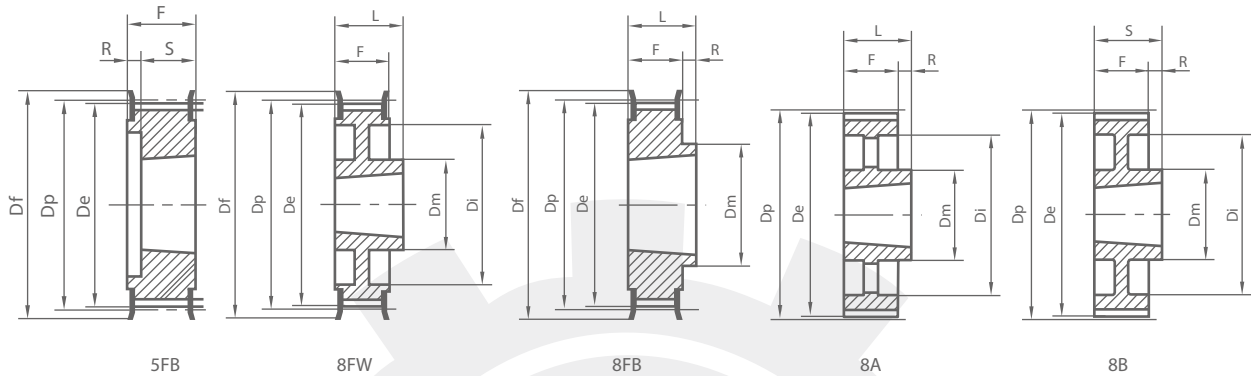


T_B^{aper} HTP Timing pulley

BTL



HTP 8M-20

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB22-8M-20F	5FB	1008	22	56.02	54.65	60	—	37	28	22	6
TB24-8M-20F	5FB	1108	24	61.11	59.75	67	—	44	28	22	6
TB26-8M-20F	5FB	1108	26	66.21	64.84	67	—	45	28	22	6
TB28-8M-20F	5FB	1108	28	71.30	70.08	75	—	50	28	22	6
TB30-8M-20F	5FB	1108	30	76.39	75.13	83	—	58	28	22	6
TB32-8M-20F	5FB	1610	32	81.49	80.16	87	—	63	28	25	3
TB34-8M-20F	5FB	1610	34	86.58	85.21	91	—	64	28	25	3
TB36-8M-20F	5FB	1610	36	91.67	90.30	97	—	68	28	25	3
TB38-8M-20F	5FB	1610	38	96.77	95.39	102	—	72	28	25	3
TB40-8M-20F	5FB	1610	40	101.86	100.49	112	—	76	28	25	3
TB44-8M-20F	8FB	2012	44	112.05	110.67	120	92	—	28	32	4
TB48-8M-20F	8FB	2012	48	122.23	120.86	128	96	—	28	32	4
TB56-8M-20F	8FB	2012	56	142.60	141.23	150	110	—	28	32	4
TB64-8M-20F	8FW	2012	64	162.97	161.60	168	110	137	28	32	4
TB72-8M-20F	8FW	2012	72	183.35	181.97	192	110	158	28	32	4
TB80-8M-20	8B	2012	80	203.72	202.35	—	110	180	28	32	4
TB90-8M-20	8A	2012	90	229.18	227.81	—	110	204	28	32	4

