



TPU BELTS

THERMOPLASTIC POLYURETHANE

GATES TPU

SYNCHRO-POWER™ SST8 BELT

GATES SILENT SELF TRACKING LINEAR BELT

Gates TPU Synchro-Power SST belts are high performance, high quality belts to improve tracking of belts and reduce noise in your operation. SST belts are designed for high speed and precise accuracy while reducing running noise.

Equipped with strong steel reinforcement, the belt provides full tensile strength and stiffness for highly dynamic positioning and vertical lifting applications.

Wear-resistant Nylon fabric on tooth side for high abrasion resistance and smooth operation.

Gates TPU belts combine the durability of Gates quality products and optimal lead times within a reliable partnership, making Gates TPU belts the best choice for polyurethane synchronous belts. You can be confident in Gates Synchro-Power reliability.

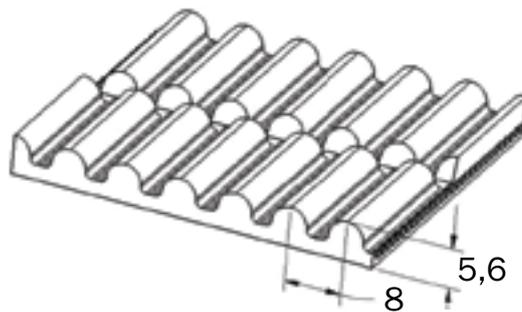
FEATURES + BENEFITS

- SST8-RSL design available for high strength and high stiffness
- Reduced noise due to staggered gearing
- SST belt run in HTD pulleys with tracking ring and offset gearing
- Standard with Nylon fabric on tooth side
- Optional with Nylon on tooth and back side
- SST8 available in widths up to 150mm

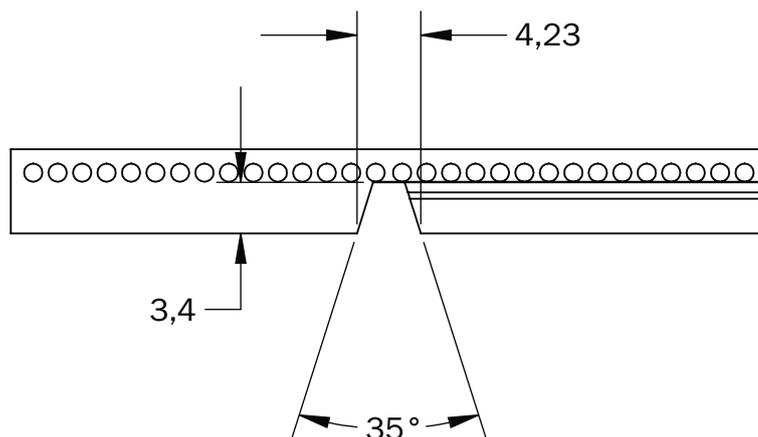
SYNCHRO-POWER SST8-RSL

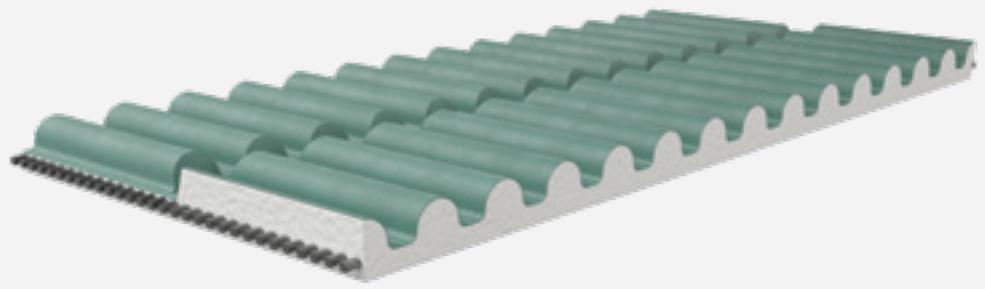
PRODUCT SPECIFICATIONS

PITCH	8 mm
STANDARD THICKNESS	5,6 mm
WIDTH TOLERANCE	+ -0,50 mm
STANDARD ROLL LENGTH (TOLERANCE ±1%)	100 m
STANDARD COLOR	White
FDA/EU APPROVAL	No
POLYAMIDE FABRIC	
STANDARD	NT
OPTIONAL	NTB



	POLYURETHANE	HARDNESS [°SHORE A]	TEMPERATURE RANGE [°C]
STANDARD	R1	92	-5 to +70 °C
OPTIONAL	R23T	90	-30 to +55 °C





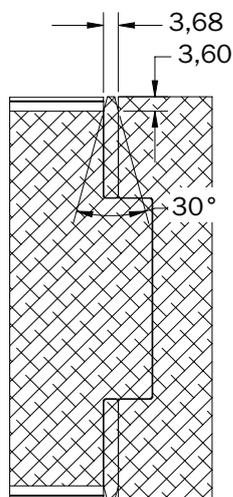
TECHNICAL DATA

STANDARD WIDTH (mm)	UNIT	25	32	50	75	100	150
BREAKING FORCE AVERAGE VALUE							
STEEL RSL	[N]	24,220	31,140	51,900	76,120	96,880	145,320
ALLOWABLE BELT FORCE							
STEEL RSL	[N]	5,860	7,534	12,557	18,417	23,440	35,160
ALLOWABLE EFFECTIVE FORCE MINIMUM 12 TEETH IN MESH							
STEEL RSL	[N]	1,932	2,583	4,257	6,582	8,907	13,557
BELT WEIGHT							
STEEL RSL	[KG/M]	0,20	0,24	0,39	0,59	0,79	1,18
SPECIFIC BELT STIFFNESS							
STEEL RSL	[N]	1,465,000	1,883,571	3,139,286	4,604,286	5,860,000	8,790,000

MIN PULLEY TOOTH COUNT AND DIAMETER

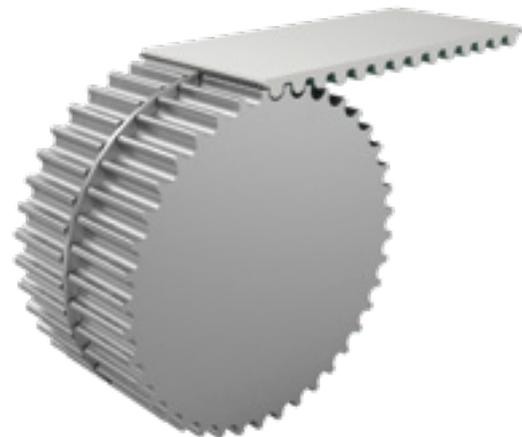
		STEEL
No back bending		z min 31
		d min 80 mm
Back bending		z min 38
		d min 150 mm

PULLEY DIMENSION SST8



SECTION A-A
SCALE 1 : 1

BELT-PULLEY MESHING SST8



SYNCHRO-POWER SST



TPU BELTS

THERMOPLASTIC POLYURETHANE

Gates is a leading manufacturer of innovative thermoplastic polyurethane power transmission and conveyor belts. We are a trusted partner delivering superior quality and reliability with optimal lead times worldwide.

EMEA

Gates TPU GmbH
Werner von Siemens Strasse 2
64319 Pfungstadt, Germany
Tel. +49 (0) 6157-9727-0
Email: sales-pfungstadt@gates.com

GATES.COM

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