MODUTECH®

MD254 GAP%48

Modular Belt Serie

MD254 GAP%48
Sprockets & Accessories
Engineering Information



www.modutech.com.tr





MD254 GAP%48

Modular Belt Serie

- **Bakery Applications**

Including Oven Infeed - Outfeed, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines, Cooling Lines

- **Poultry Applications**

Cooling and Freezing Lines

- **Seafood Applications**

Including Breading Machines, Draining Lines

- **Snack Food Applications**

Including Proofer Lines, Boiler Infeed, Oven Infeed - Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Including Prewashing / Rinsing, Draining

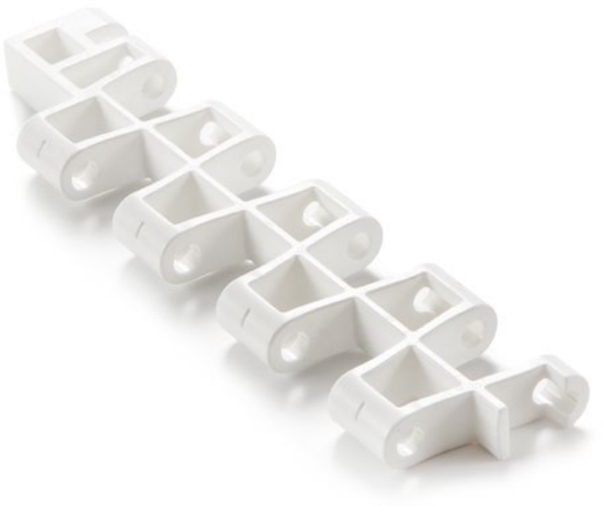
- **Packing Industry**

Shrink Tunnels

MD254 GAP%48

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Pitch:	25,7 mm / **1 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	203,2 mm / **8 inch**
Open Area (%):	48%. (Biggest opening 9 x 13,5 mm and 6 x 16,5 mm)
Flight:	Yes (T50)
Sidewall:	No
Rod:	Ø5 mm / **0.197 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	11 mm / **0.433 inch**



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- Less friction and product contact for easy cooking, cooling and freezing of products.
- Reduced dirt and oxide build due to self cleaning surface.
- Stainless steel pins option for high temperature applications.
- Easy to clean reduces downtime for cleaning time 70%.
- Stainless steel pins option reduce belt elongation for high temperature application.

Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 85 mm / **3.35 inch** module

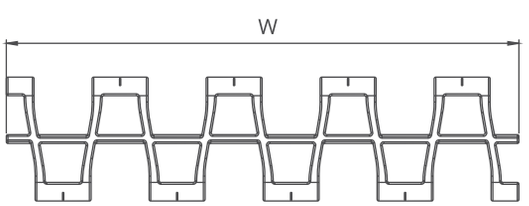
MD254 GAP%48 / Technical Information

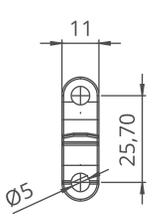
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	12100	**829**	-	-	+5 / **+41**	+90 / **+194**	4,2 / **0.85**
Polyethylene	-	**-**	-	-	-	-	-
Acetal	17050	**1168**	-	-	-43 / **-45.4**	+110 / **+230**	6,4 / **1.33**

- Belt strength and temperature values are maximum on the table.

MD254 GAP%48 / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP		POM		
	mm	**inch**	mm	**inch**	
MD254GAP48	203,2	**8.0**	203,2	**8.0**	± 0,5 mm
MD254GAP48	237,0	**9.0**	237,0	**9.0**	± 1 mm
MD254GAP48	270,8	**11.0**	270,8	**11.0**	± 1 mm
MD254GAP48	304,6	**12.0**	304,6	**12.0**	± 1 mm
MD254GAP48	338,4	**13.0**	338,4	**13.0**	± 2 mm
MD254GAP48	372,2	**15.0**	372,2	**15.0**	± 2 mm
MD254GAP48	406,0	**16.0**	406,0	**16.0**	± 2 mm
MD254GAP48	439,8	**17.0**	439,8	**17.0**	± 2 mm
MD254GAP48	473,6	**19.0**	473,6	**19.0**	± 2 mm
MD254GAP48	507,4	**20.0**	507,4	**20.0**	± 2 mm
MD254GAP48	541,2	**21.0**	541,2	**21.0**	± 2 mm
MD254GAP48	575,0	**23.0**	575,0	**23.0**	± 2 mm
MD254GAP48	608,8	**24.0**	608,8	**24.0**	± 3 mm
MD254GAP48	642,6	**25.0**	642,6	**25.0**	± 3 mm





- Bigger sizes are available with 33,8 mm increments.