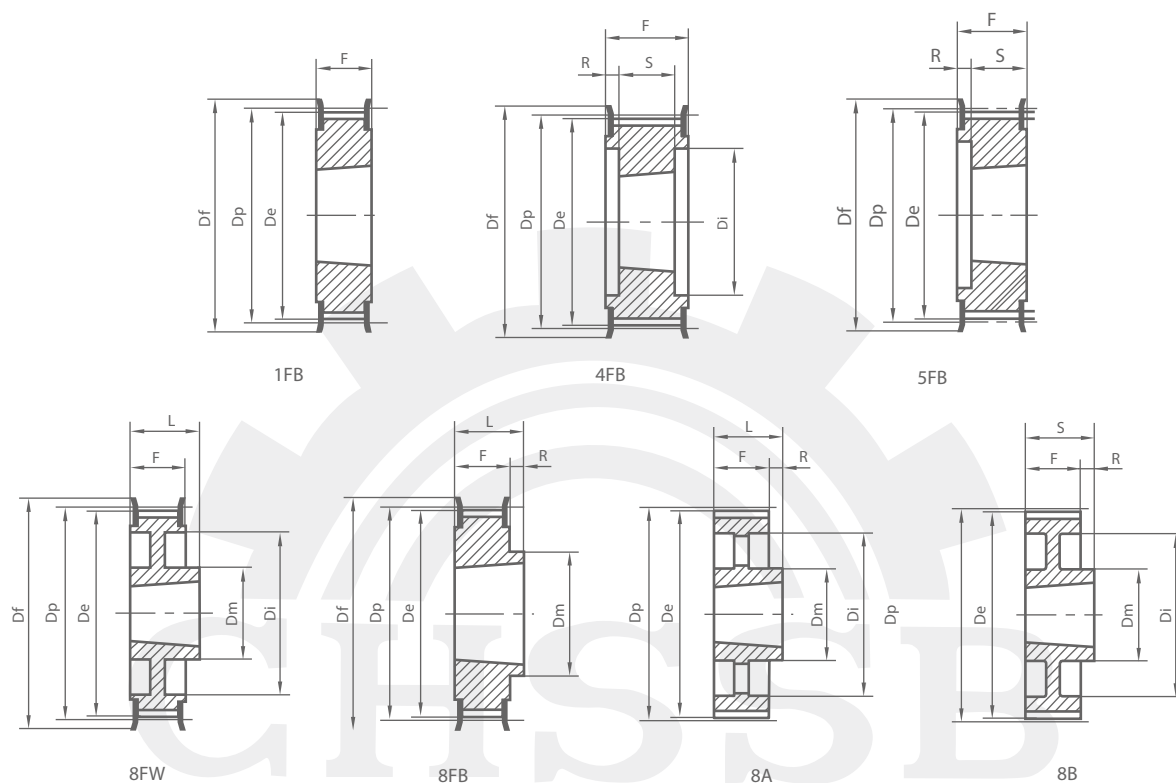
Standard bore dimensions of BTL bushings

Bushing	Stock Bores																									
	10	11	12	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50					
1108	●	●	●	●	●	●	●	●	●	●	●	△														
1210		●	●	●	●	●	●	●	●	●	●	●	●	●												
1610				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	△							
2012						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

