FENNER DUNLOP
CONVEYOR BELTING

GRAIN HANDLING

MARKET: **GRAIN**

APPLICATIONS

Agriculture Industry

Grains, elevators, feed silos, milling and other agricultural applications requiring durability, oil and cold temperature resistance

SOLUTION

GrainMaster® and GrainSupreme®

GrainMaster's Plylok® carcass delivers high strength along with low elongation and excellent fastener holding properties.

GrainFlex®

GrainFlex boasts an Usflex carcass with maximum rip and tear resistance plus superior bolt retention.

www.fennerdunlopamericas.com

Longest Lasting Conveyor Belts in the World™

Expertise in not only standard weave, but also patented straight warp and dual crimp weaves.

Engineered to Withstand the Heaviest Loads, While Conserving Energy™

We are mindful of the materials we use in our carcasses, minimizing the impact to the environment while increasing durability.

State of the Art Weaving Facility and Belt Manufacturing in North America™

We build our belts from the inside out, resulting in belts that consistently outperform the competition in rigorous applications.

Over 150 Years in the Industry Enhanced by Today's Technology™

Our engineers are constantly improving our materials and processes to maximize your uptime and revenue.

Fenner Dunlop GrainFlex®

Previously known as Grain Master Supreme

Conveyor belts produced with an **UsFlex**™ carcass

UsFlex® belting has longitudinal rip resistance more than three times that of multiple-ply belts of equivalent rating due to our unique straight-warp construction. The straight laid yarns result in virtually no crimp. This results in a belt carcass with very low stretch compared to other fabric belts, making it suitable to replace some steel cord belts.

Go tougher – not thicker!

UsFlex® delivers improved flexibility over multiple ply belt. Flexibility is gained through yarn twist and this delivers outstanding troughing ability and permits the use of smaller pulley diameters.

SERIES X USFLEX

GrainMaster® & GrainSupreme®

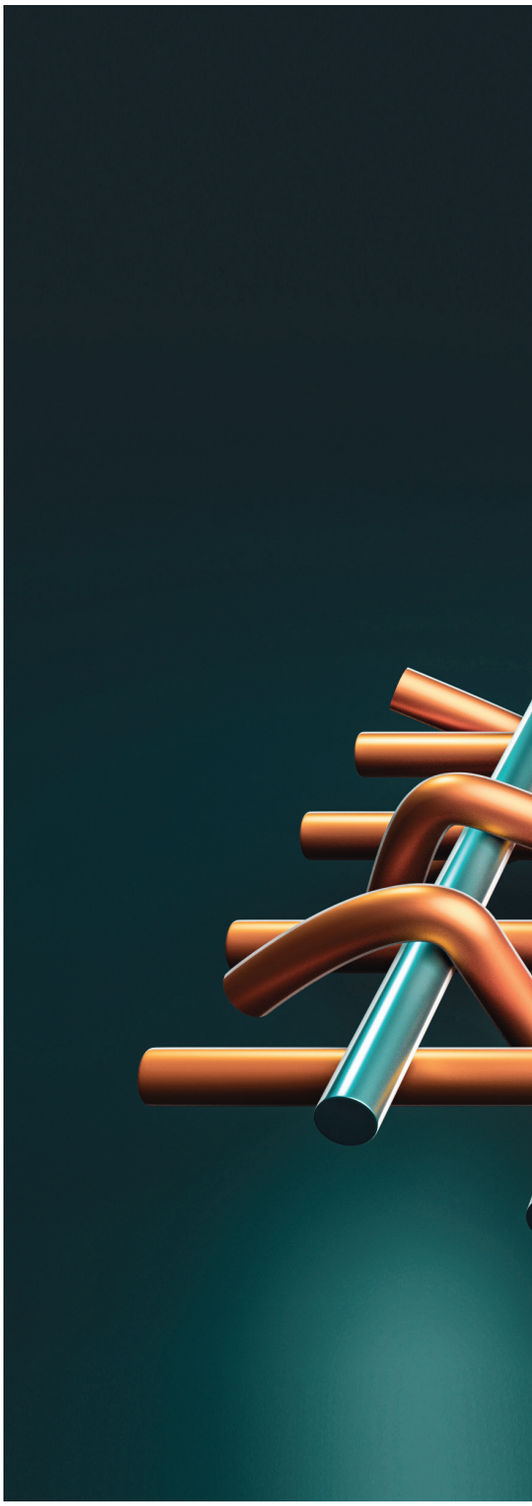
Conveyor Belt

Fenner Dunlop Plylok Group grain belting is the best engineered plied belting for higher tension ratings. The GrainSupreme (PlylokSupreme Group) and GrainMaster (PlylokMaster Group) both deliver high strength along with low elongation and excellent fastener holding properties.

