



DURALITE

THE STRONGEST, MOST EFFICIENT BELT AVAILABLE FOR SPIRAL CAGE APPLICATIONS

35% STRONGER • GREATER OPEN AREA



CAMBRIDGE
ENGINEERED SOLUTIONS

ENERGY EFFICIENT

**35%
STRONGER**
THAN OTHER
BELTS

DuraLite offers the highest strength-to-weight ratio available. It is twice as strong as rods-only belts and 35% stronger than standard 1" x 1" style belts.

**2X
OPEN AREA**
OF PLASTIC
BELTING

DuraLite's unique 3" x 1" interior mesh provides two times the open area of plastic belting, resulting in better air flow for more efficient cooling and freezing.

**40%
LIGHTER**
THAN STANDARD
BELTS

Even with its superior strength, DuraLite is up to 40% lighter than standard belts. This results in greater energy efficiency and less wear and tear on conveyor and cage components.

**EASY
TO CLEAN
& FOOD
SAFE**

The greater open area of DuraLite's mesh pattern makes the belt more hygienic and easy to clean.

APPLICATIONS

**STRAIGHT-
RUNNING OR
TURN/SPIRAL:**

COOLING

FREEZING

PROOFING

PROVEN RESULTS

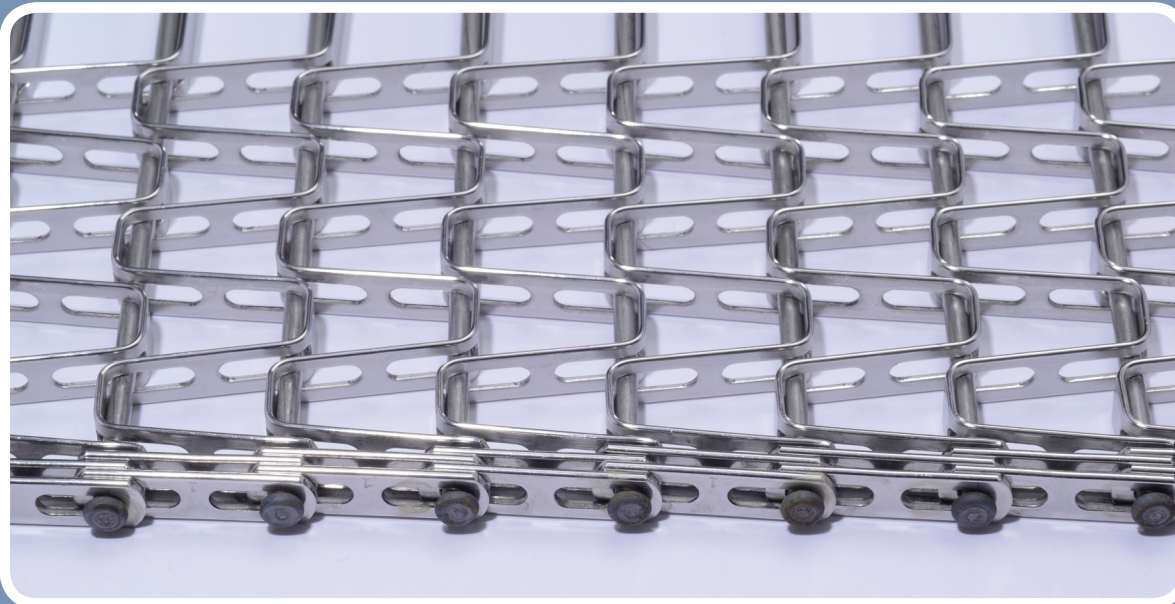
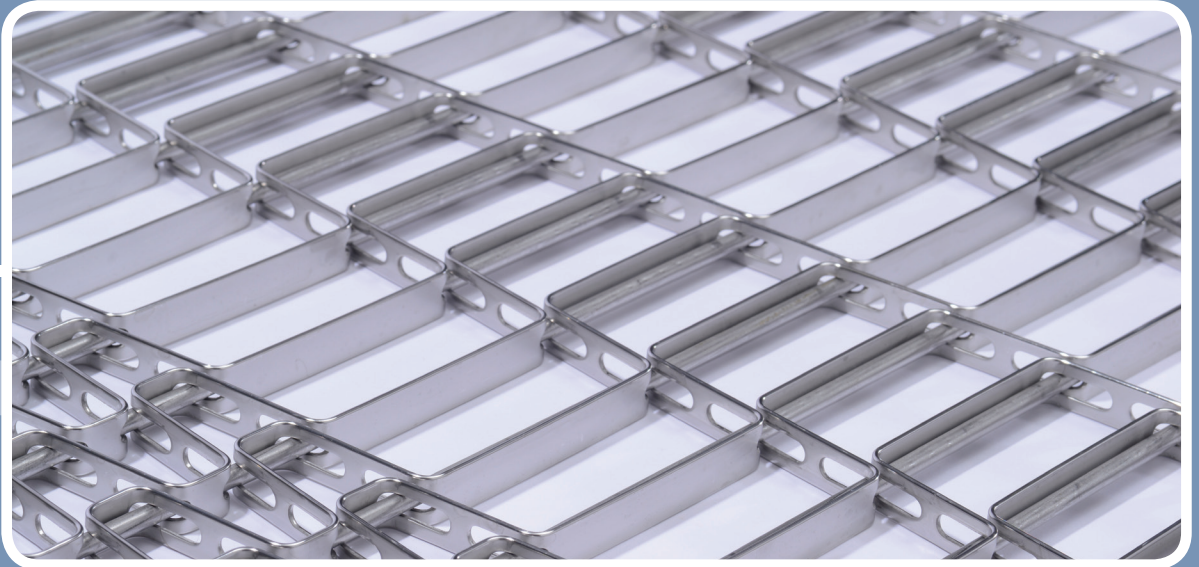


