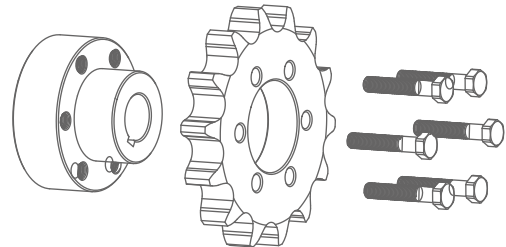


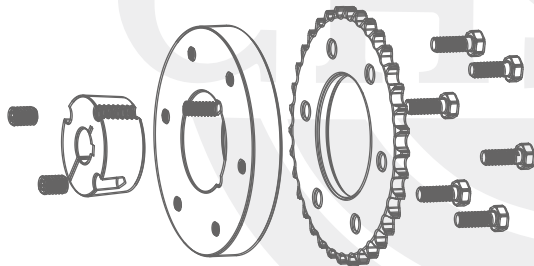
# Easy on Sprockets



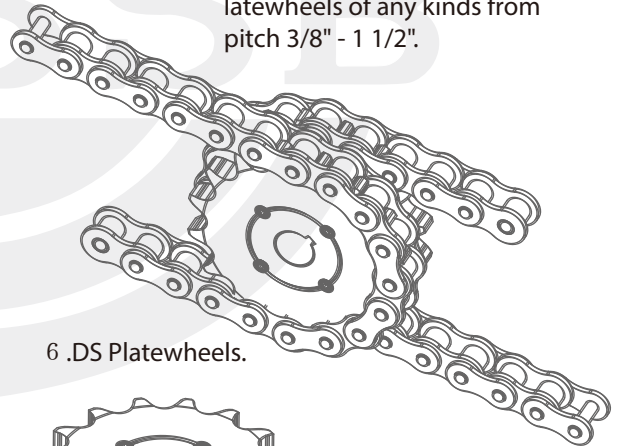
CAPT combinatorial sprockets, adopted the newest modularization design, can be got by connection hubs and finished platewheels together in many assembling ways. So various types and uses of sprockets, duplex sprockets, SD (double single) sprockets and including duplex sprockets with different teeth numbers or different pitches can be finished assembling in a very short time. They are with the characteristic of

economical and ease to make, qualified and reliable, This make it come true that very few or even no precess needed. They can meet customers' different requirements to the maximum. Much time and cost can be saved for the later processes, and also can reduce the stock for plenty of standard products. So they are with very strong commercial advantage.

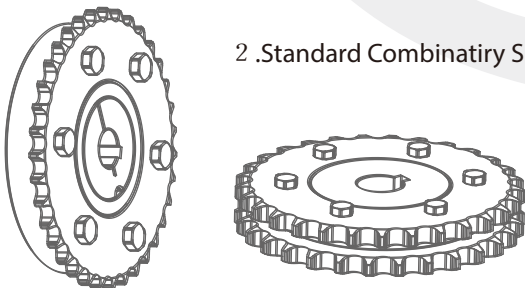
1. Taper Bored Combinatory Sprockets.



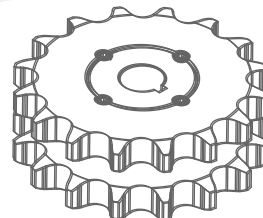
5. CMD Hubs can be used to form Double - Single (DS) Platewheels of any kinds from pitch 3/8" - 1 1/2".



2. Standard Combinatory Sprockets.



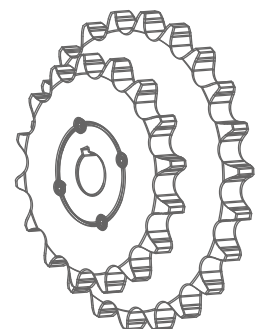
6. DS Platewheels.



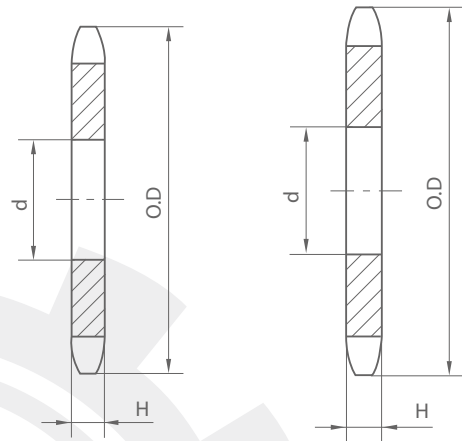
3. Taper Bored SW Hubs may well fit the whole series of CAPT Bushings and can also be assembled into Taper Bored Sprockets.

4. CMD Hubs are suitable for Duplex Platewheels. To combine different pitches of Platewheels, you can get different pitches of Duplex Sprockets of any kinds.

7. CMD Hubs can be used for two Platewheels of different number of teeth or different pitches to form into double functional transmission Sprockets for the purpose of increasing or reducing speed.



# Easy install Sprockets Weld-on Sprockets

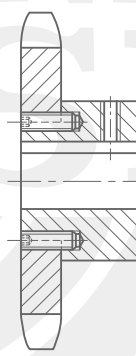


Assembled sprockets and welding sprockets are fit for chain 06B-24B. Connecting plate wheels with different types of hub can get all kinds of sprockets for different usages. For example, B type and FB sprockets or TL sprockets can also be formed if you choose hubs with finished bore or TL bore, no need further machining, easy-on and easy-off, with reliable quality and very good interchangeability.

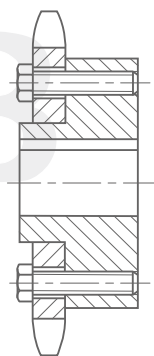
These sprockets designed by CAPT now have the complete series of data's and with good applicability. So they can meet for various designs for mechanical transmission.



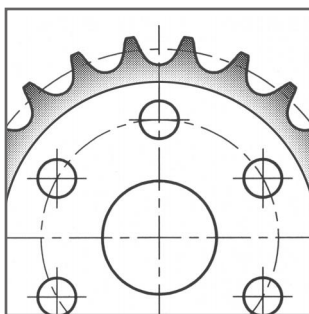
Connection by welding



Connection with bolts.

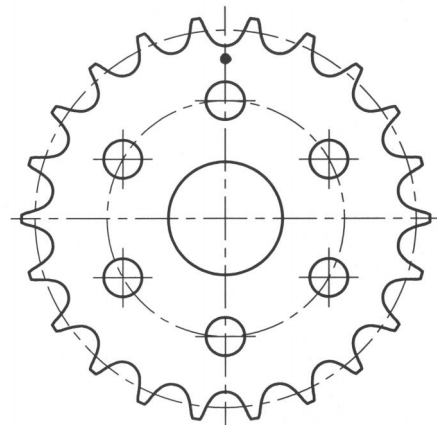


Connection by bolts fixed on the flange.



Sprockets within 40 teeth (O.D. with 12") are made of qualified steel S45C, with teeth hardened to HRC 40-50.

You can see a position mark on sprockets. It can be used for making the corresponding bbb align with the keyway on the sprocket. for duplex sprockets you can just make the teeth of each row in line. by doing these the installation error can be eliminated.



# Easy install Sprockets Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

**06B**  
3/8"X7/32"

**PITCH-9.525mm**

**H=5.30mm**

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SM
20	64.60	60.89	40				CM40			
21	67.60	63.91	40				CM40			
22	70.60	66.93	40			1008	CM40	CW1008		
23	73.70	69.69	40			1008	CM40	CW1008		
24	76.70	73.97	50			1008	CM50	CW1008		
25	79.70	76.00	50			1008	CM50	CW1008		
26	82.70	79.02	60			1210	CM60	CW1210		
27	85.70	82.04	60			1210	CM60	CW1210		
28	88.80	85.07	70			1610	CM70	CW1610		
29	91.80	88.09	70			1610	CM70	CW1610		
30	94.80	91.12	70			1610	CM70	CW1610		
31	97.90	94.15	70			1610	CM70	CW1610		
32	100.90	97.17	70			1610	CM70	CW1610		
33	103.90	100.20	70			1610	CM70	CW1610		
34	106.90	103.23	70			1610	CM70	CW1610		
35	110.00	106.26	70			1610	CM70	CW1610		
36	113.00	109.29	70			1610	CM70	CW1610		
37	116.00	112.32	70			1610	CM70	CW1610		
38	119.00	115.34	70			1610	CM70	CW1610		
39	122.10	118.37	70			1610	CM70	CW1610		
40	125.10	121.40	70			1610	CM70	CW1610		
41	129.10	124.43	70			1610	CM70	CW1610		
42	132.10	127.46	70			1610	CM70	CW1610		
43	135.10	130.49	70			1610	CM70	CW1610		
44	138.10	133.52	70			1610	CM70	CW1610		
45	141.10	136.54	70			1610	CM70	CW1610		
46	144.20	139.58	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
47	147.20	142.61	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
48	150.20	145.64	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
49	153.30	148.66	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
50	156.30	151.69	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
51	159.30	154.72	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
52	162.40	157.75	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
53	165.40	160.78	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
54	168.40	163.82	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
55	171.40	166.85	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
56	174.50	169.88	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
57	177.50	172.91	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
58	180.50	175.93	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
59	183.60	178.96	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
60	186.60	181.99	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
70	216.90	213.30	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
72	223.00	218.3	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
80	247.20	242.61	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
84	259.30	254.75	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
96	289.60	285.05	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
112	344.30	339.61	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610

# Easy install Sprockets

# Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

## 08B

1/2"X5/16"

