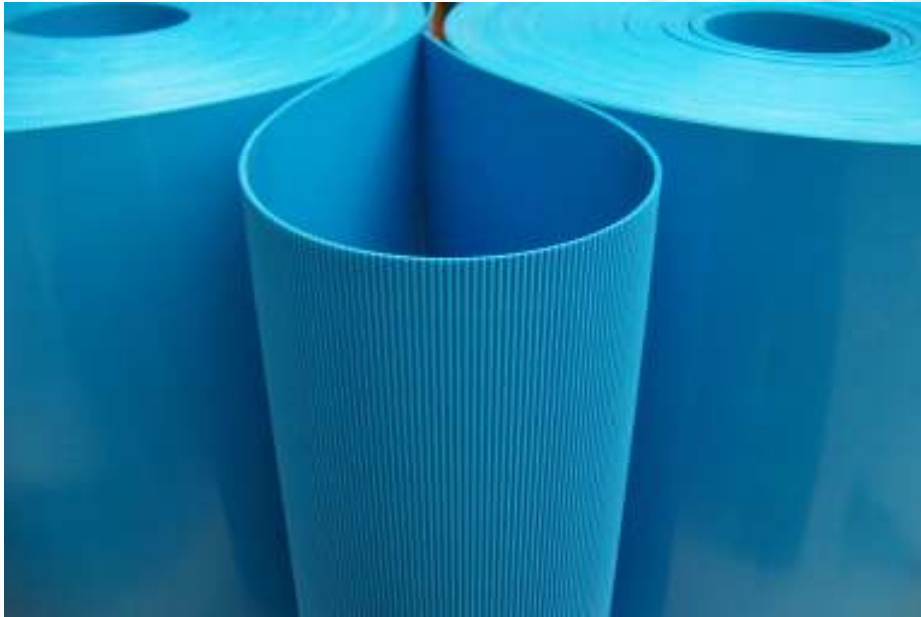


Product

Wide Timing Belts GMT3™

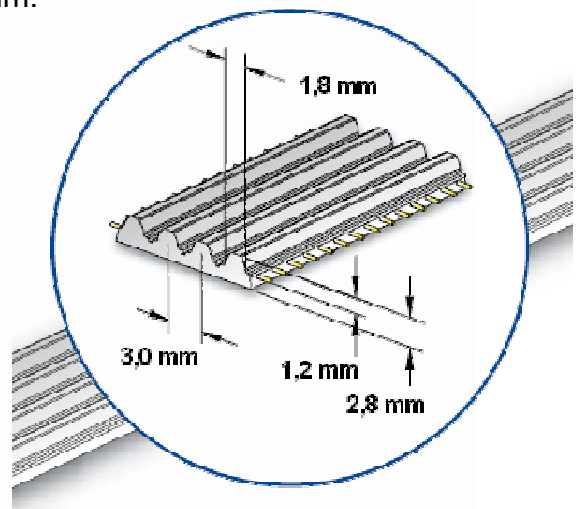


Gates Mectrol's GMT3™ Wide Timing Belts were designed as an alternative to lightweight flat belts and are commonly used in conveying applications involving small pulley diameters or where belt slippage must be avoided.

The custom tooth profile minimizes noise characteristics and can be used with most commercially available pulleys with a pitch of 3 mm.

Advantages

- No re- tensioning required
- Lower shaft forces
- Higher acceleration without slippage
- Positive indexing



Product Properties

Attributes

Standard Widths	50 mm to 450 mm
Minimum Welded Belt Length	1.200 mm
Standard Roll Length ($\pm 1\%$)	60 m
Standard Color	Blue
Durometer	85 Shore A
Temperature Range	-10° C to +70° C
FDA Approval	Yes
EU Approval	Yes
Minimum Number of Pulley Teeth z_{min}	19
Minimum Pulley Diameter	19 mm
Minimum Back Bend Diameter	30 mm

Technical Data

Standard Widths GMT3 Wide Belts							
mm	50	100	150	200	250	300	450
Ultimate Tensile Strength F_{break} (average value)							
Aramide	3.861 N	7.847 N	11.833 N	15.819 N	19.804 N	24.039 N	35.747 N
Allowable Belt Force F_{1all} Open Ended							
Aramide	587 N	1.174 N	1.761 N	2.348 N	2.935 N	3.522 N	5.283 N
Allowable Belt Force F_{1all} Endless Welded							
Aramide	440 N	881 N	1.321 N	1.761 N	2.201 N	2.642 N	3.962 N
Allowable Effective Force F_{eall}							
	700 N	1.400 N	2.100 N	2.800 N	3.500 N	4.200 N	6.300 N
Specific Belt Weight m_{sp}							
Aramide	0,0020 kg / m / mm						
Specific Belt Stiffness C_{sp}							
Aramide	146.750 N	293.500 N	440.2250 N	587.000 N	733.750 N	880.500 N	1.320.750 N

Price level / technical data, as of February, 2010

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