM = diameter (in.) x RPM x .262	FPM = 22.4 x 900 x .262 = 5282 FPM Standard Cast Iron Parts are OK																								
Step #14: Specify Drive Components Reference Component Dimensional pages for Product Number	<table border="0"> <thead> <tr> <th></th> <th>Item</th> <th>Product No.</th> </tr> </thead> <tbody> <tr> <td>DR</td> <td>- 8V22.4 x 10 sheave</td> <td>8V224102)</td> </tr> <tr> <td></td> <td>- N Bushing for 5-7/8" bore</td> <td>N578</td> </tr> <tr> <td>DN</td> <td>- 8V63.0 x 10 sheave</td> <td>8V63010</td> </tr> <tr> <td></td> <td>- W bushing for 8" bore</td> <td>MTO</td> </tr> <tr> <td></td> <td>One 10 Banded Belt</td> <td>10/5VP3000</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td></td> <td>Two 5 Banded Belts</td> <td>5/8VP3000</td> </tr> </tbody> </table>		Item	Product No.	DR	- 8V22.4 x 10 sheave	8V224102)		- N Bushing for 5-7/8" bore	N578	DN	- 8V63.0 x 10 sheave	8V63010		- W bushing for 8" bore	MTO		One 10 Banded Belt	10/5VP3000		or			Two 5 Banded Belts	5/8VP3000
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Horsepower Rating for 5VP Belts

Horsepower ratings per belt are listed below and on the facing page. To obtain the basic horsepower rating per belt, locate the RPM of the faster shaft in the left-hand column. Read on this line across to the column headed by the diameter of the smaller sheave. The figure given is the basic horsepower rating. For convenience the standard motor speeds are grouped at the beginning of the chart. On the same horizontal line read the “add-on” rating in the column headed by the drive speed ratio. Add the basic rating to the “add-on” rating to obtain the total horsepower rating per belt.

RPM of Faster Shaft	BASIC HORSEPOWER RATING PER BELT															
	SMALL SHEAVE OUTSIDE DIAMETER															
	7.10	7.50	8.00	8.50	9.00	9.25	9.75	10.30	10.90	11.30	11.80	12.50	13.20	14.00	15.00	16.00
435	7.5	8.5	9.7	11.0	12.2	12.9	14.1	15.5	17.0	18.0	19.2	20.9	22.6	24.6	27.0	29.4
485	8.3	9.4	10.8	12.2	13.5	14.2	15.6	17.1	18.8	19.9	21.2	23.2	25.1	27.2	29.9	32.6
575	9.6	10.9	12.6	14.2	15.8	16.7	18.1	20.1	22.0	23.3	24.9	27.1	29.3	31.9	35.0	38.2
690	11.3	12.9	14.8	16.8	18.7	19.7	21.6	23.7	26.0	27.5	29.4	32.1	34.7	37.7	41.4	45.1
725	11.8	13.5	15.5	17.5	19.6	20.6	22.6	24.8	27.2	28.8	30.8	33.6	36.3	39.4	43.3	47.2
870	13.9	15.9	18.3	20.7	23.1	24.3	26.7	29.3	32.1	34.0	36.3	39.6	42.8	46.5	51.0	55.5
950	15.0	17.1	19.8	22.4	25.0	26.3	28.9	31.7	34.8	36.8	39.3	42.8	46.3	50.3	55.2	60.0
1160	17.9	20.4	23.6	26.7	29.8	31.4	34.5	37.8	41.5	43.9	46.9	51.0	55.2	59.8	65.5	71.1
1425	21.3	24.3	28.1	31.9	35.6	37.5	41.2	45.2	49.5	52.3	55.9	60.7	65.5	70.9	77.5	83.9
1750	25.2	28.9	33.4	37.8	42.2	44.4	48.8	53.4	58.5	61.8	65.8	71.4	76.9	82.9	90.2*	
100	2.0	2.2	2.5	2.8	3.1	3.3	3.6	3.9	4.3	4.5	4.8	5.2	5.7	6.1	6.7	7.3
200	3.7	4.2	4.8	5.4	6.0	6.3	6.8	7.5	8.2	8.7	9.3	10.1	10.9	11.8	13.0	14.2
300	5.3	6.0	6.9	7.8	8.7	9.1	10.0	11.0	12.0	12.7	13.6	14.8	16.0	17.4	19.1	20.8
400	6.9	7.9	9.0	10.2	11.3	11.9	13.1	14.3	15.7	16.6	17.8	19.3	20.9	22.7	25.0	27.2
500	8.5	9.6	11.1	12.5	13.9	14.6	16.1	17.6	19.3	20.4	21.9	23.8	25.8	28.0	30.8	33.5
600	10.0	11.4	13.1	14.8	16.5	17.3	19.0	20.9	22.9	24.2	25.9	28.2	30.5	33.1	36.4	39.7
700	11.5	13.1	15.0	17.0	19.0	19.9	21.9	24.0	26.4	27.9	29.8	32.5	35.2	38.2	41.9	45.7
800	12.9	14.7	17.0	19.2	21.4	22.5	24.7	27.1	29.8	31.5	33.7	36.7	39.7	43.1	47.3	51.5
900	14.3	16.3	18.8	21.3	23.8	25.0	27.5	30.2	33.1	35.0	37.5	40.8	44.1	47.9	52.6	57.2
1000	15.7	17.9	20.7	23.4	26.2	27.5	30.2	33.2	36.4	38.5	41.2	44.8	48.5	52.6	57.7	62.7
1200	18.4	21.0	24.3	27.5	30.7	32.3	35.5	39.0	42.7	45.2	48.3	52.6	56.8	61.5	67.4	73.1
1400	21.0	24.0	27.7	31.4	35.1	36.9	40.5	44.5	48.7	51.6	55.0	59.9	64.6	69.9	76.4	82.7
1600	23.4	26.8	31.0	35.2	39.3	41.3	45.3	49.7	54.4	57.5	61.4	66.7	71.8	77.6	84.6	91.4*
1800	25.8	29.5	34.1	38.7	43.2	45.4	49.9	54.6	59.8	63.1	67.3	72.9	78.5	84.6*		
2000	28.0	32.1	37.1	42.0	46.9	49.3	54.1	59.2	64.7	68.3	72.7	78.7	84.4*			
2200	30.1	34.4	39.9	45.2	50.4	52.9	58.0	63.4	69.2	73.0*	77.5*					
2400	32.0	36.7	42.4	48.1	53.6	56.3	61.6	67.3	73.2*							
2600	33.8	38.7	44.8	50.7	56.5	59.3	64.8*									
2800	35.4	40.6	46.9	53.1	59.1*	62.0*										
3000	36.9	42.3	48.8	55.2*												

