

FLEXSTEEL™

DESCRIPTION:

Goodyear produced the world's first steel cord belt in 1942 and today remains at the forefront of steel cord belt innovation. To better service customers worldwide, Flexsteel belting is produced on seven production lines in five countries on four continents.

Markets



- Aggregate
- Coal
- Cement
- Hard Rock
- Steel Production
- Power Generation
- Bulk Handling Terminals

to name a few

Applications



- Overland Conveyors
- Primary Crushers
- Load Out Facilities
- Yard Belts
- Bucket Wheel Excavators
- Slope/Drift Belts

to name a few

Cover Compounds



- ARMA-SBR
- ARMA-SBR Low Temp
- ARMA-SBR Plus
- DIN K & Grade F
- Global X
- Grade M
- Grade S
- Low Rolling Resistance
- Premarc
- Solar-Shield
- Stacker
- Style BII
- Style B Hot
- Style BII Low Temp
- Survivor
- 6740A



Tension Range

ST 500 to over ST 8000

Features

Benefits



Sensor Guard Rip Detection System

Due to the destructive forces involved, belt rips are impossible to prevent. However, thanks to our innovative Sensor Guard® electronic belt protection system, belt rips can be limited. Goodyear's Sensor Guard is a proven rip detection system that reduces downtime costs, replacement costs and lost production time. *To view a list of customer testimonials, click here.*



Our top-of-the-line technology helps produce bottom line profits for you.

Technical Capabilities

Goodyear has committed millions of dollars to our state-of-the-art Conveyor Belt Technical Center. Advanced facilities and equipment enable our research and development team to develop new products, cutting-edge technologies and improved quality assurance. Our aim is to bring unique products to market faster than ever, while constantly delivering the industry's lowest-cost-per-ton capabilities. *To view a technical center press release, click here.*



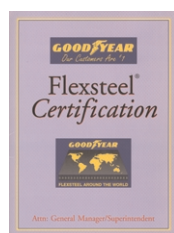
World's Largest Dynamic Splice Tester

One of the centerpieces of Goodyear's Conveyor Belt Technical Center is the world's largest and strongest 2-Pulley Dynamic Splice Tester. This impressive piece of equipment enables our research and development team to test and verify stronger belt designs and longer lasting high tension splices. *To view a video demonstration, click here.*



Technical Information

Goodyear manufactures a wide range of Flexsteel steel cord belts to meet your needs. *To view Flexsteel Specifications, click here.*



Certification Folder

Our reputation is riding on your belt. Therefore, every Flexsteel belt manufactured in any of our five plants worldwide is supplied with a quality assurance certification folder. This folder contains specifications and testing data signed by a Goodyear Quality Assurance Associate. *To view an example of a certification folder, click here.*



Red Handbook for Conveyor and Elevator Belting (CD-ROM)

The Goodyear Tire & Rubber Company's Handbook of Conveyor and Elevator Belting is the longest running belt conveyor technical publication in the world. First published in 1921 and upgraded numerous times, this world renowned reference has been used by engineers in all fields of bulk material handling around the globe. Now available in a digital format, it has become even easier to use and an even more valuable reference and design tool.

Visit our website for more information or to order the Red Handbook CD-ROM at www.redhandbook.com.

Belt Analysis Software



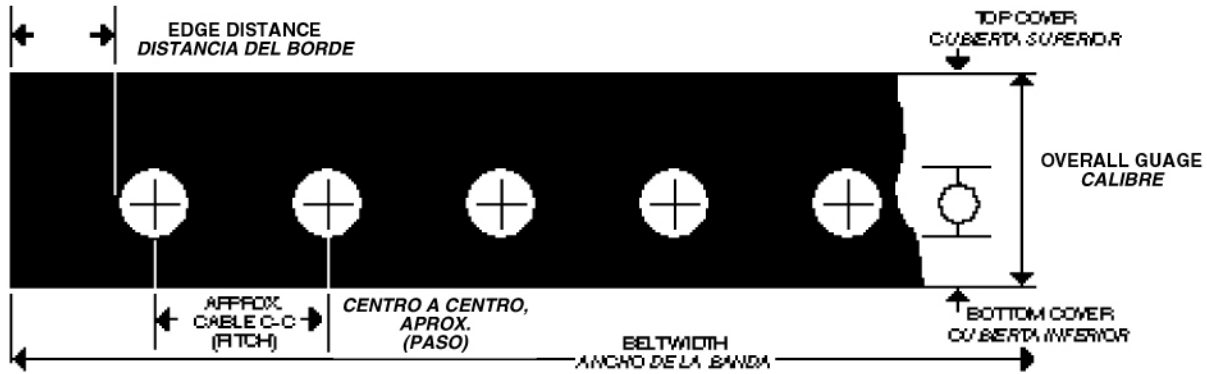
Goodyear's alliance with Conveyor Dynamics, Inc. (CDI) pays dividends for our customers by providing effective material handling solutions. Part of this success is due to CDI's BELTSTAT conveyor design program. *For more information visit CDI's website at www.conveyor-dynamics.com.*

