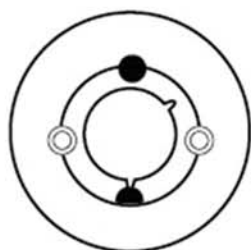


*Martin* Sprocket & Gear, Inc.

TB 退拔式錐套

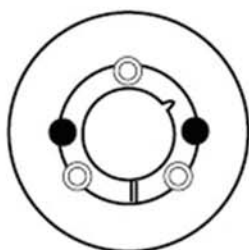


INTERNATIONAL  
CATALOGUE  
2001-I



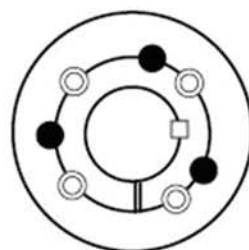
1008 to 3030

2進1出



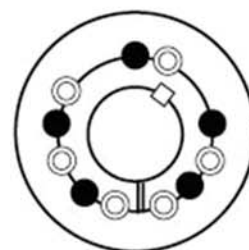
3535 to 6050

3進2出



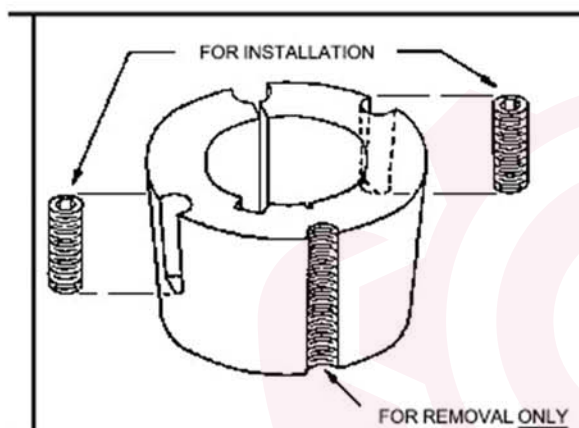
7060 to 10085

4進3出



120100

6進5出



⊙ FOR INSTALLATION 代表安裝螺孔

● FOR REMOVAL ONLY 代表拆卸螺孔

1008-3030 為四孔動平衡錐套

3535-120100 為動平衡校正錐套

全世界和歐洲專利 (NO:0045624)

## 安裝扭矩 / Recommended Wrench Torque

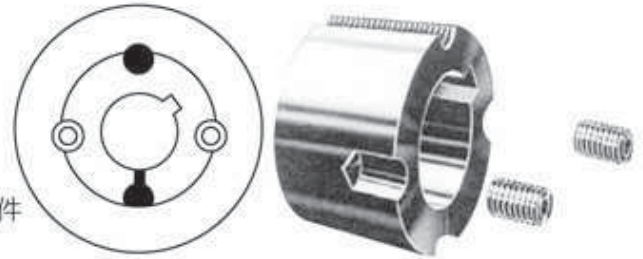
Bush Size	1008	1108	1210	1610	1615	2012	2517	3020	3030	3525	3535	4030	4040	4535	4545	5045	5050	
Screw Tightening Torque (Nm)	5.6	5.6	20	20	20	30	50	90	90	115	115	170	170	190	190	270	270	
Screw	Qty	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	
	Size (BSW)	1/4	1/4	3/8	3/8	3/8	7/16	1/2	5/8	5/8	1/2	1/2	5/8	5/8	3/4	3/4	7/8	7/8
Details	Hex. Socker Size(mm)	3	3	5	5	5	6	6	8	8	10	10	12	12	14	14	14	14
Large End Dia.(mm)	35,0	38,0	47,5	57,0	57,0	70,0	85,5	108,0	108,0	127,0	127,0	146,0	146,0	162,0	162,0	177,5	177,5	
Approx.Mass(kg)	0,1	0,1	0,2	0,3	0,5	0,7	1,5	2,7	3,6	3,8	5,0	5,6	7,7	7,5	10,0	11,1	14,0	

When ordering Bushings give: Number stamped on large end of bushing, bore, and quantity.

★ If two bushings are used in the same sheave, pulley, or other unit member, tighten one bushing on shaft per steps 4 and 5 before starting to tighten screws in other bushing.

### 四孔平衡錐套

- 有效解決旋轉機器的振動源 → 沒有適當平衡
- 克服加工公差、安裝偏差、鑄件缺陷、設計不良問題
- 可以配合不同的傳動元件，來連接各種轉動軸
- 適用於皮帶輪、鏈輪、聯軸器、轉子設備、各式機械組件
- 軸徑公差容許範圍達 +0.05 ~ -0.125mm
- 採用國際標準化，符合 DIN 6885 Sheet 1 和 ISO 773 與 BS 4235 軸徑標準
- 材料可以是鑄鐵與鋼材或不銹鋼，詳細設計資料，請洽捷誠公司
- 全世界與歐洲專利 (NO:0045624)



1008 - 3030  
四孔平衡錐套 / 二進一出

錐套規格		1008	1108	1210	1610	1615	2012	2517	3020	3030
重量	kg	0.12	0.16	0.28	0.42	0.61	0.75	1.1	2.61	3.8
外徑	mm	35.0	38.0	47.5	57.0	57.0	70.0	85.5	108.0	108.0
長度	mm	22.3	22.3	25.4	25.4	38.1	31.8	44.5	50.8	76.2
螺絲	inches	1/4 x 1/2	1/4 x 1/2	3/8 x 5/8	3/8 x 5/8	3/8 x 5/8	7/16 x 7/8	1/2 x 1	5/8 x 1 1/4	5/8 x 1 1/5
板手	No	3	3	5	5	5	6	6	8	8
扭矩	Nm	5.7	5.7	20	20	20	31	49	92	92