An ice cream manufacturer was using a belt that wasn't strong enough to meet their throughput goals. Cambridge installed Leading Edge DuraLite, which provided superior strength and carrying capacity. Throughput increased 28% and belt life was extended by two years.





**DURALITE
MESH PATTERN**



**BUTTON-HEAD
WELDS**



DURALITE SPROCKET
See page 4 for sprocket specifications



DURALITE IN A SPIRAL SYSTEM APPLICATION

DURALITE

TECHNICAL SPECIFICATIONS

DURALITE SPECIFICATIONS

BELT PITCH	1.33" (33.8 mm)
MESH SIZE	1" x 1" (nominal on outer edges) 3" x 1" (nominal) in the belt's interior
EXTRA HEAVY-DUTY FLAT STRIPS	0.5" x 0.0625" (12.7 mm x 1.59 mm)
EXTRA HEAVY-DUTY RODS	6 gauge – 0.192" (4.9 mm) diameter
OUTER EDGE CONSTRUCTION	Double extra heavy-duty reinforcing bars
BELT WIDTH RANGE	24" to 56" (610 mm to 1,422 mm) standard / Custom widths available
MATERIALS	Wear Resistant Stainless Steel (WRSS), T304 SS, T316 SS, High Carbon Steel (HCS)
WELDING	Button-head welds on rods
SPECIAL CONSTRUCTIONS	Side-plates, lane dividers, and flights available

DURALITE BELT WEIGHTS (*NON-REINFORCED)

BELT WIDTH		WEIGHT PER UNIT/ LENGTH OF BELT	
Inches	MM	Lbs./ Lin. Ft.	Kg/ Lin. M
24	610	4.73	7.04
26	660	5.08	7.56
28	711	5.43	8.08
30	762	5.78	8.60
32	813	6.13	9.12
34	864	6.48	9.64
36	914	6.83	10.16
38	965	7.17	10.67
40	1,106	7.52	11.19
42	1,067	7.87	11.71
44	1,118	8.22	12.23
46	1,168	8.57	12.75
48	1,219	8.92	13.28
50	1,270	9.27	13.80
52	1,321	9.62	14.32
54	1,372	9.97	14.84
56	1,422	10.31	15.34

*Weights do not include bar weights;
add reinforcing bar weight per
Rebar Weight Table to the right.

