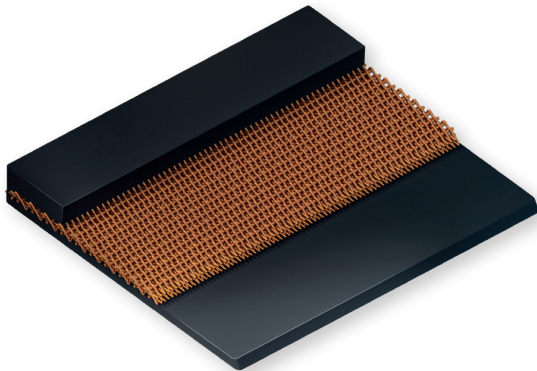


»»X SERIES ULTRAX

Economical solutions to expensive problems

Ultra X is a super strength abrasion resistant breaker weft construction single-ply belt that is exclusively made by Fenner Dunlop Conveyor Belting including the patented super-tough fabric, which is made in our in-house fabric weaving facility.



Crimp-Weave carcass

Advantages of Ultra X compared to typical 3-ply belting

- More than double the longitudinal rip resistance
- At least twice the level of tear resistance
- Far superior impact resistance
- Low elongation
- Up to 90% splice efficiency (using finger splice method)
- Excellent mechanical fastener retention and splice life
- Greater flexibility – can be used on smaller than usual pulleys

Super-tough ‘long life’ anti-abrasion covers

In addition to their outstanding rip, tear, puncture and impact resistance, Ultra X belts also provide the extended wear-life that our customers have come to expect from all Fenner Dunlop “Made in The Netherlands” conveyor belts. Ultra X belts are produced with Fenner Dunlop AA anti-abrasion covers as standard. This ensures excellent resistance against cutting and gouging with a resistance to abrasion that outperforms typical DIN Y (ISO 14890 L) requirements (average loss of less than 150 mm³) by as much as 30%.

Ultra X – Making the Right Selection

Ultra X1 is designed to replace 250/2, 315/2 and 400/3 multi-ply belts.

Ultra X3 is designed to replace 500/3, 500/4, 630/3 and 630/4 multi-ply belts.

Splice Strength Advantages

Ultra X is best joined using the finger splice method. This creates the strongest and most reliable joint possible by retaining up to 90% of tensile strength. This is because a step splice will always create a proportional ‘loss’ of tensile strength that is the equivalent of one ply. For example:

No. of plies	1	2	3	4	5
Maximum % tensile strength	90%	50%	67%	75%	80%



Ultra X
Light and medium duty
bulk material handling

Scan & See a Real
Customer Story!



Property	315/2	UX1	400/3	UF 400/1	500/4	UX3	630/4	UF 630/1
Longitudinal tensile strength (N/mm)	315	330	400	400	500	550	630	630
Max. operational tension spliced (N/mm)	157	297	268	360	375	495	472	567
Carcass thickness (mm)	2.4	1.8	2.9	2.3	4.0	2.9	4.3	3.5
Carcass weight (kg/m ²)	2.7	2.1	3.3	2.6	4.6	3.4	4.9	4.0
Min. rip resistance (N)	500	1500	750	3000	1000	2500	1250	5000
Min. tear resistance (N)	200	1000	500	2500	650	2000	1000	4000
Min. static fastener efficiency (%)	50	65	55	65	55	65	60	65
Average elongation at T1 (%)	0.8	0.6	1.0	0.9	1.0	0.6	0.9	1.2
Minimum pulley diameter for > 60% (mm)	250	250	315	315	500	400	500	400
Minimum width at 30 deg. trough (mm)	400	500	500	650	500	650	650	800
Max. width at 30 deg. trough (mm)	800	1200	1200	1600	1400	1600	1600	2200
Belt weight stock item (kg/m ²)	9.6	9.0	10.2	9.8	11.5	12.6	14.1	14.0

Belt type	Carcass thickness (mm)	Carcass weight (kg/m ²)	Pulley diameters			Min. cover thickness	Min. width (mm)	Max. belt width (mm) for satisfactory load support with material density of t/m ³ ⁽¹⁾			
			A (mm)	B (mm)	C (mm)			< 0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
Ultra X1	1.8	2.1	250	200	160	4 + 2	500	1200	1000	800	650
Ultra X3	2.9	3.4	400	315	250	6 + 2	650	1600	1400	1200	1000

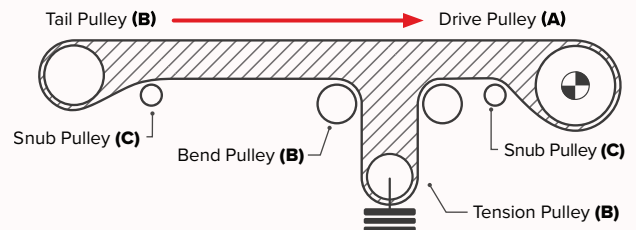
⁽²⁾ The load support of a belt is a factor of the belt width, belt strength and bulk material density. The table indicates the limits for correct load support, based on three idlers of the same length set at 30°.

1 Determine the total belt thickness.

Add the sum of the covers to the carcass thickness.

2 Determine the belt weight per m², excluding belts for which other weights apply

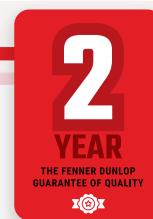
Multiply the sum of the covers by 1.15 and add the result to the carcass weight.



Real time belt monitoring

Protect your belt with Fenner Dunlop damage detection technology.

Offering real-time monitoring and automatic shutdown to lessen damage and reduce repair costs. Choose our monitoring solutions for seamless protection and efficiency.



Learn more about belt monitoring