- Please contact with customer service for precise belt measurements.

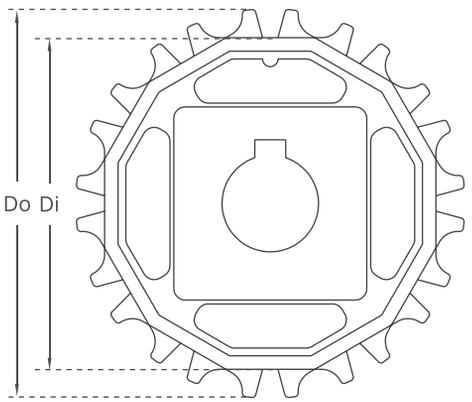
MD254 GAP%48 Serie *Sprockets and Technical Specifications*

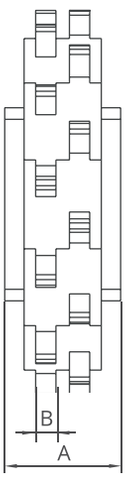


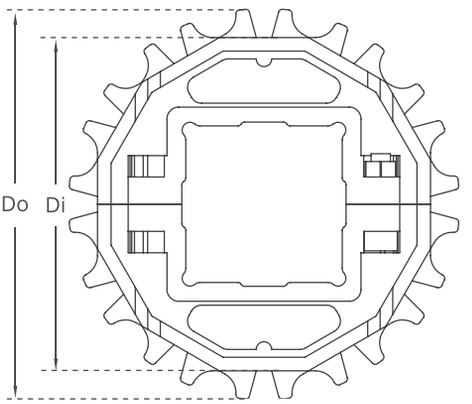
Z15



Z8









Split moulded sprockets are available.

MD254 GAP%48 Serie / Standard Sprockets Dimensions

NO.TEETH	Di mm/**inch**	Do mm/**inch**	B mm/**inch**	A mm/**inch**	Square Bore (Q) mm/**inch**	Round Bore (R) mm/**inch**	PRODUCT CODE	
							Square Type (Q)	Round Type (R)
Z8	52,0 / **2.05**	67,0 / **2.64**	6 / **0.24**	30 / **1.18**	25 / **1**	25 / **1**	MD-TR254SQ25Z8*POM	MD-TR254SRZ8*POM
Z10	69,0 / **2.72**	84,0 / **3.31**	6 / **0.24**	30 / **1.18**	40 / **1.5**	25-30 / **1-1.25**	MD-TR254SQZ10*POM	MD-TR254SRZ10*POM
Z12	85,84 / **3.38**	100,84 / **3.97**	6 / **0.24**	30 / **1.18**	40 / **1.5**	25-30 / **1-1.25**	MD-TR254SQZ12*POM	MD-TR254SRZ12*POM
Z15	110,8 / **4.36**	125,8 / **4.95**	6 / **0.24**	30 / **1.18**	40 / **1.5**	25-30 / **1-1.25**	MD-TR254SQZ15*POM	MD-TR254SRZ15*POM
Z16	119,1 / **4.69**	134,1 / **5.28**	6 / **0.24**	30 / **1.18**	40 / **1.5**	25-30 / **1-1.25**	MD-TR254SQZ16*POM	MD-TR254SRZ16*POM
Z18	135,63 / **5.34**	150,58 / **5.93**	6 / **0.24**	30 / **1.18**	40 / **1.5**	25-30 / **1-1.25**	MD-TR254SQZ18*POM	MD-TR254SRZ18*POM

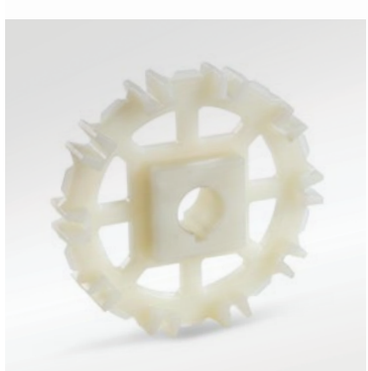
*Other sprockets and hub sizes are manufactured up to request. *PA (Polyamide) and PP (Polypropylene) sprockets raw material is available on request.
***Machined sprockets are avaliable for each size.**



