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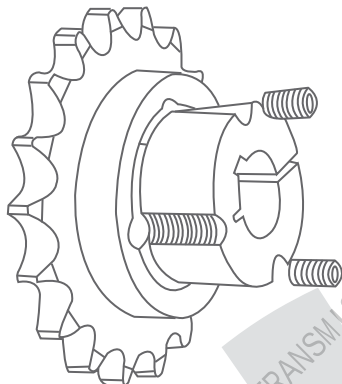


SHIJIAZHUANG CAPT POWER TRANMISSION CO., LTD.



CAPT-BTL

1045 Taper bushing



**High strength, High precision,
High cost effectiveness, Safe and
reliable, Environmental friendly,
Energy conservation and consumption
reduction**

BTL TAPER BUSHING INSTALLATION INSTRUCTIONS

TO ASSEMBLE

1. Clean and degrease the bore and taper surfaces of the bush and the tapered bore of the pulley. Insert the bush into the pulley hub and line up holes (half thread holes must line up with half unloading holes)

2. Lightly oil the grub screws (bush size 1008 to 3030) or the cap screws (bush size to 5050) and screw them in, not tighten yet.

3. Clean and degrease the shaft. Fit pulley with taper bush on shaft and locate in desired position.

4. When using a key it should firstly be fitted in the shaft Keyway. There should be a top clearance between the key and the keyway in the bore.

5. Using a hexagon socket wrench gradually tighten the grub cap screws in accordance with the torques as listed in the schedule of screw tightening torques.

6. When the drive has been operating under load for a short period (half to one hour) check and ensure that the screws remain at the appropriate tightening torque.

7. In order to eliminate the ingress of dirt, fill all empty holes with grease.

BUSH	SCREW TIGHTENING TORQUES(Nm)	SCREW	
		QUANTITY	SIZE
1008 1108	5.6	2	1/4" BSW
1210 1215	20	2	3/8" BSW
1310 1315	20	2	3/8" BSW
1610 1615	20	2	3/8" BSW
2012	31	2	7/16" BSW
2517	48	2	1/2" BSW
3020 3030	90	2	5/8" BSW
3535	112	3	1/2" BSW
4040	170	3	5/8" BSW
4545	192	3	3/4" BSW
5050	271	3	7/8" BSW

The BTL taper bushings are registered patent products. Any production and sale should be authorised and permitted.

Special Note

BTL bushings are made of C45.
We can also offer other materials according to customers' requirements.

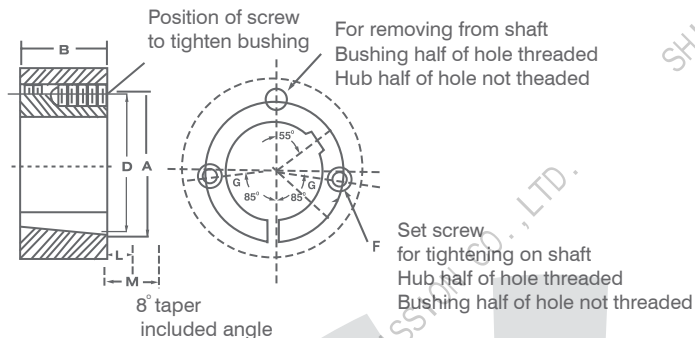
We can do surface coating according to the customers' requirements,* (such as black phosphating, black oxidizing, zinc plating, nickel plating and so on)

Each part is individually boxed.

BTL bushings are inserted with high quality 12.9 grade screws.

CAPT-BTL **1045 Taper bushing**

A1008-A120100
Full series 1045
steel

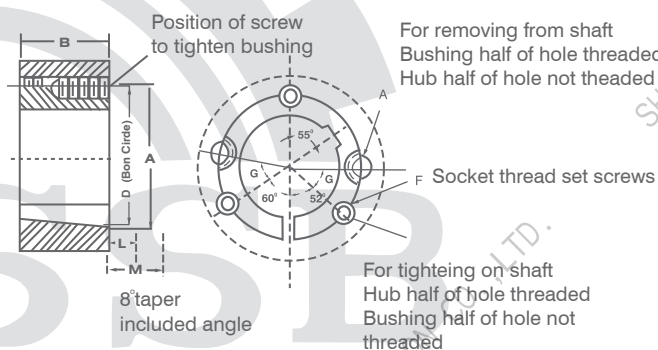
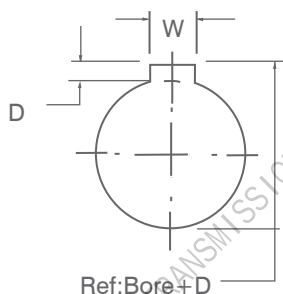


