



MODUTECH®
Movement Technologies

EC381 PR22%

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	22% (Biggest opening 2.5 x 8 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5.7 mm / 0.224 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	12.90 mm / 0.507 inch

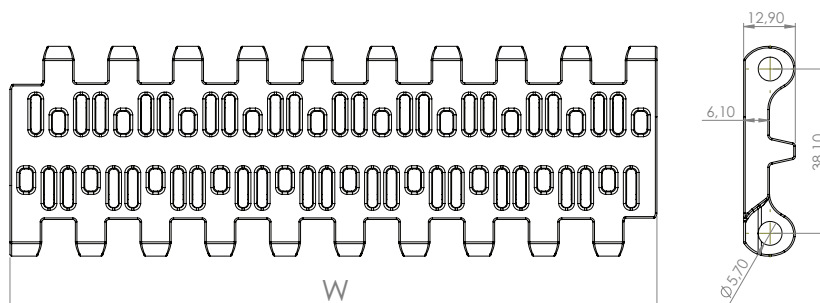


EC381 PR22% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	16900 - 1158	16900 - 1158	15950 - 1093	15270 - 1046	15270 - 1046	13970 - 957	13970 - 957
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	8,59 - 1.76	8,76 - 1.79	8,44 - 1.73	5,61 - 1.15	5,93 - 1.22	6,27 - 1.28	5,99 - 1,23

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support 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
90	3.5	90	3.5	100	6	150	6	250	6

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00



Product Features and Functional Benefits

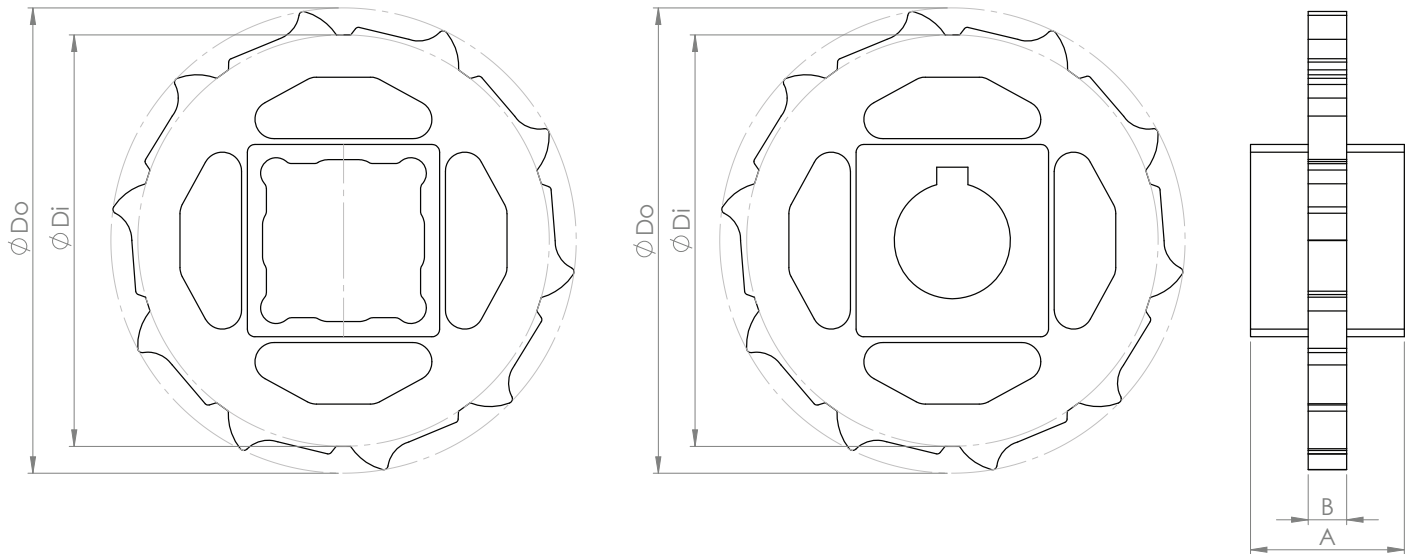
- Belt provides optimal open area for drainage and airflow.
- 22% open area for cooling and washing operations.
- Reduces bacteria growth.
- Unique sprocket engagement.

Important Notes

- Standard belt width increments 76,2 mm (3 inch).
- Non-Standard belt width increments 15,2 mm (0.6 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.

