

Dultmeier Sales

Pulley Sizing Formula:

$$\text{Pulley Dia.}_{\text{Pump}} = \text{Pulley Dia.}_{\text{Driver}} \times \frac{\text{RPM}_{\text{Motor}}}{\text{RPM}_{\text{Pump}}}$$

****Note:** May need 2 or 3 groove pulleys for higher Horsepower applications.

Pump RPM when Driven by a 1725 RPM Motor:

Pump Pulley Outside Diameter	Motor Pulley Outside Diameter																								
Diameter	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	8	9	10	11	12	13	14	
2 1/2	1725																								
2 3/4	1574	1725																							
3	1431	1590	1725																						
3 1/4	1310	1460	1604	1725																					
3 1/2	1210	1346	1480	1615	1725																				
3 3/4	1125	1250	1375	1500	1625	1725																			
4	1050	1168	1283	1400	1518	1634	1725																		
4 1/4	985	1094	1201	1311	1420	1530	1640	1725																	
4 1/2	926	1030	1131	1235	1339	1440	1543	1650	1725																
4 3/4	876	974	1070	1168	1265	1362	1460	1558	1652	1725															
5	830	922	1013	1105	1198	1290	1382	1473	1568	1660	1750														
5 1/4	788	875	963	1050	1137	1225	1312	1400	1487	1575	1662	1725													
5 1/2	750	834	917	1000	1082	1167	1250	1333	1417	1500	1581	1646	1725												
5 3/4	715	795	875	955	1032	1113	1192	1272	1350	1430	1510	1575	1650	1725											
6	685	760	837	913	990	1065	1140	1217	1290	1370	1450	1509	1581	1653	1725										
6 1/2	630	700	771	840	910	980	1050	1120	1190	1260	1330	1393	1460	1526	1592	1725									
7	584	648	713	778	843	907	973	1039	1102	1168	1231	1294	1355	1417	1500	1602	1725								
8	507	564	620	676	734	789	845	902	959	1016	1072	1132	1186	1240	1312	1421	1509	1725							
9	450	500	550	600	650	700	750	800	850	900	950	1006	1054	1102	1166	1263	1342	1533	1725						
10	405	450	495	540	585	630	675	720	765	810	855	906	949	992	1050	1137	1208	1380	1553	1725					
11	366	407	448	488	530	570	610	652	692	733	774	823	863	902	954	1034	1098	1255	1411	1568	1725				
12	336	373	410	446	485	522	560	596	634	671	708	755	791	827	875	947	1006	1150	1294	1438	1581	1725			
13	309	343	378	412	447	480	515	549	584	618	652	697	730	763	807	875	929	1062	1194	1327	1460	1592	1725		
14	286	318	350	382	414	445	477	509	540	573	605	647	678	708	750	813	863	986	1109	1232	1355	1479	1602	1725	
15	267	297	326	358	386	415	445	475	505	534	564	604	633	661	700	758	805	920	1035	1150	1265	1380	1495	1610	
16	250	278	306	333	361	389	416	445	473	500	528	566	593	620	656	711	755	863	970	1078	1186	1294	1402	1509	

Estimating Belt Length From Drive Dimensions

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

Where: C = Shaft Center Distance

- a.) For Super HC®: Belt Length + Belt Outside Diameter
D = O.D. of Larger Pulley
d = O.D. of Smaller Pulley
- b.) For Tri-Power® Molded Notch: Belt Length = Datum Length
D = Datum Diameter of Larger Pulley
d = Datum Diameter of Smaller Pulley

Pulley Selection Guide (1725 RPM Motor)

Recommended Motor Pulley Guide					
To Transmit: HORSEPOWER	"A" Section Belt		"B" Section Belt		"C" Section Belt
	1 BELT single groove pulley	2 BELTS double groove pulley	1 BELT single groove pulley	2 BELTS double groove pulley	1 BELT single groove pulley
1	2 1/2 DIA.	-	-	-	-
1 1/2	3	-	-	-	-
2	3 1/4	-	-	-	-
3	3 3/4	3 DIA.	4 1/4 DIA.	3 1/2 DIA.	-
5	5 1/4	3 1/2	5	5	-
7 1/2	-	4 1/2	6	5	-
10	-	5 1/4	8	5	8 DIA.
15	-	7	10	6	9
20	-	9	-	7	10