3535 thru 5050 sizes

Dimensions for 1008 thru 3030 BTL Taper Bushings

BUSH	A	B	D	Set Screws
1008	1.386	7/8	1 21/64	1/4x1/2
1108	1.511	7/8	1 29/64	1/4x1/2
1210	1 7/8	1	1 3/4	3/8x5/8
1215	1 7/8	1 1/2	1 3/4	3/8x5/8
1310	2	1	1 7/8	3/8x5/8
1610	2 1/4	1	2 1/8	3/8x5/8
1615	2 1/4	1 1/2	2 1/8	3/8x5/8
2012	2 3/4	1 1/4	2 5/8	7/16x7/8
2517	3 3/8	1 3/4	3 1/4	1/2x1
2525	3 3/8	2 1/2	3 1/4	1/2x1
3020	4 1/4	2	4	5/8x1 1/4
3030	4 1/4	3	4	5/8x1 1/4

Two screws required



Dimensions for 3535 thru 5050 BTL Taper Bushings

BUSH	A	B	D	Set Screws	G
3535	5	3 1/2	4.83	1/2x1 1/2	40°
4040	5 3/4	4	5.54	5/8x1 3/4	40°
4545	6 3/8	4 1/2	6.13	3/4x2	40°
5050	7	5	6.72	7/8x2 1/4	37°

Three screws required



MM Bore keyway dimensions conform to ISO standard
Depth measured at centerline

SHIJIAZHUANG CAPT POWER TRANSMISSION CO., LTD.

CAPT-BTL

1045 Taper bushing KEYWAY

DIN 6885
JIS B 1301-1996
GB/T 1095-2003

METRIC DIMENSIONS KEYWAY STANDARD (SERIES A)