△ shallow keyway

$T_{B_{ore}}^{aper}$ HTP Timing pulley

BTL

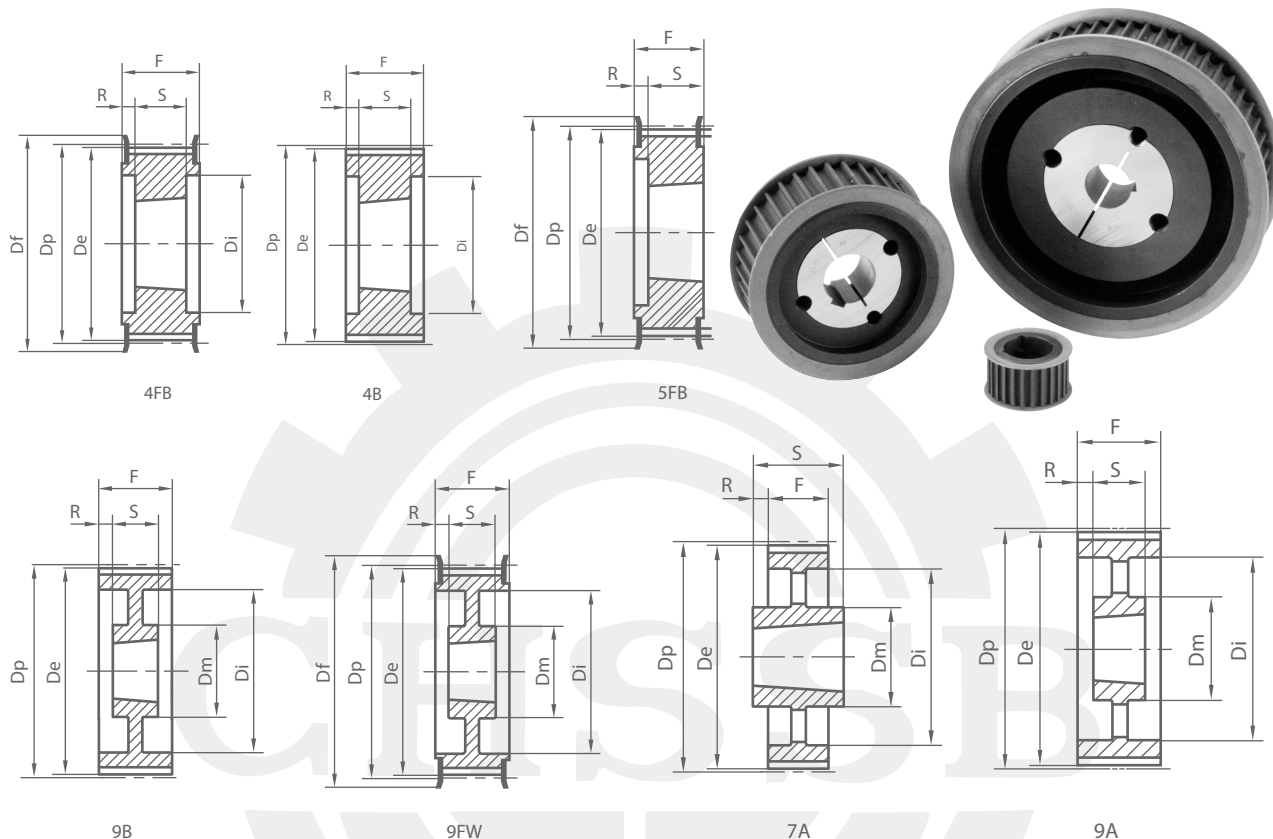


HTP 8M-30

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB22-8M-30F	5FB	1008	22	56.02	54.65	60	—	37	38	22	16
TB24-8M-30F	5FB	1108	24	61.11	59.74	67	—	44	38	22	16
TB26-8M-30F	5FB	1108	26	66.21	64.84	70	—	44	38	22	16
TB28-8M-30F	5FB	1210	28	71.30	70.08	75	—	50	38	25	13
TB30-8M-30F	1FB	1615	30	76.39	75.13	83	—	—	38	38	—
TB32-8M-30F	1FB	1615	32	81.49	80.16	87	—	—	38	38	—
TB34-8M-30F	1FB	1615	34	86.58	85.21	91	—	—	38	38	—
TB36-8M-30F	1FB	1615	36	91.67	90.30	97	—	—	38	38	—
TB38-8M-30F	1FB	1615	38	96.77	95.39	102	—	—	38	38	—
TB40-8M-30F	1FB	1615	40	101.86	100.49	112	—	—	38	38	—
TB44-8M-30F	4FB	2012	44	112.05	110.67	120	—	86	38	32	3
TB48-8M-30F	4FB	2012	48	122.23	120.86	128	—	90	38	32	3
TB56-8M-30F	4FB	2012	56	142.60	141.23	150	—	110	38	32	3
TB64-8M-30F	8FB	2517	64	162.97	161.60	168	125	—	38	45	7
TB72-8M-30F	8FW	2517	72	183.35	181.97	192	125	158	38	45	7
TB80-8M-30	8B	2517	80	203.72	202.35	—	125	180	38	45	7
TB90-8M-30	8B	2517	90	229.18	227.81	—	125	204	38	45	7
TB112-8M-30	8A	2517	112	285.21	283.83	—	125	254	38	45	7
TB144-8M-30	8A	2517	144	366.69	365.32	—	125	336	38	45	7