* Made-to-order ductile iron sheaves required.

Horsepower Rating for 5VP Belts

The combined Arc-Length correction factor shown in the Arc-of-Contact correction factor table and the Belt Length correction factor table, page BP1-17, should be applied to the total HP per belt before determining the number of belts required for the drive.

RPM of Faster Shaft	"ADD-ON" HORSEPOWER RATING PER BELT									
	SPEED RATIO									
	1.00	1.02	1.03	1.04	1.06	1.07	1.09	1.12	1.16	1.24
	1.01	1.02	1.03	1.05	1.06	1.08	1.11	1.15	1.23	over
435	0.00	0.06	0.11	0.17	0.23	0.29	0.34	0.40	0.46	0.52
485	0.00	0.06	0.13	0.19	0.26	0.32	0.38	0.45	0.51	0.58
575	0.00	0.08	0.15	0.23	0.30	0.38	0.45	0.53	0.61	0.68
690	0.00	0.09	0.18	0.27	0.36	0.45	0.55	0.64	0.73	0.82
725	0.00	0.10	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86
870	0.00	0.11	0.23	0.34	0.46	0.57	0.69	0.80	0.92	1.03
950	0.00	0.13	0.25	0.38	0.50	0.63	0.75	0.88	1.00	1.13
1160	0.00	0.15	0.31	0.46	0.61	0.76	0.92	1.07	1.22	1.38
1425	0.00	0.19	0.38	0.56	0.75	0.94	1.13	1.31	1.50	1.69
1750	0.00	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.84	2.08
100	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12
200	0.00	0.03	0.05	0.08	0.11	0.13	0.16	0.18	0.21	0.24
300	0.00	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36
400	0.00	0.05	0.11	0.16	0.21	0.26	0.32	0.37	0.42	0.47
500	0.00	0.07	0.13	0.20	0.26	0.33	0.40	0.46	0.53	0.59
600	0.00	0.08	0.16	0.24	0.32	0.40	0.47	0.55	0.63	0.71
700	0.00	0.09	0.18	0.28	0.37	0.46	0.55	0.65	0.74	0.83
800	0.00	0.11	0.21	0.32	0.42	0.53	0.63	0.74	0.84	0.95
900	0.00	0.12	0.24	0.36	0.47	0.59	0.71	0.83	0.95	1.07
1000	0.00	0.13	0.26	0.40	0.53	0.66	0.79	0.92	1.05	1.19
1200	0.00	0.16	0.32	0.47	0.63	0.79	0.95	1.11	1.26	1.42
1400	0.00	0.18	0.37	0.55	0.74	0.92	1.11	1.29	1.48	1.66
1600	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.48	1.69	1.90
1800	0.00	0.24	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.13
2000	0.00	0.26	0.53	0.79	1.05	1.32	1.58	1.84	2.11	2.37
2200	0.00	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61
2400	0.00	0.32	0.63	0.95	1.27	1.58	1.90	2.21	2.53	2.85
2600	0.00	0.34	0.69	1.03	1.37	1.71	2.06	2.40	2.74	3.08
2800	0.00	0.37	0.74	1.11	1.48	1.84	2.21	2.58	2.95	3.32
3000	0.00	0.40	0.79	1.19	1.58	1.98	2.37	2.77	3.16	3.56