Bush	Bore	Bushing Keyway	Bush	Bore	Bushing Keyway	Bush	Bore	Bushing Keyway	Bush	Bore	Bushing Keyway	Bush	Bore	Bushing Keyway	Bush	Bore	Bushing Keyway	
1008	10	3x1.40	1610	14	5x2.30	2517	20	6x2.80	3020	25	8x3.30	3535	35	10x3.30	4545	55	16x4.30	
	11	4x1.80		16			22			28			38	10x3.30		60	18x4.40	
	12			18			24			30			40	12x3.30		65		
	14	5x2.30		19	6x2.80		25	8x3.30		32	10x3.30		42	12x3.30		70	20x4.90	
	16			20			28			35			45	14x3.80		75		
	18			22			30			38			48	14x3.80		80	22x5.40	
	19	6x2.80		24	8x3.30		32	10x3.30		40	12x3.30		50	16x4.30		85		
	20			25			35	10x3.30		42	12x3.30		55	16x4.30		90	25x5.4	
	22			28			38			45			60	18x4.40		95		
	24	8x2.00		30			40	12x3.30		48	14x3.80		50			65	18x4.40	100
△	25	8x1.30	32	10x3.30	42	12x3.30	45		55	16x4.30	70	20x4.90	105	28x6.40				
1180	10	3x1.40	1615	35	10x3.30	2525	45	14x3.80	3030	55	16x4.30	4040	75	20x4.90	5050	110		
	11	4x1.80		38			48	14x3.80		60	18x4.40		80	22x5.40				
	12			40	12x3.30		50			65	18x4.40		85	22x5.40				
	14	5x2.30		42	12x2.20		55	16x4.30		70	20x4.90		90	25x5.40				
	16						60	18x4.40		75			95					
	18			14	5x2.30													
	19	6x2.80		16			20	6x2.80		25	8x3.30		40	12x3.30		60	18x4.40	
	20			18	6x2.80		22			28			42	12x3.30		65		
	22			20			24			30			45	14x3.80		70	20x4.90	
	24	8x3.30		24	8x3.30		32	10x3.30		40	12x3.30		48	14x3.80		80	22x5.40	
△	25	8x2.00	35	10x3.30	20	6x2.80	25	8x3.30	40	12x3.30	42	12x3.30	60	18x4.40				
1210	11	4x1.80	2012	38		2525	22		3030	28		4040	45		5050	65		
	12			24			30			48	14x3.80		75	20x4.90				
	14	5x2.30		25	8x3.30		32	10x3.30		50			80	22x5.40				
	16			28			35			55	16x4.30		85					
	18	6x2.80		30			38			60	18x4.40		90	25x5.40				
	19			32	10x3.30		40	12x3.30		65	18x4.40		95					
	20			35			42	12x3.30		70	20x4.90		100	28x6.40				
	22			38			45			75								
	24	8x3.30		40	12x3.30		48	14x3.80										
	25			42	12x2.20		50			55	16x4.30							
1215	28		2015	45		2525	25	8x3.30	3030	32	10x3.30	4040	55	16x4.30	5050	70	20x4.90	
	30			28			35			60	18x4.40		85	22x5.40				
	32	10x3.30		30			38			65	18x4.40		90	25x5.40				
	11	4x1.80		32	10x3.30		40	12x3.30		70	20x4.90		95					
	12			35			42	12x3.30		75			100	28x6.40				
	14	5x2.30		38			45											
	16			40	12x3.30		48	14x3.80										
	18	6x2.80		42	12x3.30		50											
	19			45			55	16x4.30										
	20			48			60	18x4.40										
22		50		65	18x4.40													
1310	24	8x3.30	2012	55	16x4.30	2525	60	18x4.40	3030	70	20x4.90	4040	80	22x5.40	5050	115	32x7.40	
	25			60			75			85	22x5.40		120					
	28												125					
	30																	
	32	10x3.30																
	14	5x2.30																
	16																	
	18	6x2.80																
	19																	
	20																	
22																		
1310	24	8x3.30	2012	45	14x3.80	2525	55	16x4.30	3030	65	18x4.40	4040	90	25x5.40	5050	125		
	25			60			70			85	22x5.40							
	28																	
	30																	
1310	32	10x3.30	2012	32	10x3.30	2525	40	12x3.30	3030	48	14x3.80	4040	55	16x4.30	5050			
	35			35			50			60	18x4.40		70	20x4.90				

CAPT-T_{aper} B_{ore} Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

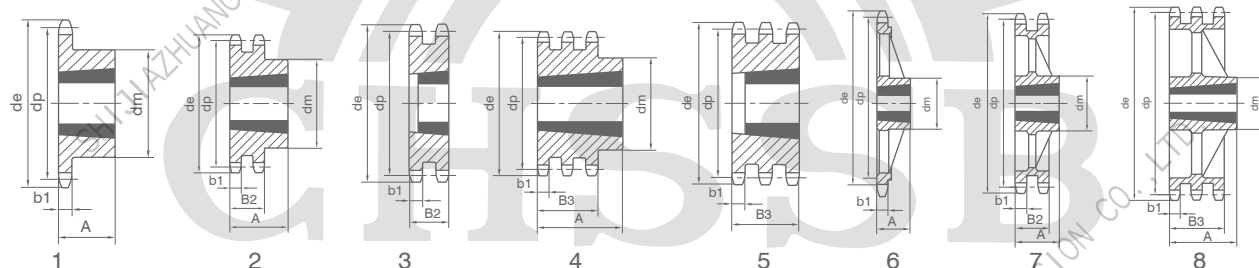
BTL

06B

3/8"X7/4"



	Pinions		mm
	Tooth radius	r_3	10
	Radius Width	C	1
	Tooth Width	B_1	5.3
	Tooth Width	b_1	5.2
	Tooth Width	B_2	15.4
	Tooth Width	B_3	25.6
ROLLER-Ø0.635mm			



06B 3/8"x7/32"

