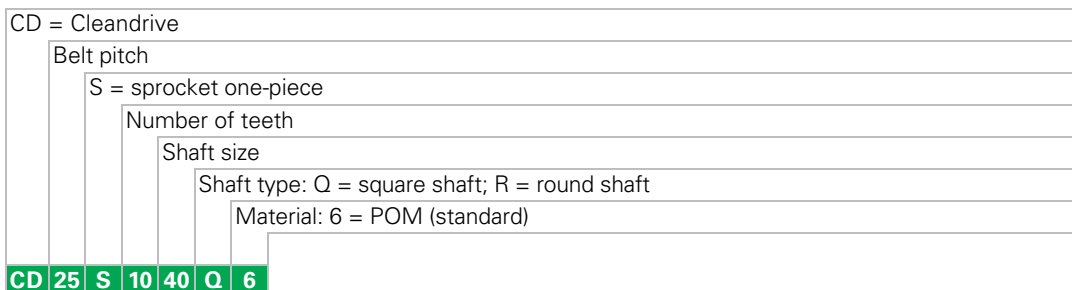


# Habasit Cleandrive™ Sprocket Series CD25



## Sprocket availability

Type	Number of teeth	Diam. of pitch $\varnothing d_p$		$A_1$		Hub width $B_L$		Square bore Q		$\varnothing$ Round bore R	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
S-C3*	5	43.0	1.7	16.5	0.65	30	1.18	15	0.6	20	0.75
S-C3*	6	51.6	2.0	20.8	0.82	30	1.18	20	0.75	20	0.75
S-C3	7	60.1	2.4	25.1	0.99	30	1.18	25	1	30	1-3/16
S-C3	8	68.6	2.7	29.3	1.15	30	1.18	25	1	30	1-3/16
S-C3	10	85.7	3.4	37.9	1.49	30	1.18	25 / 40	1 / 1.5	30	1-3/16
S-C3	12	102.7	4.0	46.4	1.82	30	1.18	25 / 40	1 / 1.5	30	1-3/16
S-C3	14	119.8	4.7	54.9	2.16	30	1.18	40 / 60	1.5 / 2.5	30 / 50	1.5 / 2.5
S-C3	16	136.9	5.4	63.5	2.50	30	1.18	40 / 60	1.5 / 2.5	30 / 50	1.5 / 2.5
S-M2	10	85.7	3.4	37.9	1.49	30	1.18	40			
S-M2	12	102.7	4.0	46.4	1.82	30	1.18	40	1.5	30	
S-M2	20	171.0	6.7	80.5	3.17	30	1.18	40			

S-C3\*: Machined sprockets for idle shaft only

S-C3: Machined sprockets

S-M2: Molded HyCLEAN sprockets

Other sprocket and hub sizes on request.

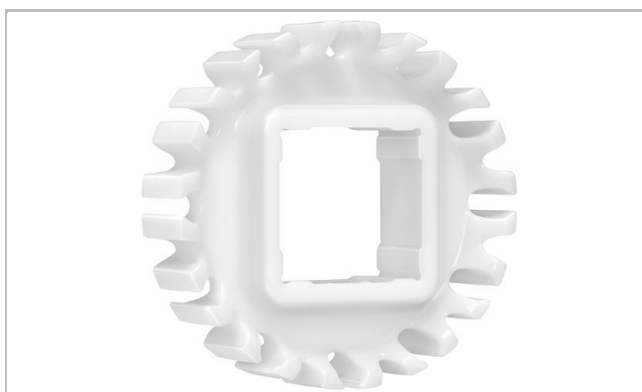
**Key ways** for round bore shape follow European standards for metric sizes and US standards for imperial sizes. For detailed dimensions see table in the Design Guide.

The **S-M2** with round **30 mm** is without key way and is used as idle sprocket.

**Other materials** available on request.

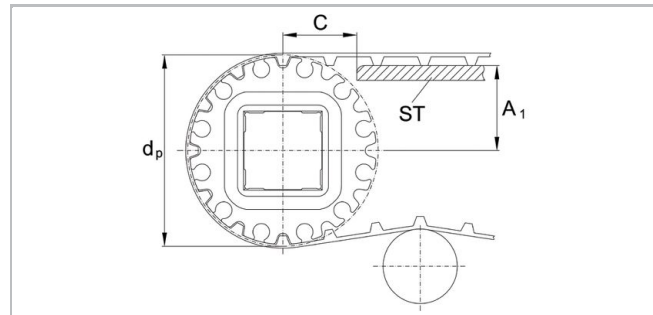
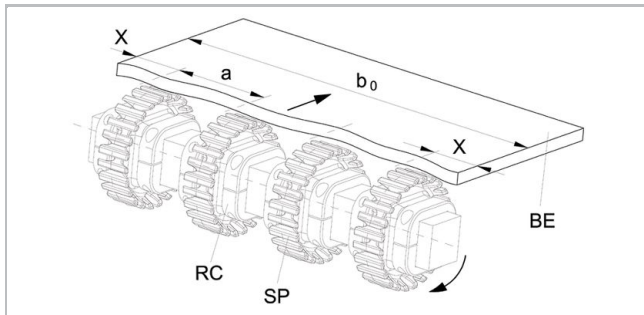


