MODUTECH®

MD508

Modular Belt Series

MD508 C
MD508 FG
MD508 PR%25
Sprockets & Accessories
Engineering Information



www.modutech.com.tr

FDA





MD508 C

Modular Belt Series

- **Corrugated Cardbord Applications**

Down Stackers, Corrugator Take Off, Strap Feed

- **Lumber Industry**

Lumber Transport, Cutting Process

- **Snack Food Applications**

Potato Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control Sorting Table, Filling

- **Automotive Applications**

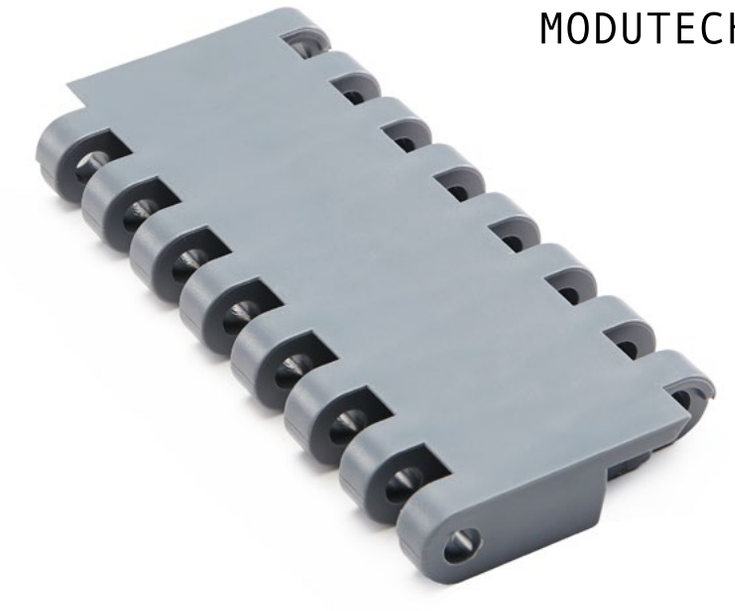
Chair Lift - Feader

- **Packaging Applications**

Bluk Inclines, Box Transport Horizontal

MD508 C *(Heavy Duty Food Belts)*

Pitch:	50,8 mm / **2 inch**
Belt Surface:	Close, Smooth Surface
Minimum Width:	150 mm / **5.90 inch**
Open Area (%):	0%
Flight:	Yes (T50, T100, T150)
Sidewall:	No
Rod:	Ø7 mm / **0.275 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	16 mm / **0.629 inch**



Product Features and Functional Benefits

- Unique sprocket engagement reduces pulsation and increases load capacity.
- High power, bi-directional belt for long conveyors.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to with stand heavy objects falling into the belt.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module

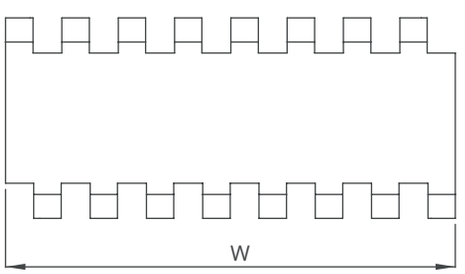
MD508 C / Technical Information

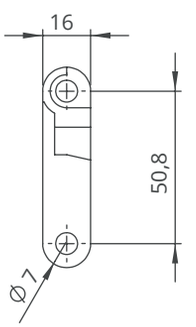
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	37400	**2562**	-	-	+5 / **+41**	+90 / **+194**	8,7 / **1.78**
Polyethylene	26400	**1808**	-	-	-73 / **-99.4**	+66 / **+150.8**	9,3 / **1.90**
Acetal	66000	**4522**	-	-	-43 / **-45.4**	+110 / **+230**	13,5 / **2.77**