孔徑	鍵槽		鍵	孔徑範圍								
	寬	高		09 - 25	09 - 28	11 - 32	14 - 42	14 - 42	14 - 50	16 - 65	25 - 75	35 - 75
9	3	1.4	3x3	x	x							
10	3	1.4	3x3	x	x							
11	4	1.8	4x4	x	x	x						
12	4	1.8	4x4	x	x	x						
14	5	2.3	5x5	x	x	x	x	x	x			
15	5	2.3	5x5	x	x	x	x	x	x			
16	5	2.3	5x5	x	x	x	x	x	x	x		
18	6	2.8	6x6	x	x	x	x	x	x	x		
19	6	2.8	6x6	x	x	x	x	x	x	x		
20	6	2.8	6x6	x	x	x	x	x	x	x		
22	6	2.8	6x6	x	x	x	x	x	x	x		
24	8	3.3	8x7	x	x	x	x	x	x	x		
25	8	3.3	8x7	x	x	x	x	x	x	x	x	
28	8	3.3	8x7		x	x	x	x	x	x	x	
30	8	3.3	8x7			x	x	x	x	x	x	
32	10	3.3	10x8			x	x	x	x	x	x	
35	10	3.3	10x8				x	x	x	x	x	x
38	10	3.3	10x8				x	x	x	x	x	x
40	12	3.3	12x8				x	x	x	x	x	x
42	12	3.3	12x8				x	x	x	x	x	x
45	14	3.8	14x9						x	x	x	x
48	14	3.8	14x9						x	x	x	x
50	14	3.8	14x9						x	x	x	x
55	16	4.3	16x10							x	x	x
60	18	4.4	18x11							x	x	x
65	18	4.4	18x11							x	x	x
70	20	4.9	20x12								x	x
75	20	4.9	20x12								x	x

### 平衡錐套

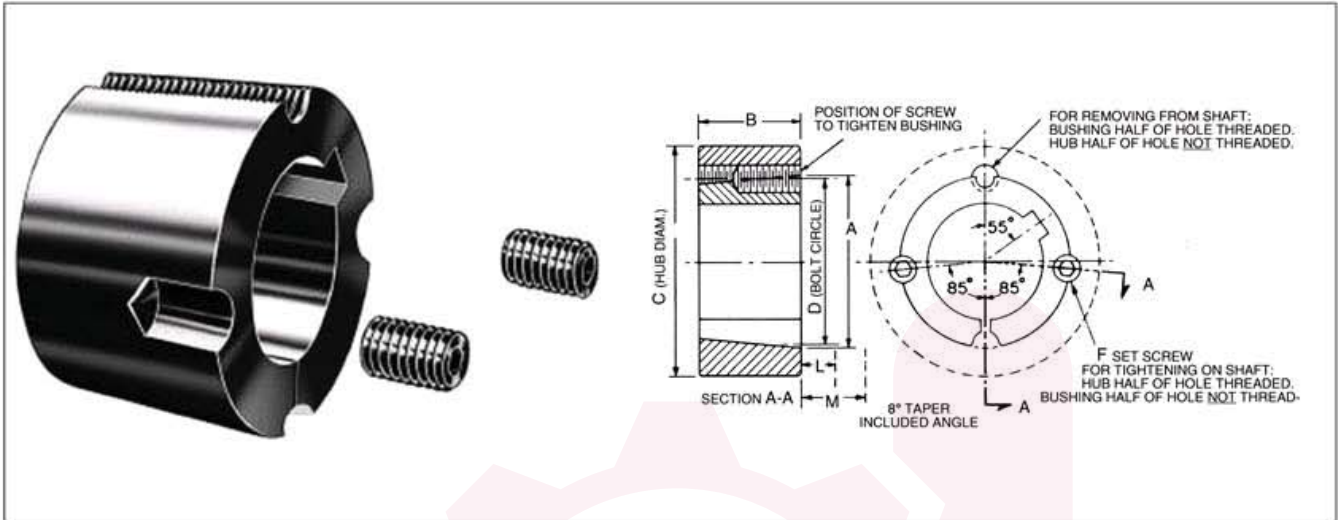
- 可以配合不同的傳動元件，來連接各種轉動軸
- 裝卸錐套簡單且方便，無需車孔及拉鍵，有效降低時間及成本
- 螺釘強度12.9級，錐套材質GG25，採用磷化防銹處理
- 適用於皮帶輪、鏈輪、聯軸器、轉子設備、各式機械組件
- 軸徑公差容許範圍達+0.05~-0.125mm
- 採用國際標準化，符合DIN 6885 Sheet1和ISO773與BS4235軸徑標準
- 材料可以是鑄鐵與鋼材或不銹鋼，詳細設計資料，請洽捷誠公司
- 全世界與歐洲專利(NO:0045624)



