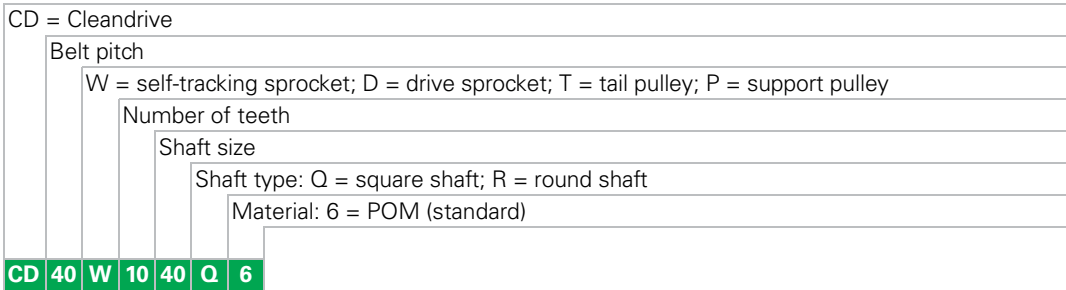


# Habasit® Cleandrive Sprocket Series CD40



## Sprocket availability

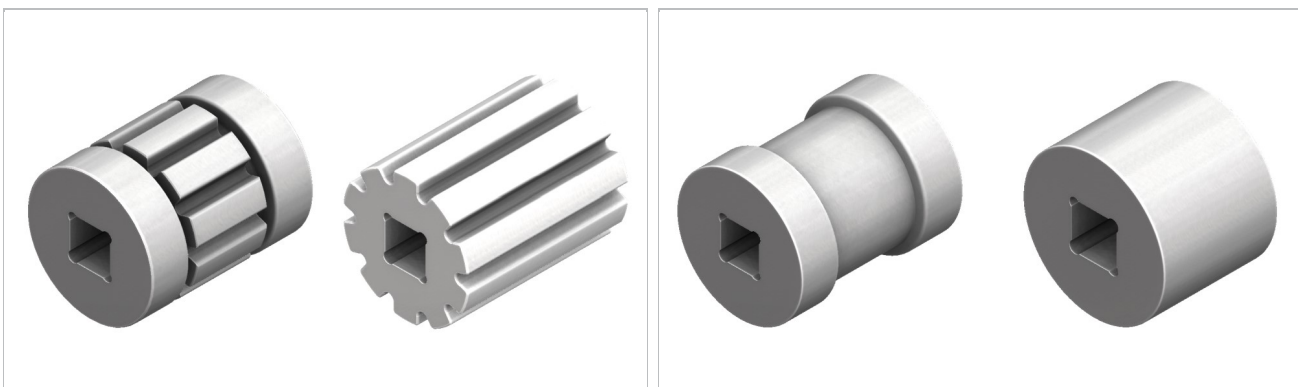
Type	Number of teeth	Diam. of pitch $\varnothing d_p$		$A_1$		Hub width $B_L$		Square bore Q		Standard material
		mm	inch	mm	inch	mm	inch	mm	inch	
D-C3	16	203.2	8.0	93.0	3.66	160	6.30	40	1.5	POM
D-C3	12	152.4	6.0	67.6	2.66	160	6.30	40	1.5	POM
D-C3	10	127.0	5.0	54.9	2.16	160	6.30	40	1.5	POM
D-C3	8	101.6	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.

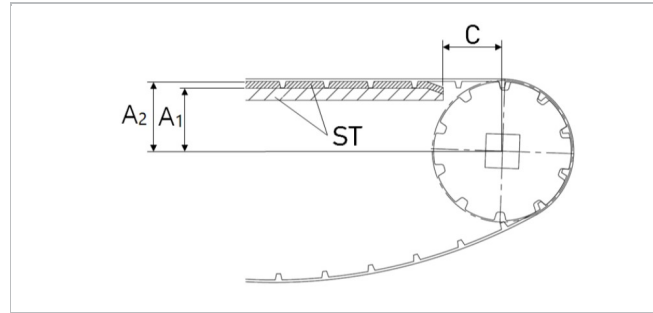
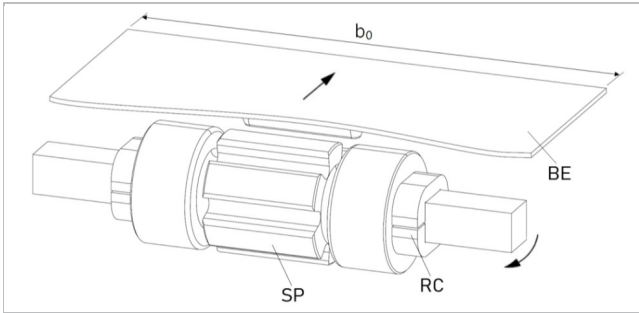
**Other materials** available on request.



**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  
**b<sub>0</sub>** belt width

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

### 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.

## 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	12	6
1400 / 56		2	14	7
1500 / 60		2	14	7
1650 / 64		2	16	8
1750 / 68		2	18	8
1810 / 72		2	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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