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

MD508 C / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MD508 C	150,0	**5.91**	150,0	**5.91**	± 0,5 mm
MD508 C	225,0	**8.86**	225,0	**8.86**	± 2 mm
MD508 C	300,0	**11.81**	300,0	**11.81**	± 2 mm
MD508 C	375,0	**14.76**	375,0	**14.76**	± 2 mm
MD508 C	450,0	**17.72**	450,0	**17.72**	± 3 mm
MD508 C	525,0	**20.67**	525,0	**20.67**	± 3 mm
MD508 C	600,0	**23.62**	600,0	**23.62**	± 3 mm
MD508 C	675,0	**26.57**	675,0	**26.57**	± 3 mm
MD508 C	750,0	**29.53**	750,0	**29.53**	± 4 mm
MD508 C	825,0	**32.48**	825,0	**32.48**	± 4 mm
MD508 C	900,0	**35.43**	900,0	**35.43**	± 4 mm
MD508 C	975,0	**38.38**	975,0	**38.38**	± 5 mm
MD508 C	1050,0	**41.34**	1050,0	**41.34**	± 5 mm
MD508 C	1125,0	**44.29**	1125,0	**44.29**	± 5 mm





- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.



MD508 FG

Modular Belt Series

- **Bakery Applications**

Oven Infeed/Outfeed, Cooling Lines, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines

- **Sea Food Applications**

Breading Machines, Draining Lines

- **Snack Food Applications**

Proofer Lines, Boiler Infeed, Oven Infeed / Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining

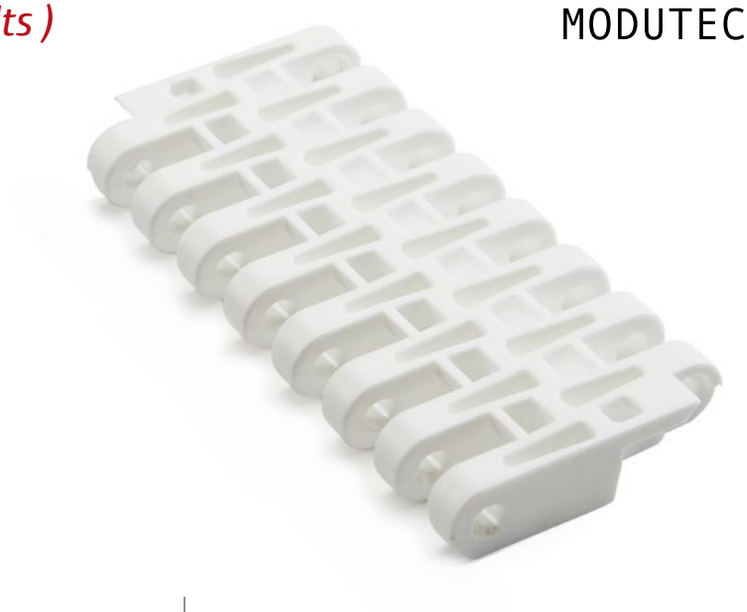
- **Tire Manufacturing Applications**

Mixer Infeed / Outfeed, Extrusion Shower Lines, Cooling Incline, Cooling Decline, Cooling Horizontal

MD508 FG *(Heavy Duty Food Belts)*

MODUTECH

Pitch:	50,8 mm / **2 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	150 mm / **5.90 inch**
Open Area (%):	34%. (Biggest opening 6 x 19,8 mm)
Flight:	Yes (T50, T100, T150)
Sidewall:	No
Rod:	Ø7 mm / **0.275 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	16 mm / **0.629 inch**



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- High power, bi-directional belt for long conveyors.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to with stand heavy objects falling on the belt.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module

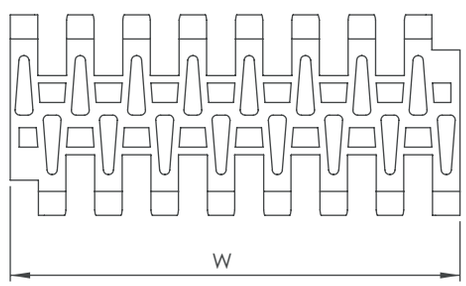
MD508 FG / Technical Information

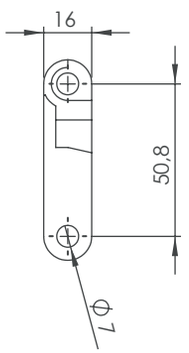
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	28600	**1959**	-	-	+5 / **+41**	+90 / **+194**	6,8 / **1.39**
Polyethylene	19800	**1356**	-	-	-73 / **-99.4**	+66 / **+150.8**	7,2 / **1.48**
Acetal	38500	**2637**	-	-	-43 / **-45.4**	+110 / **+230**	10,2 / **2.09**