Horsepower Rating for 8VP Belts

Horsepower ratings per belt are listed below and on the facing page. To obtain the basic horsepower rating per belt, locate the RPM of the faster shaft in the left-hand column. Read on this line across to the column headed by the diameter of the smaller sheave. The figure given is the basic horsepower rating. For convenience the standard motor speeds are grouped at the beginning of the chart. On the same horizontal line read the “add-on” rating in the column headed by the drive speed ratio. Add the basic rating to the “add-on” rating to obtain the total horsepower rating per belt.

RPM of Faster Shaft	BASIC HORSEPOWER RATING PER BELT										
	SMALL SHEAVE OUTSIDE DIAMETER										
	12.50	13.20	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.20	22.40
435	26.6	31.5	37.1	44.1	51.0	57.9	64.8	71.6	78.4	86.6	94.7
485	29.2	34.7	40.8	48.5	56.2	63.9	71.5	79.0	86.5	95.5	104.5
575	33.7	40.1	47.4	56.4	65.4	74.3	83.2	92.0	100.8	111.2	121.6
690	39.3	46.8	55.4	66.0	76.6	87.1	97.6	107.9	118.2	130.4	142.5
725	40.9	48.8	57.7	68.9	79.9	90.9	101.8	112.6	123.3	136.1	148.7
870	47.3	56.6	67.1	80.2	93.0	106.0	118.7	131.3	143.7	158.4	172.9
950	50.6	60.7	72.1	86.2	100.1	113.9	127.5	141.0	154.3	170.0	185.4
1160	58.6	70.5	84.0	100.6	116.9	133.0	148.8	164.3	179.5	197.3	214.7*
1425	67.0	81.0	0.0	96.8	116.1	134.9	153.3	171.2*			
1750	74.5	90.6	108.6	130.4*							
50	3.9	4.5	5.2	6.1	7.0	7.8	8.7	9.6	10.4	11.5	12.5
100	7.3	8.5	9.9	11.6	13.3	15.0	16.7	18.3	20.0	22.1	24.1
150	10.5	12.0	14.3	16.8	19.3	21.8	24.3	26.8	29.3	32.3	35.2
200	13.5	15.8	18.5	21.8	25.1	28.4	31.7	35.0	38.3	42.2	46.1
250	16.4	19.3	22.6	26.7	30.8	34.9	39.0	43.1	47.1	52.0	56.8
300	19.3	22.7	26.7	31.6	36.4	41.3	46.1	51.0	55.8	61.6	67.3
400	24.8	29.3	34.5	40.9	47.3	53.7	60.0	66.4	72.7	80.2	87.7
500	30.0	35.6	41.9	49.9	57.8	65.6	73.4	81.2	89.0	98.2	107.4
600	35.0	41.6	49.1	58.5	67.9	77.1	86.4	95.5	104.6	115.5	126.3
700	39.7	47.4	56.1	66.9	77.6	88.2	98.8	109.3	119.7	132.1	144.3
800	44.2	52.9	62.7	74.8	86.9	98.9	110.7	122.4	134.1	147.9	161.5
900	48.5	58.1	69.0	82.5	95.8	109.0	122.1	135.0	147.7	162.8	177.7
1000	52.6	63.1	75.0	89.8	104.3	118.7	132.9	146.8	160.6	176.9	192.8
1100	56.4	67.8	80.7	96.6	112.3	127.8	143.0	158.0	172.7	190.0	206.8
1200	60.0	72.2	86.1	103.1	119.9	136.3	152.5	168.4	183.9	202.0*	
1300	63.3	76.3	91.1	109.2	126.9	144.3	161.0	177.9	194.1*		
1400	66.3	80.1	95.7	114.7	133.4	151.6	169.3*	186.6*			
1500	69.0	83.6	99.9	119.9	139.3	158.2*					
1600	71.4	86.6	103.7	124.5	144.6*						
1700	73.5	89.4	107.1	128.6*							