$T_{B \text{ aper ore}}$ HTP Timing pulley

BTL

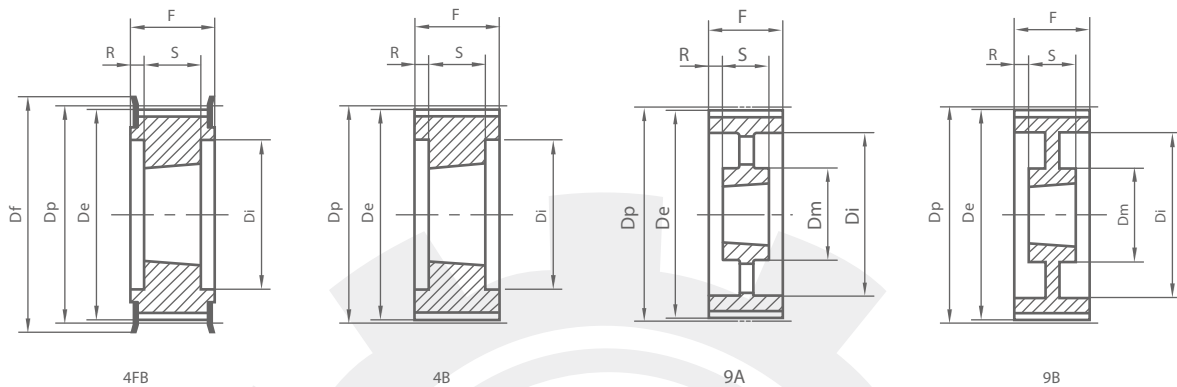


HTP 8M-50

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB28-8M-50F	5FB	1210	28	71.30	70.08	75	—	50	60	25	35
TB30-8M-50F	5FB	1615	30	76.39	75.13	83	—	58	60	38	22
TB32-8M-50F	5FB	1615	32	81.49	80.16	87	—	63	60	38	22
TB34-8M-50F	5FB	1615	34	86.58	85.21	91	—	65	60	38	22
TB36-8M-50F	5FB	1615	36	91.67	90.30	97	—	68	60	38	22
TB38-8M-50F	5FB	1615	38	96.77	95.39	102	—	72	60	38	22
TB40-8M-50F	4FB	2012	40	101.86	100.49	112	—	80	60	32	14
TB44-8M-50F	4FB	2012	44	112.05	110.67	120	—	86	60	32	14
TB48-8M-50F	4FB	2012	48	122.23	120.86	128	—	95	60	32	14
TB56-8M-50F	4FB	2517	56	142.60	141.23	150	—	116	60	45	7.5
TB64-8M-50F	4FB	2517	64	162.97	161.60	168	—	136	60	45	7.5
TB72-8M-50F	9FW	2517	72	183.35	181.97	192	125	158	60	45	7.5
TB80-8M-50	4B	3020	80	203.72	202.35	—	—	180	60	51	4.5
TB90-8M-50	9B	3020	90	229.18	227.81	—	160	204	60	51	4.5
TB112-8M-50	9B	3020	112	285.21	283.83	—	170	254	60	51	4.5
TB144-8M-50	9A	3020	144	366.69	365.32	—	170	336	60	51	4.5
TB168-8M-50	7A	3525	168	427.81	426.44	—	198	392	60	65	2.5
TB192-8M-50	7A	3525	192	488.92	487.55	—	198	455	60	65	2.5

T_{Bore}^{aper} HTP Timing pulley

BTL



HTP 8M-85

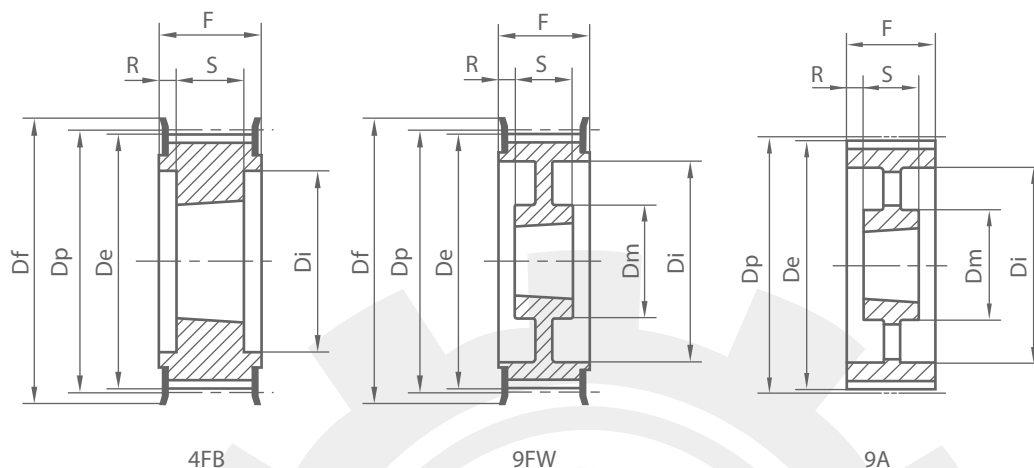
SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB34-8M-85F	4FB	1615	34	86.58	85.22	91	—	65	95	38	28.5
TB36-8M-85F	4FB	1615	36	91.67	90.30	97	—	68	95	38	28.5
TB38-8M-85F	4FB	1615	38	96.77	95.39	102	—	72	95	38	28.5
TB40-8M-85F	4FB	2012	40	101.86	100.49	112	—	80	95	32	31.5
TB44-8M-85F	4FB	2012	44	112.05	110.67	120	—	86	95	32	31.5
TB48-8M-85F	4FB	2517	48	122.23	120.86	128	—	97	95	45	25
TB56-8M-85F	4FB	2517	56	142.60	141.23	150	—	116	95	45	25
TB64-8M-85F	4FB	2517	64	162.97	161.60	168	—	136	95	45	25
TB72-8M-85F	4FB	3020	72	183.35	181.97	192	—	150	95	51	22
TB80-8M-80	4B	3020	80	203.72	202.35	—	—	180	95	51	22
TB90-8M-85	9B	3020	90	229.18	227.81	—	170	204	95	51	22
TB112-8M-85	9B	3020	112	285.21	283.83	—	170	254	95	51	22
TB144-8M-85	9A	3525	144	366.69	365.32	—	198	336	95	65	15
TB168-8M-85	9A	3525	168	427.81	426.44	—	198	395	95	65	15
TB192-8M-85	9A	3525	192	488.92	487.55	—	198	455	95	65	15