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

MD508 FG / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MD508 FG	150,0	**5.91**	150,0	**5.91**	± 1 mm
MD508 FG	225,0	**8.86**	225,0	**8.86**	± 2 mm
MD508 FG	300,0	**11.81**	300,0	**11.81**	± 2 mm
MD508 FG	375,0	**14.76**	375,0	**14.76**	± 2 mm
MD508 FG	450,0	**17.72**	450,0	**17.72**	± 3 mm
MD508 FG	525,0	**20.67**	525,0	**20.67**	± 3 mm
MD508 FG	600,0	**23.62**	600,0	**23.62**	± 3 mm
MD508 FG	675,0	**26.57**	675,0	**26.57**	± 4 mm
MD508 FG	750,0	**29.53**	750,0	**29.53**	± 4 mm
MD508 FG	825,0	**32.48**	825,0	**32.48**	± 4 mm
MD508 FG	900,0	**35.43**	900,0	**35.43**	± 4 mm
MD508 FG	975,0	**38.38**	975,0	**38.38**	± 5 mm
MD508 FG	1050,0	**41.34**	1050,0	**41.34**	± 5 mm
MD508 FG	1125,0	**44.29**	1125,0	**44.29**	± 5 mm





- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.



MD508 PR%25

Modular Belt Series

- ***Meat Applications***

Dressing Lines, Trim Lines, Elevator, Metal Detector

- ***Poultry Applications***

Cut-up Lines, Debonning Lines, Chiller Discharge, Rehang / Bird Accumulation, Freezing Lines, Elevators

- ***Sea Food Applications***

Draining, Elevator

- ***Snack Food Applications***

Can Draining

- ***Fruits and Vegetables Applications***

Prewashing / Rinsing, Draining, Peeling, Elevator, Blanching

MD508 PR%25 *(Heavy Duty Food Belts)*

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Pitch:	50,8 mm / **2 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	150 mm / **5.90 inch**
Open Area (%):	25%. (Biggest opening 3 x 19,5 mm)
Flight:	Yes (T50, T100, T150)
Sidewall:	No
Rod:	Ø7 mm / **0.275 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	16 mm / **0.629 inch**



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- High power, bi-directional belt for long conveyors.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to with stand heavy objects falling on the belt.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module

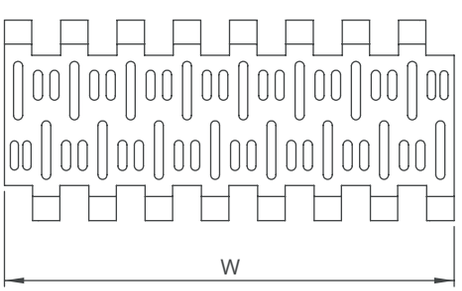
MD508 PR%25 / Technical Information

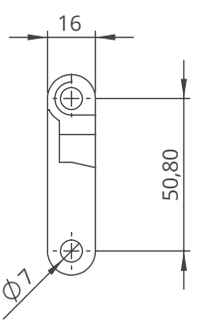
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve				
	N/m	**lb/ft**	N/m	**lb/ft**	°C (min.) - **°F (min.)**	°C (max.) - **°F (max.)**	Kg/m² - **lb/ft²**
Polypropylene	41800	**2863**	-	-	+5 / **+42.8**	+90 / **+194**	8,0 - **1.64**
Polyethylene	26400	**1808**	-	-	-73 / **-99.4**	+66 / **+150.8**	8,3 - **1.70**
Acetal	60500	**4145**	-	-	-43 / **-45.4**	+110 / **+230**	12,0 - **2.46**