### PITCH-12.70mm

H=7.20mm

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
15	65.90	61.09	40				CM40			
16	69.90	65.10	40				CM40			
17	74.00	69.11	40				CM40			
18	78.00	73.14	50			1008	CM50	CW1008		
19	82.00	77.16	50			1008	CM50	CW1008		
20	84.60	80.89	60			1210	CM60	CW1210		
21	87.60	84.91	60			1210	CM60	CW1210		
22	94.10	89.24	70			1610	CM70	CW1610		
23	98.10	93.27	70			1610	CM70	CW1610		
24	102.10	97.29	70			1610	CM70	CW1610		
25	106.20	101.33	70			1610	CM70	CW1610		
26	110.20	105.36	70			1610	CM70	CW1610		
27	114.20	109.40	70			1610	CM70	CW1610		
28	118.30	113.42	70			1610	CM70	CW1610		
29	122.30	117.46	70			1610	CM70	CW1610		
30	126.30	121.50	70			1610	CM70	CW1610		
31	130.40	125.54	70			1610	CM70	CW1610		
32	134.40	129.56	70			1610	CM70	CW1610		
33	138.40	133.60	70			1610	CM70	CW1610		
34	142.50	137.64	70			1610	CM70	CW1610		
35	146.50	141.68	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
36	150.60	145.72	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
37	154.60	149.76	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
38	158.60	153.80	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
39	162.70	157.83	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
40	166.70	161.87	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
41	172.40	165.91	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
42	176.50	169.95	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
43	180.50	173.99	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
44	184.60	178.03	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
45	188.60	182.07	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
46	192.60	186.10	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
47	196.70	190.14	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
48	200.70	194.18	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
49	204.80	198.22	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
50	208.80	202.26	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
51	212.80	206.30	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
52	216.90	210.34	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
53	220.90	214.37	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
54	225.00	218.43	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
55	229.00	222.45	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
56	233.00	226.50	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
57	237.10	230.54	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
58	241.10	234.58	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
59	245.20	238.62	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
60	249.20	242.66	70	102	9.5x4	1610	CM70	CW1610	SM70	SW1610
70	289.60	283.07	90	121	11.5x4	2012	CM90	CW2012	SM90	SW2012
72	297.70	291.16	90	121	11.5x4	2012	CM90	CW2012	SM90	SW2012
80	330.00	323.48	90	121	11.5x4	2012	CM90	CW2012	SM90	SW2012
84	346.10	339.66	90	121	11.5x4	2012	CM90	CW2012	SM90	SW2012
96	394.80	388.15	90	121	11.5x4	2012	CM90	CW2012	SM90	SW2012
112	459.30	452.01	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517

# Easy install Sprockets

# Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

# 10B

5/8"X3/8"

## PITCH-15.875mm

## H=9.10mm

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
13	73.20	66.32	40				CM40			
14	78.20	71.34	40				CM40			
15	83.20	76.36	50			1008	CM50	CW1008		
16	88.30	81.37	50			1008	CM50	CW1008		
17	93.30	86.39	60			1210	CM60	CW1210		
18	98.30	91.42	60			1210	CM60	CW1210		
19	103.30	96.45	70			1610	CM70	CW1610		
20	108.40	101.49	70			1610	CM70	CW1610		
21	113.40	106.52	70			1610	CM70	CW1610		
22	118.40	111.55	70			1610	CM70	CW1610		
23	123.50	116.58	90			2012	CM90	CW2012		
24	128.50	121.62	90			2012	CM90	CW2012		
25	133.60	126.66	90			2012	CM90	CW2012		
26	138.60	131.70	90			2012	CM90	CW2012		
27	143.60	136.75	90			2012	CM90	CW2012		
28	148.70	141.78	90			2012	CM90	CW2012		
29	153.70	146.83	90			2012	CM90	CW2012		
30	158.80	151.87	90			2012	CM90	CW2012		
31	163.80	156.92	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
32	168.90	161.95	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
33	173.90	167.00	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
34	178.90	172.05	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
35	184.00	177.10	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
36	189.00	182.15	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
37	194.10	187.20	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
38	199.10	192.24	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
39	204.20	197.29	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
40	209.20	202.34	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
41	215.80	207.39	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
42	220.80	212.44	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
43	225.90	217.49	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
44	230.90	222.53	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
45	236.00	227.5/8	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
46	241.00	232.63	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
47	246.10	237.68	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
48	251.10	242.73	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
49	256.20	247.78	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
50	261.20	252.82	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
51	266.30	257.87	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
52	271.30	262.93	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
53	276.40	267.97	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
54	281.40	273.03	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
55	286.50	278.08	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
56	291.50	283.13	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
57	296.60	288.18	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
58	301.60	293.23	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
59	306.70	298.27	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
60	311.70	303.32	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
70	362.20	353.84	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
72	372.30	363.95	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
80	412.70	404.35	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
84	433.00	424.58	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
96	493.60	485.19	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
112	574.40	566.03	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517

# Easy install Sprockets Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

**12B**  
3/4"X7/16"

**PITCH-19.05mm**

**H=11.10mm**

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
11	75.80	67.61	40				CM40			
12	81.80	73.50	40				CM40			
13	87.80	79.59	50			1008	CM50	CW1008		
14	93.80	85.61	60			1210	CM60	CW1210		
15	99.80	91.63	70			1610	CM70	CW1610		
16	105.80	97.65	70			1610	CM70	CW1610		
17	111.90	103.67	70			1610	CM70	CW1610		
18	117.90	109.71	70			1610	CM70	CW1610		
19	123.90	115.75	70			1610	CM70	CW1610		
20	130.00	121.78	90			2012	CM90	CW2012		
21	136.00	127.82	90			2012	CM90	CW2012		
22	142.00	133.86	90			2012	CM90	CW2012		
23	148.10	139.90	90			2012	CM90	CW2012		
24	154.10	145.94	90			2012	CM90	CW2012		
25	160.20	152.00	90			2012	CM90	CW2012		
26	166.20	158.04	90			2012	CM90	CW2012		
27	172.30	164.09	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
28	178.30	170.13	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
29	184.40	176.19	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
30	190.40	182.25	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
31	196.50	188.31	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
32	202.50	194.35	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
33	208.60	200.40	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
34	214.60	206.46	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
35	220.70	212.52	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
36	226.80	218.58	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
37	232.80	224.64	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
38	238.80	230.69	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
39	244.90	236.75	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
40	251.00	242.81	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
41	258.90	248.87	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
42	265.00	254.93	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
43	271.10	260.98	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
44	277.10	267.03	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
45	283.20	273.10	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
46	289.20	279.16	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
47	295.30	285.21	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
48	301.40	291.27	90	121	11.5x6	2012	CM90	CW2012	SM90	SW2012
49	307.40	297.33	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
50	313.50	303.39	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
51	319.50	309.45	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
52	325.60	315.50	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
53	331.60	321.56	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
54	337.70	327.64	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
55	343.80	333.70	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
56	349.80	339.75	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
57	355.90	345.81	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
58	362.00	351.87	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
59	368.00	357.93	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
60	374.10	363.99	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
70	343.70	424.61	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
72	446.80	436.74	110	146	11.5x8	2517	CS110	CW2517	SM110	SW2517
80	495.30	485.22	110	146	11.5x8	2517	CS110	CW2517	SM110	SW2517
84	519.50	515.50	110	146	11.5x8	2517	CS110	CW2517	SM110	SW2517

# Easy install Sprockets

# Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

# 16B

1"X17.02mm

## PITCH-25.40mm

## H=16.20mm

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
11	101.70	90.14	60			1215	CM60	CW1215		
12	109.70	98.14	70			1615	CM70	CW1615		
13	117.70	106.12	70			1615	CM70	CW1615		
14	125.70	114.15	70			1615	CM70	CW1615		
15	133.70	122.17	70			1615	CM70	CW1615		
16	141.80	130.20	90			2012	CM90	CW2012		
17	149.80	138.22	90			2012	CM90	CW2012		
18	157.80	146.28	90			2012	CM90	CW2012		
19	165.90	154.33	90			2012	CM90	CW2012		
20	173.90	162.38	110			2517	CM110	CS2517		
21	182.00	170.43	110			2517	CM110	CW2517		
22	190.10	178.48	110			2517	CM110	CW2517		
23	198.10	186.53	110			2517	CM110	CW2517		
24	206.20	194.59	110			2517	CM110	CW2517		
25	214.20	202.66	110			2517	CM110	CW2517		
26	222.30	210.72	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
27	230.40	218.29	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
28	238.40	226.85	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
29	246.50	234.92	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
30	254.60	243.00	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
31	262.60	251.08	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
32	270.70	259.13	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
33	278.80	267.21	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
34	286.90	275.28	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
35	294.90	283.36	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
36	303.00	291.44	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
37	311.10	299.51	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
38	319.20	307.59	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
39	327.20	315.67	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
40	335.30	323.73	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
41	345.60	331.82	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
42	353.70	339.90	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
43	361.70	347.98	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
44	369.80	356.06	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
45	377.90	364.12	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
46	386.00	372.21	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
47	394.10	380.29	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
48	402.10	388.36	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
49	410.20	396.44	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
50	418.30	404.52	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
51	426.40	412.60	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
52	434.450	420.67	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
53	442.50	428.75	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
54	450.60	436.85	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
55	458.70	444.93	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
56	466.80	453.01	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
57	474.90	461.07	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
58	482.90	469.16	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
59	491.00	477.24	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
60	499.10	485.32	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
70	579.90	566.14	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
72	596.10	582.32	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
80	660.70	646.96	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020

# Easy install Sprockets

# Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

# 20B

1 1/4"X3/4"

