



MODUTECH®
Movement Technologies

HC272 FG

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	38% (Biggest Oppening 6,4 x 8,0 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,75 mm / 0.344 inch

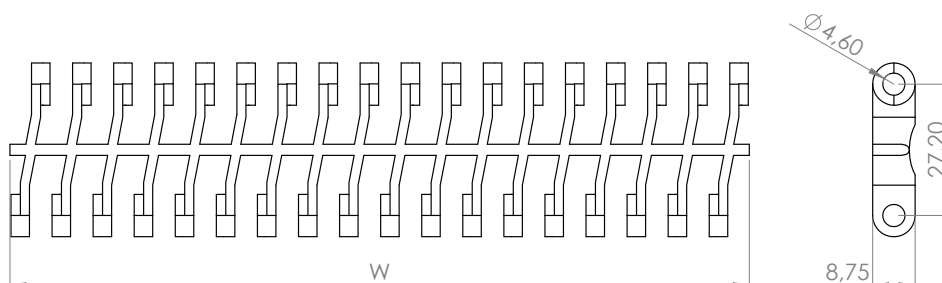


HC272 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE	PA
Pin Material		POM	PA	PP	PP	POM	POM	PE	PA
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	21750 / 1490	10300 / 707	10300 / 707	5200 / 356	5200 / 356	18000 / 1230
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150	-46 / 150 -46 / 302
Belt Weight	kg/m² lb/sqft²	5,90 / 1.21	5,90 / 1.21	5,70 / 1,17	3,90 / 0.80	4,29 / 0.88	4,50 / 0.92	4,16 / 0.85	5,45 / 1.12

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

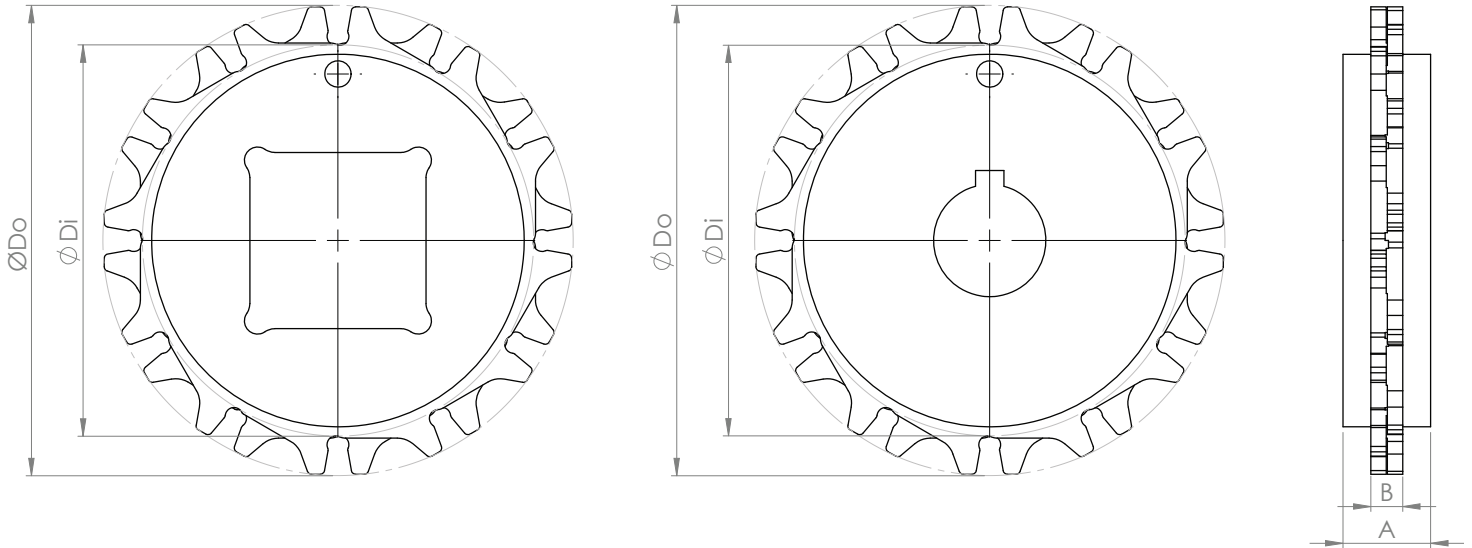
- Open hinge design support efficient drainage and cooling operations.
- Easy to clean.
- Food approved materials

Important Notes

- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.