GrainSupreme Features & Benefits

- Strong rip and tear resistance
- Strong bolt retention
- Excellent tracking characteristics
- Meets or exceeds OSHA requirements for conductivity and flame resistance.
  The standard is 29 CFR 1910.272 and includes a requirement on antistatic testing.
- For lighter application try GrainMaster based on PlylokMaster carcass

PLYLOK MASTER PLYLOK SUPREME



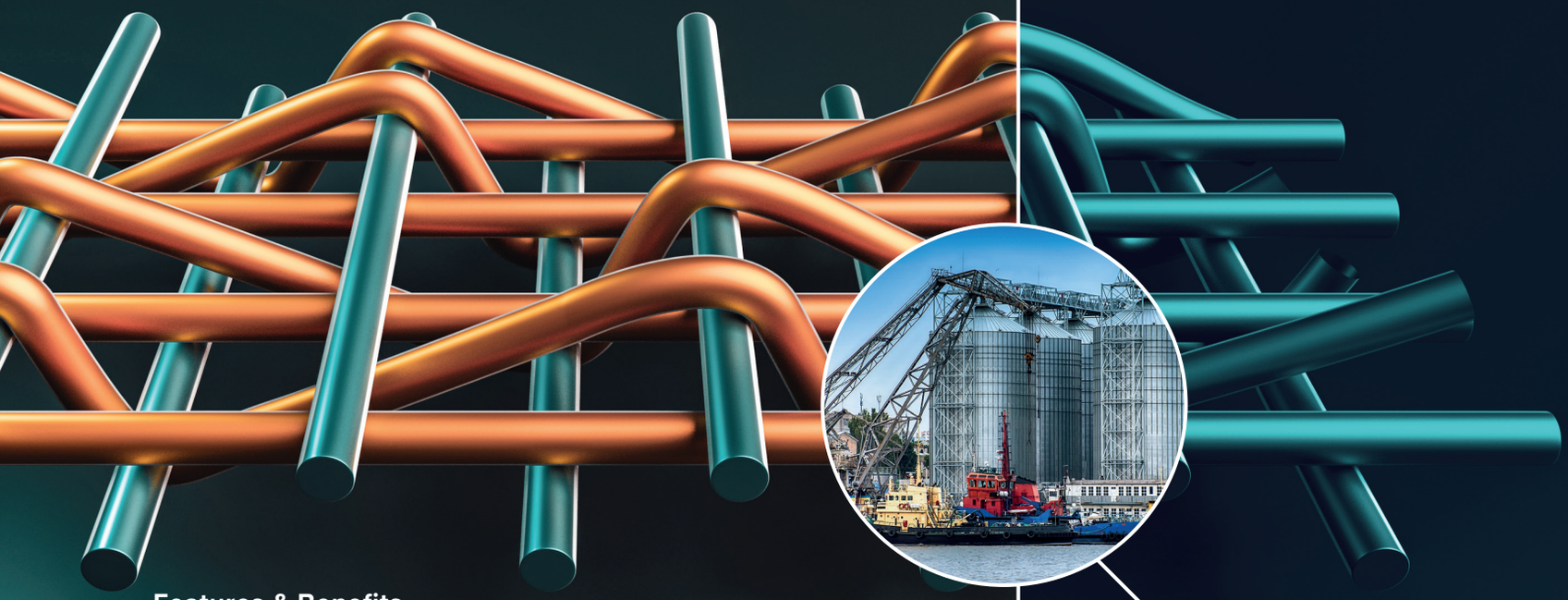
A variety of cover compounds are available for oil resistance and cold temperature resistance for both the GrainMaster and GrainSupreme and GrainFlex.

FENNER DUNLOP
CONVEYOR BELTING

GrainFlex®

GrainFlex is produced with an UsFlex™ carcass to provide maximum rip and tear resistance coupled with superior bolt retention properties.

