

SHAFT TO SHELL DIAMETER BASED ON BELT TENSION

Shaft sizes calculated for non-drive pulleys, with 180° belt wrap

Belt	900	1050	1200	1350	1500	1650	1800	2100	2400
Face	1050	1200	1350	1500	1700	1850	2000	2300	2600
Brg Center	1350	1700	1850	2050	2300	2450	2600	2900	3200

Shaft Dia / Pulley Dia	RESULTANT TENSIONS (kN)								
100 / 315	21	18	16	13	10	10	9	8	7
110 / 400	30	26	23	19	16	14	13	12	10
120 / 400	45	37	33	27	22	20	19	16	14
130 / 400	60	51	45	37	30	28	26	22	19
140 / 500	80	70	60	50	41	37	35	30	25
150 / 500	100	90	80	66	54	49	45	40	35
160 / 500	119	119	105	86	70	64	60	50	45
170 / 630	144	144	133	110	88	81	75	65	55
180 / 630	170	170	165	138	112	100	95	82	70
190 / 630	200	200	200	170	138	130	120	100	90
200 / 630	235	235	235	210	170	155	145	125	110
220 / 800	313	313	313	285	250	230	210	185	160
240 / 800	405	405	405	370	340	320	300	260	230
260 / 800	515	515	515	470	430	430	410	360	310
280 / 1000	640	640	640	585	535	535	535	480	420
300 / 1000	790	790	790	720	660	660	660	640	560