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

MD508 PR%25 / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MD508 PR25	150,0	**5.91**	150,0	**5.91**	± 1 mm
MD508 PR25	225,0	**8.86**	225,0	**8.86**	± 2 mm
MD508 PR25	300,0	**11.81**	300,0	**11.81**	± 2 mm
MD508 PR25	375,0	**14.76**	375,0	**14.76**	± 2 mm
MD508 PR25	450,0	**17.72**	450,0	**17.72**	± 3 mm
MD508 PR25	525,0	**20.67**	525,0	**20.67**	± 3 mm
MD508 PR25	600,0	**23.62**	600,0	**23.62**	± 3 mm
MD508 PR25	675,0	**26.57**	675,0	**26.57**	± 4 mm
MD508 PR25	750,0	**29.53**	750,0	**29.53**	± 4 mm
MD508 PR25	825,0	**32.48**	825,0	**32.48**	± 4 mm
MD508 PR25	900,0	**35.43**	900,0	**35.43**	± 4 mm
MD508 PR25	975,0	**38.38**	975,0	**38.38**	± 5 mm
MD508 PR25	1050,0	**41.34**	1050,0	**41.34**	± 5 mm
MD508 PR25	1125,0	**44.29**	1125,0	**44.29**	± 5 mm





- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.

MD508 Series *Sprockets and Technical Specifications*



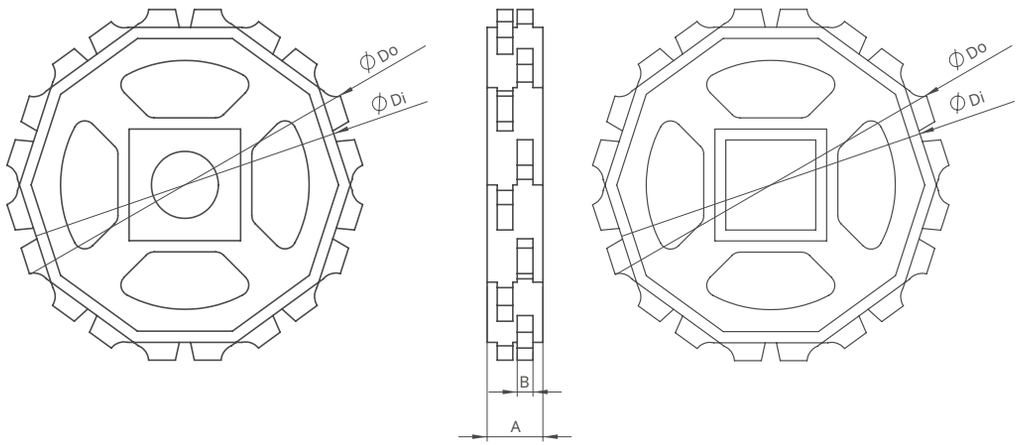
Z8



Z10



Z12



MD508 Series / 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	107,37 / **4.23**	127,35 / **5.01**	7 / **0.27**	40 / **1.57**	40 / **1.5**	25-30 / **1-1.25**	MD508SQZ8*POM	MD508SRZ8*POM
Z10	141,27 / **5.56**	160,14 / **6.30**	7 / **0.27**	40 / **1.57**	40-60 / **1.5-2.5**	25-30 / **1-1.25**	MD508SQZ10*POM	MD508SRZ10*POM
Z12	174,71 / **6.87**	193,24 / **7.61**	7 / **0.27**	40 / **1.57**	40-60 / **1.5-2.5**	25-30 / **1-1.25**	MD508SQZ12*POM	MD508SRZ12*POM