## PITCH-31.75mm

## H=18.50mm

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
10	117.0	102.74	70				CM70			
11	127.0	112.68	70			1615	CM70	CW1615		
12	137.0	122.68	70			1615	CM70	CW1615		
13	147.5	132.65	90			2012	CM90	CW2012		
14	157.6	142.68	90			2012	CM90	CW2012		
15	167.7	152.72	110			2517	CM110	CW2517		
16	177.7	162.75	110			2517	CM110	CW2517		
17	187.8	172.48	110			2517	CM110	CW2517		
18	197.8	182.85	110			2517	CM110	CW2517		
19	207.9	192.91	110			2517	CM110	CW2517		
20	217.9	202.98	110			2517	CM110	CW2517		
21	228.0	213.04	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
22	238.1	223.11	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
23	248.2	233.17	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
24	258.3	243.23	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
25	268.4	253.33	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
26	278.4	263.40	110	146	11.5x6	2517	CM110	CW2517	SM110	SW2517
27	288.5	273.48	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
28	298.5	283.56	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
29	308.6	293.65	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
30	318.7	303.75	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
31	328.8	313.85	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
32	338.9	323.91	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
33	349.0	334.01	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
34	359.1	344.10	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
35	369.2	354.20	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
36	379.2	364.30	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
37	389.3	374.39	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
38	399.4	384.49	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
39	409.5	394.59	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
40	419.6	404.66	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
41	430.7	414.78	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
42	40.8	424.88	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
43	450.9	434.97	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
44	461.0	445.07	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
45	471.1	455.17	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
46	481.2	465.26	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
47	491.3	475.36	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
48	501.4	485.46	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
49	511.5	495.55	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
50	521.6	505.65	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
51	531.7	515.75	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
52	541.8	525.84	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
53	551.9	535.94	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
54	562.0	546.07	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
55	572.1	556.16	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
56	582.2	566.26	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
57	592.3	576.36	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
58	602.4	586.45	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
59	612.5	596.55	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
60	622.6	606.65	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020



# Easy install Sprockets

# Weld-on Sprockets

FOR ROLLER CHAINS DIN8187-ISO/R 606

# 24B

1 1/2"X1"

## PITCH-38.10mm

## H=24.10mm

Z	O.D	P.D	d	B	Mxn	Hub Rel				
						Bushi	CM/D,DS	CW	SM/D	SW
12	161.0	147.22	90			2012	CM90	CW2012		
13	173.0	159.18	90			2012	CM90	CW2012		
14	185.0	171.22	110			2517	CM110	CW2517		
15	197.0	183.26	110			2517	CM110	CW2517		
16	209.0	195.30	130			3020	CM130	CW3020		
17	221.0	207.34	130			3020	CM130	CW3020		
18	233.0	219.42	130			3020	CM130	CW3020		
19	245.5	231.49	130			3020	CM130	CW3020		
20	257.5	243.57	130			3020	CM130	CW3020		
21	270.5	255.65	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
22	282.5	267.73	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
23	294.5	279.80	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
24	307.0	291.88	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
25	319.0	304.00	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
26	331.0	316.08	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
27	343.0	328.19	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
28	355.0	340.27	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
29	367.5	352.38	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
30	379.5	364.50	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
31	391.5	376.62	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
32	403.5	388.69	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
33	415.5	400.81	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
34	428.0	412.93	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
35	440.0	425.04	130	181	13.5x6	3020	CM130	CW3020	SM130	SW3020
36	452.0	437.16	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
37	464.0	449.27	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
38	476.5	461.39	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
39	488.5	473.50	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
40	501.5	485.62	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
41	513.5	497.94	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
42	525.5	509.85	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
43	538.0	521.97	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
44	550.0	534.08	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
45	562.0	546.20	130	181	13.5x6	3030	CM130	CW3030	SM130	SW3030
46	574.0	558.32	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
47	586.5	570.43	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
48	598.5	582.55	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
49	610.5	594.66	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
50	622.5	606.78	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
51	635.0	618.89	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
52	647.0	631.01	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
53	629.0	643.13	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
54	671.0	655.25	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
55	683.5	667.40	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
56	695.5	679.50	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
57	707.5	691.63	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
58	719.5	703.74	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
59	731.5	715.86	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
60	745.0	727.97	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
70	866.0	849.21	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
72	890.5	873.48	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535
80	987.5	970.44	155	215	17.5x6	3535	CM155	CW3535	SM155	SW3535

# Easily - installed Sprockets Weld-on Sprockets

**NEW**

"C" Series Combination Sprockets and Hubs



"D" and "DS" Series Combination Sprockets and Hubs



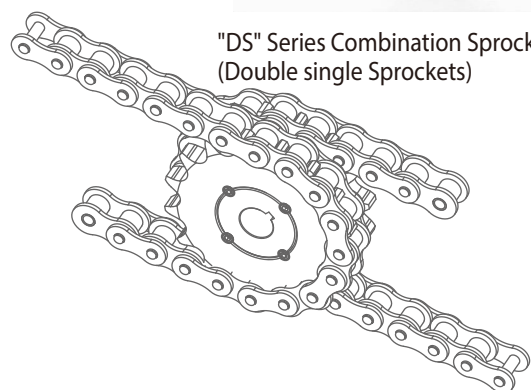
"S" Series Combination Sprockets and Hubs



"D" Series Combination Sprockets (Duplex Sprockets)



"DS" Series Combination Sprockets (Double single Sprockets)



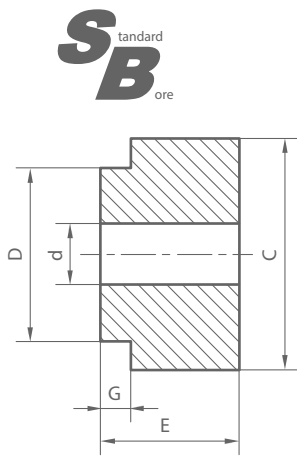
# Easy install Sprockets

## Installation Diagram for Combinatory Sprockets

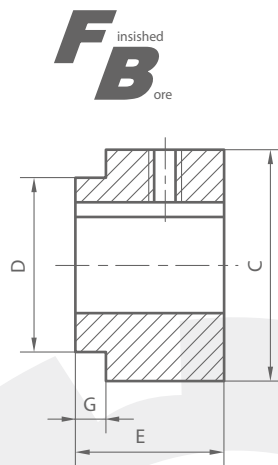
Hubs	Platwheels	Combinatory Sprockets	Spacers
<p>CM CM-FB</p>			
<p>CW</p>			
<p>SM SM-FB</p>			
<p>SW</p>			
<p>CMD CMD-FB</p>			
<p>SM</p>			
<p>CMDS</p>			

# CM

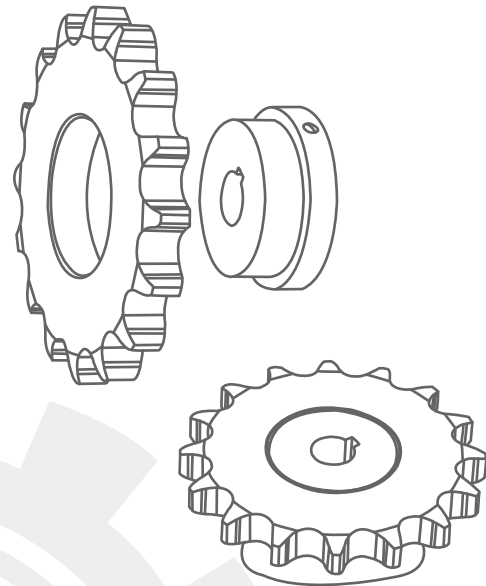
## Weld-on Hubs



CM



CM-FB



## CM Weld-on Hubs

material:S45C

Hub Rel	Bore		main dimensions (mm)				kg
	Min	Max	C	D	E	G	
CM40	10	25	50	40	28	11.10	0.46
CM50	10	28	60	50.8	30	11.10	0.77
CM60	12	32	70	60	35	16.20	1.20
CM70	14	42	83	70	40	18.50	1.91
CM90	18	50	106	90	50	24.10	2.84
CM110	20	60	127	110	60	24.10	5.97
CM130	25	75	152	130	70	24.10	9.98
CM155	35	90	184	155	90	24.10	16.7

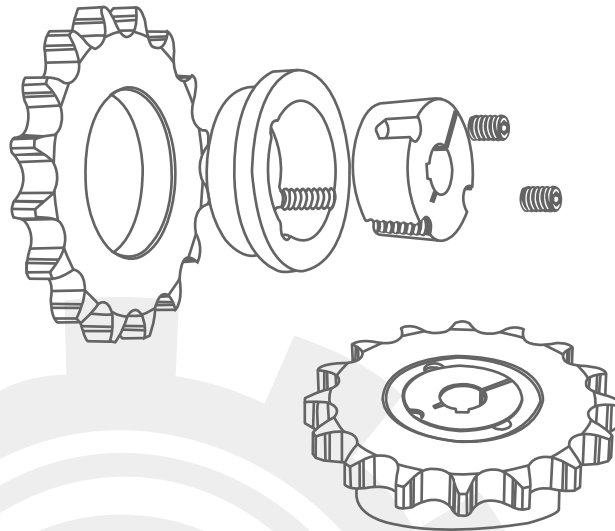
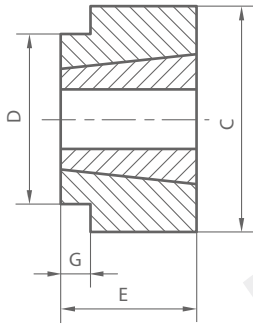
## CW-FB Weld-on Hubs Bore

Hub Rel	Weld-on Hubs Bore																												
	10	12	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	
CM40FB	○	○	○	○	○	○	○	○	○	○																			
CM50FB	○	○	○	○	○	○	○	○	○	○	○																		
CM60FB		○	○	○	○	○	○	○	○	○	○	○																	
CM70FB			○	○	○	○	○	○	○	○	○	○	○																
CM90FB					○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○							
CM110FB							○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
CM130FB								○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
CM155FB															○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

**CW**

# Weld-on Hubs

$T_{B_{ore}}^{aper}$



CW

## CW Weld-on Hubs

material:S45C

Hub Rel	Bush No	Bore		main dimensions (mm)			
		Min	Max	C	D	E	G
CW1008	1008	10	25	60	50.8	22	11.10
CW1210	1210	12	32	70	60	25	11.10
CW1215	1215	12	32	70	60	38	16.20
CW1610	1610	14	42	83	70	25	18.50
CW1615	1615	14	42	83	70	38	24.10
CW2012	2012	18	50	106	90	32	24.10
CW2517	2517	20	60	127	110	45	24.10
CW3020	3020	25	75	152	130	51	24.10
CW3030	3030	25	75	152	130	76	24.10
CW3535	3535	35	90	184	155	89	24.10