Clamp



Machined Split Sprocket



Moulded Sprocket



Machined Sprocket

MD254 GAP%48 Serie *Engineering Information*

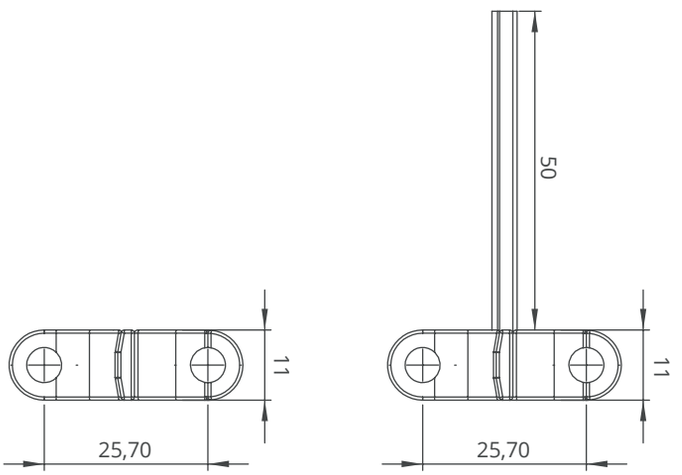
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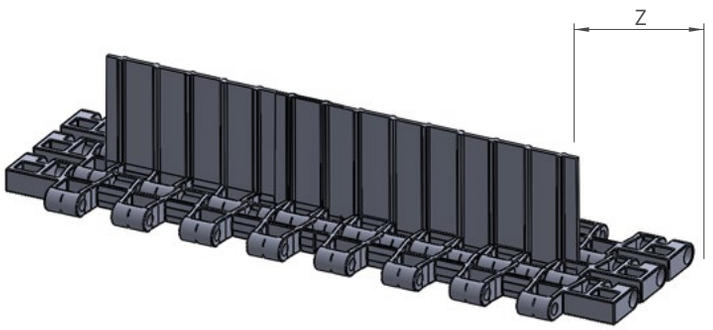




MD254 GAP%48 Serie / Flight Dimensions

MD254 GAP%48 Serie / Flights				
PRODUCT CODE	Flight Height (mm/**inch**)	Flight Width (mm/**inch**)	PRODUCT CODE	Sidewall Height (mm/**inch**)
MD254G48T50	50 / **2**	152 / **6**	-	-





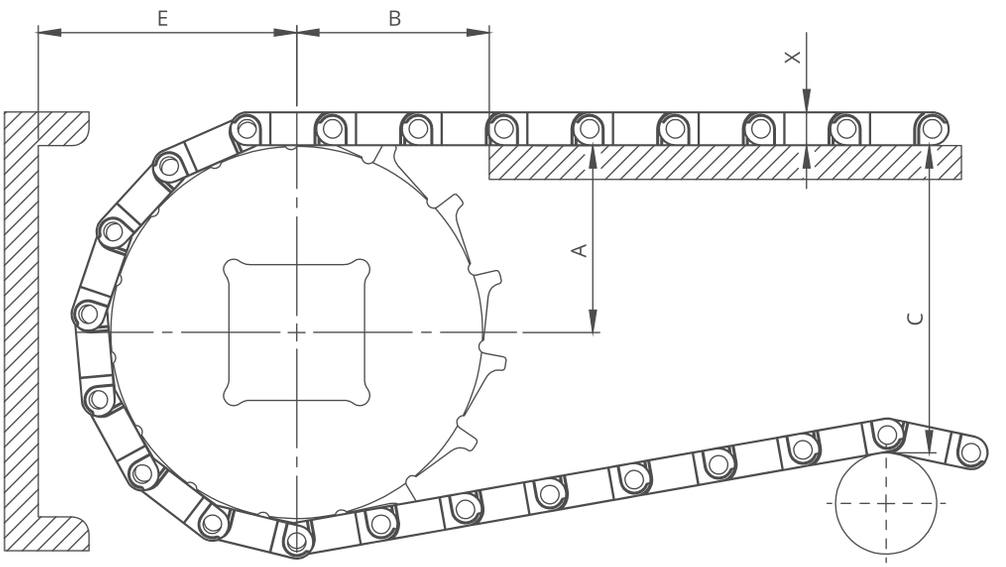
MD254 GAP%48 Serie / Flight Technical Specifications

Possible Flight Indents for MD254GAP%48 Serie	Z	
	mm	**inch**
Standard, no module cutting	35,0	**1.38**
Standard, module cutting	68,8	**2.71**
Standard, module cutting	102,6	**4.04**

