

TBR Series Adjustable Center Distance Drives

continued on next page

Drive Features

One Face Movable Design provides a simplified, economical and trouble free drive system. While belt misalignment is inherent, it is minimal using standard V-belts. The drive should be aligned with the belt at the mean diameter of the variable pulley and the recommended shaft center distance used as a minimum.

Aluminum Alloy Pulley Faces are light weight, corrosion resistant and have a high wearability compatibility between the belt and face surface. The model 86TBR uses close grained cast iron faces.

Permanent Lubrication. High load carrying precisely fit bronze bushings with specially formulated oil impregnation eliminate most fretting and corrosion problems.

Torque Sensing Design. Recognized by belt manufacturers as the ultimate in providing drive efficiency and drive component life.



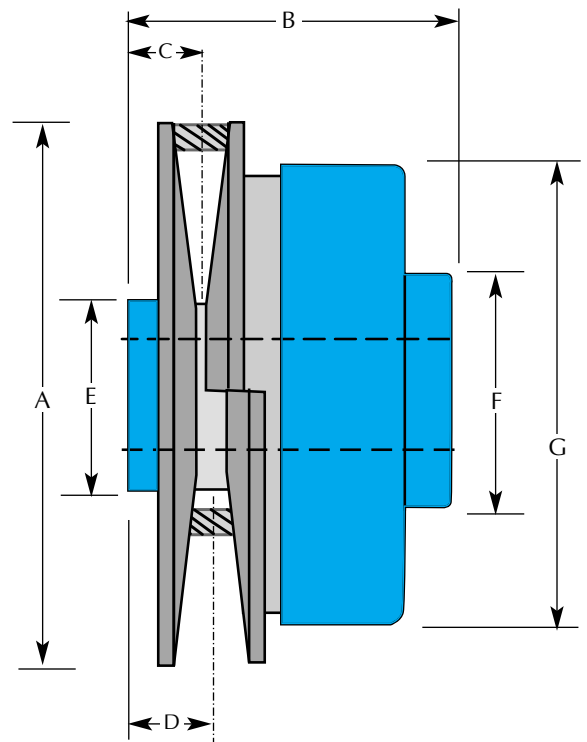
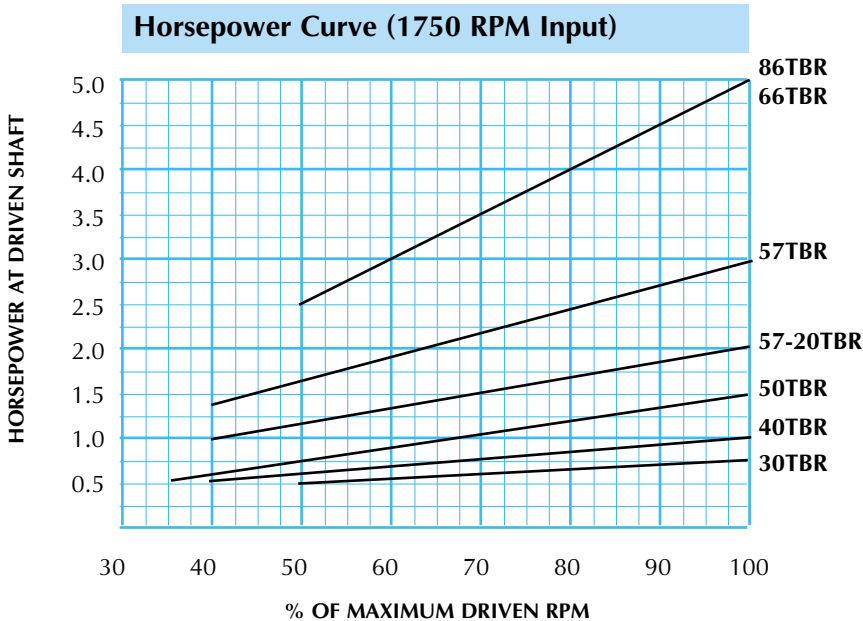
Dimensions and Specifications • TBR Series