## CW Weld-on Hubs Bush Bore

Hub Rel	Bush	Waper Bushing Bore																											
		10	12	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90
CW1008	1008	○	○	○	○	○	○	○	○	○	○																		
CW1210	1210		○	○	○	○	○	○	○	○	○	○	○																
CW1215	1215			○	○	○	○	○	○	○	○	○	○																
CW1610	1610				○	○	○	○	○	○	○	○	○	○	○	○	○	○											
CW1615	1615					○	○	○	○	○	○	○	○	○	○	○	○	○											
CW2012	2012						○	○	○	○	○	○	○	○	○	○	○	○	○										
CW2517	2517								○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
CW3020	3020										○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CW3030	3030											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CW3535	3535															○	○	○	○	○	○	○	○	○	○	○	○	○	○

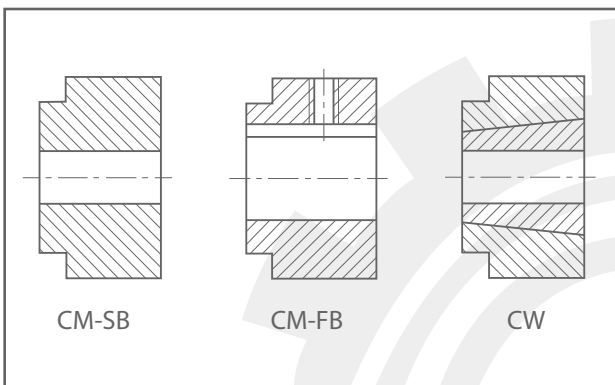
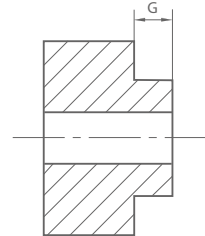
# Easily installed Hubs

## OPERATION INSTRUCTION FOR CM, CW HUBS

### CM, CW HUBS

There are two kinds of bore for CM hub, pilot bore (can be reproduced into different types of bore, e.g. split bore, hex bore and square bore etc) and finished bore. CW hubs are with BTL taper bore. After matched with CAPT-BTL taper bushings, they can meet the requirements for various bore diameters.

to meet the thicknesses of the largest pitch, the dimension "G" can be processed to relevant largest one. For the small pitch sprocket if the dimension less than the largest teeth thickness "G", it probably becomes C type.



When welding, specific technology should be used (e.g. sub-arc-welding or carbon dioxide welding etc.) to ensure the welding quality and avoid the part out of shape. If not, the precision will be reduced and there will be some trouble when using.

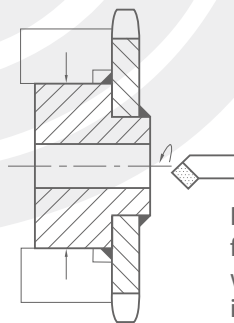
When CM, CW hubs are welded with plate wheels, welding should be done at the two sides for C type sprockets, For B type at one side (at hub side)

When you want to reproduce the bore for CM hub into other dimensions or forms, this process should be done after welding in order that all the run-outs and tolerances can be kept and not be effected due to welding. In this way precision can be ensured.

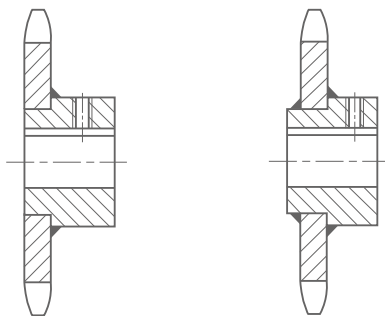
### COMBINATION BETWEEN HUBS AND PLATE WHEELS

There are two kinds of methods if CM, CW hubs are combined with plate wheels, i.e. welding or riveted lap joint.

a). Connection by welding is suitable for sprockets with different teeth numbers, especially for sprockets with less teeth numbers, as they are not suitable for bolt joint, welding is the first choice. (Note: if the distance between hub and teeth foot of sprocket less than 6mm, it is not suitable for welding joint since the welding area will probably cause trouble for chain moving.



Please take a think of the factors that welding aero will interfere the claming in order to avoid any effects to process precision



Type B

Type C

You can get either B type of C type simplex combination sprocket through welding in order

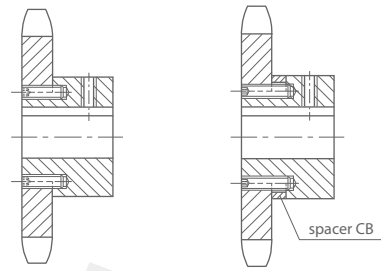
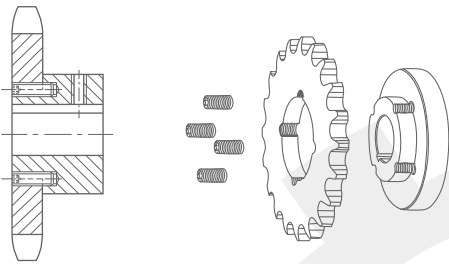
b). Rivet joint is also suit for the combination between CM, CW hubs and plate wheels, especially for sprockets with small teeth numbers which are not fit for welding.

To riveting joint, first, holes in proper sizes should be drilled and tapped at the connecting area, and then fix relevant inner hex screws to strength high enough. By doing so hubs and plate wheels can be combined into a rivet form.

# Easy install Hubs

Combination sprockets in rivet joint can be made with simple equipment (bench drill machine) and tools (relevant drill and tap). After simple processes (drilling and taping holes), combination sprockets of different specifications and also for different usages can be got. So they can meet all kinds of assembling conditions.

B type sprockets must be adopted when CM, CW hubs are combined with plate wheels.



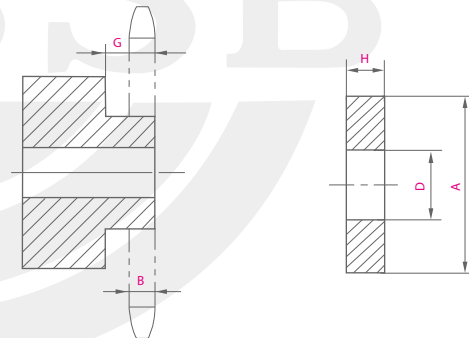
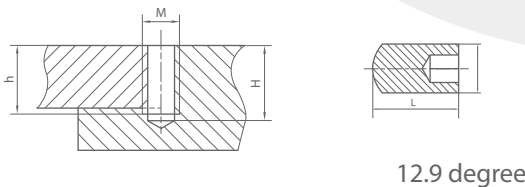
Teeth thickness+spacer CB

Using finished-bore hubs or taper-bore hubs, bores can avoid any other machining processes, just use in a fast way after assembling. They're with the characteristics of high precision, unshaped, low producing cost and easy on.

"G" dimension of CM, CW hubs are designed to the largest ones in order to meet the requirement of tooth thickness of the largest pitch plate wheels. If CM, CW hubs are combined with small pitch plate wheel, "G" dimension will be probably larger than tooth thickness, if so, a special design spacer CB must be put between hubs and plate wheels. In this way, rivet joint can be preformed.

**TABLE FOR DIMENSIONS OF CM, CW HUB FOR RIVET JOINT**

CM Hubs	CW Hubs	h	H	n-M	MxL
CM40	-	16	20	4-M6	M6x15
CM50	CW1008	22	25	4-M6	M6x20
CM60	CW1210	25	30	6-M6	M6x22
CM70	CW1610	28	33	6-M6	M6x25
CM90	CW2012	35	40	6-M8	M8x35
CM110	CW2517	35	40	6-M10	M10x35
CM130	CW3020	35	40	6-M12	M12x40
CM150	CW3535	35	40	6-M16	M12x40



Teeth thickness < G

spacer CB

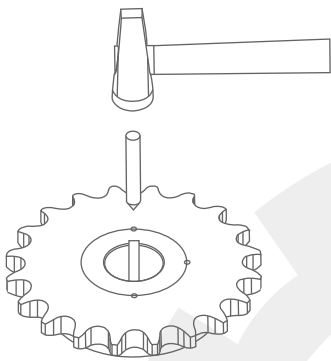
Rivet combination sprockets are installed with high strength inner hex screws, their quantities and sizes are certificated by engineering calculation. Their allowed strength while using are all larger than those of keyways in the bores. This can ensure the rivets will not be damaged before keyways and key stocks are. They are of high reliability and safety.

CM	CW	A	D	H					
				06B	08B	10B	12B	16B	20B
40	-	50	40	5.8	3.9	2.0			
50	1008	60	50	5.8	3.9	2.0			
60	1210	70	60	10.9	9.0	7.1	5.1		
70	1610	83	70	13.2	11.3	9.4	7.4	2.3	
90	2012	106	90		16.9	15	13	7.9	5.6
110	2517	127	110		16.9	15	13	7.9	5.6
130	3020	152	130					7.9	5.6

# Easy install Hubs

## INSTRUCTION FOR RIVET JOINT

1. To combine the relevant hub and sprocket together, the number of set screws can be selected according to the designed requirement (check with data list), and make the punching marks at the joint of sprockets and hubs.