TENSION LIMITS FOR DURALITE BELTS

BELT MATERIAL	STRAIGHT RUNNING APPLICATIONS	TURN OR SPIRAL APPLICATIONS
WRSS	850 lbs. per ft. of width (1,264 kg per M of width)	400 lbs. tangential strength (181 kg)
T304 OR T316	650 lbs. per ft. of width (967 kg per M of width)	300 lbs. tangential strength (136 kg)
HIGH CARBON STEEL	850 lbs. per ft. of width (1,264 kg per M of width)	400 lbs. tangential strength (181 kg)

REBAR WEIGHT TABLE

TURN RATIO	RADIUS TYPE	ADD LBS./LIN. FT.	ADD KG/LIN. M
1.00 - 1.34	Super-tight	0.30	0.45
1.35 - 1.59	Tight	0.45	0.67
1.60 - 1.99	Reduced	0.50	0.74
2.00 - 2.39	Standard	0.60	0.89
2.40 - 2.80	Oversize	0.67	1.00

BELT TURNING RADIUS

DuraLite spiral system belts are available for cages with turning ratios from 1.0 to 2.8. The nominal inside turning radius is dependent on the reinforcing bar construction on the inside edge of the belt. Contact us for turn radii greater than 2.8X the belt width.

LEADING EDGE® DURALITE®

LEADING EDGE DURALITE

Leading Edge DuraLite is specifically designed for applications that operate under high tangential tension and/or require more carrying capacity.

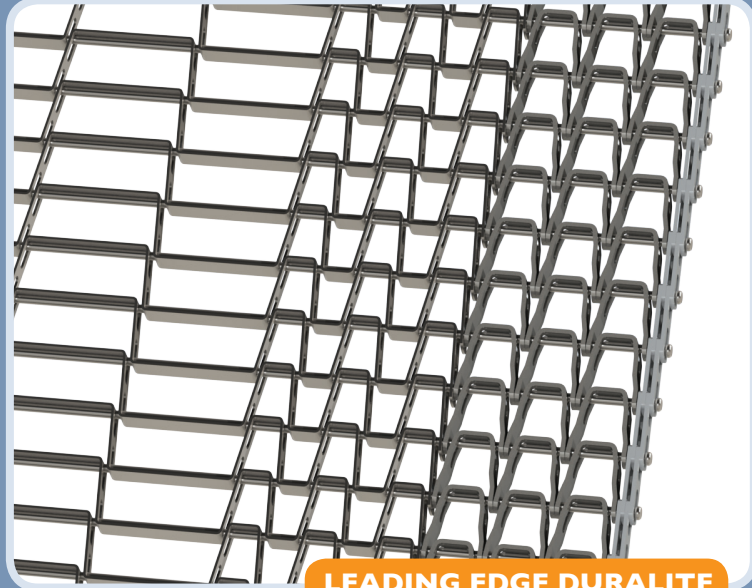
3X

STRONGER
THAN ROD-ONLY
BELTS

2X

STRONGER
THAN STANDARD
1" X 1" BELTS

Leading Edge DuraLite is constructed with double rows of heavy-duty reinforcing bars, plus three rows of heavy duty links on the outer edge.



LEADING EDGE DURALITE

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BELT WIDTH RANGE	24" to 56" (610 mm to 1,422 mm) standard / Custom widths available
MATERIALS	Wear Resistant Stainless Steel (WRSS), T304 SS, T316 SS, High Carbon Steel (HCS)
WELDING	Button-head welds on rods
SPECIAL CONSTRUCTIONS	Side-plates, lane dividers, and flights available
TRAVEL SPEED	Up to 150 feet per minute (45.7 M per minute)
TANGENTIAL TENSION RATING	At least 500 lbs. (272 kg)
WEIGHT-BEARING CAPACITY	15+ lbs. per linear foot (19.4 kg per linear meter)

DURALITE & LEADING EDGE DURALITE SPROCKETS

NOM. DIA.		NO. OF TEETH	OVERALL DIA.		PITCH DIA.		HUB DIA. (BOTTOM DIA.)		HUB LENGTH		BORE SIZE		FACE WIDTH		APPROX. WEIGHT	
IN	MM		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	LBS	KG
6	152.4	14	6.3	160.0	6.0	152.1	5.32	135.1	2.0	50.8	0.937 - 2.5	23.8 - 63.5	2.0	50.8	1.8	0.8

Materials: UHMW, Stainless Steel, High Carbon Steel (HCS)

CAMBRIDGE ENGINEERED SOLUTIONS

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