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																							
		14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75
1615	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	△								
2012			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
2517					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
3030								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

△ shallow keyway

$T_{B \text{ ore}}^{\text{aper}}$ HTP Timing pulley BTL



HTP 14M-40

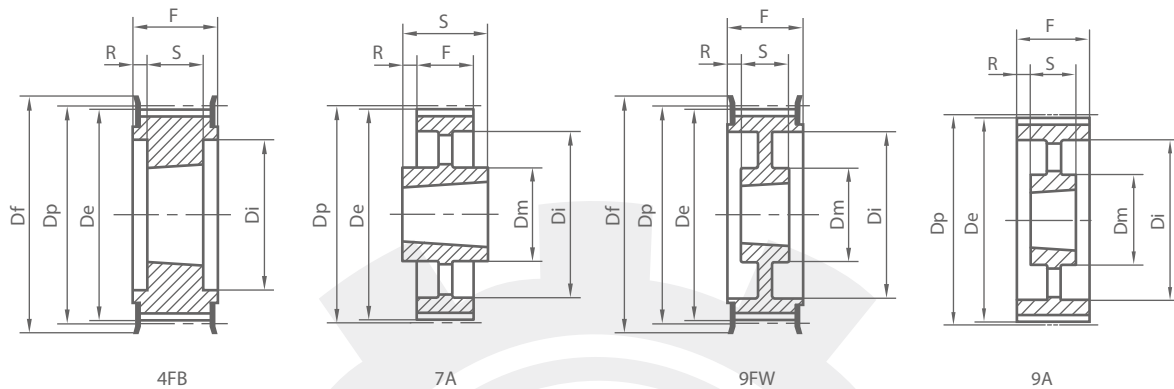
SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB28-14M-40F	4FB	2012	28	124.78	122.12	135	—	94	54	32	11
TB29-14M-40F	4FB	2012	29	129.23	126.57	150	—	100	54	32	11
TB30-14M-40F	4FB	2012	30	133.69	130.99	150	—	98	54	32	11
TB32-14M-40F	4FB	2012	32	142.60	139.88	168	—	108	54	32	11
TB34-14M-40F	4FB	2517	34	151.52	148.79	168	—	110	54	45	4.5
TB36-14M-40F	4FB	2517	36	160.43	157.68	175	—	120	54	45	4.5
TB38-14M-40F	4FB	2517	38	169.34	166.60	192	—	130	54	45	4.5
TB40-14M-40F	4FB	2517	40	178.25	175.49	200	—	138	54	45	4.5
TB44-14M-40T	4FB	3020	44	196.08	193.28	211	—	155	54	51	1.5
TB48-14M-40F	4FB	3020	48	213.90	211.11	226	—	170	54	51	1.5
TB56-14M-40F	4FB	3020	56	249.55	246.76	265	170	208	54	51	1.5
TB64-14M-40F	9FW	3020	64	285.21	282.41	296	170	240	54	51	1.5
TB72-14M-40	9A	3020	72	320.86	318.06	—	170	280	54	51	1.5
TB80-14M-40	9A	3020	80	356.51	353.71	—	170	315	54	51	1.5
TB90-14M-40	9A	3020	90	401.07	398.28	—	170	360	54	51	1.5
TB112-14M-40	9A	3020	112	499.11	496.32	—	170	457	54	51	1.5
TB144-14M-40	9A	3020	144	641.71	638.92	—	170	600	54	51	1.5
TB168-14M-40	9A	3020	168	748.66	745.87	—	170	706	54	51	1.5
TB192-14M-40	9A	3020	192	855.62	852.82	—	170	813	54	51	1.5
TB216-14M-40	9A	3020	216	962.57	959.76	—	170	920	54	51	1.5