E	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
			dm	A	BUSH	TYPE	dm	A	BUSH	TYPE	dm	A	BUSH	TYPE
17	55.5	51.83	45	22	1008	1	43	22	1008	2	—	25.6	1008	5
18	58.6	54.85	45	22	1008	1	43	22	1008	2	—	25.6	1008	5
19	61.6	57.86	45	22	1008	1	46	22	1008	2	—	25.6	1008	5
20	64.6	60.89	46	22	1008	1	48	22	1008	2	—	25.6	1008	5
21	67.6	63.90	46	22	1008	1	49	22	1008	2	—	25.6	1008	5
22	70.6	66.93	55	22	1108	1	52	22	1108	2	—	25.6	1210	5
23	73.7	69.95	63	25	1210	1	59	25	1210	2	—	25.6	1210	5
24	76.7	72.97	63	25	1210	1	61	25	1210	2	—	25.6	1210	5
25	79.7	75.99	63	25	1210	1	64	25	1210	2	—	25.6	1210	5
26	82.7	79.02	63	25	1210	1	65	25	1210	2	—	25.6	1210	5
27	85.7	82.04	63	25	1210	1	70	25	1210	2	—	25.6	1210	5
28	88.8	85.07	63	25	1210	1	70	25	1210	2	—	25.6	1210	5
30	94.8	91.12	63	25	1210	1	75	25	1210	2	79	38	1615	4
38	119.0	115.34	70	25	1210	1	80	25	1610	2	90	38	1615	4
45	141.1	136.54	70	25	1210	1	80	25	1610	2				
57	177.5	172.91	83	25	1210	6	92	25	1610	7				
76	235.1	230.49	83	25	1210	6	92	25	1610	7				
95	292.7	288.08	83	25	1210	6	92	25	1610	7				
114	350.3	345.68	83	25	1210	6	95	38	1615	7				

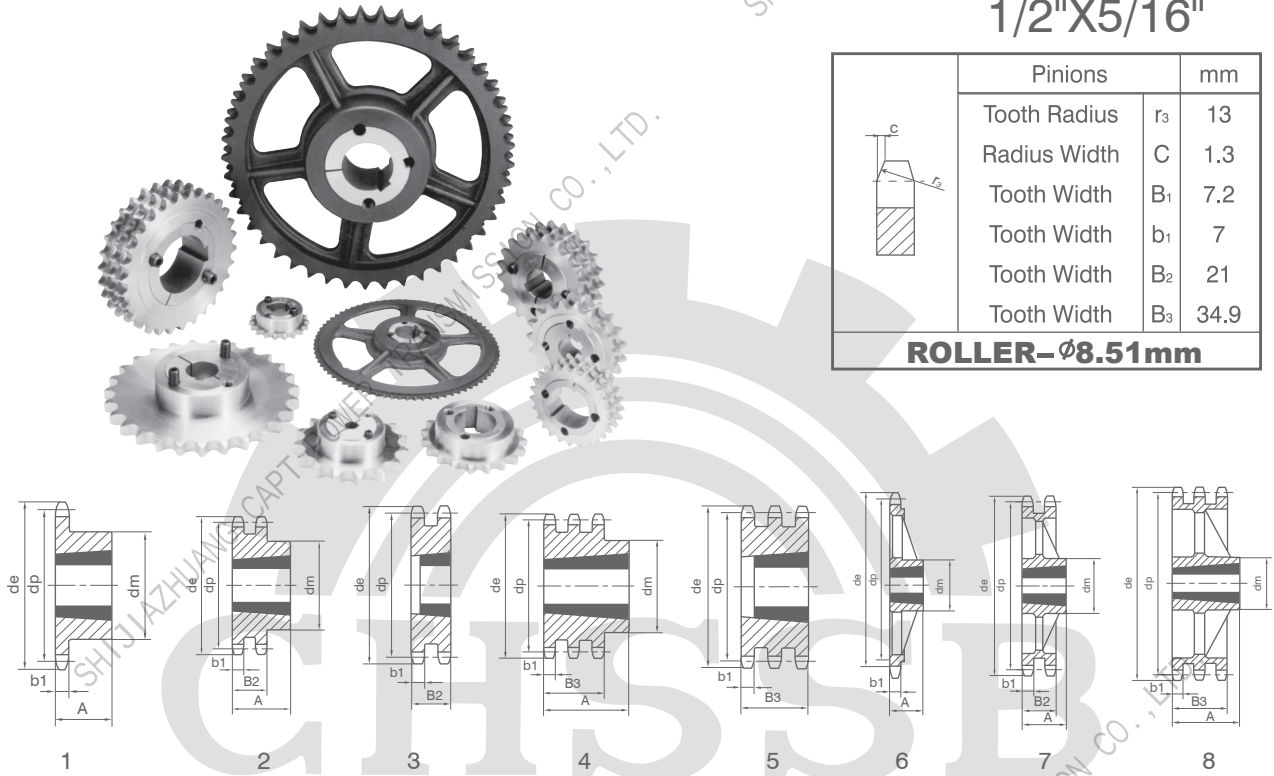
CAPT-^{aper}_{ore} **Sprockets**

FOR ROLLER CHAINS DIN8187-ISO/R 606

BTL

08B

1/2"X5/16"