3525 - 6050  
平衡錐套 / 三進二出

錐套規格		3525	3535	4030	4040	4535	4545	5040	5050	6050
重量	kg	3.9	5.25	7.1	7.8	11.8	12.8	14.2	15.3	27
外徑	mm	127.0	127.0	146.0	146.0	162	162	177.5	177.5	235
長度	mm	63.5	88.9	76.2	101.6	88.9	114.3	101.6	127.0	127.0
螺絲	inches	1/2 x 1 1/2	1/2 x 1 1/2	5/8 x 1 3/4	5/8 x 1 3/4	3/4 x 2	3/4 x 2	7/8 x 2 1/4	7/8 x 2 1/4	7/8 x 2 1/4
板手	No	10	10	12	12	14	14	14	14	14
扭矩	Nm	115	115	172	172	195	195	275	275	275

孔徑	鍵槽		鍵	孔徑範圍										
	寬	高		35-100	35-90	40-115	40-100	55-125	55-110	70-140	70-125	95-150		
35	10	3.3	10 x 8	x	x									
38	10	3.3	10 x 8	x	x									
40	12	3.3	12 x 8	x	x	x	x							
42	12	3.3	12 x 8	x	x	x	x							
45	14	3.8	14 x 9	x	x	x	x							
48	14	3.8	14 x 9	x	x	x	x							
50	14	3.8	14 x 9	x	x	x	x							
55	16	4.3	16 x 10	x	x	x	x	x	x					
60	18	4.4	18 x 11	x	x	x	x	x	x					
65	18	4.4	18 x 11	x	x	x	x	x	x					
70	20	4.9	20 x 12	x	x	x	x	x	x	x	x			
75	20	4.9	20 x 12	x	x	x	x	x	x	x	x			
80	22	5.4	22 x 14	x	x	x	x	x	x	x	x			
85	22	5.4	22 x 14	x	x	x	x	x	x	x	x			
90	25	5.4	25 x 14	x	x	x	x	x	x	x	x			
95	25	5.4	25 x 14	x		x	x	x	x	x	x	x		
100	28	6.4	28 x 16	x		x	x	x	x	x	x	x		
105	28	6.4	28 x 16			x		x	x	x	x	x		
110	28	6.4	28 x 16			x		x	x	x	x	x		
115	32	7.4	32 x 18			x		x		x	x	x		
120	32	7.4	32 x 18					x		x	x	x		
125	32	7.4	32 x 18					x		x	x	x		
130	32	7.4	32 x 18							x		x		
135	36	8.4	36 x 20							x		x		
140	36	8.4	36 x 20							x		x		
145	36	8.4	36 x 20									x		
150	36	8.4	36 x 20									x		



## Dimensions

Bushing Number	A	B	CØ			D	F†	L*		M**	
			Class 20 Gray Iron	Class 30 Gray Iron	Steel			Standard Hex. Key	Standard Short Key‡	Hex. Key	Short Key‡
1008	35,2	22,2	60,3	55,6	49,2	33,7	31,8 x 12,7	28,6	15,9	31,8	44,5
1108	38,4	22,2	63,5	58,7	52,4	36,9	31,8 x 12,7	28,6	15,9	31,8	44,5
1210	47,6	25,4	92,1	82,6	73,0	44,5	34,9 x 15,9	34,9	20,6	41,3	27,0
1215	47,6	38,1	79,4	73,0	66,7	44,5	34,9 x 15,9	34,9	20,6	41,3	27,0
1310	50,8	25,4	95,3	85,7	76,2	47,6	34,9 x 15,9	34,9	20,6	41,3	27,0
1610	57,2	25,4	101,6	101,6	82,6	54,0	34,9 x 15,9	34,9	20,6	41,3	27,0
1615	57,2	38,1	88,9	82,6	76,2	54,0	34,9 x 15,9	34,9	20,6	41,3	27,0
2012	69,9	31,8	120,7	116,8	98,4	66,7	36,5 x 22,2	39,7	23,8	50,8	34,9
2517	85,7	44,5	139,7	123,8	111,1	82,6	38,1 x 25,4	41,3	25,4	57,2	41,3
2525	85,7	63,5	120,7	114,3	108,0	82,6	38,1 x 25,4	41,3	25,4	57,2	41,3
3020	108,0	50,8	177,8	158,8	142,9	101,6	41,3 x 31,8	46,0	30,2	68,3	52,4
3030	108,0	76,2	158,8	146,1	136,5	101,6	41,3 x 31,8	46,0	30,2	68,3	52,4

**Bushings cannot be bored larger than largest bore listed.**  
**For detail dimensions required for machining hubs, consult factory.**

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult Martin giving full information on the proposed design. Hub diameters shown are based on 1400, 2110 and 3500 Kg/cm<sup>2</sup> minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron and steel hubs.

† 2 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use one of them in the other hole. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using one screw as jackscrew — no puller required.

‡ Standard hex key cut to minimum usable length.