Habasit Cleandrive™ series C3



Habasit Cleandrive™ HyCLEAN series M2

## 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 28 mm (1.1").

### 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.

### Number of sprockets and wearstrips

For light loaded belts with adjusted utilization below 50% the sprockets can be placed further apart. For heavy loaded belts with adjusted utilization above 50% and/or application with scrapers the sprockets must be placed closer together with larger number of sprockets on the drive shaft.

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 $b_0$	Number of sprockets				Edge distance $x$	Number of wear strips
	min. number of sprockets	Distance $a$ [mm] / [inch]	Number of sprockets for belt load > 50%	Distance $a$ [mm] / [inch]		
[mm] / [inch]					[mm] / [inch]	Carry way <sup>1)</sup>
100 / 4	2	50 / 2.0	2	50 / 2.0	25 / 1	2
150 / 6	2	100 / 4.0	3	50 / 2.0	25 / 1	2
200 / 8	3	60 / 2.5	3	60 / 2.5	40 / 1.5	2
250 / 10	3	85 / 3.5	4	57 / 2.3	40 / 1.5	3
300 / 12	3	110 / 4.5	5	55 / 2.3	40 / 1.5	3
350 / 14	4	90 / 3.7	5	68 / 2.8	40 / 1.5	3
400 / 16	4	107 / 4.3	6	64 / 2.6	40 / 1.5	4
450 / 18	5	93 / 3.8	7	62 / 2.5	40 / 1.5	4
500 / 20	5	105 / 4.3	8	60 / 2.4	40 / 1.5	4
550 / 22	6	118 / 3.8	9	59 / 2.4	40 / 1.5	5
610 / 24	6	106 / 4.2	9	66 / 2.6	40 / 1.5	5

If the belt width is in-between the indicated width choose the number of sprockets from the nearest width. However adjust the distance  $a$  accordingly.

<sup>1)</sup> The required number of support is dependent on sprocket size and weight. The indicated number provides a distance of approx. 50 mm / 2" to 100 mm / 4".

# Habasit Cleandrive™ Sprocket Series CD25



Belt width b <sub>0</sub>	Number of sprockets				Edge distance x	Number of wear strips
	[mm] / [inch]	min. number of sprockets	Distance a [mm] / [inch]	Number of sprockets for belt load > 50%		
650 / 26	7	95 / 3.8	10	63 / 2.6	40 / 1.5	6
700 / 28	7	103 / 4.2	11	62 / 2.5	40 / 1.5	6
750 / 30	8	96 / 3.9	11	67 / 2.7	40 / 1.5	7
800 / 32	8	103 / 4.1	12	65 / 2.6	40 / 1.5	7
850 / 34	9	96 / 3.9	13	64 / 2.6	40 / 1.5	8
900 / 36	9	103 / 4.1	14	63 / 2.5	40 / 1.5	8
950 / 38	10	97 / 3.9	14	67 / 2.7	40 / 1.5	9
1000 / 40	10	102 / 4.1	15	66 / 2.6	40 / 1.5	9
1100 / 44	11	102 / 4.1	16	64 / 2.6	40 / 1.5	10
1200 / 48	12	102 / 4.1	18	66 / 2.6	40 / 1.5	11
1300 / 52	13	102 / 4.1	20	64 / 2.6	40 / 1.5	12
1400 / 56	14	102 / 4.1	22	63 / 2.5	40 / 1.5	13
1500 / 60	15	101 / 4.1	24	62 / 2.5	40 / 1.5	14
1650 / 64	17	98 / 3.8	26	63 / 2.4	40 / 1.5	16
1750 / 68	18	98 / 3.8	28	62 / 2.4	40 / 1.5	17
1850 / 72	19	98 / 3.8	30	61 / 2.4	40 / 1.5	18

If the belt width is in-between the indicated width choose the number of sprockets from the nearest width. However adjust the distance a accordingly.

<sup>1)</sup>The required number of support is dependent on sprocket size and weight. The indicated number provides a distance of approx. 50 mm / 2" to 100 mm / 4".

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