

**FENNER**  **DUNLOP**  
CONVEYOR BELTING



# NOVA-X<sup>®</sup>

**X** **SERIES** Nova-X<sup>®</sup> — Member of the X Series<sup>®</sup> Group

Fenner Dunlop's innovative flexible core fabric conveyor belt

Application: Medium to heavy duty bulk material handling applications

Carcass: Patented dual crimp weave

[www.fennerdunlopamericas.com](http://www.fennerdunlopamericas.com)

““

Fenner Dunlop belting has been nothing but phenomenal for us. I can run 8,000-9,000 tons per day on my belts and not ever have to worry about system performance... that is saying something. With Fenner Dunlop, I get the job done and have zero down-time.”

— Korey Kibodeaux,  
Quarry Plant Manager  
Blue Water Industries



# NOVA-X

## APPLICATIONS

**Underground:** Copper, Gold, Limestone, Potash, Salt

**Above Ground:** Coal-Fired Power Plants, Coal Preparation Plants, Rock & Aggregate

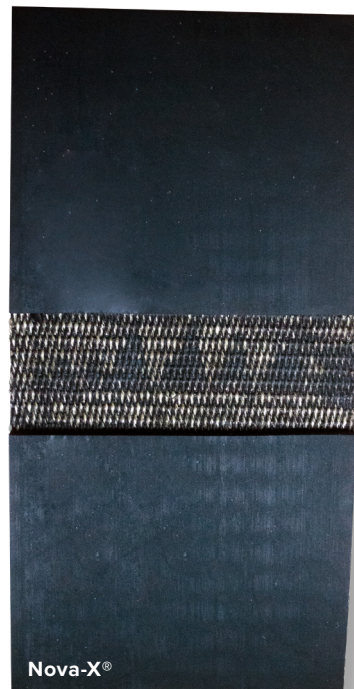
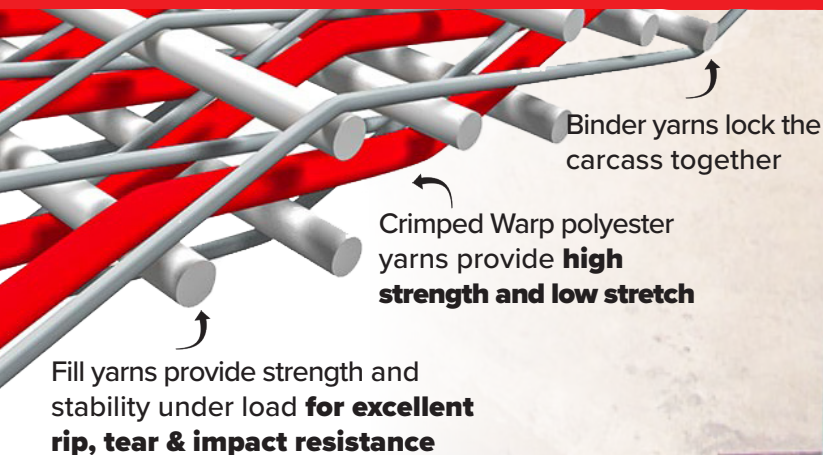
## FEATURES & BENEFITS

- Excellent resistance to rip, tear, impact and puncture using a technologically advanced and patented belt fabric design.
- The unique fabric weave allows for improved mechanical fastener retention and splice life.
- The smaller gauge of the Nova-X carcass compared to similar tension rated multiplied fabric belting allows for smaller diameter pulleys throughout the conveyor system as well as superior troughability, tracking and load support.
- The fabric construction and treatment process result in enhanced resistance to edge ravel, moisture, mildew and acid mine water.
- Can be used with all Fenner Dunlop cover compounds.
- Now available with Giant XE, a premium Grade 1 ARPM cover compound with high durability, low extraction and excellent abrasion resistance.
- Available in 300, 400 and 600 PIW.



## FENNER DUNLOP NOVA-X® VS. PREMIUM STANDARD MULTI-PLY BELT

### DUAL CRIMP WEAVE CONSTRUCTION



Nova-X®



Premium Standard Multi-Ply Belt

Nova-X® withstands the impact punishment.

