



# TPU BELTS

THERMOPLASTIC POLYURETHANE

GATES TPU SYNCHRO-POWER™

## 150 AT20V ROLL STOCK

SELF TRACKING, WIDE, FLEXIBLE AND NOW AVAILABLE IN 150MM WIDTH

### LONG-LASTING AND EFFICIENT LINEAR CONVEYING SOLUTIONS

Our advancements in materials science, design engineering and processing technologies allow Gates to deliver highly flexible and fatigue resistant linear timing belts accommodating wide conveying applications up to 150mm width.

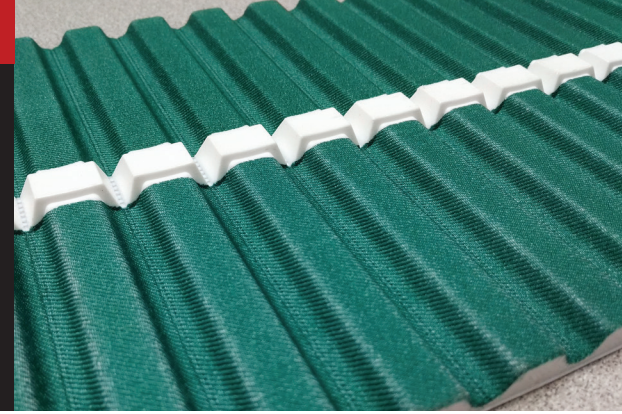
Gates 150 AT20V endless welded belts are ideal for conveying exposed to side forces – external or vertical – and self-tracking using a continuous notched V-Guide.

Custom 150mm width conveying solutions are available using all backings and profile options, including Nylon fabric to improve efficiency – tooth side, back side, both sides.

Steel or Aramid reinforcement cords provide full tensile strength at a very small pulley diameter – without flanges.

### FEATURES + BENEFITS

- Ideal for Full-Width Conveying Applications
- Self-Tracking by Continuously Notched V-Guide
  - Allows Flangeless Pulleys
  - Extra Flexibility Around Tight Belt Paths
  - Eliminates Lateral Movement
- Steel or Aramid Reinforcement
- Nylon Surface Options - Tooth & Back – Reduce Friction & Noise
- Standard PU, or FDA/EU Approval
- Long-Lasting Thermoplastic Polyurethane Construction
  - Durable & Cut Resistant
  - Oil, Chemical & Water Resistant
  - Non-Marking
- Clean Running with No Lubrication



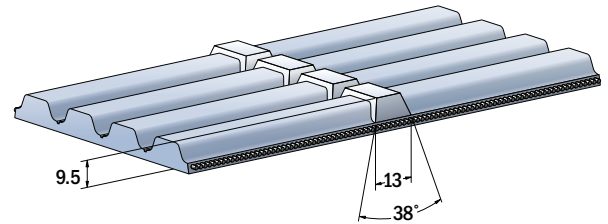
## SYNCHRO-POWER™ 150AT20V ROLL STOCK

### PRODUCT SPECIFICATIONS

PITCH	20 mm
STANDARD THICKNESS	9.5 mm
MINIMUM WELDED BELT LENGTH	1000 mm
STANDARD ROLL LENGTH (TOLERANCE ±1%)	50 m
STANDARD COLOUR	White
CORD	Steel Cord/Aramid Cord
MINIMUM NUMBER OF PULLEY TEETH $Z_{min}$	20 (Steel/Aramid)
MINIMUM PULLEY DIAMETER	127.3 mm
MINIMUM BACK BEND DIAMETER	180 mm (Steel/ Aramid)
FDA / EU APPROVAL	No
POLYURETHANE	R1 / 92° Shore A / -5 °C to +70 °C
POLYAMIDE FABRIC	NT, NB, NTB

### 150AT20V

- Standard Widths:  
32, 50, 75, 100, 150 mm



### TECHNICAL DATA

STANDARD WIDTH (MM)	32	50	75	100	150
<b>Ultimate Tensile Strength - <math>F_{Break}</math> [N] Average Value</b>					
Steel	31140	50170	76120	102070	153970
Aramid	28337	45153	68508	91863	138573
<b>Allowable Belt Tension - <math>F_{1all}</math> [N] Open Ended</b>					
Steel	7534	12139	18417	24696	37253
Aramid	2585	4120	6251	8382	12643
<b>Allowable Belt Tension - <math>F_{1all}</math> [N] Endless Welded</b>					
Steel	3767	6069	9209	12348	18626
Aramid	1939	3090	4688	6286	9483
<b>Allowable Effective Tension - <math>F_{eall}</math> [N] Minimum 15 Teeth in mesh</b>					
Steel & Aramid	4127	8036	13466	18896	29756
<b>Specific Belt Stiffness - <math>C_{sp}</math> [N]</b>					
Steel	1883571	3034643	4604286	6173929	9313214
Aramid	646373	1029935	1562660	2095385	3160836