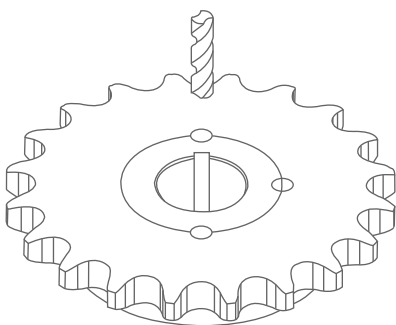


Please notice the equal spacing requirement (there is no need to be very precise, normally by drawing a line)

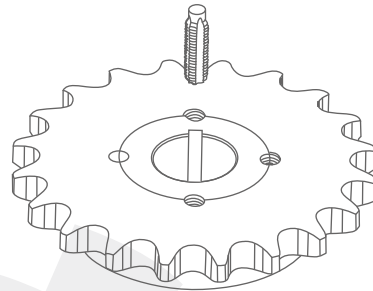
Note:1. when using finished bore hub to combine with the sprocket, if there is the requirement of hub keyway to be centerlined with the teeth of the sprocket, a precise line should be drawn to ensure its centerlined requirement.

2. when using the CW taper bored hub, please be sure that bush screw bole and riveting hole to be staggered.

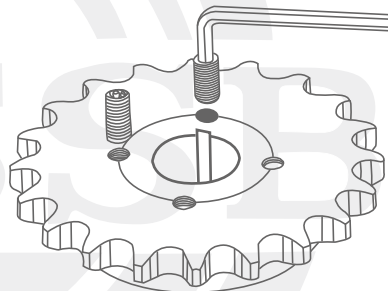
2. To drill the pilot bore to a certain depth according to the drilling requirement.



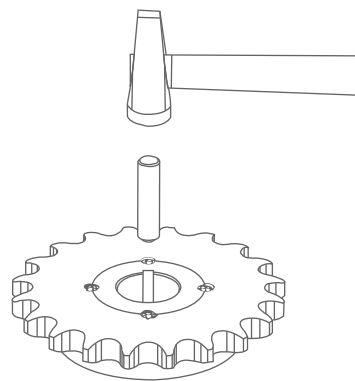
3. To tap the screw hole to the demanded depth, and use the manual method if necessary.



4. Using the relevant hexagon wrench to tighten all screws in turns, and after tightening screw safety, calcic grease can be used to prevent corrosion and dust.



5. After tightening the screws, for the purpose of preventing the screws from loosening and failing, you can use a drift to drift the edge of threaded holes to make it turning inward a little bit.





# SM-SW

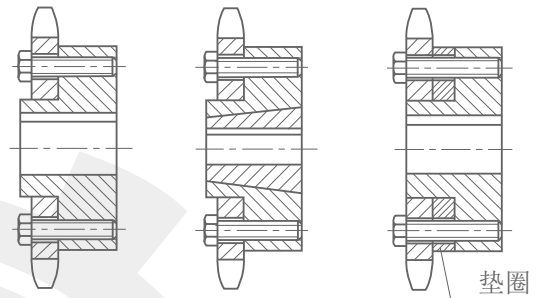
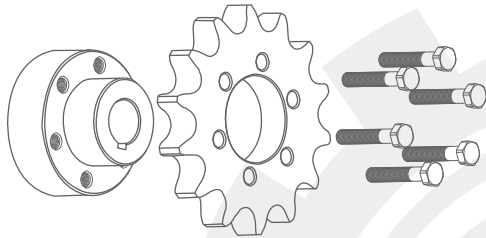
## Easy install Hubs

### OPERATION INSTRUCTION ABOUT SM, SW HUBS

#### TAPRE OF SM, SW HUBS

SM, SW hubs are of multi-usages when combined with platewheels by fixing bolts into the flanges. The flange holes of hubs are correspondent with the flange holes of platewheels. This kind of hubs are applicable for platewheels in medium or large pitch or with large teeth numbers. (plate wheels with small teeth numbers or small pitch can't use SM, SW hub due to the limitation of root diameter)

We can use SM, SW hubs to make "C" type or "B" type sprockets after combined with different pitch platewheels.

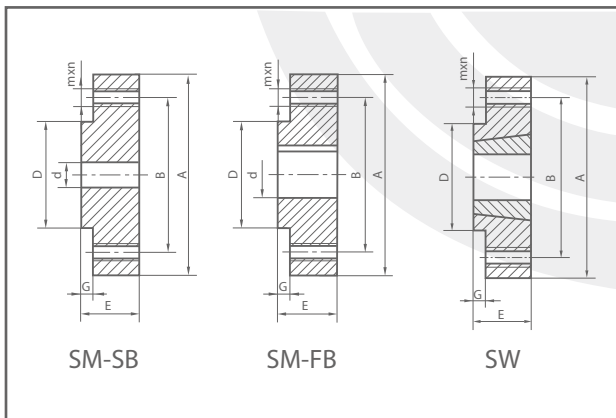


SM hubs are with plain bore (pilot bore or finish bore), SW hubs are with taper bore(CAPT-BTL)

There are two kinds of bores for SM hubs, pilot bores (can be remade into all kinds of taper bores or special bores, ie, spline bores, hexagonal bores, square bores) and finished bores.

Please note: As to small teeth numbers or small pitch platewheels, SM, SW hubs maybe is not suitable.

"G" dimension of SM, SW hubs are designed to the largest ones in order meet the requirement of teeth thickness of the largest pitch plate wheels. The combined sprockets will be "C" Type if teeth thickness is smaller than "G" dimension to small pitch platewheels. In this case, if you need "B" type, a special design "SB" must be put between hub and plate wheel.



The bores of SW taper-bore, hubs are BTL type, after matched with CAPT-BTL hibs, they can meet the assembling for bores F12-F90.

#### JOINT METHODS FOR SM, SW HUBS

When you use SM, SW hubs, high strength bolts of proper signs and quantities must be used The hubs and platewheels are combined together after fixing the bolt into the flange.



# SM-SW

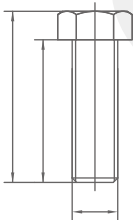
## Easy install Hubs

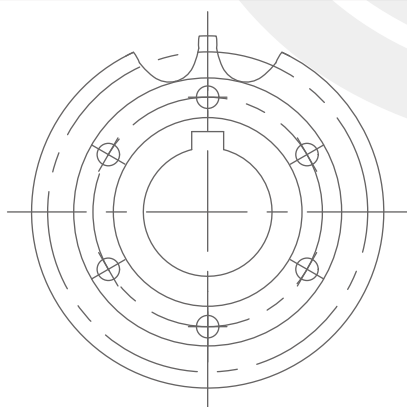
**TABLE FOR SB DIMENSION USED WITH SM, SW HUBS**

	SM70 SW1610	SM90 SW2012	SM110 SW2517	SM130 SW3020	
A	130	140	175	211	
B	102	121	146	181	
D	70	90	110	130	
n-M	4-9.5	6-9.5	6-11.5	6-13.5	
06M	1.9	-	-	-	
08B	-	3.9	11.3	-	
10B	-	2.0	9.4	-	
12B	-	-	7.4	-	
16B	-	-	2.3	8.0	
20B	-	-	-	5.6	

Degree 12.9 high strength bolts should be adopted for SM, SW hubs. The sizes and quantities can fully support the sprockets when they are in the largest power transmission. Very reliable and safe. If platewheels or hubs are ruined, just remove the damaged parts. This can save much time and cost on maintenance, so the economic value of combined sprockets becomes obvious.

**TABLE FOR BOLT DIMENSION**

	SM	SW	MxL	n
	70	1610	M8x25	4
	90	2012	M8x30	6
	110	2517	M10x45	6
	130	3020	M12x50	6
		3030	M12x75	6
	155	3535	M16x85	6

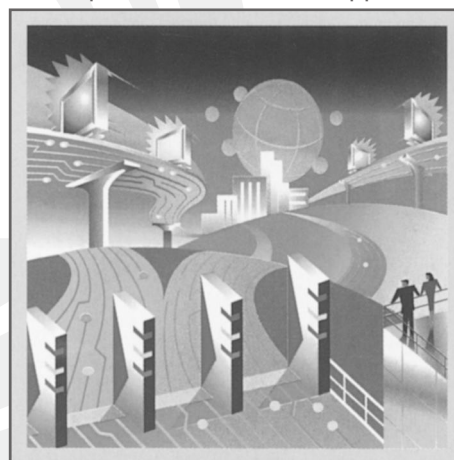


When the flange of the platewheel is machined, the center line of a teeth must keep in line with a hole of the flange and make a mark. When the keyway of finished bore hub is machined, its center line must concentrate with a hole of the flange and also make a mark. By doing so we can ensure the keyway of hub are in line with teeth of the combined sprockets if it is asked.

The Combinatory Sprockets designed by CAPT can fully ensure its quality and performance under the perfect production systems of CHSSB. Meanwhile, we can provide excellent technical support and a large variety of stock, so the customers can get the biggest benefits.