# Technical Information

<b>Nova-X® SPECIFICATION TABLE - IMPERIAL</b>			
<b>GENERAL DATA</b>			
<b>Carcass Style</b>	<b>F3</b>	<b>F4</b>	<b>F6</b>
<b>Belt Style</b>	1-300	1-400	1-600
<b>Number of Plies</b>	1	1	1
<b>Carcass Gauge<sup>3</sup> (in)</b>	0.105	0.14	0.18
<b>Carcass Weight<sup>4</sup> (lbs/in/ft)</b>	0.035	0.04	0.06
<b>Elastic Modulus (lbs/in)</b>	30,000	35,000	40,000
<b>Carcass Safety Factor</b>	10:1	10:1	10:1
<b>CONVEYOR BELT SPECIFICS</b>			
<b>Max Tension Rating<sup>2</sup> (PIW)</b>	300	400	600
<b>Troughing/Empty<sup>1</sup> – Minimum Belt Width (in)</b>			
<b>20 Deg. Idlers</b>	18	20	24
<b>35 Deg. Idlers</b>	20	24	30
<b>45 Deg. Idlers</b>	24	30	36
<b>Load Support Maximum Belt Width (in)</b>			
<b>20 Deg. Idlers 0-40 lbs/ft<sup>3</sup></b>	72	84	84
<b>20 Deg. Idlers 41-80 lbs/ft<sup>3</sup></b>	66	72	72
<b>20 Deg. Idlers 81-120 lbs/ft<sup>3</sup></b>	60	66	72
<b>35 Deg. Idlers 0-40 lbs/ft<sup>3</sup></b>	66	72	72
<b>35 Deg. Idlers 41-80 lbs/ft<sup>3</sup></b>	54	60	60
<b>35 Deg. Idlers 81-120 lbs/ft<sup>3</sup></b>	48	54	60
<b>35 Deg. Idlers Over 120 lbs/ft<sup>3</sup></b>	42	48	54
<b>45 Deg. Idlers 0-40 lbs/ft<sup>3</sup></b>	54	60	66
<b>45 Deg. Idlers 41-80 lbs/ft<sup>3</sup></b>	48	54	60
<b>45 Deg. Idlers 81-120 lbs/ft<sup>3</sup></b>	42	48	54
<b>45 Deg. Idlers Over 120 lbs/ft<sup>3</sup></b>	36	42	48
<b>Minimum Pulley Diameters (in)</b>			
<b>81-100% Belt Rate Tension</b>	18	20	24
<b>61-80% Belt Rated Tension</b>	16	18	20
<b>41-60% Belt Rated Tension</b>	14	16	18
<b>ELEVATOR BELT SPECIFICS</b>			
<b>Maximum Tension Rating (PIW)</b>			
<b>Grain, Wood Chip Service (50 lb/ft<sup>3</sup>)</b>	240	320	480
<b>Industrial Service (100 lbs/ft<sup>3</sup>)</b>	210	280	420
<b>Minimum Pulley Diameters (in)</b>			
<b>81-100% Belt Rated Tension</b>	18	20	24
<b>61-80% Belt Rated Tension</b>	16	18	20
<b>40-60% Belt Rated Tension</b>	14	16	18
<b>Maximum Bucket Projection (in)</b>			
<b>Centrifugal Elevators</b>	10	10	12
<b>Continuous Elevators</b>	10	10	12

<b>Nova-X® SPECIFICATION TABLE - METRIC</b>			
<b>GENERAL DATA</b>			
<b>Carcass Style</b>	<b>F3</b>	<b>F4</b>	<b>F6</b>
<b>Belt Style</b>	1-300	1-400	1-600
<b>Number of Plies</b>	1	1	1
<b>Carcass Gauge<sup>3</sup> (mm)</b>	2.67	3.56	4.57
<b>Carcass Weight<sup>4</sup> (Kg/m<sup>2</sup>)</b>	1.71	2.03	2.90
<b>Elastic Modulus (N/mm)</b>	5,254	6,129	7,005
<b>Carcass Safety Factor</b>	10:1	10:1	10:1
<b>CONVEYOR BELT SPECIFICS</b>			
<b>Max Tension Rating<sup>2</sup> (N/mm)</b>	53	70	105
<b>Troughing/Empty<sup>1</sup> – Minimum Belt Width (mm)</b>			
<b>20 Deg. Idlers</b>	457	508	610
<b>35 Deg. Idlers</b>	508	610	762
<b>45 Deg. Idlers</b>	610	762	914
<b>Load Support Maximum Belt Width (mm)</b>			
<b>20 Deg. Idlers 0-640 kg/m<sup>3</sup></b>	1,829	2,134	2,134
<b>20 Deg. Idlers 641-1280 kg/m<sup>3</sup></b>	1,676	1,829	1,829
<b>20 Deg. Idlers 1281-1920 kg/m<sup>3</sup></b>	1,524	1,676	1,829
<b>35 Deg. Idlers 0-640 kg/m<sup>3</sup></b>	1,676	1,829	1,829
<b>35 Deg. Idlers 641-1280 kg/m<sup>3</sup></b>	1,372	1,524	1,676
<b>35 Deg. Idlers 1281-1920 kg/m<sup>3</sup></b>	1,219	1,372	1,524
<b>35 Deg. Idlers Over 1920 kg/m<sup>3</sup></b>	1,067	1,219	1,372
<b>45 Deg. Idlers 0-640 kg/m<sup>3</sup></b>	1,372	1,524	1,676
<b>45 Deg. Idlers 641-1280 kg/m<sup>3</sup></b>	1,219	1,372	1,524
<b>45 Deg. Idlers 1281-1920 kg/m<sup>3</sup></b>	1,067	1,219	1,372
<b>45 Deg. Idlers Over 1920 kg/m<sup>3</sup></b>	914	1,067	1,219
<b>Minimum Pulley Diameters (mm)</b>			
<b>81-100% Belt Rate Tension</b>	457	508	610
<b>61-80% Belt Rated Tension</b>	406	457	508
<b>41-60% Belt Rated Tension</b>	356	406	457
<b>ELEVATOR BELT SPECIFICS</b>			
<b>Maximum Tension Rating (N/mm)</b>			
<b>Grain, Wood Chip Service (800 kg/m<sup>3</sup>)</b>	42	56	84
<b>Industrial Service (1,600 kg/m<sup>3</sup>)</b>	37	49	74
<b>Minimum Pulley Diameters (mm)</b>			
<b>81-100% Belt Rated Tension</b>	457	508	610
<b>61-80% Belt Rated Tension</b>	406	457	508
<b>40-60% Belt Rated Tension</b>	356	406	457
<b>Maximum Bucket Projection (mm)</b>			
<b>Centrifugal Elevators</b>	254	254	305
<b>Continuous Elevators</b>	254	254	305

## **Tough Belts for Tough Applications**

Fenner Dunlop is proud to offer the hardest working and longest-lasting conveyor belts in the world. We make our belts ourselves including weaving and treating our own fabric, within North America. We do not import from other manufacturers in Asia or elsewhere. We set the standard for Conveyor Belts with our involvement in CEMA and ARPM. For over 150 years, we have researched, tested and developed our products using our own facilities. We employ world-leading experts who will ensure your belts last a lifetime!



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