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																
	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48
2012			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2517				●	●	●	●	●	●	●	●	●	●	●	●	●	●
3020							●	●	●	●	●	●	●	●	●	●	●

T_B^{aper} HTP Timing pulley

BTL



HTP 14M-55

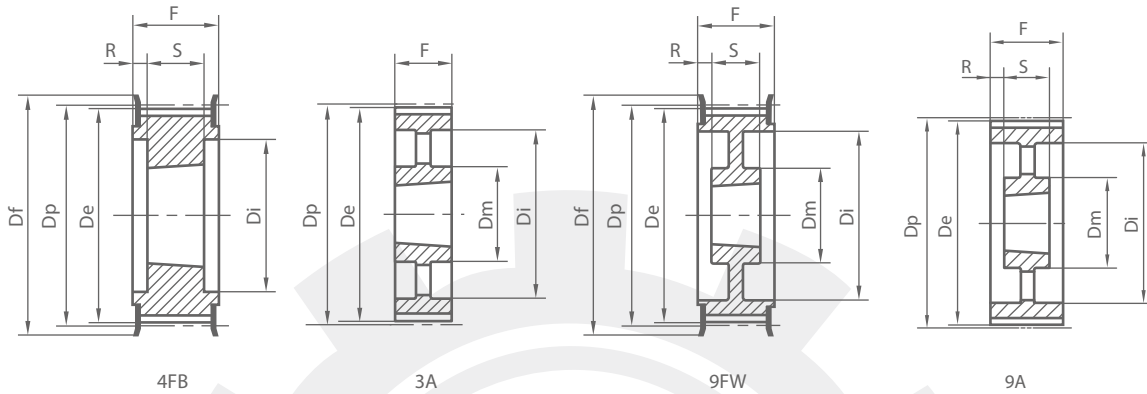
SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB28-14M-55F	4FB	2012	28	124.78	122.12	135	—	94	70	32	19
TB29-14M-55F	4FB	2012	29	129.23	126.57	150	—	100	70	32	19
TB30-14M-55F	4FB	2517	30	133.69	130.99	150	—	100	70	45	12.5
TB32-14M-55F	4FB	2517	32	142.60	139.88	168	—	108	70	45	12.5
TB34-14M-55F	4FB	2517	34	151.52	148.79	168	—	110	70	45	12.5
TB36-14M-55F	4FB	2517	36	160.43	157.68	175	—	120	70	45	12.5
TB38-14M-55F	4FB	2517	38	169.34	166.60	192	—	130	70	45	12.5
TB40-14M-55F	4FB	2517	40	178.25	175.49	200	—	138	70	45	12.5
TB44-14M-55F	4FB	3020	44	196.08	193.28	211	—	155	70	51	9.5
TB48-14M-55F	4FB	3020	48	213.90	211.11	226	—	170	70	51	9.5
TB56-14M-55F	4FB	3020	56	249.55	246.76	265	170	208	70	51	9.5
TB64-14M-55F	9FW	3020	64	285.21	282.41	296	170	240	70	51	9.5
TB72-14M-55	9B	3020	72	320.86	318.06	—	170	280	70	51	9.5
TB80-14M-55	9A	3020	80	356.51	353.71	—	170	315	70	51	9.5
TB90-14M-55	9A	3020	90	401.07	398.28	—	170	360	70	51	9.5
TB112-14M-55	9A	3020	112	499.11	496.32	—	170	457	70	51	9.5
TB144-14M-55	9A	3020	144	641.71	638.92	—	170	600	70	51	9.5
TB168-14M-55	9A	3020	168	748.66	745.87	—	170	706	70	51	9.5
TB192-14M-55	9A	3020	192	855.62	852.82	—	170	813	70	51	9.5
TB216-14M-55	7A	3535	216	962.57	959.76	—	190	920	70	89	9.5

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																									
		18	19	20	22	24	25	28	30	32	35	38	40	42	45	58	50	55	60	65	70	75	80	85	90	
2012	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
2517			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
3020						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
3535											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