# Taper Bushings Dimensions

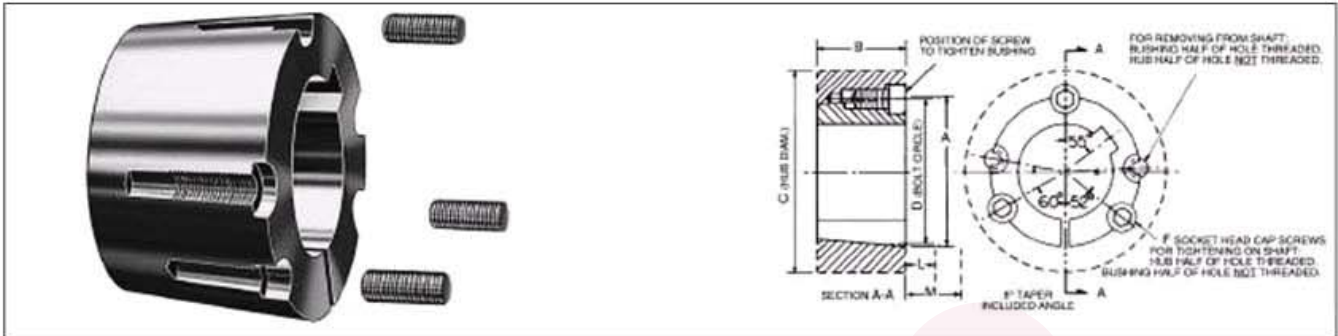


## Metric Bores and Keyways

Bore Dia.	Keyway		Shallow Keyway Depth	Bore Sizes Available								
	Width	Depth		1008	1108	1210	1610	1615	2012	2517	3020	3030
9	3	1,4	—	X	X							
10	3	1,4	—	X	X							
11	4	1,8	—	X	X	X						
12	4	1,8	—	X	X	X						
14	5	2,3	—	X	X	X	X	X	X			
15	5	2,3	—	X	X	X	X	X	X			
16	5	2,3	—	X	X	X	X	X	X	X		
18	6	2,8	—	X	X	X	X	X	X	X		
19	6	2,8	—	X	X	X	X	X	X	X		
20	6	2,8	—	X	X	X	X	X	X	X		
22	6	2,8	—	X	X	X	X	X	X	X		
24	8	3,3	1,3	X	X	X	X	X	X	X		
25	8	3,3	1,3	X	X	X	X	X	X	X	X	
28	8	3,3	1,3		X	X	X	X	X	X	X	
30	8	3,3	—			X	X	X	X	X	X	
32	10	3,3	—			X	X	X	X	X	X	
35	10	3,3	—				X	X	X	X	X	X
38	10	3,3	—				X	X	X	X	X	X
40	12	3,3	1,3				X	X	X	X	X	X
42	12	3,3	1,3				X	X	X	X	X	X
45	14	3,8	—						X	X	X	X
48	14	3,8	—						X	X	X	X
50	14	3,8	—						X	X	X	X
55	16	4,3	—						X	X	X	X
60	18	4,4	—						X	X	X	X
65	18	4,4	—								X	X
70	20	4,9	—								X	X
75	20	4,9	—								X	X

## Inch Bores and Keyways

Bore Dia.	Keyway		Shallow Keyway Depth	Bore Sizes Available								
	Width	Depth		1008	1108	1210	1610	1615	2012	2517	3020	3030
0,375	0,125	0,062	—	X	X							
0,500	0,125	0,062	—	X	X		X	X				
0,625	0,187	0,093	—	X	X	X	X	X				
0,750	0,187	0,093	—	X	X	X	X	X	X			
0,875	0,250	0,125	—	X	X	X	X	X	X			
1,000	0,250	0,125	0,062	X	X	X	X	X	X			
1,125	0,312	0,125	0,078		X	X	X	X	X			
1,250	0,312	0,125	—			X	X	X	X	X	X	X
1,375	0,375	0,125	—				X	X	X	X	X	X
1,500	0,375	0,125	—				X	X	X	X	X	X
1,625	0,437	0,156	0,125				X	X	X	X	X	X
1,750	0,437	0,156	—						X	X	X	X
1,875	0,500	0,156	—						X	X	X	X
2,000	0,500	0,156	—						X	X	X	X
2,125	0,625	0,218	—							X	X	X
2,250	0,625	0,218	—							X	X	X
2,375	0,625	0,218	—							X	X	X
2,500	0,625	0,218	—							X	X	X
2,625	0,750	0,250	—								X	X
2,750	0,750	0,250	—								X	X
2,875	0,750	0,250	—								X	X
3,000	0,750	0,250	—								X	X