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



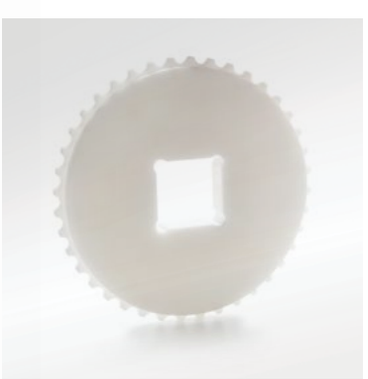
Clamp



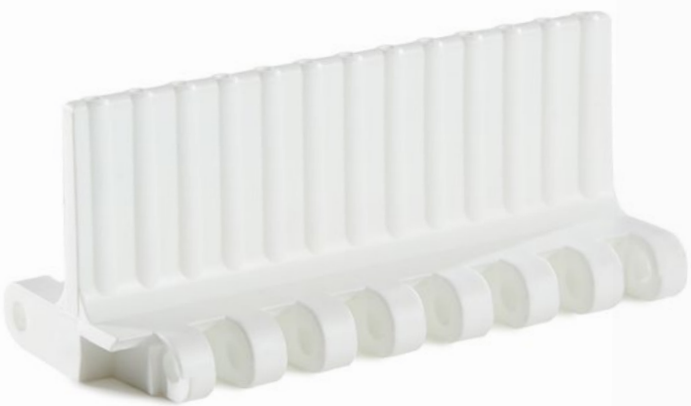
Machined Split Sprocket

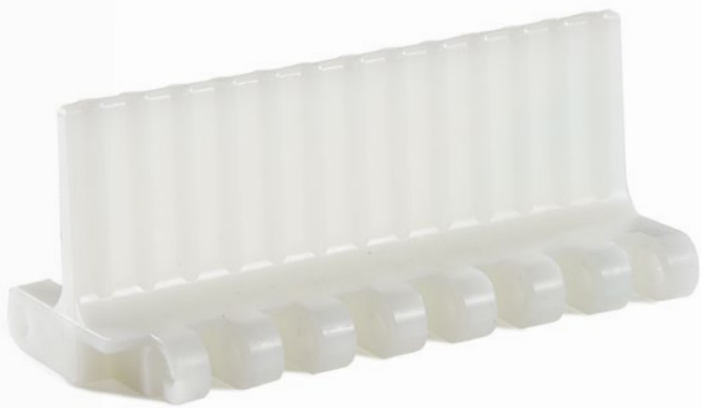


Moulded Sprocket



Machined Sprocket





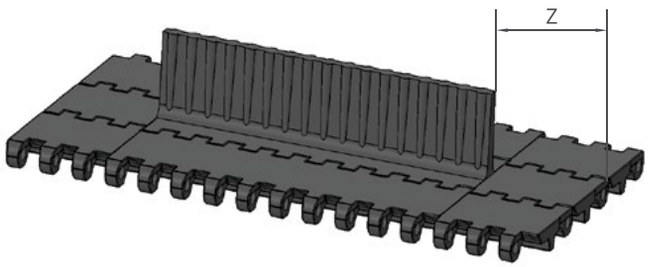
MD508 Series / Flight Dimensions

MD508 Series / Flights				
PRODUCT CODE	Flight Height (mm/**inch**)	Flight Width (mm/**inch**)	PRODUCT CODE	Sidewall Height (mm/**inch**)
MD508T50	50 / **2**	150 / **5.90**	-	-
MD508T100	100 / **4**	150 / **5.90**	-	-
MD508T150	150 / **6**	150 / **5.90**	-	-

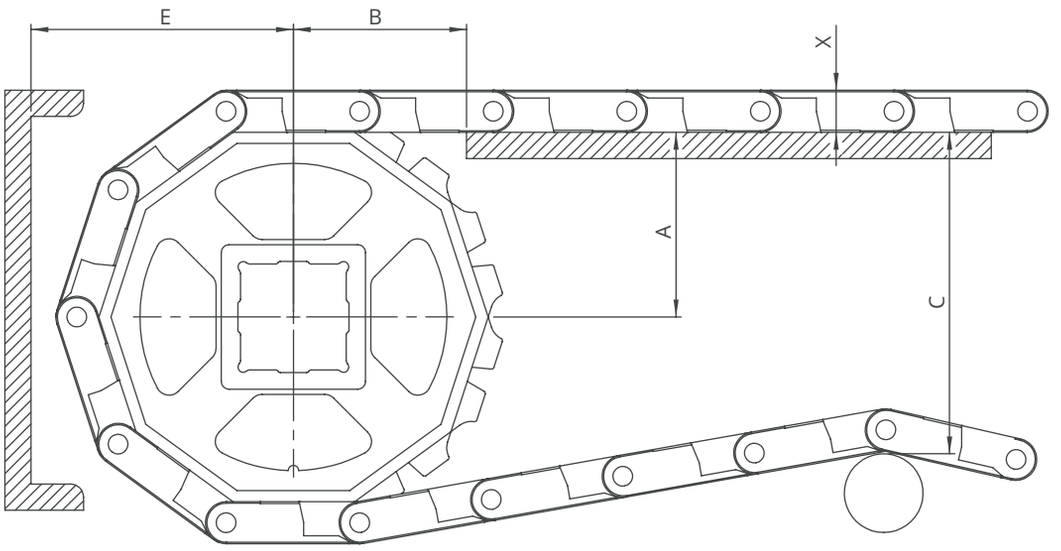
MD508 Series / Flight Technical Specifications