T_B^{aper} HTP Timing pulley

BTL



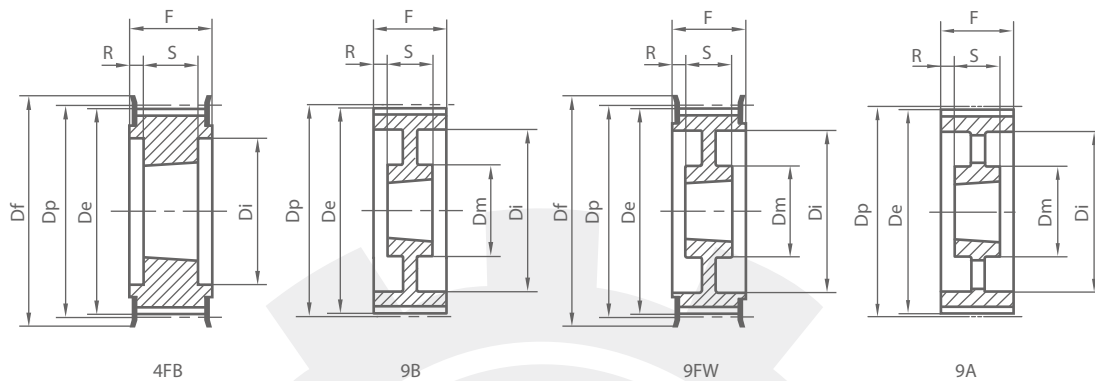
HTP 14M-85

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB28-14M-85F	4FB	2517	28	124.78	122.12	135	—	98	102	45	28.5
TB29-14M-85F*	4FB	2517	29	129.23	126.57	150	—	100	102	45	28.5
TB30-14M-85F	4FB	2517	30	133.69	130.99	150	—	100	102	45	28.5
TB32-14M-85F	4FB	2517	32	142.60	139.88	168	—	108	102	45	28.5
TB34-14M-85F	4FB	2517	34	151.52	148.79	168	—	110	102	45	28.5
TB36-14M-85F	4FB	3020	36	160.43	157.68	175	—	125	102	51	25.5
TB38-14M-85F	4FB	3020	38	169.34	166.60	192	—	130	102	51	25.5
TB40-14M-85F	4FB	3020	40	178.25	175.49	200	—	138	102	51	25.5
TB44-14M-85F	4FB	3030	44	196.08	193.28	211	—	155	102	76	13
TB48-14M-85F	4FB	3030	48	213.90	211.11	226	—	170	102	76	13
TB56-14M-85F	4FB	3525	56	249.55	246.76	265	190	210	102	65	6.5
TB64-14M-85F	9FW	3525	64	285.21	282.41	296	190	242	102	65	6.5
TB72-14M-85F	9B	3525	72	320.86	318.06	—	190	280	102	65	6.5
TB80-14M-85	9A	3525	80	356.51	353.71	—	190	315	102	65	6.5
TB90-14M-85	9A	3525	90	401.07	398.28	—	190	360	102	65	6.5
TB112-14M-85	9A	3525	112	499.11	496.32	—	190	457	102	65	6.5
TB144-14M-85	9A	3525	144	641.71	638.92	—	190	600	102	65	6.5
TB168-14M-85	9A	3525	168	748.66	745.87	—	190	706	102	65	6.5
TB192-14M-85	3A	4040	192	855.62	852.82	—	230	813	102	102	—
TB216-14M-85*	3A	4040	216	962.57	959.76	—	230	920	102	102	—

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																			
	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80
2517	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
3020			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3030			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3535							●	●	●	●	●	●	●	●	●	●	●	●	●	●
4040								●	●	●	●	●	●	●	●	●	●	●	●	●