## No. 3525 to 4040 Bushings

Bushing Number	Bore	Approx. Wgt. (Kg)	Bushing Keys eat	Shaft Keyseat	A	B	C Ø			D	F†	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
3525	30 to 38	4,5	10 x 3,3	10 x 5,0	127	63,5	197	178	165	123	12,7 x 38	39°	▲
	38 to 44	4,2	12 x 3,3	12 x 5,0									
	44 to 50	4,2	14 x 3,8	14 x 5,5									
	50 to 58	4,1	16 x 4,3	16 x 6,0									
	58 to 65	3,6	18 x 4,4	18 x 7,0									
	65 to 75	3,2	20 x 4,9	20 x 7,5									
	75 to 85	2,7	22 x 5,4	22 x 9,0									
85 to 95	2,2	25 x 5,4	25 x 9,0										
95 to 110	2,1	28 x 4,4	28 x 10,0										
3535	30 to 38	6,4	10 x 3,3	10 x 5,0	127	89	197	178	165	123	12,7 x 38	39°	▲
	38 to 44	6,2	12 x 3,3	12 x 5,0									
	44 to 50	5,9	14 x 3,8	14 x 5,5									
	50 to 58	5,4	16 x 4,3	16 x 6,0									
	58 to 65	5,0	18 x 4,4	18 x 7,0									
	65 to 75	4,5	20 x 4,9	20 x 7,5									
	75 to 85	4,0	22 x 5,4	22 x 9,0									
85 to 95	3,6	25 x 5,4	25 x 9,0										
95 to 110	3,2	28 x 4,4	28 x 10,0										
4030	38 to 44	7,7	12 x 3,3	12 x 5,0	146	76,2	241	216	197	141	16 x 44	40°	▲
	44 to 50	7,3	14 x 3,8	14 x 5,5									
	50 to 58	6,8	16 x 4,3	16 x 6,0									
	58 to 65	6,4	18 x 4,4	18 x 7,0									
	65 to 75	5,9	20 x 4,9	20 x 7,5									
	75 to 85	5,4	22 x 5,4	22 x 9,0									
	85 to 95	5,0	25 x 5,4	25 x 9,0									
95 to 101	4,8	28 x 6,4	28 x 10,0										
111 to 115	4,5	28 x 5,4	32 x 11,0										
4040	38 to 44	10,0	12 x 3,3	12 x 5,0	146	102	241	216	197	141	16 x 44	40°	▲
	44 to 50	9,5	14 x 3,8	14 x 5,5									
	50 to 58	9,0	16 x 4,3	16 x 6,0									
	58 to 65	8,6	18 x 4,4	18 x 7,0									
	65 to 75	8,2	20 x 4,9	20 x 7,5									
	75 to 85	7,7	22 x 5,4	22 x 9,0									
	85 to 95	6,8	25 x 5,4	25 x 9,0									
95 to 110	6,4	28 x 4,4	28 x 10,0										
111 to 115	5,9	28 x 5,4	32 x 11,0										

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

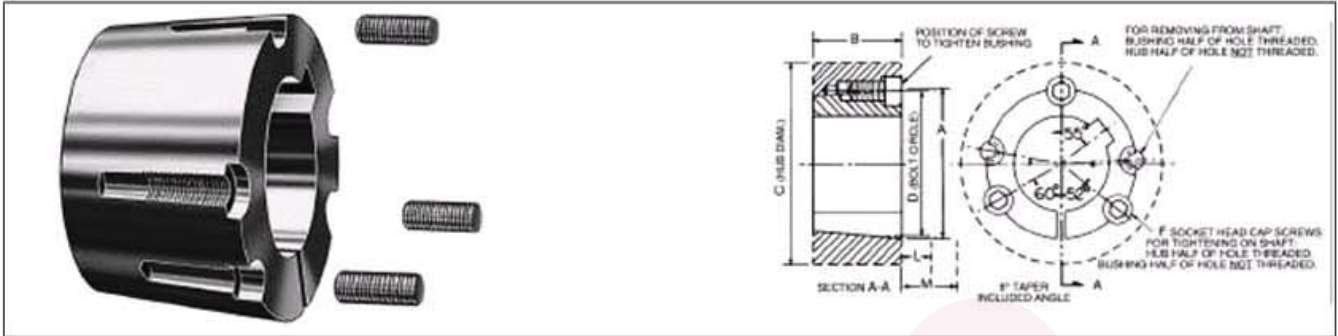
Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000 and

50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron and steel hubs.

† 3 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use two of them in the other two holes. Bushing price includes screws. See following footnote.

▲ Provide sufficient space to tighten and loosen bushing. Width across flats of screw head is same as screw diameter which is shown in column F.

# Taper Bushings Dimensions



## No. 4535 to 5050 Bushings

Bushing Number	Bore	Approx. Wgt. (Kg)	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	F†	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
4535	50 to 58	10,4	16 x 4,3	16 x 6,0	161	89	267	241	222	156	19 x 51	40°	▲
	58 to 65	10,0	18 x 4,4	18 x 7,0									
	65 to 75	9,5	20 x 4,9	20 x 7,5									
	75 to 85	9,1	22 x 5,4	22 x 9,0									
	85 to 95	8,2	25 x 5,4	25 x 9,0									
	95 to 110	7,3	28 x 6,4	28 x 10,0									
4545	50 to 58	13,6	16 x 4,3	16 x 6,0	161	114	267	241	222	156	19 x 51	40°	▲
	58 to 65	12,7	18 x 4,4	18 x 7,0									
	65 to 75	12,2	20 x 4,9	20 x 7,5									
	75 to 85	11,8	22 x 5,4	22 x 9,0									
	85 to 95	10,4	25 x 5,4	25 x 9,0									
	95 to 110	9,1	28 x 6,4	28 x 10,0									
5040	65 to 75	13,1	20 x 4,9	20 x 7,5	178	101,6	292	267	241	171	22 x 57	37°	▲
	75 to 85	12,7	22 x 5,4	22 x 9,0									
	85 to 95	11,8	25 x 5,4	25 x 9,0									
	95 to 110	10,9	28 x 6,4	28 x 10,0									
	110 to 130	10,0	32 x 7,4	32 x 11,0									
	130 to 140	8,9	36 x 6,4	36 x 12,0									
5050	65 to 75	17,2	20 x 4,9	20 x 7,5	178	127	292	267	241	171	22 x 57	37°	▲
	75 to 85	15,9	22 x 5,4	22 x 9,0									
	85 to 95	14,5	25 x 5,4	25 x 9,0									
	95 to 110	12,2	28 x 6,4	28 x 10,0									
	110 to 130	10,9	32 x 7,4	32 x 11,0									
	130 to 140	10,4	36 x 6,4	36 x 12,0									

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000 and

50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron and steel hubs.