Comprehensive technical support



Powerful product series



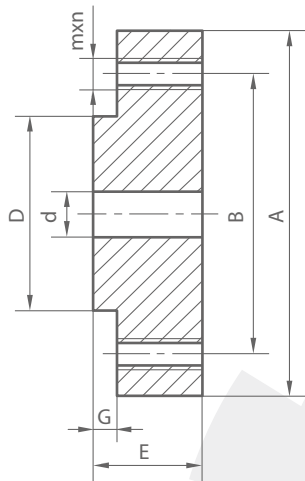
Speedy distribution and delivery

# SM

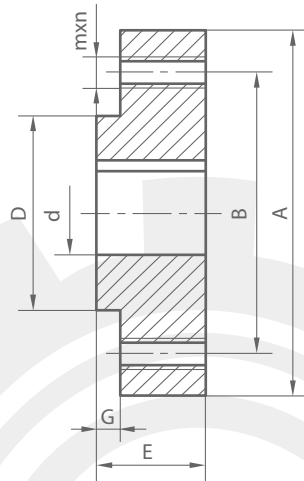
## Easy install Hubs

**S**<sup>standard</sup>  
**B**<sub>ore</sub>

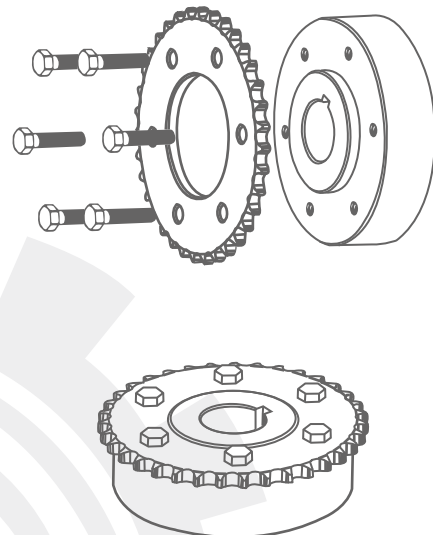
**F**<sup>inished</sup>  
**B**<sub>ore</sub>



SM-SB



SM-FB



## SM Easy install Hubs

material:S45C

Hub Rel	Bore d		main dimensions (mm)					screw hole Mxn
	Min	Max	A	B	D	E	G	
SM70	14	42	130	102	70	40	7.2	M8x4
SM90	18	50	140	121	90	50	11.1	M8x6
SM110	20	60	175	146	110	60	18.5	M10x6
SM130	25	75	211	181	130	70	24.1	M12x6
SM155	35	90	241	215	155	90	24.1	M16x6

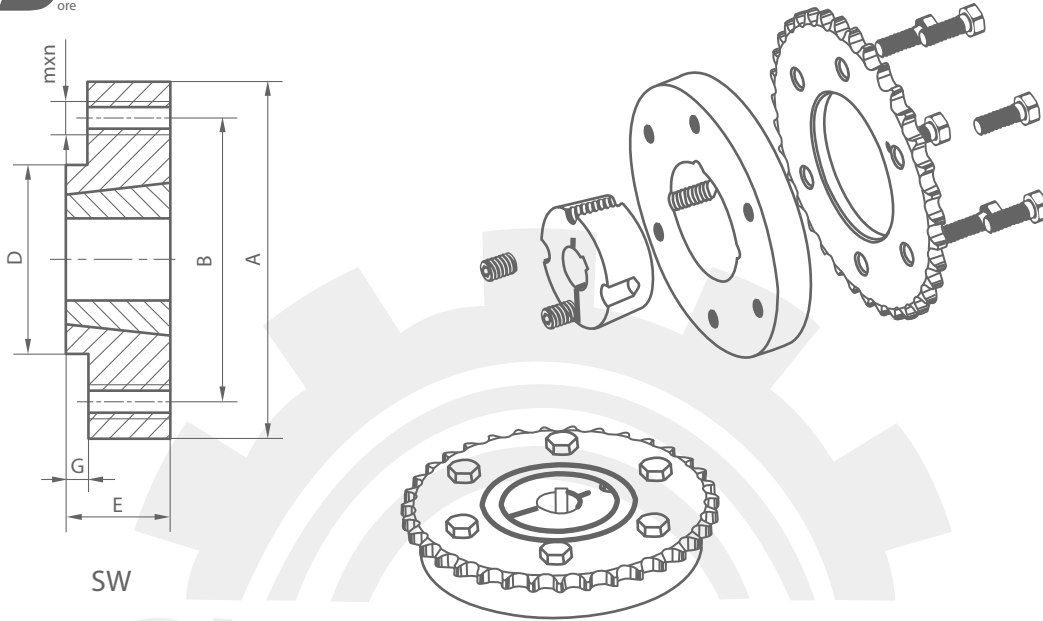
## SM Easy install Hubs

Hub Rel	Hubs Finished Bore																										
	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	
SM70FB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○												
SM90FB			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○										
SM110FB					○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
SM130FB								○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SM155FB														○	○	○	○	○	○	○	○	○	○	○	○	○	○

**SW**

# Easy install Hubs

**T<sub>aper</sub>  
B<sub>ore</sub>**



## SW Weld-on Hubs

material:S45C

Hub Rel	Bush No	main dimensions (mm)					screw bale Mxn
		A	B	D	E	G	
SW1610	1610	130	102	70	25	7.2	M8x4
SW2012	2012	140	121	90	32	11.1	M8x6
SW2517	2517	175	146	110	45	18.5	M10x6
SW3020	3020	211	181	130	51	24.1	M12x6
SW3030	3030	211	181	130	75	24.1	M16x6
SW3535	3535	241	215	155	89	24.1	M16x6

## SW Weld-on Hubs Taper bushing Bore

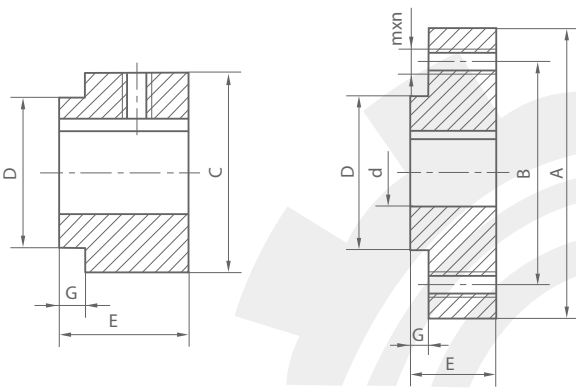
Hub Rel	Bush No	Taper Bushing Bore																										
		14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	
SW1610	1610	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○												
SW2012	2012			○	○	○	○	○	○	○	○	○	○	○	○	○	○											
SW2517	2517					○	○	○	○	○	○	○	○	○	○	○	○	○										
SW3020	3020								○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SW3030	3030									○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SW3535	3535														○	○	○	○	○	○	○	○	○	○	○	○	○	○

# Easy install Hubs

## FINISHED BORE UHBS

Customers can adopt hubs with different finished bore to make sprockets for different types and use (simple and duplex sprockets, double single sprockets, complex sprockets with different teeth numbers).

Hubs with finished bore adopt ISO standard bore dimensions, standard keyways and set screws, bore diameter from 10-90.



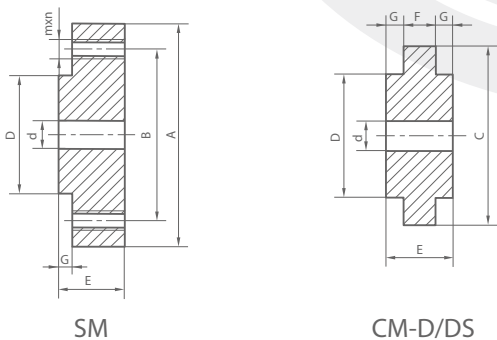
CM-FB

SM-FB

Finished bore connection hubs two types: CM, SM

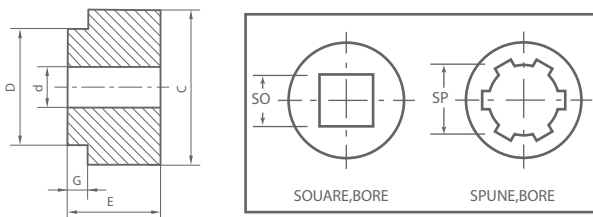
## PILOT BORE HUBS

CAPT can provide pilot bore hubs for different assemblies in order that customers can reproduce the bore according to their special need, such as spline bore, square bore, hex bore and other special type bore.



SM

CM-D/DS



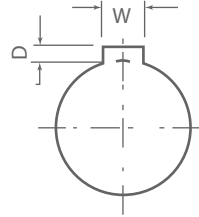
SQUARE, BORE

SPLINE, BORE

Pilot bore connection hubs have six types: CM, CM-D, CM-DS, SM, SM-D and SM-DS.

## DETAIL LIST OF KEYWAYS, SET SCREWS FOR STANDARD BORE

Bore	Keyway WxD	Set Screws
10	3x1.4	M4
11-12	4x1.8	M4
14-16	5x2.3	M4
18-22	6x2.8	M5
24-30	8x3.3	M6
32-38	10x3.3	M8
40-42	12x3.3	M10
45-50	14x3.8	M12
55	16x4.3	M12
60-65	18x4.4	M16
70-75	20x4.9	M16
80-85	22x5.4	M16
90-95	25x5.4	M16



## FINISHED BORES

Bore	CM40	CM50	CM60	CM70 SM70	CM90 SM90	CM110 SM110	CM130 SM130	CM155 SM155
10	●	●						
12	●	●	●					
14	●	●	●	●				
16	●	●	●	●				
18	●	●	●	●	●			
20	●	●	●	●	●	●		
22	●	●	●	●	●	●		
24	●	●	●	●	●	●		
25	●	●	●	●	●	●		
28		●	●	●	●	●	●	
30			●	●	●	●	●	
32			●	●	●	●	●	
35				●	●	●	●	●
38				●	●	●	●	●
40				●	●	●	●	●
42				●	●	●	●	●
45					●	●	●	●
48					●	●	●	●
50					●	●	●	●
55						●	●	●
60						●	●	●
65							●	●
70							●	●
75							●	●
80								●
85								●
90								●

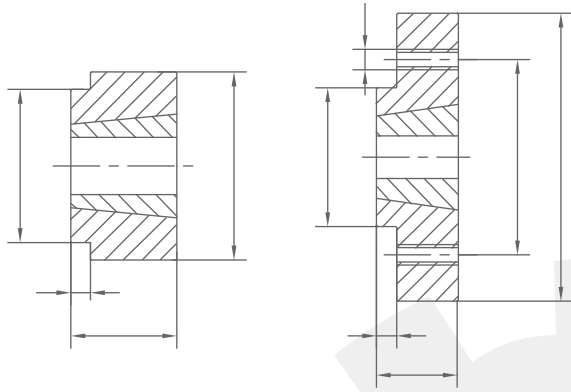
It is suitable for hubs with finished bore. All the dimensions listed for keyways are also available for bushings (not including shallow keyways.)