EC381 Series

Sprockets and Technical Specifications



EC381 Series / Standard Molded Sprockets Dimensions

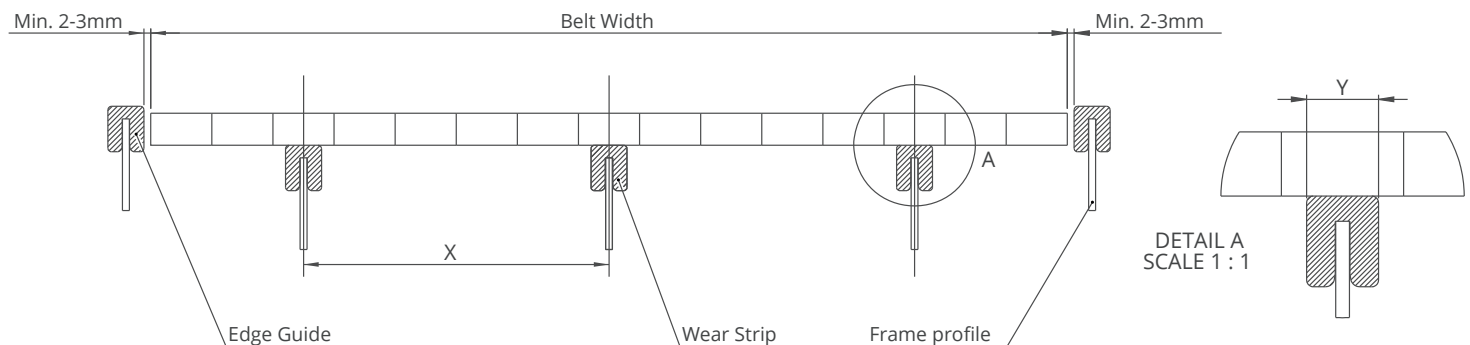
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	80 / 3.15	95 / 3.74	40 / 1.57	10 / 0.39	40	-	25 - 30	1 - 1.25	EC381SQZ8*PA	EC381SRZ8*PA
Z10	104,5 / 4.11	123 / 4.84	40 / 1.57	10 / 0.39	40	1.5	25 - 30	1 - 1.25	EC381SQZ10*PA	EC381SRZ10*PA
Z12	130 / 5.12	146,5 / 5.77	40 / 1.57	10 / 0.39	40	-	25 - 30	1 - 1.25	EC381SQZ12*PA	EC381SRZ12*PA

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

*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.

EC381 Series / Slider Support System For Straight Running Belts



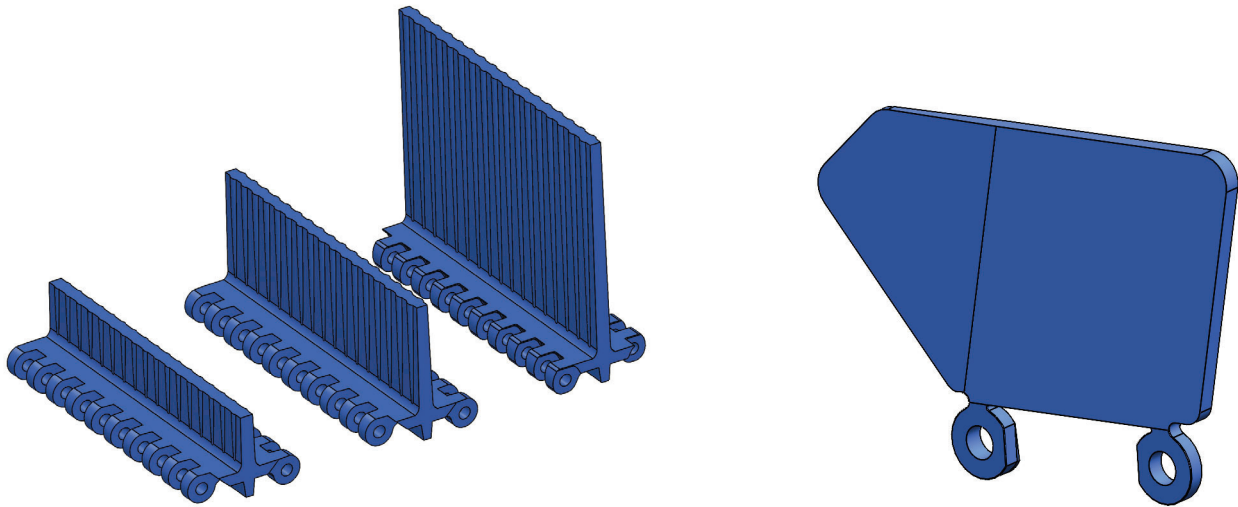
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