08B

1/2"x5/16"

E	d_e	d_p	SIMPLEX					DUPLEX					TRIPLEX				
			d_m	A	BUSH	TYPE		d_m	A	BUSH	TYPE		d_m	A	BUSH	TYPE	
15	66.5	61.80	46	22	1008	1		46	22	1008	2		—	34.9	1008	5	
16	69.9	65.10	50	22	1108	1		50	22	1108	2		—	34.9	1210	5	
17	74.5	69.11	60	25	1210	1		56	25	1210	2		—	34.9	1210	5	
18	78.0	73.14	60	25	1210	1		60	25	1210	2		—	34.9	1210	5	
19	82.5	77.15	63	25	1210	1		62	25	1210	2		62	38	1215	4	
20	86.0	81.19	71	25	1610	1		66	25	1610	2		70	38	1615	4	
21	90.6	85.21	71	25	1610	1		71	25	1610	2		70	38	1615	4	
22	94.1	89.24	71	25	1610	1		76	25	1610	2		70	38	1615	4	
23	98.7	93.26	76	25	1610	1		79	25	1610	2		70	38	1615	4	
24	102.1	97.29	76	25	1610	1		84	25	1610	2		70	38	1615	4	
25	106.7	101.32	76	25	1610	1		87	32	2012	2		—	34.9	2012	5	
26	110.2	105.36	76	25	1610	1		87	32	2012	2		—	34.9	2012	5	
27	114.8	109.40	76	25	1610	1		87	32	2012	2		—	34.9	2012	5	
28	118.3	113.42	90	32	2012	1		87	32	2012	2		—	34.9	2012	5	
30	126.9	121.49	90	32	2012	1		87	32	2012	2		—	34.9	2012	5	
38	159.2	153.79	90	32	2012	1		102	32	2012	2		—	34.9	2012	5	
45	188.6	182.07	102	32	2012	1		100	32	2012	7						
57	237.1	230.54	111	32	2012	6		111	32	2012	7						
76	313.9	307.33	111	32	2012	6		111	32	2012	7						
95	390.7	384.11	111	32	2012	6		111	32	2012	7						
114	467.4	460.90	120	45	2517	6		120	45	2517	7						

CAPT-*T_B*^{aper}_{ore} Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

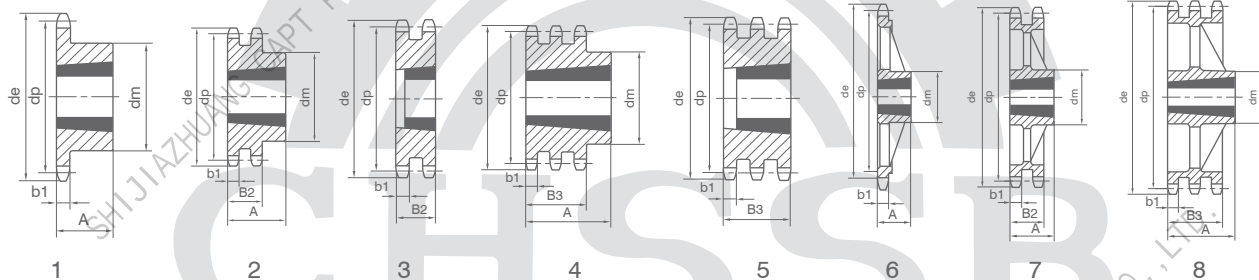
BTL

10B

5/8"X3/8"



Pinions		mm
Tooth Radius	r ₃	16
Radius Width	C	1.6
Tooth Width	B ₁	9.1
Tooth Width	b ₁	9
Tooth Width	B ₂	25.5
Tooth Width	B ₃	42.1
ROLLER-Ø10.16mm		



10B

5/8"x3/8"