Possible Flight Indents for MD508 Series	Z	
	mm	**inch**
Standard, module cutting	37,5	**1.48**
Standard, module cutting	56,0	**2.20**
Standard, no module cutting	75,0	**2.95**
Standard, module cutting	112,5	**4.43**

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



MD508 Series *Engineering Information*

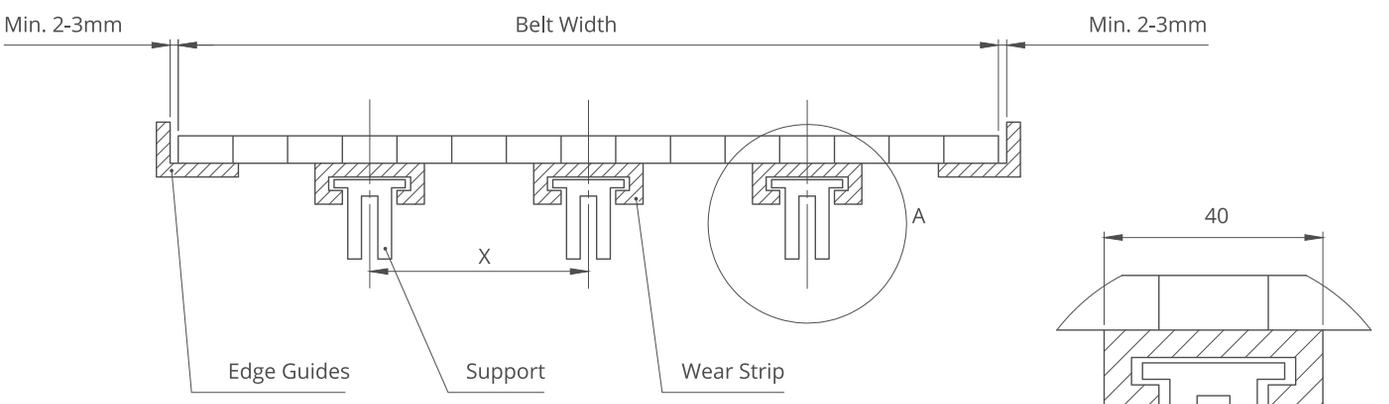


A - ± 0,031" (1mm)
B - ± 0,125" (3mm)
C - ± (Max.)
E - ± (Min.)

MD508 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
MD508 C, MD508 PR%25, MD508 FG												
4.65	118,0	8	**2.29**	58,1	**2.94**	74,8	**3.79**	96,2	**3.11**	79,1	**0.63**	16,0
5.94	151,0	10	**2.92**	74,3	**3.57**	90,7	**5.06**	128,5	**3.75**	95,3	**0.63**	16,0
7.32	186,0	12	**3.56**	90,5	**4.20**	106,7	**6.33**	160,9	**4.39**	111,4	**0.63**	16,0