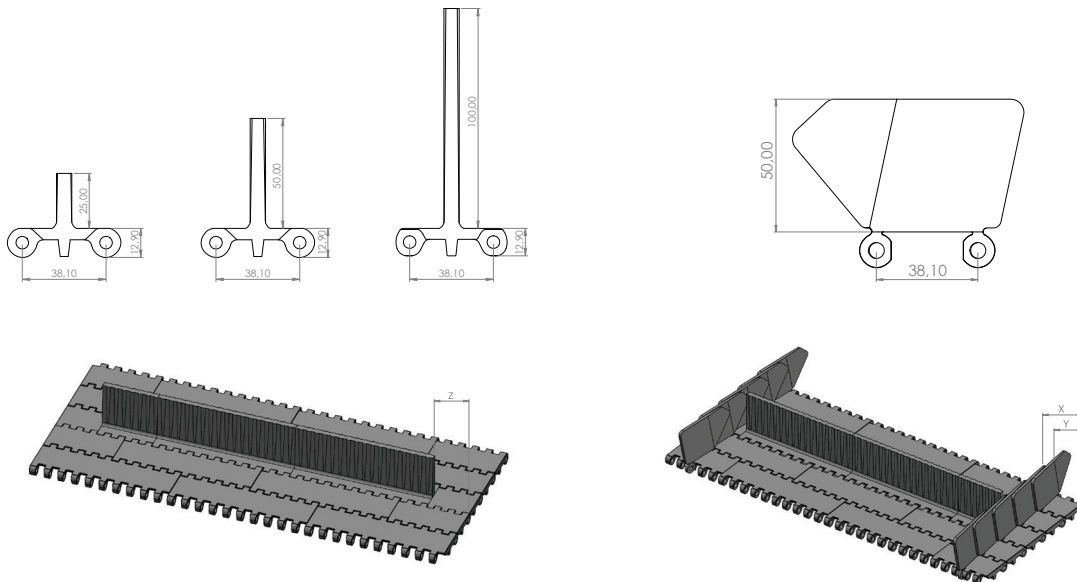
EC381 Series

Accessories and Technical Specifications



EC381 Series / Flight & Sidewall Dimensions

EC381 Series / Flight & Sidewall				
Flight Product Code	Flight Height (mm/inch)	Flight Width (mm/inch)	Sidewall Product Code	Sidewall Height (mm/inch)
EC381T25	25 / 1	152,4 / 6	EC381SW50	50 / 1.97
EC381T50	50 / 2	152,4 / 6	-	-
EC381T100	100 / 4	152,4 / 6	-	-



EC381 Series / Sidewall Technical Specifications

Possible Sidewall and Flights Indents	Z		X		Y	
	mm	inch	mm	inch	mm	inch
Standard, no module cutting	30,48	1.20	22,80	0.90	21,14	0.83
Standard, no module cutting	45,72	1.80	30,40	1.20	28,76	1.13
Standard, module cutting	60,96	2.40	38,00	1.50	36,40	1.43
Standard, module cutting	76,20	3.00	45,64	1.80	44,00	1.73
Standard, no module cutting	101,60	4.00	53,26	2.10	51,62	2.03

* Gap between flight and sidewall minimum 2-3 mm

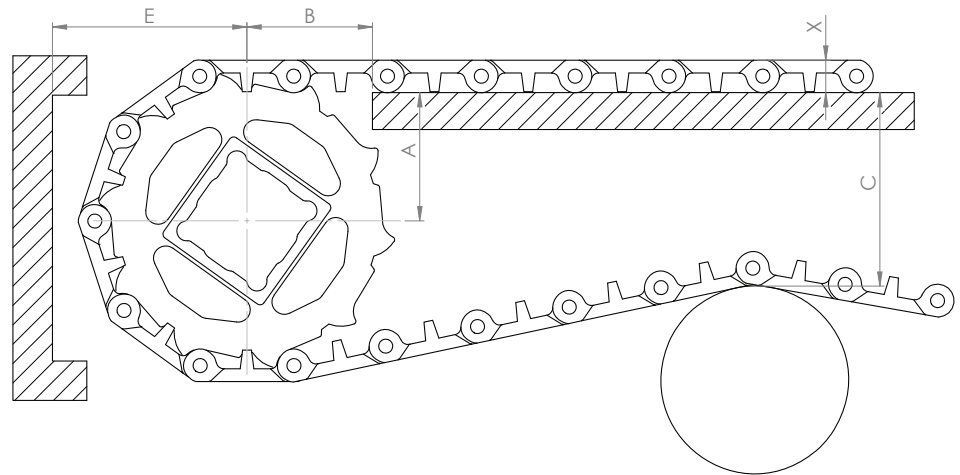
** Sidewall indent dimensions (Y) are specified based on a 50 mm sidewall height.

For other heights, required indent clearances may vary. Please contact Modutech Technical Team for specific dimensions.