# Easy install Hubs

T<sub>aper</sub>  
B<sub>ore</sub>

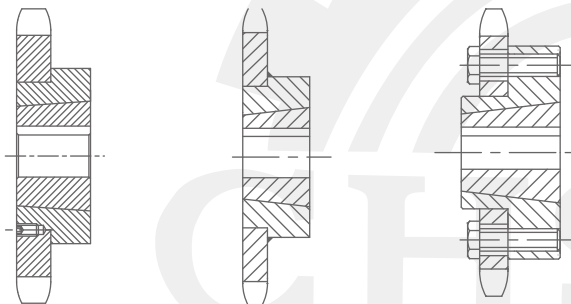
**CW SW**

CW and SW Hubs using BTL Bushings for Combinatory Sprockets



CW

SW



Riveting  
Taper Hubs

Welding

Bolting

## TAPER BORE HUBS

Using hubs with taper bore, matched by CAPT series of BTL bushings, you can get the parts with the whole series of standard bore dimensions (10-90, precision H7) with standard keyway, no lathing is needed. After combined with platewheels, a standard series of taper lock sprockets can be formed. Very convenient for users.



**BTL**

### Taper Bushing Bores

Bore	Taper Bushing					
	1610	2012	2517	3020	3030	3535
14	●					
16	●					
18	●	●				
20	●	●	●			
22	●	●	●			
24	●	●	●			
25	●	●	●	●	●	
28	●	●	●	●	●	
30	●	●	●	●	●	
32	●	●	●	●	●	
35	●	●	●	●	●	●
38	●	●	●	●	●	●
40	●	●	●	●	●	●
42	●	●	●	●	●	●
45		●	●	●	●	●
48		●	●	●	●	●
50		●	●	●	●	●
55			●	●	●	●
60			●	●	●	●
65				●	●	●
70				●	●	●
75				●	●	●
80						●
85						●
90						●

### Combining method for CW and SW

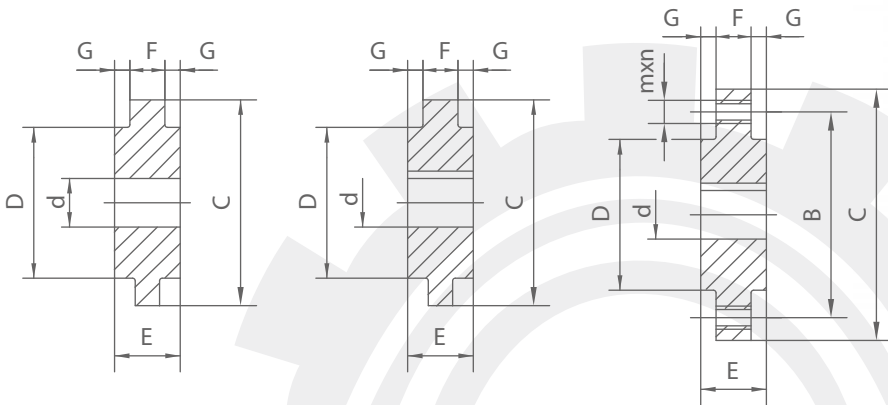
1. Taper Hubs, using BTL Bushings, are specially designed for CAPT Combinatory Sprockets. There are two kinds of Taper Hubs-"CW" and "SW". To use relative type of BTL Bushings, without re-machining, all your inner bore dimensional requirements can be met.
2. "CW" Taper Hubs are suitable for smaller diameter Combinatory Sprockets. After welding and riveting with Platewheels, the complete Combinatory Sprockets can meet all the functional requirements.
3. "SW" Taper Hubs are suitable for larger diameter Combinatory Sprockets. High tensional bolts are used to fix the Platewheels and Hubs together. No more machining is required and it is the fastest way to form the Finished Bore Sprockets.
4. As the Hubs are taper bored and they are used together with BTL Taper Bushings, this combination is suitable for all kinds of standard bore sizes. In this way the inventory can be largely reduced, both in items and in quantities. They are of obviously commercial value and of market advantages.

# Easy install Sprockets Weld-on Sprockets

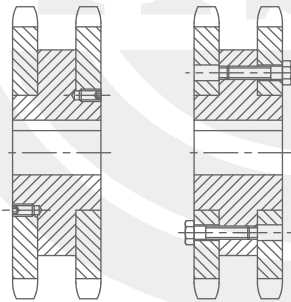


CMD and SMD are the special Hubs for the Combinatory Sprockets which use the Standard DuplexChains.

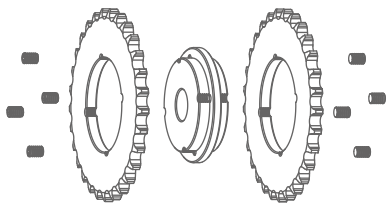
CMD and SMD Hubs designed by CAPT are specially used to form Standard Duplex Combinatory Sprockets and the Sprockets can be from pitch 3/8" to 1 1/2" sizes. All the dimensions and functions are exactly the same as the traditional Duplex Sprockets.



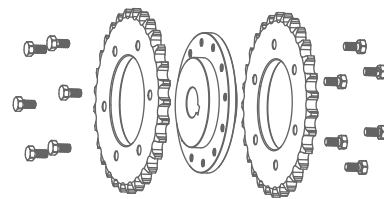
We have stock for CMD Hubs with both pilot bores and finished bores, but we only supply finished bore for SMD Hubs.



For CMD Hubs, riveting is applied to form Duplex Sprockets and for SMD Hubs, we use bolting to form Duplex Sprockets.



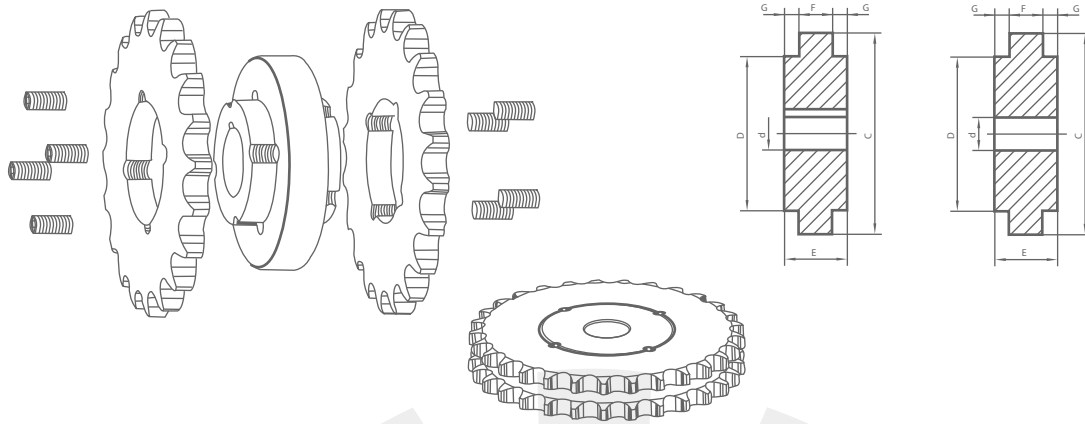
Riveting with screws: suitable for smaller diameter Combinatory Sprockets.



Bolting: suitable for larger diameter Combinatory Sprockets.

# CMD

## Weld-on Hubs



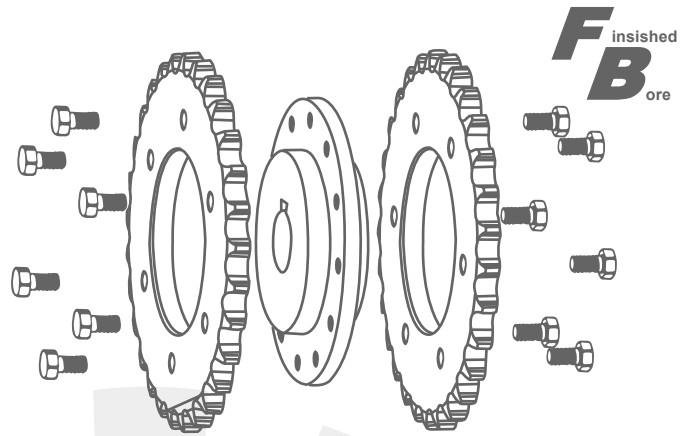
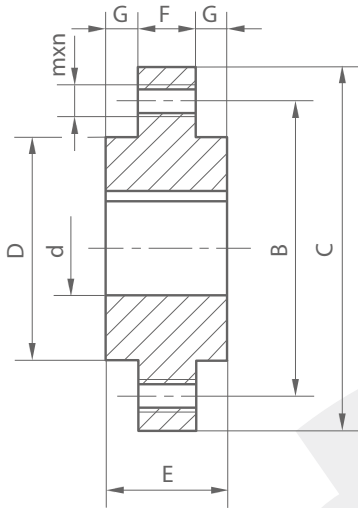
## CMD Weld-on Hubs

Hub Rel	sprocket No.	Bore d		main dimensions (mm)					Kg
		Min	Max	C	D	G	E	F	
CMD40	06B	10	25	50	40	5.2	15.4	5.0	0.2
	08B					7.1	214.0	6.8	0.3
	10B					9.0	25.5	7.5	0.38
	12B					11.0	30.3	8.3	0.43
CMD50	06B	10	28	60	50	5.2	15.4	5.0	0.3
	08B					7.1	21.0	6.8	0.45
	10B					9.0	25.5	7.5	0.55
	12B					11.0	30.3	8.3	0.65
CMD60	06B	12	32	70	60	5.2	15.4	5.0	0.45
	08B					7.1	21.0	6.8	0.6
	10B					9.0	25.5	7.5	0.75
	12B					11.0	30.3	8.3	0.91
	16B					16.0	47.7	15.7	1.4
CMD70	06B	14	42	83	70	5.2	15.4	5.0	0.62
	08B					7.1	21.0	6.8	0.85
	10B					9.0	25.5	7.5	1.0
	12B					11.0	30.3	8.3	1.25
	16B					16.0	47.7	15.7	1.95
	20B					18.4	54.6	17.8	2.2
CMD90	08B*	18	50	106	90	7.1	21.0	6.8	1.4
	10B					9.0	25.5	7.5	1.7
	12B					11.0	30.3	8.3	2.0
	16B					16.0	47.7	15.7	3.3
	20B					18.4	54.6	17.8	3.7
	24B					23.8	72.0	24.4	4.9
CMD110	08B*	20	60	127	110	7.1	21.0	6.8	2.1
	10B*					9.0	25.5	7.5	2.5
	12B*					11.0	30.3	8.3	29
	16B					16.0	47.7	15.7	4.6
	20B					18.4	54.6	17.8	5.2
	24B					23.8	72.0	24.4	7.0
CMD130	16B*	25	75	152	130	16.0	47.7	15.7	6.6
	20B*					18.4	54.6	17.8	7.6
	24B					23.8	72.0	24.4	10.2
CMD155	24B*	35	90	184	155	23.8	72.0	24.4	14.9