† 3 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use two of them in the other two holes. Bushing or ce includes screws. See following footnote.

▲ Provide sufficient space to tighten and loosen bushing. Width across flats of screw head is same as screw diameter which is shown in column F.





# Taper Bushings Dimensions

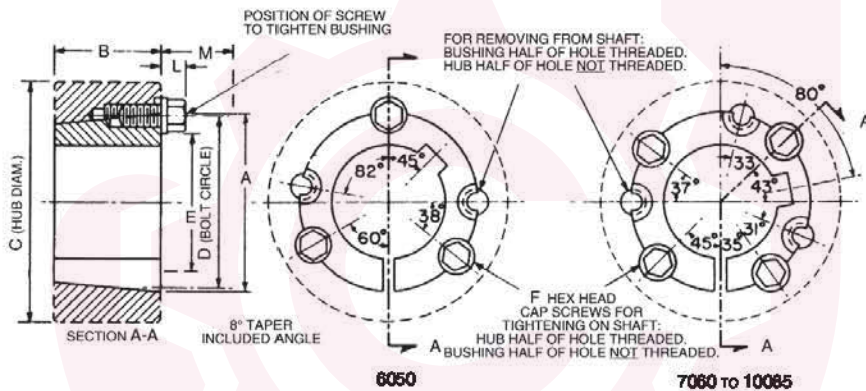
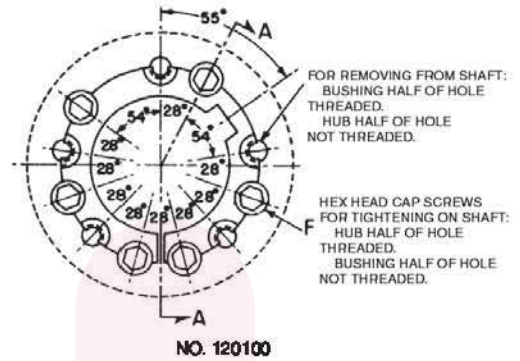
## Metric Bores and Keyways

Bore Dia.	Keyway		Shallow Keyway Depth	Bore Sizes Available							
	Width	Depth		3525	3535	4030	4040	4535	4545	5040	5050
35	10	3,3	—	X	X						
38	10	3,3	—	X	X						
40	12	3,3	—	X	X	X	X				
42	12	3,3	—	X	X	X	X				
45	14	3,8	—	X	X	X	X				
48	14	3,8	—	X	X	X	X				
50	14	3,8	—	X	X	X	X				
55	16	4,3	—	X	X	X	X	X	X		
60	18	4,4	—	X	X	X	X	X	X		
65	18	4,4	—	X	X	X	X	X	X		
70	20	4,9	—	X	X	X	X	X	X	X	X
75	20	4,9	—	X	X	X	X	X	X	X	X
80	22	5,4	—	X	X	X	X	X	X	X	X
85	22	5,4	—	X	X	X	X	X	X	X	X
90	25	5,4	—	X	X	X	X	X	X	X	X
95	25	5,4	—	X		X	X	X	X	X	X
100	28	6,4	4,4	X		X	X	X	X	X	X
105	28	6,4	—			X		X	X	X	X
110	28	6,4	—			X		X	X	X	X
115	32	7,4	5,4			X		X		X	X
120	32	7,4	—					X		X	X
125	32	7,4	—					X		X	X
130	32	7,4	—							X	
140	32	8,4	6,4							X	

## Inch Bores and Keyways

Bore Dia.	Keyway		Shallow Keyway Depth	Bore Sizes Available							
	Width	Depth		3525	3535	4030	4040	4535	4545	5040	5050
1,500	0,375	0,125	—	X	X						
1,625	0,437	0,156	—	X	X						
1,750	0,437	0,156	—	X	X	X	X				
1,875	0,500	0,156	—	X	X	X	X				
2,000	0,500	0,156	—	X	X	X	X				
2,125	0,625	0,218	—	X	X	X	X	X	X		
2,250	0,625	0,218	—	X	X	X	X	X	X		
2,375	0,625	0,218	—	X	X	X	X	X	X		
2,500	0,625	0,218	—	X	X	X	X	X	X		
2,625	0,750	0,250	—	X	X	X	X	X	X	X	X
2,750	0,750	0,250	—	X	X	X	X	X	X	X	X
2,875	0,750	0,250	—	X	X	X	X	X	X	X	X
3,000	0,750	0,250	—	X	X	X	X	X	X	X	X
3,125	0,875	0,312	—	X	X	X	X	X	X	X	X
3,250	0,875	0,312	—	X	X	X	X	X	X	X	X
3,375	0,875	0,312	—	X	X	X	X	X	X	X	X
3,500	0,875	0,312	—	X	X	X	X	X	X	X	X
3,750	1,000	0,375	0,312	X		X	X	X	X	X	X
4,000	1,000	0,375	0,218	X		X	X	X	X	X	X
4,250	1,250	0,437	—			X		X	X	X	X
4,500	1,250	0,437	0,343			X		X	X	X	X
4,750	1,250	0,437	—					X		X	X
5,000	1,250	0,437	0,343					X		X	X