HC272 Series

Engineering Information



HC272 Series / Machined Sprocket Dimensions

NO.TEETH	Di	Do	A	B	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
	mm/inch	mm/inch	mm/inch	mm/inch	mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z10	70,5 / 2.78	89,7 / 3.53	20 / 0.79	5,60 / 0.22	40	1 to 1.5	25 to 40	1 to 1,5	HC272SQZ10-POM	HC272SRKZ10-POM
Z12	88,5 / 3.48	107,6 / 4.24	20 / 0.79	5,60 / 0.22	40	1.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ12-POM	HC272SRKZ12-POM
Z18	141,1 / 5.56	160 / 6.30	20 / 0.79	5,60 / 0.22	40 to 65	1.5 to 2.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ18-POM	HC272SRKZ18-POM
Z20	158,9 / 6.26	177,8 / 7.00	20 / 0.79	5,60 / 0.22	40 to 65	1.5 to 2.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ20-POM	HC272SRKZ20-POM

*All required sprockets produced by CNC.

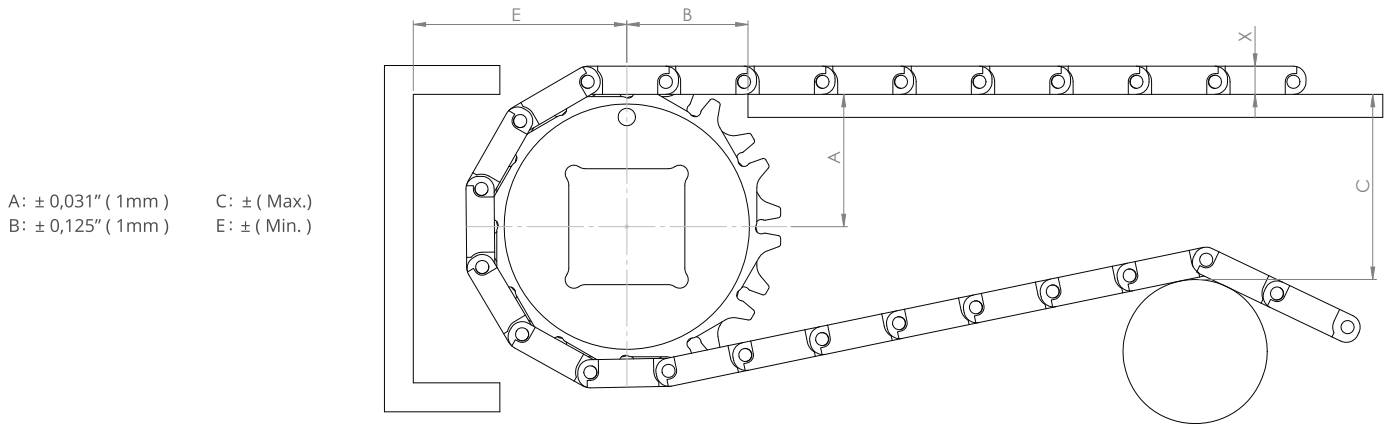
*Other sprockets and hub sizes are manufactured up to request.

*PA (Polyamide) raw material and others are available on request.

*Machined Split Sprockets are available.