# Easy install Hubs

**SMD**



SMD-FB

## SMD-FB Easy install Hubs

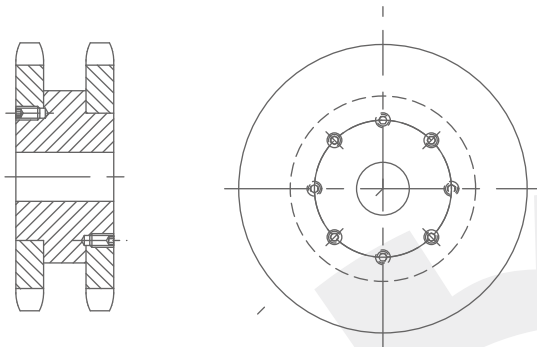
Hub Rel	sprocket No.	Bore		main dimensions (mm)						screw hole Mxn	Kg Ⓞ
		Min	Max	C	B	D	G	E	F		
SM70-D	06B	14	42	130	102	70	5.2	15.4	5.0	M8x8	1.5
	08B						7.1	21.0	6.8		2.1
SM90-D	08B	18	50	140	121	90	7.1	20.0	6.8	M8x12	2.5
	10B						9.0	25.5	7.5		3.0
	12B						11.0	30.3	8.3		3.6
SM110-D	10B	20	60	175	146	110	9.0	25.5	7.5	M10x12	4.5
	12B						11.0	30.3	8.3		5.5
	16B	20	60	175	146	110	16.0	47.7	15.7		8.6
	20B	18.4	54.6	17.8	9.8						
SM130-D	16B	25	75	211	181	130	16.0	17.7	15.7	M12x12	12.7
	20B						18.4	54.6	17.8		15.0
	24B						23.80	72.0	24.4		20.0
SM155-D	24B	35	90	241	215	155	23.80	72.0	24.4	M16x12	25.5
	-						-	-	-		

## SMD-FB Easy install Hubs Bore

Hub Rel	Hubs Finished Bore																									
	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90
SMD70FB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○											
SMD90FB			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
SMD110FB					○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
SMD130FB								○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SMD155FB														○	○	○	○	○	○	○	○	○	○	○	○	○

# Easy install Hubs

Riveting Diagram for duplex Combinatory Sprockets Used with Standard Duplex Roller Chains.



When riveting the platewheels on the both sides of hubs, the rivet holes should be interlaced. The method of processing rivets is the same as when they are processed for simplex sprockets.

"CMD" Hubs of CAPT series used for the Duplex combinatory Sprockets are sold in pilot bore. If finished bore sprockets are needed, please indicate it when purchasing. The finished bore should be belated before riveting.

Dimensions for Processing Rivet Holes.

Sprockets			H	L	
	MAX	Min			
06B	M6	M6	10	8	
08B	M6	M6	14	10	
10B	M10	M6	18	15	
12B	M10	M6	20	16	
16B	M12	M8	30	25	
20B	M12	M8	30	25	
24B	M16	M10	35	30	

Hubs	Sprockets	Screw Hole	
		n	MxL
SMD70	06B	8	M8x15
	08B	8	M8x20
SMD90	08B	12	M8x20
	10B	12	M8x25
SMD110	12B	12	M8x30
	10B	12	M10x25
	12B	12	M10x30
	16B	12	M10x45
SMD130	20B	12	M10x50
	16B	12	M12x45
	20B	12	M12x50
SMD150	24B	12	M12x70
	24B	12	M16x70

Contract for Hubs, and Rivets.

Hubs	n	Sprockets		L	
		min	max	min	max
CMD40	4x2	06B	12B	8	-
CMD50	4x2	06B	12B	8	-
CMD60	6x2	06B	16B	8	25
CMD70	6x2	06B	20B	8	25
CMD90	6x2	08B	24B	10	30
CMD110	6x2	08B	24B	10	30
CMD130	6x2	16B	24B	24	30
CMD150	6x2	-	24B	-	30

Bolt Dimensions for "SMD" Hubs.

The strength of bolts is 12.9.

When the "SMD" Hubs are combined with platewheels, the bolts should be interlaced, ie there should be 1/2 percent of the total quantity on each side.

"SMD" Hubs are sold in finished bore. After combined with platewheels, the Combinatory Sprockets can be used immediately, no need any further processing.

The above two tables list the dimensions of the Combinatory Sprockets of different pitches when they are processed for riveting purpose and also the dimensions of the rivets used with different sizes of hubs. When choosing the rivets, our suggestion is the biggest the best to ensure the strength if only they are acceptable to the Combinatory Sprockets.

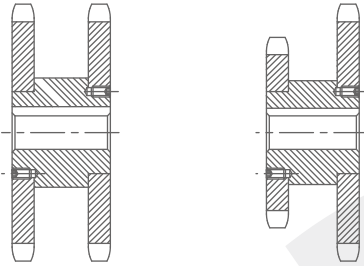
The strength of the rivets is 12.9.



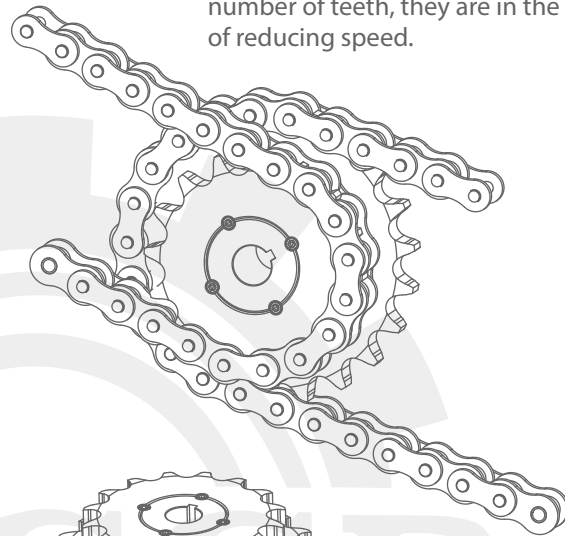
# Easy install Sprockets Weld-on Sprockets



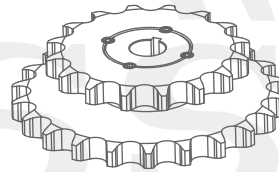
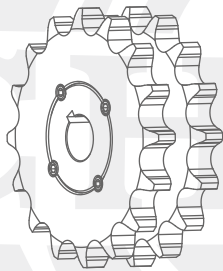
Combinatory DS Sprockets are designed exactly according to the standard DS Sprockets. They are made by CMDS Hubs and standare Platewheels.



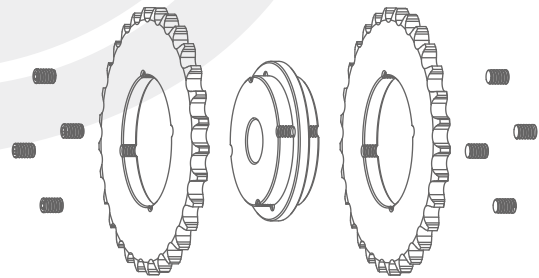
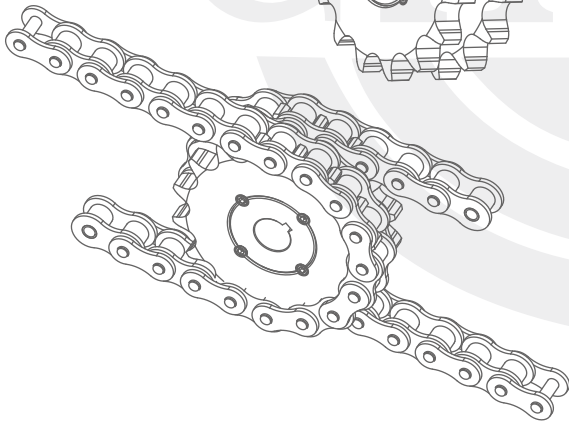
When Driving Wheels being with more number of teeth, the transmission are in the state of increasing speed; otherwise, when Driving Wheels being less number of teeth, they are in the state of reducing speed.



Combinatory Equal-Speed DS Sprockets.  
Combinatory Unequal-Speed DS Sprockets.  
DS Sprockets can be formed form pitch 1/2" to 1 1/4" within teethnumber 60. The combination can be made freely to from both Equal-Speed DS Sprockets and Unequal-Speed DS Sprockets.



The only way to connect CMDS Hubs with Platewheels is riveting by bolts. The way of making the connecting holes is the same as CMD Hubs.



Combinatory Equal-Sprockets can be formed by using two Platewheels of same pitches and equal number of teeth and CMDS Hubs. They are used in the constant transmissions with multi-steps.

Combinatory Unequal-Speed Sprockets can be formed by using two Platewheels of different number of teeth with different pitches qnd CMDS Hubs. This can acquire transmission of increasing speed or requirements.

When making Unequal-Speed DS-B Sprockets, the Hubs should be selected according to larger pitch of Platewheels and a spacer should be added to the side of smaller pitch Platewheels to ensure that the two sides of Platewheels to be the same as the Hubs sides. Otherwise it is impossible in making the r-iveting holes and installation can not be carried out.