# Taper Bushings Dimensions



## No 6050 to 120100 Taper Bushings

Bush Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C <sup>Ø</sup>			D	E	F†	L*	M**
							Class 20 Gray Iron	Class 30 Gray Iron	Steel					
6050	3 3/8 to 4 1/8	60	1 x 1/2	1 x 1/2	9 1/4	5	17	15 1/2	13 1/4	9	6 1/2	1 1/2 x 3 3/8	1 1/2	4 1/2
	4 1/8 to 5 1/8	55	1 1/4 x 1/2	1 1/4 x 1/2										
	5 1/8 to 6	50	1 1/2 x 1/2	1 1/2 x 1/2										
7060	4 1/8 to 5 1/8	85	1 1/4 x 1/2	1 1/4 x 1/2	10 1/4	6	18 1/2	17	14 1/4	10	7 1/2	1 1/2 x 3 3/8	1 1/2	4 1/2
	5 1/8 to 6 1/8	75	1 1/2 x 1/2	1 1/2 x 1/2										
	6 1/8 to 7	65	1 1/2 x 1/2	1 1/2 x 1/2										
Ø8065	5 1/8 to 5 7/8	120	1 1/4 x 1/2	1 1/4 x 1/2	11 1/4	6 1/2	19	17 1/2	15 1/4	11	8 1/2	1 1/2 x 3 3/8	1 1/2	4 1/2
	5 7/8 to 6 1/8	105	1 1/2 x 1/2	1 1/2 x 1/2										
	6 1/8 to 7 1/8	90	1 1/2 x 1/2	1 1/2 x 1/2										
Ø10085	6 1/8 to 7 1/8	260	1 1/4 x 1/2	1 1/4 x 1/2	14 1/4	8 1/2	23 1/2	22	19 1/4	14 1/4	11 1/2	1 1/2 x 4 1/8	2	5 1/2
	7 1/8 to 9	230	2 x 1/2	2 x 1/2										
	9 to 10	190	2 1/2 x 1/2	2 1/2 x 1/2										
Ø120100	7 1/8 to 9	410	2 x 1/2	2 x 1/2	17 1/4	10	28	26	23	17	14 1/2	1 1/2 x 4 1/8	2	5 1/2
	9 to 11	360	2 1/2 x 1/2	2 1/2 x 1/2										
	11 1/8 to 12	290	3 x 1	3 x 1										

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult *Metric*.

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult *Metric* giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 3 screws for 6050; four for 7060 to 10085; six for 120100. Use in positions shown for tightening bushing on shaft. In loosening bushing, remove

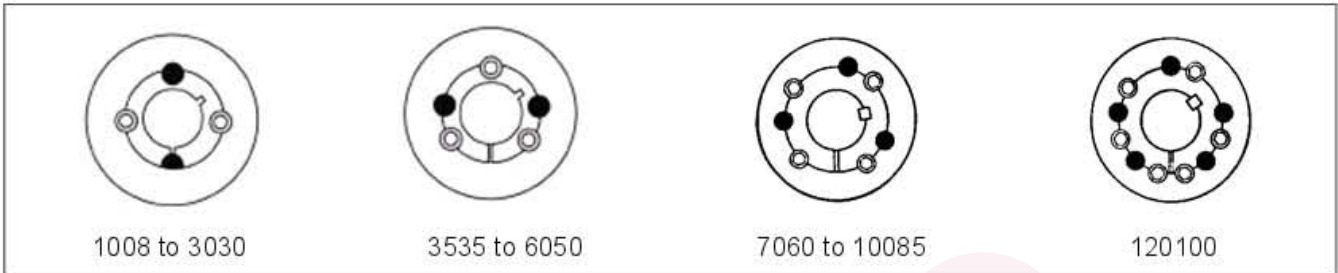
screws and use all except one in the other holes. Bushing price includes screws.

\* Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.


\*\* Space required to loosen bushing using screws as jackscrews—no puller required.

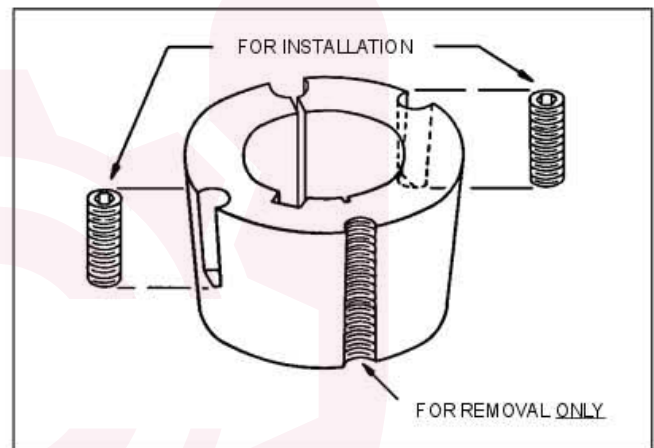
⊕ Not currently stocked — Available on order.