All dimensions are in inches

H P Rating		Torque Capacity 1 lb.-in.	Model Number	Max. P.D.	Min. P.D.	Ratio	Belt Size	A	B	C	D	E	F	G	Stock Thru Bores
1750 RPM	1150 RPM														
.75	.5	27	30TBR	3.13	1.57	2:1	A	3.38	2.69	.78	.97	1.69	1.88	3.06	.5•.625•.75
1	.75	36	40TBR	4.00	1.60	2.5:1	A	4.25	2.69	.78	.97	1.69	1.88	3.06	.5•.625•.75
1	.75	36	40TBR-W	4.00	1.125	3.4:1	A	4.25	2.69	.78	.97	1.69	1.88	3.06	.5•.625
1.5	1	54	50TBR	4.65	1.72	2.7:1	B	5.00	3.06	.78	1.01	2.00	1.88	4.06	.5•.625•.75•.875
2	1.5	72	57-20TBR	5.40	2.16	2.5:1	B	5.75	3.06	.78	1.01	2.00	1.88	4.06	.5•.625•.75•.875
3	2	108	57TBR	5.40	2.16	2.5:1	B	5.75	3.88	1.09	1.33	2.44	2.25	5.07	.625•.75•.875•1•1.125
5	3	180	66TBR	6.20	3.10	2:1	B	6.63	3.88	1.09	1.33	2.31	2.25	5.07	.75•.875•1•1.125
5	3	180	86TBR	8.28	5.17	1.6:1	B	8.63	3.88	1.09	1.33	2.44	2.25	5.07	.75•.875•1•1.125

HP Ratings and Torque Capacities are at the Maximum P.D.

$$\text{Driven Torque} = \frac{\text{P.D. (Driven)}}{\text{Max P.D. (Driver)}} \times \text{Torque Capacity (Driver)}$$



Pre-Engineered Belt and Center Distance Selection Chart • TBR Series

All dimensions are in inches

Driver Pulley Model	P.D. Driven Sheave	Driven Speed				Shaft Center Distance (Max. RPM Position)													
		1750RPM		1150RPM		A Section Belt Sizes													
		Motor Min.	Motor Max.	Motor Min.	Motor Max.	A26	A31	A33	A35	A37	A39	A41	A43	A45	A47	A49	A53	A56	
30TBR	3.2	853	1712	561	1125	8.7	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	22.2	23.7	
	3.8	718	1441	472	947	8.2	10.7	11.7	12.7	13.7	14.7	15.7	16.7	17.7	18.7	19.7	21.7	23.2	
	4.4	621	1245	408	818	7.7	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	21.2	22.7	
	5.0	546	1096	359	720	7.2	9.6	10.7	11.7	12.7	13.7	14.7	15.7	16.7	17.7	18.7	20.7	22.2	
	5.6	488	978	320	643	6.7	9.2	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	20.2	21.7	
	6.2	440	884	289	581		8.8	9.7	10.7	11.7	12.7	13.7	14.7	15.7	16.7	17.7	19.7	21.2	
	7.0	690	783	256	514		8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	19.0	20.6	
	8.2	333	668	219	439				7.9	8.9	9.9	11.0	12.0	13.0	14.0	15.0	16.0	18.0	19.5
	9.0	303	609	199	400					8.2	9.2	10.2	11.2	12.2	13.2	14.3	15.3	17.3	18.8
10.6	258	517	169	340							8.7	9.7	10.7	11.8	12.8	13.8	15.9	17.4	
40TBR	3.2	875	2188	575	1438	8.0	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	21.5	23.0	
	3.8	737	1842	484	1211	7.5	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	21.0	22.5	
	4.4	636	1591	418	1046	7.0	9.6	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	20.6	22.1	
	5.0	560	1400	368	920	6.6	9.1	10.1	11.1	12.1	13.1	14.1	15.1	16.1	17.1	18.1	20.1	21.6	
	5.6	500	1250	329	821	6.1	8.6	9.6	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	19.7	21.1	
	6.2	452	1129	297	742		8.1	9.1	10.1	11.1	12.1	13.1	14.1	15.1	16.1	17.1	19.1	20.6	
	7.0	400	1000	263	657			8.4	9.4	10.4	11.4	12.4	13.4	14.4	15.4	16.4	18.4	19.9	
	8.2	342	854	224	561					8.3	9.4	10.4	11.4	12.4	13.4	14.4	15.4	17.4	18.9
	9.0	311	778	204	511						8.6	9.6	10.7	11.7	12.7	13.7	14.7	16.7	18.2
10.6	264	660	174	434							9.2	10.2	11.2	12.2	13.3	15.3	16.8		