***Non-standard flight indent is on request.**

MD254 GAP%48 Serie *Engineering Information*

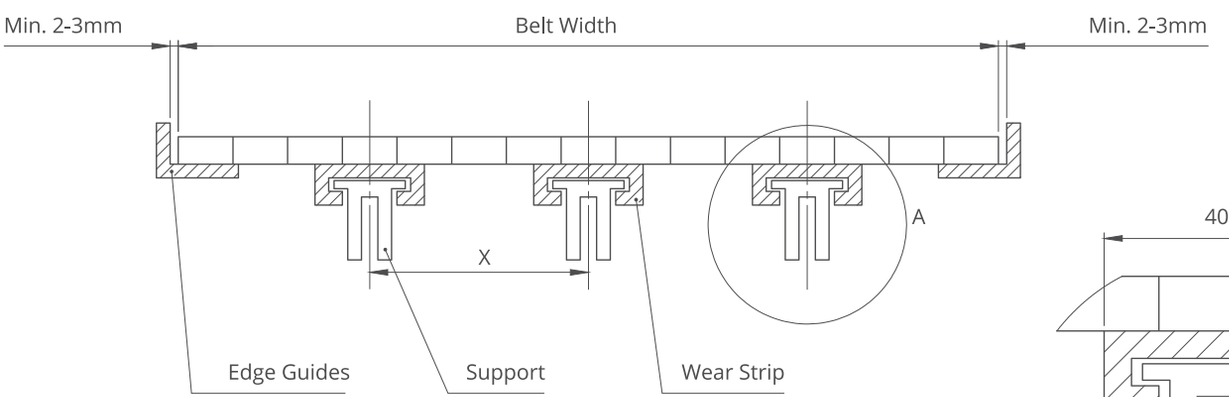
A - ± 0,031" (1mm)
B - ± 0,125" (3mm)
C - ± (Max.)
E - ± (Min.)

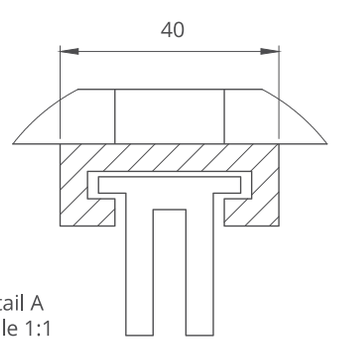


MD254 GAP%48 Serie / Conveyor Frame Dimensions

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
MD254 GAP%48												
2.38	60,5	8	**1.15**	29,2	**1.55**	39,4	**1.95**	49,5	**1.94**	49,2	**0.43**	11,0
3.07	78,0	10	**1.46**	37,1	**1.77**	45,0	**2.60**	66,1	**2.25**	57,1	**0.43**	11,0
3.74	95,0	12	**1.76**	44,8	**1.97**	50,1	**3.24**	82,3	**2.55**	64,8	**0.43**	11,0
4.70	119,5	15	**2.22**	56,4	**2.23**	56,7	**4.18**	106,1	**3.01**	76,4	**0.43**	11,0
5.02	127,5	16	**2.37**	60,2	**2.38**	60,5	**4.46**	113,2	**3.21**	81,5	**0.43**	11,0
5.71	145,0	18	**2.73**	69,3	**2.45**	62,3	**5.19**	131,8	**3.51**	89,3	**0.43**	11,0