**IMPORTANT:** Follow all instructions in this manual carefully. This is necessary to insure satisfactory performance.




### To Install:

1. Clean shaft, bore, and outside of bushing, and bore of hub (taking bushing from hub if already assembled). Remove any oil, lacquer, or dirt. Place bushing in hub and match half holes to make complete holes (each complete hole will be threaded on one side only).
2. Oil thread and point of set screws or thread and under head of cap screws. Place screws loosely in holes that are threaded on hub side (shown thus  in diagram).
3. Make sure bushing is free in hub. Slip assembly onto shaft and locate in position desired.
4. Tighten screws (see note\*) alternately and evenly until all are pulled up very tightly. Use a piece of pipe on wrench to increase leverage. (See table for wrench torque on reverse side.)
5. Hammer against large end of bushing using hammer and block or sleeve to avoid damage. Screws can now be turned a little more using the specified wrench torque. Repeat this alternate hammering and screw re-tightening until the specified wrench torque no longer turns the screws after hammering.
6. After drive has been running under load for a short time stop and check tightness of screws. Fill other holes with grease to exclude dirt.



### To Remove:

1. Remove all screws. Oil thread and point of set screws or thread and under head of cap screws.
2. Insert screws in holds that are threaded on bushing side (shown thus  in diagram). In sizes where washers are found under screw heads, be sure to use these washers. Note that one screw in each hub is left over and is not used in this loosening operation.
3. Tighten screws alternately until bushing is loosened in hub. If bushing does not loosen immediately, tap on hub.

### Recommended Wrench Torque

Bush Size	1008	1108	1210	1610	1615	2012	2517	3020	3030	3525	3535	4030	4040	4535	4545	5040	5050
Screw Tightening Torque (Nm)	5,6	5,6	20	20	20	30	50	90	90	115	115	170	170	190	190	270	270
Screw Details	Qty	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	Size (BSW)	1/4	1/4	3/8	3/8	3/8	1/2	1/2	3/8	3/8	1/2	3/8	3/8	3/4	3/4	3/8	3/8
	Hex. Socket Size (mm)	3	3	5	5	5	6	6	8	8	10	10	12	12	14	14	14
Large End Dia. (mm)	35,0	38,0	47,5	57,0	57,0	70,0	85,5	108,0	108,0	127,0	127,0	146,0	146,0	162,0	162,0	177,5	177,5
Approx. Mass (kg)	0,1	0,1	0,2	0,3	0,5	0,7	1,5	2,7	3,6	3,8	5,0	5,6	7,7	7,5	10,0	11,1	14,0

When ordering Bushings give: Number stamped on large end of bushing, bore, and quantity.

\*If two bushings are used in the same sheave, pulley, or other unit member, tighten one bushing on shaft per steps 4 and 5 before starting to tighten screws in other bushing.

# Taper Bushings Metric and Reborable

## Stock Reborable Taper Bushings With No Keyways

Sintered Steel		Gray Iron		Steel		Stainless Steel	
1008	$\frac{1}{8}$			1008	$\frac{1}{2}$	1008	$\frac{1}{2}$
1108	$\frac{1}{2}$			1108	$\frac{1}{2}$	1108	*
1210	$\frac{1}{8}$			1210	$\frac{1}{2}$	1210	$\frac{1}{2}$
1215	$\frac{1}{2}$			1215	$\frac{1}{2}$	1215	*
1310	$\frac{1}{2}$			1310	*	1310	*
1610	$\frac{1}{2}$ 1 $\frac{1}{8}$			1610	$\frac{1}{2}$	1610	$\frac{1}{2}$
1615	$\frac{1}{2}$ 1 $\frac{1}{8}$			1615	$\frac{1}{2}$	1615	*
2012	$\frac{1}{2}$			2012	$\frac{1}{2}$	2012	$\frac{1}{2}$
2517	$\frac{1}{2}$ 1 $\frac{1}{8}$			2517	$\frac{1}{2}$	2517	$\frac{1}{2}$
		2525	2 $\frac{1}{2}$	2525	*	2525	*
3020	$\frac{3}{8}$ 1 $\frac{1}{8}$	3020	$\frac{3}{8}$ 1 $\frac{1}{8}$ 2 $\frac{1}{8}$	3020	$\frac{3}{8}$	3020	$\frac{3}{8}$
		3030	$\frac{3}{8}$ 2 $\frac{1}{8}$ 2 $\frac{1}{8}$	3030	*	3030	*
		3535	1 $\frac{1}{8}$ 2 $\frac{1}{8}$ 2 $\frac{1}{8}$	3535	*	3535	*
		4040	1 $\frac{1}{8}$ 3 $\frac{1}{8}$ 3 $\frac{1}{8}$	4040	*	4040	*
		4545	3 $\frac{3}{8}$ 4 $\frac{1}{8}$	4545	*	4545	*
		5050	2 $\frac{1}{8}$ 3 $\frac{3}{8}$				
		6050	3 $\frac{1}{8}$ 5 $\frac{1}{8}$				
		7060	3 $\frac{3}{8}$				
		8065	4 $\frac{1}{8}$				
		10085	7				
		120100	8				

★ Not currently stocked. Consult factory for availability and pricing.  
\* Stock in U.S.A.

