DIAMOND®
BY TIMKEN

DIAMOND® FOOD PACKAGING CHAIN

PACKAGING APPLICATIONS

- Beef
- Pork
- Poultry
- Cheese
- Processed Foods

PRODUCT FEATURES AND BENEFITS

Nickel-plated carbon steel offers protection in high humidity or wash down environments

Nickel plating establishes a corrosion resistant barrier to prevent rust

Carbon steel substrate provides strength and wear performance

Extended stainless steel pins resist corrosion when exposed to chemicals or acids

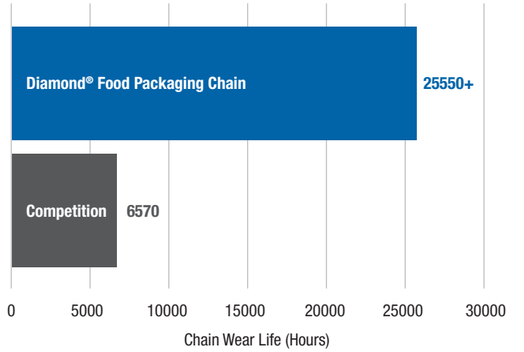
Diamond is committed to providing high-quality chains that perform in demanding and specialized applications.

Our Food Packaging Chain is designed to maximize the performance of your food packaging equipment, as well as numerous industrial applications.

WEAR LIFE PROJECTION ON FOOD PACKAGING EQUIPMENT

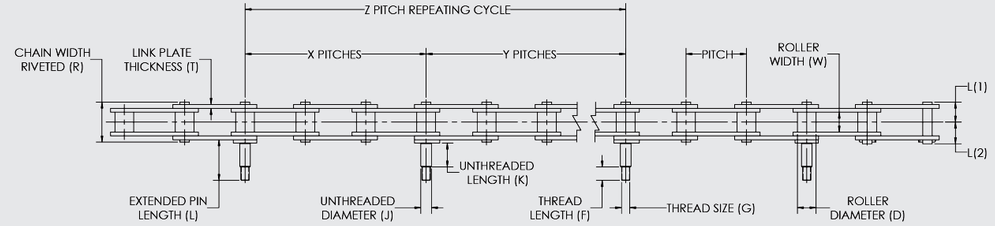
Diamond® Food Packaging Chain has been tested on customer equipment, running strong for three years in the application.

- Diamond® Food Packaging Chain (C2100H with 2 1/2" pitch) was tested on Cryovac®[1] Machine Number 8600-14EL
- In this application, chain elongation is measured in terms of take-up gap. As the chain elongates, the top and bottom chain strands come closer together as the tensioner (take-up mechanism) applies the same amount of load
- Starting out, Diamond Food Packaging Chain measured 32.27mm
- Three years later, the take-up gap was 24.85mm (16% elongated)
- Once the chain reaches 17mm (100% elongated), it will need to be replaced
- Diamond Food Packaging Chain lasted three years in the application before being taken out of service as the machine was decommissioned



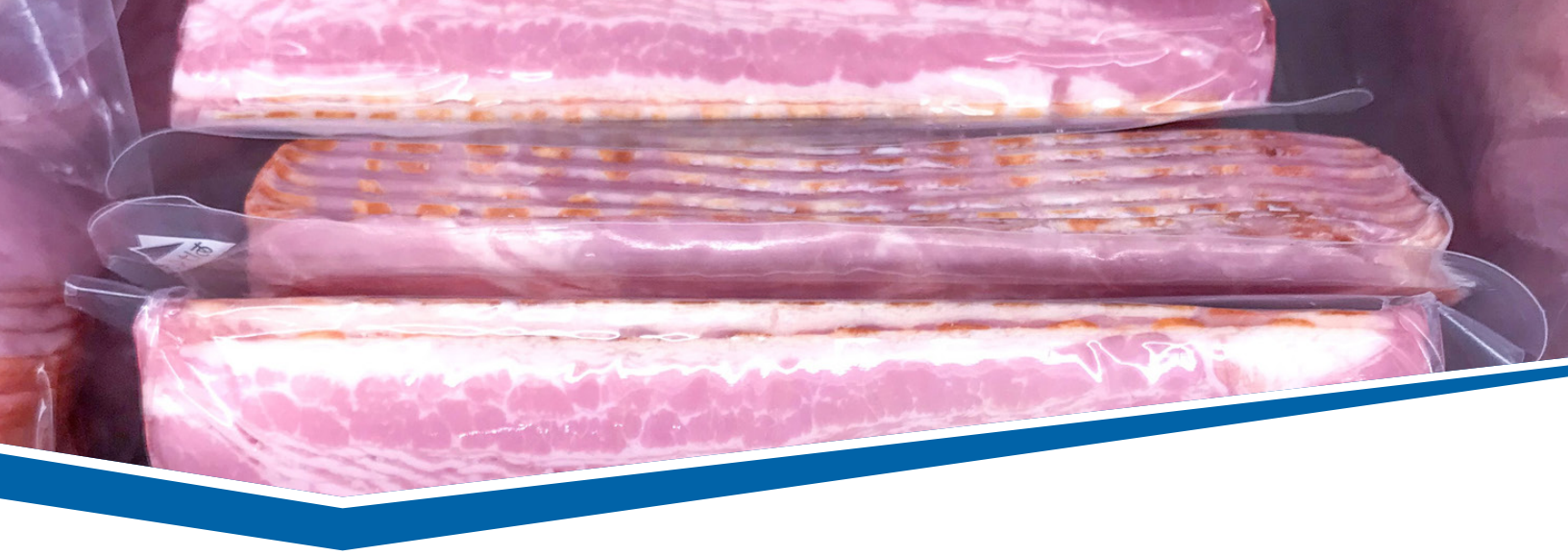
Field testing data based on competitor and Diamond® chain used on same machine in food packaging environments. **Actual results may vary.**