MD254 GAP%48 Series / Slider Support System For Straight Running Belts





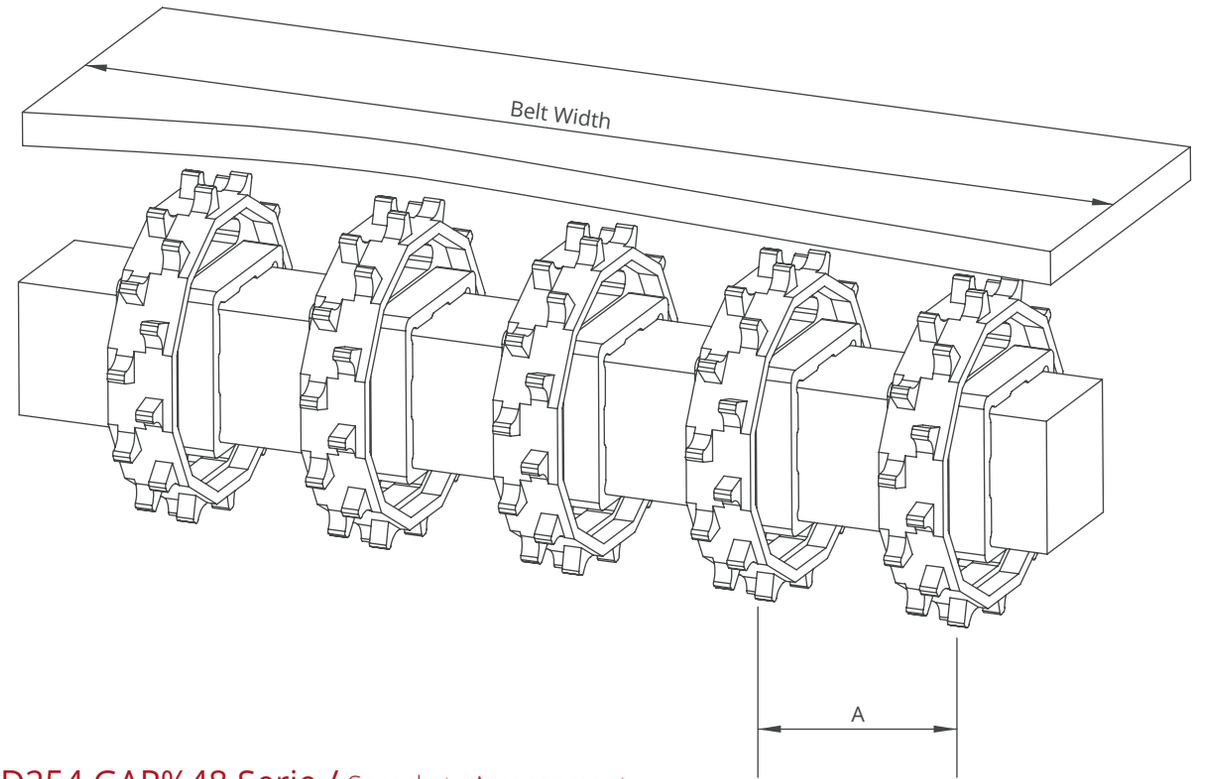
Detail A
Scale 1:1

Note: The max. distances between the wear strips have to be (X) ;

125 mm for 2" belts
80 mm for 1" / 0.5" belts

MD254 GAP%48 Serie *Engineering Information*

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MD254 GAP%48 Serie / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/**inch**)	
mm	**inch**	Drive Shaft	Return Shaft	Min.	Max.
203,2	**8.0**	2	2	60/**2.36**	170/**6.6**
237,0	**9.3**	2	2	60/**2.36**	170/**6.6**
270,8	**10.7**	2	2	60/**2.36**	170/**6.6**
304,6	**12.0**	3	2	60/**2.36**	170/**6.6**
338,4	**13.3**	3	2	60/**2.36**	170/**6.6**
372,2	**14.7**	4	3	60/**2.36**	170/**6.6**
406,0	**16.0**	4	3	60/**2.36**	170/**6.6**
439,8	**17.3**	4	3	60/**2.36**	170/**6.6**
473,6	**18.6**	5	3	60/**2.36**	170/**6.6**
507,4	**20.0**	5	3	60/**2.36**	170/**6.6**
541,2	**21.3**	5	3	60/**2.36**	170/**6.6**
575,0	**22.6**	5	3	60/**2.36**	170/**6.6**
608,8	**24.0**	6	4	60/**2.36**	170/**6.6**
642,6	**25.3**	6	4	60/**2.36**	170/**6.6**
676,4	**26.6**	6	4	60/**2.36**	170/**6.6**
710,2	**28.0**	7	4	60/**2.36**	170/**6.6**
744,0	**29.3**	7	4	60/**2.36**	170/**6.6**
777,8	**30.6**	7	4	60/**2.36**	170/**6.6**
811,6	**32.0**	7	4	60/**2.36**	170/**6.6**
845,4	**33.3**	8	4	60/**2.36**	170/**6.6**
879,2	**34.6**	8	5	60/**2.36**	170/**6.6**
913,0	**35.9**	8	5	60/**2.36**	170/**6.6**
946,8	**37.3**	8	5	60/**2.36**	170/**6.6**
980,6	**38.6**	8	5	60/**2.36**	170/**6.6**
1014,4	**39.9**	9	5	60/**2.36**	170/**6.6**
1048,2	**41.3**	9	5	60/**2.36**	170/**6.6**

Note: Number of sprockets depends on the belt load.