* Made-to-order ductile iron sheaves required.

Horsepower Rating for 8VP Belts

The combined Arc-Length correction factor shown in the Arc-of-Contact correction factor table and the Belt Length correction factor table, page BP1 -17, should be applied to the total HP per belt before determining the number of belts required for the drive.

RPM of Faster Shaft	"ADD-ON" HORSEPOWER RATING PER BELT									
	SPEED RATIO									
	1.00	1.02	1.03	1.04	1.06	1.07	1.09	1.12	1.16	1.24
	1.01	1.02	1.03	1.05	1.06	1.08	1.11	1.15	1.23	over
435	0.00	0.33	0.67	1.00	1.33	1.66	2.00	2.33	2.66	3.00
485	0.00	0.37	0.74	1.11	1.48	1.86	2.23	2.60	2.97	3.34
575	0.00	0.44	0.88	1.32	1.76	2.20	2.64	3.08	3.52	3.96
690	0.00	0.53	1.06	1.58	2.11	2.64	3.17	3.70	4.22	4.75
725	0.00	0.55	1.11	1.66	2.22	2.77	3.33	3.88	4.44	4.99
870	0.00	0.67	1.33	2.00	2.66	3.33	3.99	4.66	5.33	5.99
950	0.00	0.73	1.45	2.18	2.91	3.64	4.36	5.09	5.82	6.54
1160	0.00	0.89	1.78	2.66	3.55	4.44	5.33	6.21	7.10	7.99
1425	0.00	1.09	2.18	3.27	4.36	5.45	6.54	7.63	8.72	9.81
1750	0.00	1.34	2.68	4.02	5.36	6.70	8.04	9.37	10.71	12.05
50	0.00	0.04	0.08	0.11	0.15	0.19	0.23	0.27	0.31	0.34
100	0.00	0.08	0.15	0.23	0.31	0.38	0.46	0.54	0.61	0.69
150	0.00	0.11	0.23	0.34	0.46	0.57	0.69	0.80	0.92	1.03
200	0.00	0.15	0.31	0.46	0.61	0.77	0.92	1.07	1.22	1.38
250	0.00	0.19	0.38	0.57	0.77	0.96	1.15	1.34	1.53	1.72
300	0.00	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.84	2.07
400	0.00	0.31	0.61	0.92	1.22	1.53	1.84	2.14	2.45	2.76
500	0.00	0.38	0.77	1.15	1.53	1.91	2.30	2.68	3.06	3.44
600	0.00	0.46	0.92	1.38	1.84	2.30	2.76	3.21	3.67	4.13
700	0.00	0.54	1.07	1.61	2.14	2.68	3.21	3.75	4.29	4.82
800	0.00	0.61	1.22	1.84	2.45	3.06	3.67	4.29	4.90	5.51
900	0.00	0.69	1.38	2.07	2.76	3.44	4.13	4.82	5.51	6.20
1000	0.00	0.76	1.53	2.30	3.06	3.83	4.59	5.36	6.12	6.89
1100	0.00	0.84	1.68	2.52	3.37	4.21	5.05	5.89	6.73	7.58
1200	0.00	0.92	1.84	2.75	3.67	4.59	5.51	6.43	7.35	8.27
1300	0.00	0.99	1.99	2.98	3.98	4.97	5.97	6.96	7.96	8.95
1400	0.00	1.07	2.14	3.21	4.29	5.36	6.43	7.50	8.57	9.64
1500	0.00	1.15	2.30	3.44	4.59	5.74	6.89	8.04	9.18	10.33
1600	0.00	1.22	2.45	3.67	4.90	6.12	7.35	8.57	9.79	11.02
1700	0.00	1.30	2.60	3.90	5.20	6.51	7.81	9.11	10.41	11.71