FOOD PACKAGING CHAIN OFFERINGS



Chain Number	Part Number	Cryovac®[1] Machine Number	Pitch	Roller Width (W)	Roller Diameter (D)	Linkplate Thickness (T)		Chain Width (R)	Roller Link Height (H)	Ext. Pin Spacing	Strand Length	Avg. Weight	Unthreaded Diameter (J)	Extended Pin Length (L)	Unthreaded Length (K)	Thread Size (G)
			in mm	in mm	in mm	in mm		in mm	in mm	Pitches	Pitches	lbs/ft kg/m	in mm	in mm	in mm	
C2100H	2-CHAIN KIT DMDC2100H-1R V NP-A	8600-14	**2.5** 63.50	**0.75** 19.05	**0.75** 19.05	**0.187** 4.75		**1.752** 44.50	**1.125** 31.75	Every 3rd and 8th	154	**2.75** 4.09	**0.375** 9.53	**1.812** 46.02	**1.00** 25.40	M8 x 1.25
C2100H	2-CHAIN KIT DMDC2100H-1R V NP-B	8600-14EL	**2.5** 63.50	**0.75** 19.05	**0.75** 19.05	**0.187** 4.75		**1.752** 44.50	**1.125** 31.75	Every 3rd and 12th	150	**2.5** 3.72	**0.375** 9.53	**1.812** 46.02	**1.00** 25.40	M8 x 1.25
C2100H	2-CHAIN KIT DMDC2100H-1R V NP-C	8600-14E	**2.5** 63.50	**0.75** 19.05	**0.75** 19.05	**0.187** 4.75		**1.752** 44.50	**1.125** 31.75	Every 3rd and 10th	156	**2.55** 3.79	**0.375** 9.53	**1.812** 46.02	**1.00** 25.40	M8 x 1.25
C2120H	2-CHAIN KIT DMDC2120H-1R V NP-A	8600-18	**3** 76.20	**1** 25.40	**0.875** 22.23	**0.219** 5.56		**2.13** 54.10	**1.375** 34.93	Every 3rd and 9th	144	**3.68** 5.48	**0.437** 11.10	**1.795** 45.59	**1.00** 25.40	M10 x 1.5
C2120H	2-CHAIN KIT DMDC2120H-1R V NP-B	8300-18	**3** 76.20	**1** 25.40	**0.875** 22.23	**0.219** 5.56		**2.13** 54.10	**1.375** 34.93	Every 3rd and 10th	130	**3.68** 5.48	**0.437** 11.10	**1.795** 45.59	**1.00** 25.40	M10 x 1.5
C2160H	2-CHAIN KIT DMDC2160H-1R V NP	8300-24	**4** 101.6	**1.25** 31.8	**1.125** 31.8	**0.281** 7.1		**2.68** 68.1	**1.875** 47.6	Every 3rd and 10th	130	**6.22** 9.26	**0.5615** 14.26	**1.84** 46.74	**1.00** 25.40	M10 x 1.5

1 Cryovac® is a registered trademark of Cryovac, LLC.



THE DIAMOND DIFFERENCE

Using high-quality materials leads to greater strength and durability.

- **Materials** – high-quality steel with minimal impurities offers increased tensile and fatigue strength
- **Fabrication** – exacting dimensional standards offer optimal performance by ensuring components fit together as precisely as possible
- **Heat Treatment** – strict atmosphere and quench control optimizes material properties to increase strength, durability and wear resistance
- **Shot Peening** – consistent shot peen intensity and coverage adds a layer of compressive stress, helping components resist fatigue failure when exposed to repeated high loads
- **Lubrication** – lubrication enhances corrosion protection and lessens the effects of friction to increase chain life
- **Preloading** – preloading of the finished product reduces initial run-in to extend chain wear life

We offer:

- **In-house manufacturing** – ensures production flexibility
- **Quality of service** – state of the art engineering includes research and development plus product testing
- **Availability** – most popular sizes in stock and ready for delivery

From concept, to production and throughout the life of the chain, we work hard and smart to solve industry-specific problems.

DIAMOND® BY TIMKEN

Diamond® chains are part of The Timken Company's portfolio of engineered bearings and industrial motion products.

www.diamonddrives.com