- **OEM Solution**
- **Oil & Cold** resistance



- Perfect for **Grain Terminals**

Features & Benefits

- Superior rip & tear resistance
- Unsurpassed bolt retention
- Unequaled ply and cover adhesions
- Excellent tracking characteristics
- Meets or exceeds OSHA requirements for conductivity & flame resistance

CGH 2.0™
CLASSIC GRAIN HANDLER

Compounded for colder operating climates. Temperature range -40° to 200° F (-40° to 93°C). Electrical resistance to 300 megohm maximum.

UGH 2.0™
ULTRA GRAIN HANDLER

Designed for oil treated grain, crushed soybeans and other materials where mineral, animal, or vegetable fats are a deteriorating factor and where combustion properties are a concern.

GrainSupreme®

general data

Carcass Style		2-160	2-220	2-300	3-330	3-375	2-400	4-440	3-450	3-600RT	3-600	4-600	6-660	3-750
Number of Plies	---	2	2	2	3	3	2	4	3	3	3	4	6	3
Carcass Gauge	(in)	0.1140	0.1140	0.1500	0.1640	0.1850	0.1820	0.2000	0.1830	0.2160	0.2310	0.2520	0.2720	0.2550
Weight	(lbs/in/ft)	0.0554	0.0554	0.0700	0.0831	0.0950	0.0872	0.1026	0.0847	0.1070	0.1134	0.1203	0.1418	0.1229
Elastic Modulus	(lbs/in)	26 000	26 000	37 000	29 000	35 000	44 000	46 000	47 000	47 000	72 000	57 000	60 000	72 000
Safety Factor	---	10:01	09:01	10:01	09:01	10:01	10:01	09:01	10:01	08:01	10:01	10:01	10:01	10:01

Troughibility and Load Support values can be influenced by certain cover gauge and compound combinations used. When in doubt, please contact your FDA representative for selection guidance.

conveyor belt specs

Carcass Style		2-160	2-220	2-300	3-330	3-375	2-400	4-440	3-450	3-600RT	3-600	4-600	6-660	3-750
Troughibility	20 deg	14	14	18	20	20	20	24	24	24	28	30	36	30
Min Belt Width (in)	35 deg	18	18	20	24	24	24	30	30	30	30	36	36	36
	45 deg	-	24	28	30	30	30	-	36	36	36	42	42	42
Load Support 0-40 lbs/ft3	20 deg	36	42	72	60	72	66	72	72	72	72	72	84	72
Max Belt Width (in) 0-40 lbs/ft3	35 deg	36	36	60	54	60	60	60	72	66	72	72	84	72
	45 deg	30	30	60	48	60	54	-	72	60	72	72	84	72
Minimum Pulley Diameters belt rated tension	80%-100%	14	16	20	20	20	20	24	26	22	24	28	36	30
	60%-80%	12	14	16	18	18	16	20	20	18	20	24	30	24
	40%-60%	10	12	14	14	16	14	18	16	16	18	20	24	20
	0%-40%	10	12	14	14	16	14	-	16	16	18	20	24	20

elevator belt specs

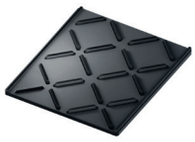
Carcass Style		2-160	2-220	2-300	3-330	3-375	2-400	4-440	3-450	3-600RT	3-600	4-600	6-660	3-750
Maximum Tension Rating (PIW)	Agrictulture	120	210	260	280	320	345	370	390	390	520	520	560	645
	Industrial	100	195	230	250	290	310	330	350	350	465	465	495	580
Minimum Pulley Diameters (in)	80%-100%	16	16	18	20	20	20	28	22	22	30	32	36	34
	60%-80%	14	14	16	18	18	18	22	20	20	24	26	30	28
	0%-60%	12	12	14	16	16	16	20	18	18	20	22	24	22
Maximum Bucket Projection (in)	Agriculture	6	7	7	8	9	10	10	10	10	10	11	10	11
	Industrial	0	6	6	7	8	9	10	9	9	12	12	12	14

Please note that GrainMaster has not been listed on the table above, for more information please contact your sales representative.

Applications:
Grains, elevators, feed silos, milling and other agricultural applications requiring durability, oil and cold temperature resistance.

Ask about our Cleatline™ products.

Made for aggressive transfer and elevation of free flowing materials, our Cleatline™ gives you efficient smooth operation over return idlers and quick pick-up at loading points.