E	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
			dm	A	BUSH	TYPE	dm	A	BUSH	TYPE	dm	A	BUSH	TYPE
13	73.2	66.32	47	22	1008	1	1045	25.5	1210	3	1045	42.1	1215	5
14	78.2	71.34	52	22	1108	1								
15	83.2	76.36	60	25	1210	1								
16	88.3	81.37	63	25	1210	1								
17	93.3	86.39	71	25	1610	1								
18	98.3	91.42	75	25	1610	1								
19	103.3	96.45	75	25	1610	1								
20	108.4	101.49	75	25	1610	1								
21	113.4	106.52	76	25	1610	1								
22	118.4	111.55	76	25	1610	1								
23	123.5	116.58	76	25	1610	1	1045	25.5	1610	3	1045	42.1	1615	5
24	128.5	121.62	90	32	2012	1								
25	133.6	126.66	90	32	2012	1								
26	138.6	131.70	90	32	2012	1								
27	143.6	136.74	90	32	2012	1								
28	148.7	141.78	90	32	2012	1								
30	158.8	151.87	90	32	2012	1								
38	199.1	192.24	102	32	2012	1								
45	236.0	227.58	100	32	2012	6	1045/ GG25	120	45	2517	7	1045/ GG25		
57	296.6	288.18	111	32	2012	6								
76	392.5	384.16	111	32	2012	6								
95	488.5	480.14	120	45	2517	6								
114	584.5	576.13	120	45	2517	6								

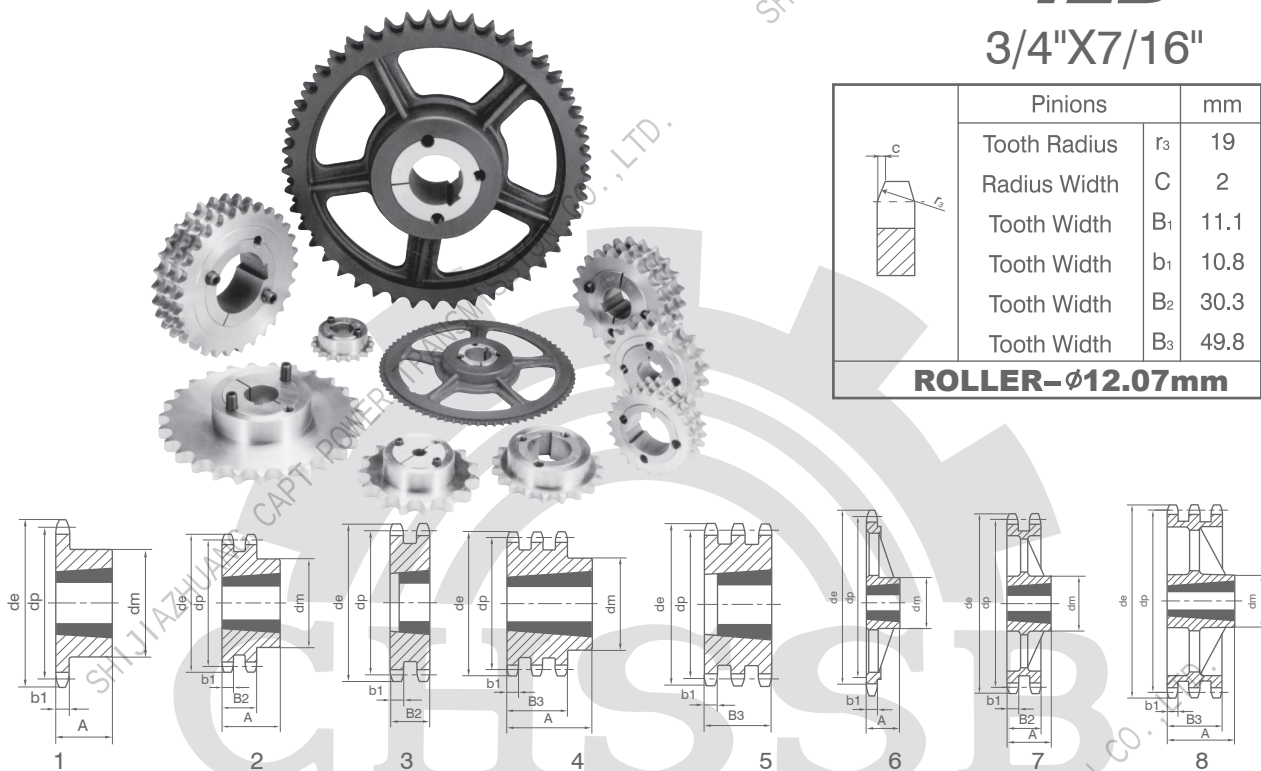
CAPT-^{aper}_{ore} B Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