Belt C.A.T.™ Scanning System

Have you ever wanted to know the True Condition of your Flexsteel belt? Goodyear's alliance with Conveyor Belt Technology Corp. (CBT) allows you to do to just that. CBT's Belt C.A.T.™ uses proven, advanced technology to provide comprehensive, user friendly colored graphics of every splice, as well as cord condition throughout the belt. *For more information, call CBT at 604-530-1234.*

FLEXSTEEL BELT CONSTRUCTION

DATOS ACERCA DE LA CONSTRUCCIÓN DE BANDAS FLEXSTEEL



FLEXSTEEL STANDARD SPECIFICATIONS (Imperial/Metric)

ESPECIFICACIONES ESTANDAR DE FLEXSTEEL (Imperial/Métrico)

Belt Designation <i>Designación de la banda</i>	Minimum Ultimate Tension <i>Tensión mínima</i>		Operating Tension <i>Tensión de operación</i>		Cable Diameter (nominal) <i>Diámetro del cable (nominal)</i>		Cable Pitch (approximate) <i>Paso entre los cables (aproximado)</i>		Belt Modulus <i>Módulo de la banda</i>	
	PIW	KN/M	PIW	KN/M	inches/ pulgadas	mm/ milímetros	inches/ pulgadas	mm/ milímetros	PIW	KN/M
Flexsteel ST800	4568	800	685	120	0.150	3.8	0.688	17.5	329000	58000
Flexsteel ST1000	5710	1000	856	150	0.150	3.8	0.547	13.9	411000	72000
Flexsteel ST1250	7138	1250	1070	187	0.213	5.2	0.855	21.7	514000	90000
Flexsteel ST1600	9136	1600	1370	240	0.213	5.2	0.666	16.9	657000	115000
Flexsteel ST2000	11420	2000	1712	300	0.213	5.2	0.533	13.5	822000	144000
Flexsteel ST2500	14275	2500	2140	375	0.213	5.2	0.450	11.4	1030000	180000
Flexsteel ST3150	17987	3150	2697	472	0.327	8.0	0.768	19.5	1290000	227000
Flexsteel ST3500	19985	3500	2996	525	0.327	8.0	0.690	17.5	1440000	252000
Flexsteel ST4000	22840	4000	3424	600	0.378	9.2	0.792	20.1	1640000	288000
Flexsteel ST4500	25695	4500	3852	675	0.417	10.6	0.805	20.4	1850000	324000
Flexsteel ST5000	28550	5000	4280	750	0.472	12.0	1.098	27.9	2050000	360000
Flexsteel ST5400	30835	5400	4623	810	0.472	12.0	1.023	26.0	2220000	389000

- Tension ratings are available in addition to those shown above.
- Other cable diameters may be substituted, according to individual requirements
- Operating tensions are based on a 6.67:1 safety factor.
- Cable pitch based on 48" (1220mm) wide belts.
- Además de lo indicado arriba, se dispone también de otras capacidades de tensión.
- Se pueden intercambiar cables de otros diámetros, según se requiera.
- Los valores de tensión de operación, se basan en un factor de seguridad de 6.67 a 1.
- El montaje del cable está basado en bandas de 48" (1200mm) de ancho.