Driver Pulley Model	P.D. Driven Sheave	Driven Speed				Shaft Center Distance (Max. RPM Position)												
		1750RPM		1150RPM		B Section Belt Sizes												
		Motor Min.	Motor Max.	Motor Min.	Motor Max.	B35	B38	B42	B46	B48	B50	B53	B56	B60	B64	B68	B71	B75
50TBR	4.0	726	2034	477	1336	11.6	13.1	15.1	17.1	18.1	19.1	20.6	22.1	24.1	26.0	28.8	29.6	31.6
	4.6	631	1769	415	1162	11.1	12.6	14.6	16.6	17.6	18.6	20.1	21.6	23.6	25.6	27.6	29.1	31.1
	5.0	581	1628	382	1069	10.8	12.4	14.3	16.3	17.3	18.3	19.8	21.3	23.3	25.3	27.3	28.8	30.8
	5.6	519	1453	341	954	10.3	11.8	13.8	15.8	16.8	17.9	19.4	20.9	22.9	24.9	26.9	28.4	30.3
	6.2	469	1313	308	863	9.9	11.4	13.4	15.4	16.4	17.4	18.9	20.4	22.4	24.4	26.4	27.9	29.9
	6.8	427	1197	281	786	9.4	10.9	12.9	14.9	15.9	16.9	18.4	19.9	21.9	23.9	25.9	27.4	29.4
	7.4	393	1100	258	722	8.8	10.4	12.4	14.4	15.4	16.4	17.9	19.4	21.4	23.4	25.4	26.9	28.9
	8.0	363	1017	239	668	8.3	9.8	11.8	13.9	14.9	15.9	17.4	18.9	20.9	22.9	24.9	26.4	28.4
	9.4	309	866	203	569			10.6	12.6	13.6	14.7	16.2	17.7	19.7	21.7	23.7	25.2	27.2
11.0	264	740	174	431				11.2	12.2	13.2	14.8	16.3	18.3	20.3	22.3	23.8	25.9	
57TBR	5.2	740	1817	487	1164	10.1	11.6	13.6	15.6	16.6	17.6	19.0	20.6	22.6	24.6	26.6	28.1	30.1
	5.6	688	1688	452	1109	9.8	11.3	13.3	15.3	16.3	17.3	18.8	20.3	22.3	24.3	26.3	27.8	29.8
	6.2	621	1524	408	1002	9.3	10.8	12.8	14.8	15.8	16.8	18.3	19.8	21.8	23.8	25.8	27.3	29.3
	6.8	566	1390	372	913	8.8	10.3	12.3	14.3	15.3	16.3	17.8	19.3	21.3	23.3	25.3	26.8	28.8
	7.4	520	1277	342	839	8.3	9.8	11.8	13.8	14.8	15.8	17.3	18.8	20.8	22.8	24.8	26.3	28.3
	8.0	481	1181	316	776		9.3	11.3	13.3	14.3	15.3	16.8	18.3	20.3	22.3	24.3	25.8	27.8
	9.4	410	1005	269	661			10.1	12.1	13.1	14.1	15.6	17.1	19.2	21.2	23.2	24.7	26.7
	11.0	350	859	230	565					11.7	12.7	14.2	15.8	17.8	19.8	21.8	23.3	25.3
	12.4	311	762	204	501								13.0	16.5	18.6	20.6	22.1	24.1
13.6	283	695	186	457									15.4	17.5	19.5	21.0	23.1	
66TBR	5.6	969	1938	637	1274	9.1	10.6	12.6	14.6	15.6	16.6	18.1	19.6	21.6	23.6	25.6	27.1	29.1
	6.2	875	1750	575	1150	8.7	10.2	12.2	14.2	15.2	16.2	17.7	19.2	21.2	23.2	25.2	26.7	28.7
	6.8	798	1596	524	1114	8.2	9.7	11.7	13.7	14.7	15.7	17.2	18.7	20.7	22.7	24.7	26.2	28.2
	7.4	733	1466	482	964	7.7	9.2	11.2	13.2	14.2	15.2	16.7	18.2	20.2	22.2	24.2	25.7	27.7
	8.0	678	1356	446	891		8.7	10.7	12.7	13.7	14.7	16.2	17.7	19.7	21.7	23.7	25.2	27.2
	9.4	577	1154	379	758			9.5	11.6	12.6	13.6	15.1	16.6	18.6	20.6	22.6	24.1	26.1
	11.0	493	986	324	648					11.2	12.2	13.7	15.2	17.2	19.2	21.2	22.7	24.8
	12.4	438	875	288	573							12.5	14.0	16.0	18.0	20.0	21.5	23.6
	13.6	399	798	262	524									14.9	16.9	19.0	20.5	22.5
15.4	352	705	232	463										15.3	17.3	18.9	20.9	
86TBR	7.4	1223	1958	803	1287		7.6	9.6	11.6	12.6	13.6	15.2	16.6	18.6	20.6	22.6	24.1	26.1
	8.0	1131	1811	743	1190			9.1	11.1	12.1	13.1	14.6	16.1	18.1	20.1	22.1	23.6	25.6
	8.6	1052	1685	691	1107				10.7	11.7	12.7	14.2	15.7	17.7	19.7	21.7	23.2	25.2
	9.4	963	1542	633	1013				10.0	11.0	12.0	13.5	15.0	17.0	19.0	21.0	22.5	24.5
	11.0	823	1317	541	866							12.2	13.7	15.7	17.7	19.7	21.2	23.2
	12.4	730	1169	480	768								12.5	14.5	16.5	18.5	20.1	22.1
	13.6	665	1065	437	700									13.5	15.5	17.5	19.0	21.1
15.4	588	941	386	618											16.0	17.5	19.5	