BTL

12B

3/4"X7/16"



Pinions		mm
Tooth Radius	r ₃	19
Radius Width	C	2
Tooth Width	B ₁	11.1
Tooth Width	b ₁	10.8
Tooth Width	B ₂	30.3
Tooth Width	B ₃	49.8
ROLLER-Ø12.07mm		

12B 3/4"x7/16"

E	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
			dm	A	BUSH	TYPE	dm	A	BUSH	TYPE	dm	A	BUSH	TYPE
13	87.8	79.59	63	25	1210	1								
14	93.8	85.61	71	25	1610	1								
15	99.8	91.63	71	25	1610	1	71	38	1615	2	—	49.8	1615	5
16	105.8	97.65	75	25	1610	1	71	38	1615	2	—	49.8	1615	5
17	111.9	103.67	76	25	1610	1	80	38	1615	2	—	49.8	1615	5
18	117.9	109.71	90	32	2012	1	90	32	2012	2	—	49.8	2012	5
19	123.9	115.75	90	32	2012	1	95	32	2012	2	—	49.8	2012	5
20	130.0	121.78	90	32	2012	1	108	45	2517	2	—	49.8	2517	5
21	136.0	127.82	102	45	2517	1	108	45	2517	2	—	49.8	2517	5
22	142.0	133.86	108	45	2517	1	108	45	2517	2	—	49.8	2517	5
23	148.1	139.90	108	45	2517	1	108	45	2517	2	—	49.8	2517	5
24	154.1	145.94	108	45	2517	1	108	45	2517	2	—	49.8	2517	5
25	160.2	152.00	108	45	2517	1	108	45	2517	2	—	49.8	2517	5
26	166.2	158.04	108	45	2517	1	108	45	2517	2	—	49.8	2517	5
27	172.3	164.09	108	45	2517	1	108	45	2517	2	140	51	3020	4
28	178.3	170.13	108	45	2517	1	108	45	2517	2	140	51	3020	4
30	190.4	182.25	108	45	2517	1	108	45	2517	2	140	51	3020	4
38	238.9	230.69	108	45	2517	1	140	51	3020	2	140	51	3020	4
45	283.2	273.10	120	45	2517	6	150	51	3020	7	160	51	3020	8
57	355.9	345.81	124	45	2517	6	160	51	3020	7	160	51	3020	8
76	471.1	460.99	124	45	2517	6	160	51	3020	7	160	51	3020	8
95	586.2	576.17	124	45	2517	6	160	51	3020	7	160	76	3030	8
114	701.4	691.36	124	64	2525	6	160	76	3030	7	160	76	3030	8

SHIJIAZHUANG CAPT POWER TRANSMISSION CO., LTD.

CAPT-^{aper}_{ore} B Sprockets

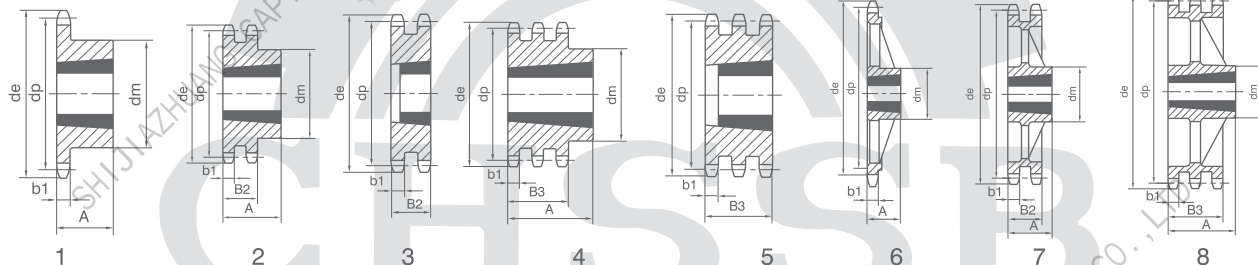
FOR ROLLER CHAINS DIN8187-ISO/R 606

BTL 16B

1"X17.02mm



Pinions		mm
Tooth Radius	r_3	26
Radius Width	C	2.5
Tooth Width	B_1	16.2
Tooth Width	b_1	15.8
Tooth Width	B_2	47.7
Tooth Width	B_3	79.6
ROLLER- $\phi 15.875\text{mm}$		



