

Habasit® Cleandrive Sprocket Series CD40



CD = Cleandrive

Belt pitch

W = self-tracking sprocket; D = drive sprocket; T = tail pulley; P = support pulley

Number of teeth

Shaft size

Shaft type: Q = square shaft; R = round shaft

Material: 6 = POM (standard)

CD 40 W 10 40 Q 6

Sprocket availability

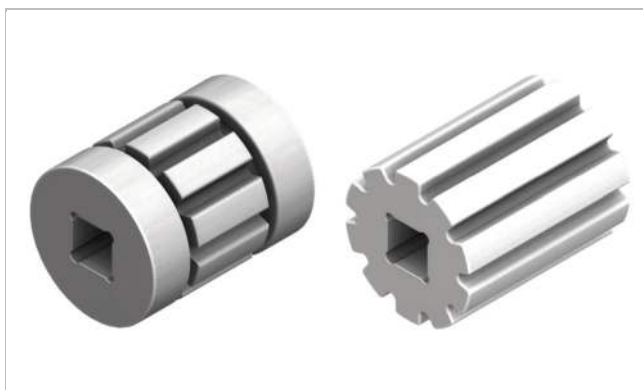
Type	Number of teeth	Diam. of pitch Ø d _p		A ₁		Hub width B _L		Square bore Q		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	-
D-C3	16	203.2	8.0	93.0	3.66	160	6.30	40	1.5	POM
D-C3	12	152.4	6.0	67.6	2.66	160	6.30	40	1.5	POM
D-C3	10	127.0	5.0	54.9	2.16	160	6.30	40	1.5	POM
D-C3	8	101.6	4.0	42.2	1.66	160	6.30	40	1.5	POM
D-C3	6	76.4	3.0	29.5	1.16	160	6.30	25	1	POM
W-C3	16	203.2	8.0	93.0	3.66	160	6.30	40	1.5	POM
W-C3	12	152.4	6.0	67.6	2.66	160	6.30	40	1.5	POM
W-C3	10	127.0	5.0	54.9	2.16	160	6.30	40	1.5	POM
W-C3	8	101.6	4.0	42.2	1.66	160	6.30	40	1.5	POM
W-C3	6	76.4	3.0	29.5	1.16	160	6.30	25	1	POM

*-C3: Machined sprockets

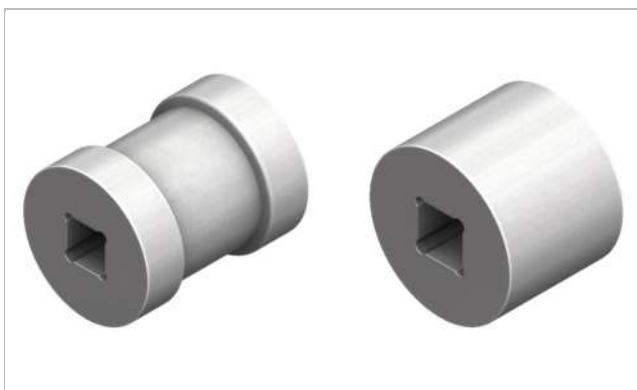
Other sprocket and hub sizes on request.

Key ways for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Design Guide.

Other materials available on request.

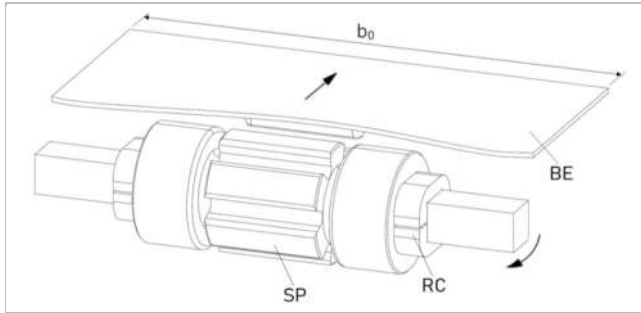


W = self-tracking sprocket (left) and **D** = drive sprocket (right)



T = tail pulley (left) and **P** = support pulley (right)

Sprocket arrangement

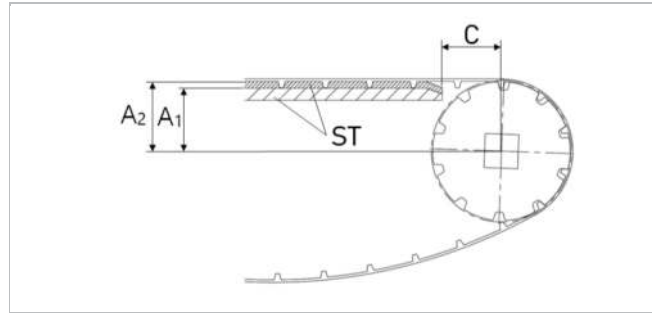


BE Belt
RC Retainer
SP Sprocket
b₀ belt width

Wearstrips

Between driving shaft and idling sprockets or rollers the belt is carried by a slider support furnished with longitudinal wear strips from UHMW Polyethylene or other suitable material.

If the maximal load is concentrated in the middle of the belt we recommend supporting the lugs by an additional wear strip. This avoids localized belt deformation and excessive belt abrasion from wear strips adjacent to the lugs. It is always recommended to support the lug area on the return way.



The distance **C** between the sprocket axis and the slider support **ST** is minimal 53 mm (2.1").

Number of sprockets and wearstrips

To ensure the right amount of belt support on the driving shaft, use minimum 70% of the belt width for sprockets and support rollers. For the idler shaft is just 50% of the total support length.

The table below shows the number of sprockets including distances for typical belt widths b_0 .
To calculate the adjusted belt tensile force contact your Habasit representative.

Belt width b_0 [mm] / [inch]	Number of lug rows and sprockets			Minimum number of wear strips	
				Carry way	Return way
150 / 6	1			2	2
200 / 8	1			4	2
250 / 10	1			4	2
300 / 12	1			4	2
350 / 14	1			4	2
400 / 16	1			4	2
450 / 18	1			4	2
500 / 20	1			4	3
550 / 22	1			6	3
609 / 24	1			6	3
650 / 26	1			6	4
700 / 28	1*	2		6	4
750 / 30	1*	2		6	4
800 / 32	1*	2		8	4
850 / 34	1*	2		8	5
900 / 36	1*	2		8	5
950 / 38	1*	2		9	5
1000 / 40	1*	2		9	5
1100 / 44	1*	2		11	6
1200 / 48		2		11	6
1300 / 52		2	3	12	6
1400 / 56		2	3	14	7
1500 / 60		2	3	14	7
1650 / 64		2	3	16	8
1750 / 68		2	3	18	8
1810 / 72		2	3	18	9

*possible just from the middle row

For belt widths greater than 685 mm (27"), use no fewer than two lug rows if the admissible tensile force utilized is above 50%.

Disclaimer

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