HC272 Series

Engineering Information

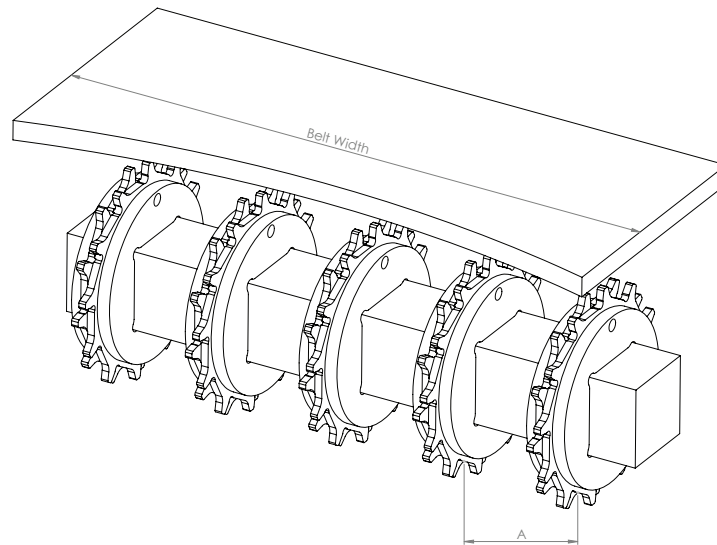


HC272 Series / Conveyor Frame Dimensions

Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)		inch	mm	inch	mm	inch	mm	inch	mm
inch	mm		inch	mm								
HC272 C, HC272 FG, HC272 MT, HC272 C-PT, HC272 FG-PT												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.01	51,0	0.34 - 0.38	8,75 - 9,75
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.52	64,0	0.34 - 0.38	8,75 - 9,75
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.46	88,0	0.34 - 0.38	8,75 - 9,75
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	3.94	100,0	0.34 - 0.38	8,75 - 9,75
HC272 OG , HC272 RR												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.28	58,0	0.51 - 0.56	13,0 - 14,3
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.76	70,0	0.51 - 0.56	13,0 - 14,3
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.54	90,0	0.51 - 0.56	13,0 - 14,3
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	4.13	105,0	0.51 - 0.56	13,0 - 14,3
HC272 GT												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.36	60,0	0.58	14,75
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.83	72,0	0.58	14,75
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.62	92,0	0.58	14,75
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	4.17	106,0	0.58	14,75

HC272 Series

Engineering Information



HC272 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
50,8	2	1	2	2	-	-
101,6	4	1	2	2	-	-
152,4	6	2	2	2	33,86 / 1.33	101,6 / 4.0
203,2	8	2	3	2	33,86 / 1.33	101,6 / 4.0
254,0	10	3	3	2	33,86 / 1.33	101,6 / 4.0
304,8	12	3	3	2	33,86 / 1.33	101,6 / 4.0
355,6	14	5	4	3	33,86 / 1.33	101,6 / 4.0
406,4	16	5	4	3	33,86 / 1.33	101,6 / 4.0
457,2	18	5	4	3	33,86 / 1.33	101,6 / 4.0
508,0	20	5	5	3	33,86 / 1.33	101,6 / 4.0
558,8	22	5	5	3	33,86 / 1.33	101,6 / 4.0
609,6	24	7	5	3	33,86 / 1.33	101,6 / 4.0
660,4	26	7	5	3	33,86 / 1.33	101,6 / 4.0
711,2	28	7	5	3	33,86 / 1.33	101,6 / 4.0
762,0	30	9	6	4	33,86 / 1.33	101,6 / 4.0
812,8	32	9	7	4	33,86 / 1.33	101,6 / 4.0
863,6	34	9	7	4	33,86 / 1.33	101,6 / 4.0
914,4	36	9	7	4	33,86 / 1.33	101,6 / 4.0
965,2	38	9	7	4	33,86 / 1.33	101,6 / 4.0
1016,0	40	9	7	4	33,86 / 1.33	101,6 / 4.0
1066,8	42	11	8	5	33,86 / 1.33	101,6 / 4.0
1117,6	44	11	8	5	33,86 / 1.33	101,6 / 4.0
1168,4	46	11	8	5	33,86 / 1.33	101,6 / 4.0
1219,2	48	13	9	5	33,86 / 1.33	101,6 / 4.0
1371,6	54	15	10	6	33,86 / 1.33	101,6 / 4.0
1828,8	72	19	13	7	33,86 / 1.33	101,6 / 4.0
2133,6	84	21	15	8	33,86 / 1.33	101,6 / 4.0
2438,4	96	25	17	9	33,86 / 1.33	101,6 / 4.0
3048,0	120	31	21	11	33,86 / 1.33	101,6 / 4.0
3657,6	144	37	25	13	33,86 / 1.33	101,6 / 4.0

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belt widths, central distance of sprockets should be minimum 152,4mm (6").

*For wider belts, central distance of carryway wearstrips 228,6mm (9"), returnway wearstrips 304,8mm (12").

HC272 C - PT & FG - PT Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
82,5	3.25	1	2	2	-	-
85,0	3.35	1	2	2	-	-
114,0	4.5	3	2	2	33,86 / 1.33	101,6 / 4.0
190,0	7.5	5	4	4	33,86 / 1.33	101,6 / 4.0

Note:

*The minimum allowed number of sprocket teeth is Z10 (89 mm / 3.5 in pitch diameter).