EC381 Series

Engineering Information

A: $\pm 0,031"$ (1mm) C: $\pm$ (Max.)
 B: $\pm 0,125"$ (1mm) B: $\pm$ (Min.)

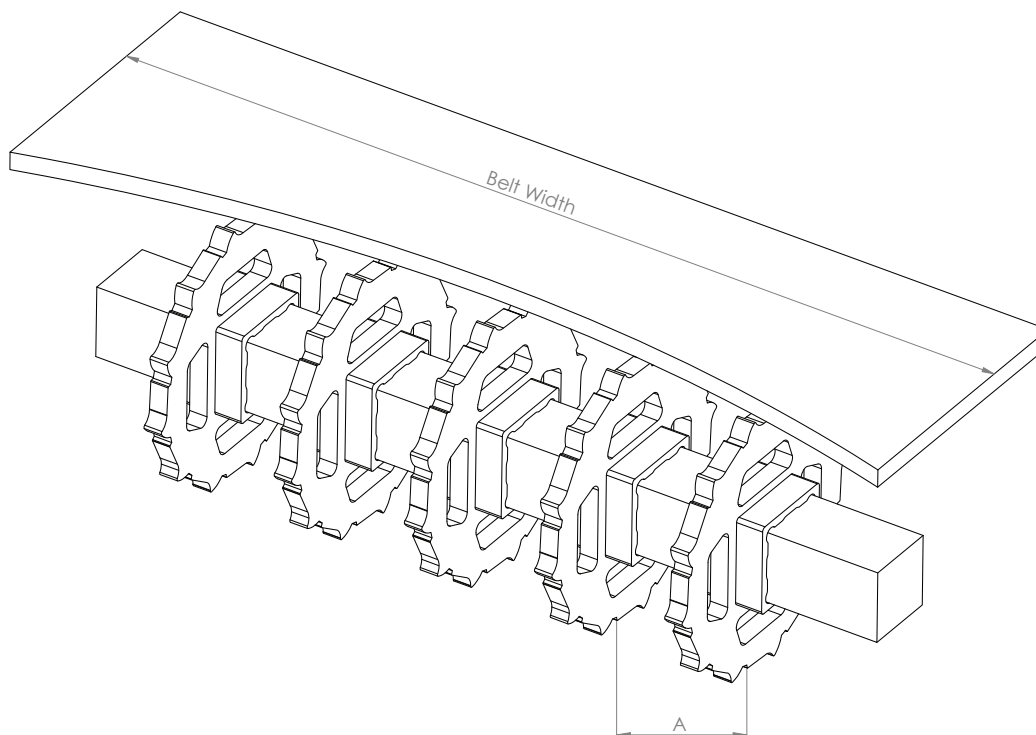


EC381 Series / Conveyor Frame Dimensions

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								
EC381 C, EC381 FG, EC381 PR22												
5.26	133,62	8	1.55	39,3	1.84	46,7	2.09	53,1	2.69	68,3	0.51	12,9
6.59	167,45	10	2.05	52,0	2.01	51,0	3.09	78,5	3.11	79,0	0.51	12,9
7.64	194,00	12	2.54	64,4	2.20	56,0	3.87	98,2	3.70	94	0.51	12,9
EC381 NT												
5.26	133,62	8	1.55	39,3	1.84	46,7	2.09	53,1	2.75	69,8	0.57	14,4
6.59	167,45	10	2.05	52,0	2.01	51,0	3.09	78,5	3.17	80,5	0.57	14,4
7.64	194,00	12	2.54	64,4	2.20	56,0	3.87	98,2	3.76	95,5	0.57	14,4

EC381 Series

Engineering Information



EC381 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6	2	2	50 / 2.0	152 / 6.0
203,2	8	2	2	50 / 2.0	152 / 6.0
254,0	10	2	3	50 / 2.0	152 / 6.0
304,8	12	3	3	50 / 2.0	152 / 6.0
355,6	14	3	3	50 / 2.0	152 / 6.0
406,4	16	3	3	50 / 2.0	152 / 6.0
457,2	18	3	3	50 / 2.0	152 / 6.0
508,0	20	5	4	50 / 2.0	152 / 6.0
609,6	24	5	4	50 / 2.0	152 / 6.0
762,0	30	5	4	50 / 2.0	152 / 6.0
812,8	32	7	5	50 / 2.0	152 / 6.0
914,4	36	7	5	50 / 2.0	152 / 6.0
1066,8	42	7	5	50 / 2.0	152 / 6.0
1219,2	48	9	7	50 / 2.0	152 / 6.0
1371,6	54	9	7	50 / 2.0	152 / 6.0

Note: Number of sprockets depends on the belt load.