FENNER DUNLOP CONVEYOR BELTING

GrainFlex®

4-800	3-900	4-1000	5-1000	6-1200	S3	S4	S5	D5	D6	D8	D10	D12	D15
4	3	4	5	6	1	1	1	2	2	2	2	2	2
0.3160	0.2820	0.3480	0.4010	0.4860	0.1320	0.1460	0.1750	0.2500	0.2780	0.3200	0.3400	0.3880	0.4460
0.1605	0.1391	0.1732	0.2076	0.2547	0.0408	0.0449	0.0561	0.1078	0.1176	0.1343	0.1429	0.1673	0.1943
82 000	94 000	90 000	105 000	132 000	35000	45000	50000	45000	50000	60000	70000	85000	90000
08:01	08:01	08:01	08:01	08:01	10:01	10:01	10:01	10:01	10:01	08:01	08:01	08:01	08:01

4-800	3-900	4-1000	5-1000	6-1200	S3	S4	S5	D5	D6	D8	D10	D12	D15
30	30	36	36	42	20	24	24	24	24	30	30	30	30
36	36	42	42	48	24	30	30	30	30	36	36	36	36
42	42	48	48	54	30	36	36	36	36	42	42	42	42
72	84	72	72	72	72	84	84	84	84	84	84	84	84
72	84	72	72	72	66	72	72	84	84	84	84	84	84
72	72	72	72	72	54	60	66	72	84	84	84	84	84
30	32	36	36	48	18	20	20	24	30	36	36	36	36
24	26	30	32	40	16	18	18	20	24	24	30	30	30
20	20	24	26	32	14	16	16	18	20	20	24	24	24
20	20	24	26	32	14	16	16	18	20	20	24	24	24

4-800	3-900	4-1000	5-1000	6-1200	S3	S4	S5	D5	D6	D8	D10	D12	D15
690	765	870	870	1030	280	370	440	440	550	690	870	1060	1150
620	695	775	775	930	250	330	400	400	480	620	775	940	1050
36	34	38	42	48	18	20	24	20	30	36	36	36	36
30	28	32	36	42	16	18	20	18	24	24	30	30	30
24	22	26	30	36	14	16	18	16	20	20	24	24	24
11	11	12	12	12	10	10	10	12	14	15	16	17	18
14	14	14	16	20	9	10	12	13	15	16	18	20	22

GrainFlex is produced with an UsFlex™ carcass to provide maximum rip and tear resistance coupled with superior bolt retention properties.

Group	Family	Old	New
X Series®	UsFlex®	UsFlex	**UsFlex®**
		UsFlex W	**UsFlex W®**
		GrainMaster Supreme	**GrainFlex®**
		MineFlex	**MineFlex®**
		LongFlex	**LongFlex®**
		LongFlex W	**LongFlex W®**
		KordFlex	**KordFlex®**
		Double UsFlex	**Double UsFlex®**
		DynaBreaker	**DynaFlex®**
		PowerGuard (UsFlex Carcass)	**PowerFlex®**
	Nova-X®	NovaCore	**Nova-X®**
	Patriot X®	Patriot X	**Patriot X®**
Plylok	PlylokSupreme®	PSR	**Plylok Supreme®**
		MineHaul	**MineHaul Supreme®**
		LongHaul	**LongHaul Supreme®**
		GrainMaster	**GrainSupreme®**
		WoodMaster Supreme	**WoodSupreme®**
		PowerGuard (PSR Carcass)	**PowerSupreme®**
	PlylokMaster®	WoodMaster	**WoodMaster®**
		LogMaster	**LogMaster®**
		GrainMaster (RockMaster Carcass)	**GrainMaster®**
		RockMaster	**RockMaster®**
Specialty	Specialty	Dynaflight	**DynaFlight®**
		HotShot	**HotShot®**
		Royalon	**Royalon®**

Tough Belts for Tough Applications

Fenner Dunlop strives to be the premier provider of the safest and most reliable conveyor belting and services to the mining and industrial sectors. Through strategic acquisitions and investments, and a strong management and financial discipline, the company is well positioned to help customers grow over the long haul. Fenner Dunlop has over 150 years of proven belting manufacturing experience, along with 70 years of service solutions experience.

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Industrial and Mining Conveyor Belting Sales

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