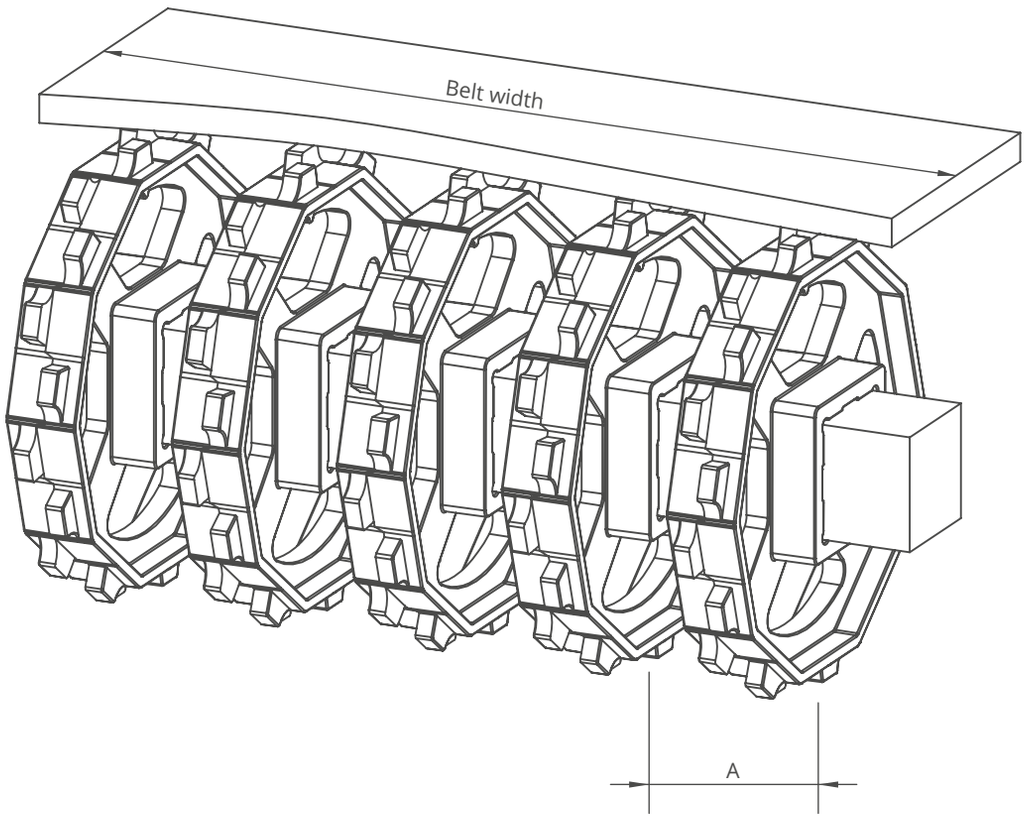
MD508 Series / Slider Support System For Straight Running Belts



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

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

Detail A
Scale 1:1



MD508 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/**inch**)	
mm	**inch**	Drive Shaft	Return Shaft	Min.	Max.
150,0	**5.90**	2	2	60/**2.36**	150/**5.9**
225,0	**8.86**	3	2	60/**2.36**	150/**5.9**
300,0	**11.81**	3	3	60/**2.36**	150/**5.9**
375,0	**14.76**	4	3	60/**2.36**	150/**5.9**
450,0	**17.72**	4	3	60/**2.36**	150/**5.9**
525,0	**20.67**	5	4	60/**2.36**	150/**5.9**
600,0	**23.62**	5	4	60/**2.36**	150/**5.9**
675,0	**26.57**	6	5	60/**2.36**	150/**5.9**
750,0	**29.53**	6	5	60/**2.36**	150/**5.9**
825,0	**32.48**	6	5	60/**2.36**	150/**5.9**
900,0	**35.43**	7	6	60/**2.36**	150/**5.9**
975,0	**38.39**	8	7	60/**2.36**	150/**5.9**
1050,0	**41.34**	9	7	60/**2.36**	150/**5.9**
1125,0	**44.29**	10	8	60/**2.36**	150/**5.9**
1200,0	**47.24**	11	8	60/**2.36**	150/**5.9**
1275,0	**50.20**	12	9	60/**2.36**	150/**5.9**
1350,0	**53.15**	13	10	60/**2.36**	150/**5.9**
1425,0	**56.10**	14	10	60/**2.36**	150/**5.9**
1500,0	**59.06**	15	11	60/**2.36**	150/**5.9**
1575,0	**62.00**	16	12	60/**2.36**	150/**5.9**

Note: Number of sprockets depends on the belt load.