FLEXSTEEL BELT THICKNESS (Imperial/Metric)

ESPESOR DE LAS BANDAS FLEXSTEEL (Imperial/Métrico)

Belt Designation <i>Tipo de banda</i>	PIW	600-1000	1001-2250	2251-3200	3201-3700	3701-4200	4201-4623
	KN/M	ST701-ST1168	ST1169-ST2628	ST2629-ST3738	ST3739-ST4322	ST4323-ST4906	ST4907-ST5400
Cable Diameter <i>Diámetro del cable</i>	Inches	0.150	0.213	0.327	0.378	0.417	0.472
	mm.	3.6	5.2	8.0	9.2	10.6	12.0

APPROXIMATE BELT THICKNESS = CABLE DIAMETER + COVER GAUGES

ESPESOR APROXIMADO DE LA BANDA = DIÁMETRO DE LOS CABLES + CALIBRE DE LAS CUBIERTAS

FLEXSTEEL BELT WEIGHT (Imperial/metric)
PESO DE LAS BANDAS FLEXSTEEL (Imperial/Métrico)

Belt Designation Tipo de banda	PIW	685	856	1070	1370	1712	2140	2697	2996	3424	3852	4280	4623
	KN/M	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400
Carcass Weight (lb/ft ²) Peso estructural		1.5	1.6	2.2	2.4	2.7	3.2	4.3	4.5	5.3	5.9	6.1	6.3
Carcass Weight (kg/m ²) Peso estructural		7.3	7.8	10.7	11.7	13.2	15.6	21.0	22.0	25.9	28.8	29.8	30.8

Cover Compound Componente de la cubierta	Stacker	Premarc	Style B	Style B - LT	Style B - Hot	MSHA/SBR	MSHA - LT	LTORS
Cover Weight per 1/32" (lb/ft ²) Peso de la cubierta por 1/32"	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.19
Cover Weight per 1 mm (kg/m ²) Peso de la cubierta por 1 milímetro	1.13	1.17	1.17	1.17	1.17	1.25	1.25	1.17

APPROXIMATE BELT WEIGHT=CARCASS WEIGHT+COVER WEIGHT

- Minimum pulley cover requirements 5/32" (4mm)
- LT designates Low Temperature compound.

PESO APROXIMADO DE LA BANDA = PESO ESTRUCTURAL + PESO DE LA CUBIERTA

- Requerimiento de cobertura mínima de la polea 5/32"(4mm).
- LT designa a un componente de baja temperatura.

FLEXSTEEL MINIMUM RECOMMENDED PULLEY DIAMETERS (Imperial/metric)
FLEXSTEEL: DIÁMETROS MÍNIMOS RECOMENDADOS PARA LAS POLEAS (Imperial/Métrico)

Belt Designation Tipo de banda		Minimum Recommended Pulley Diameters (Percent of Rated Tension) Diámetros mínimos recomendados para las poleas (porcentaje de la capacidad de tensión)			
PIW	KN/M	75-100%	50-75%	<50%	Snubs
600-1000	ST701-ST1168	36" (914 mm)	30" (762 mm)	18" (457 mm)	16" (406 mm)
1001-2250	ST1169-ST2628	48" (1219 mm)	36" (914 mm)	24" (610 mm)	20" (508 mm)
2251-3200	ST2629-ST3738	54" (1372 mm)	42" (1067 mm)	36" (914 mm)	30" (762 mm)
3201-3700	ST3739-ST4322	60" (1524 mm)	48" (1219 mm)	42" (1067 mm)	36" (914 mm)
3701-4200	ST4323-ST4906	66" (1676 mm)	54" (1372 mm)	48" (1219 mm)	42" (1067 mm)
4201-4623	ST4907-ST5400	72" (1829 mm)	60" (1524 mm)	54" (1372 mm)	48" (1219 mm)

- Snubs are defined as having 6" or less belt contact and tension less than 50% of belt rating.
- Pulley sizes for Flexsteel belts are determined by face pressure on the pulley and/or the pulley-to-cable diameter ratio.
- All pulleys must be flat as crowned pulleys will cause excessive center tension in the high modulus steel cable product.
- Contact Goodyear for belt tension ratings higher than 4623 PIW (ST5400 KN/M).

- Por definición, la polea de contacto debe hacer un contacto de 152 mm (6 pulgadas) o menos con la banda y una tensión de menos del 50% de la capacidad plena de la banda.
- Las dimensiones de las poleas para las bandas Flexsteel se determinan en base a la presión en la cara de la polea y/o la relación entre la polea y el diámetro del cable.
- Todas las poleas deben ser planas ya que en los diseños de cable de acero de módulo alto, las poleas abombadas producirán un exceso de tensión en el centro.
- Para tensiones mayores de 4623 PIW (ST5400 KN/M), consulte primero con Goodyear.