16B 1"x17.02mm

E	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
			dm	A	BUSH	TYPE	dm	A	BUSH	TYPE	dm	A	BUSH	TYPE
13	117.7	106.13	73	28	1615	1	1045	47.7	2012	3	1045	79.6	2517	5
14	125.7	114.15	76	38	1615	1								
15	133.7	122.17	76	38	1615	1								
16	141.8	130.20	90	32	2012	1								
17	149.8	138.22	90	32	2012	1								
18	157.8	146.28	108	45	2517	1								
19	165.9	154.33	108	45	2517	1								
20	173.9	162.38	110	45	2517	1								
21	182.0	170.43	110	45	2517	1								
22	190.1	178.48	110	45	2517	1								
23	198.1	186.53	110	45	2517	1	1045	51	3020	2	1045	89	3535	4
24	206.2	194.59	110	45	2517	1								
25	214.2	202.66	110	45	2517	1								
26	222.3	210.72	110	45	2517	1								
27	230.4	218.79	110	45	2517	1								
28	238.4	226.85	110	45	2517	1								
30	254.6	243.00	120	45	2517	1								
38	319.2	307.59	160	51	3020	6								
45	377.9	364.13	160	51	3020	6	1045/ GG25	76	3030	7	1045/ GG25	102	4040	8
57	474.9	416.07	160	51	3020	6								
76	628.0	614.65	160	51	3020	6								
95	782.0	768.22	160	51	3020	6								
114	935.6	921.81	160	76	3030	6								

CAPT-^{aper}_{ore} **Sprockets**

FOR ROLLER CHAINS DIN8187-ISO/R 606

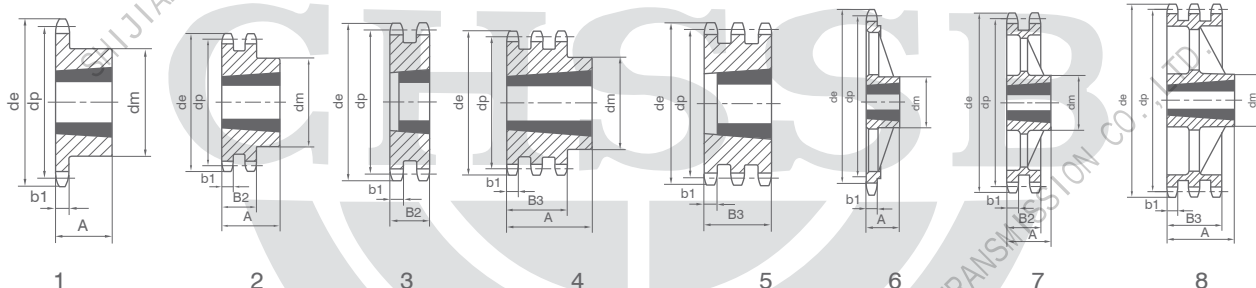
BTL

20B

1 1/4"X3/4"



Pinions		mm
Tooth Radius	r ₃	32
Radius Width	C	3.5
Tooth Width	B ₁	18.5
Tooth Width	b ₁	18.2
Tooth Width	B ₂	54.6
Tooth Width	B ₃	91
ROLLER-Ø19.05mm		



20B 1 1/4"x3/4"

Z	de	dp	SIMPLEX				
			dm	A	BUSH	TYPE	
13	147.5	132.65	90	32	2012	1	1045
15	167.7	152.72	110	45	2517	1	
17	187.7	172.78	110	45	2517	1	
19	207.8	192.91	110	45	2517	1	
21	228.0	213.04	120	45	2517	1	
23	248.2	233.17	120	45	2517	1	
25	268.4	253.33	120	45	2517	1	
27	288.5	273.48	150	51	3020	1	
30	318.7	303.75	160	51	3020	1	
38	399.4	384.49	160	51	3020	6	1045/ GG25
45	471.1	455.17	160	51	3020	6	
57	592.3	576.36	160	51	3020	6	
76	784.3	768.32	160	51	3020	6	