$T_{B \text{ aper ore}}$ HTP Timing pulley BTL



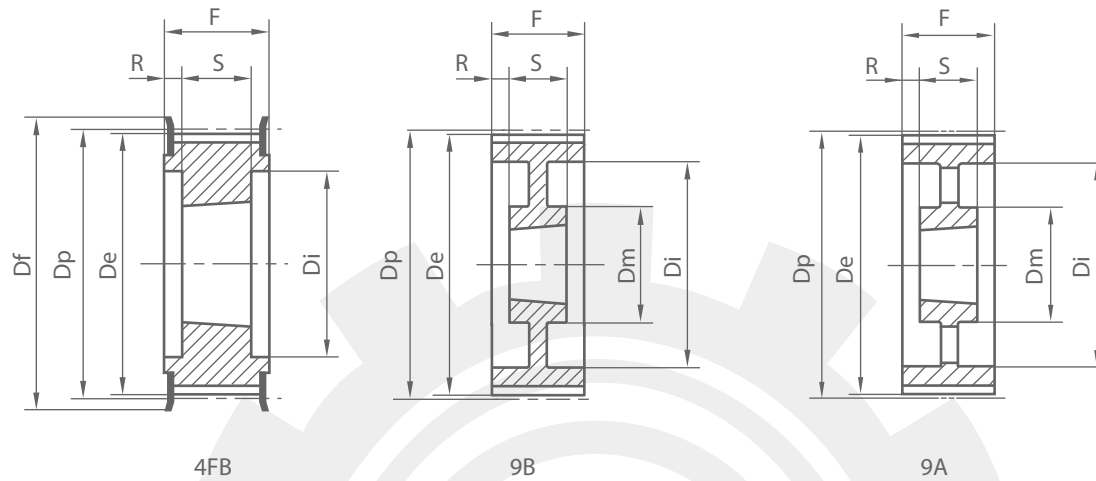
HTP 14M-115

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB28-14M-115F	4FB	2517	28	124.78	122.12	135	—	98	133	45	44
TB29-14M-115F*	4FB	2517	29	129.23	126.57	150	—	100	133	45	44
TB30-14M-115F	4FB	2517	30	133.69	130.99	150	—	100	133	45	44
TB32-14M-115F	4FB	2517	32	142.60	139.88	168	—	108	133	45	44
TB34-14M-115F	4FB	2517	34	151.52	148.79	168	—	110	133	45	44
TB36-14M-115F	4FB	3020	36	160.43	157.68	175	—	125	133	51	41
TB38-14M-115F	4FB	3020	38	169.34	166.60	192	—	130	133	51	41
TB40-14M-115F	4FB	3020	40	178.25	175.49	200	—	138	133	51	41
TB44-14M-115F	4FB	3030	44	196.08	193.28	211	—	155	133	76	28.5
TB48-14M-115F	4FB	3030	48	213.90	211.11	226	—	170	133	76	28.5
TB56-14M-115F	4FB	3535	56	249.55	246.76	265	—	210	133	89	22
TB64-14M-115F	9FW	3535	64	285.21	282.41	296	190	240	133	89	22
TB72-14M-115	9B	3535	72	320.86	318.06	—	190	280	133	89	22
TB80-14M-115	9A	3535	80	356.51	353.71	—	190	315	133	89	22
TB90-14M-115	9A	3535	90	401.07	398.28	—	190	360	133	89	22
TB112-14M-115	9A	3535	112	499.11	496.32	—	190	457	133	89	22
TB144-14M-115	9A	4040	144	641.71	638.92	—	230	600	133	102	15.5
TB168-14M-115	9A	4040	168	748.66	745.87	—	230	706	133	102	15.5
TB192-14M-115	9A	4040	192	855.62	852.82	—	230	813	133	102	15.5
TB216-14M-115*	9A	4040	216	962.57	959.76	—	230	920	133	102	15.5

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																			
	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80
2517	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
3020				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3030				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3535								●	●	●	●	●	●	●	●	●	●	●	●	●
4040										●	●	●	●	●	●	●	●	●	●	●

T_B^{aper} HTP Timing pulley BTL



HTD 14M-170

SPCFCTN	TYPE	BUSH	Z	Dp	De	Df	Dm	Di	F	S	R
TB38-14M-170F	4FB	3030	38	169.34	166.60	192	—	130	187	76	55.5
TB40-14M-170F	4FB	3030	40	178.25	175.49	200	—	140	187	76	55.5
TB44-14M-170F	4FB	3535	44	196.08	193.28	211	—	155	187	89	49
TB48-14M-170F	4FB	3535	48	213.90	211.11	226	—	175	187	89	49
TB56-14M-170F	4FB	3535	56	249.55	246.76	265	—	210	187	89	49
TB64-14M-170F	4FB	4040	64	285.21	282.41	296	—	240	187	102	42.5
TB72-14M-170	9B	4040	72	320.86	318.06	—	230	280	187	102	42.5
TB80-14M-170	9B	4040	80	356.51	353.71	—	230	315	187	102	42.5
TB90-14M-170	9A	4040	90	401.07	398.28	—	230	360	187	102	42.5
TB112-14M-170	9A	5050	112	499.11	496.32	—	265	456	187	127	30
TB144-14M-170	9A	5050	144	641.71	638.92	—	265	600	187	127	30
TB168-14M-170	9A	5050	168	748.66	745.87	—	265	706	187	127	30
TB192-14M-170	9A	5050	192	855.62	852.82	—	265	813	187	127	30
TB216-14M-170	9A	5050	216	962.57	959.76	—	265	920	187	127	30

Standard bore dimensions of BTL bushings

Bushing	Stock Bores																			
	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	95
3030	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
3535					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4040						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5050													●	●	●	●	●	●	●	●