Pin Oven Chains for can industry
Pin Oven Chains for the production of beverage cans

For more than 30 years Regina has been manufacturing high quality Pin Oven Chains for the beverage two-piece can industry. Closely cooperating with leading can manufacturers, Regina has developed a specific know-how for this highly demanding application.

Developed from ANSI60/ISO12A roller chain, the Regina Pin Oven Chains are offered in standard (A60F) and O-Ring versions (A60FOR).

Different tip geometries and pin extensions are available to adapt to the specific can size.

TWO-PIECE CAN DECORATION OVEN

Pin Oven Chains are used to convey decorated and base coated cans through high speed & high heat ovens for the curing process.

APPLICATION LIMITS

- Max speed: up to 5 m/s (i.e. 2'250 cans/min)
- Max working temperature:
  - standard chain: 220° C / 428° F
  - O-Ring chain: 200° C / 392° F

PRODUCT FEATURES

Regina Pin Oven Chains are designed to withstand the highly demanding conditions of can decoration ovens.

- Each extended pin is fitted with a spring-loaded tip, manufactured in PEEK thermoplastic
- Chain pin surface is nitrided for higher wear resistance
- Chain clearances are optimized to allow steel expansion under high temperature and facilitate oil penetration
- Chain is supplied prelubricated with synthetic oil, suitable for high temperature
PRODUCT RANGE

STANDARD PIN OVEN CHAIN - 7” PIN EXTENSION

STANDARD A60F PIN OVEN CHAIN - 7” PIN EXTENSION

STANDARD A60F PIN OVEN CHAIN - SPECIAL PIN EXTENSIONS

REGINA Ref | ISO Ref base chain | PITCH | A = CENTER-LINE TO END OF PIN TIP | B = SIDE PLATE TO END OF PIN TIP | PIN TIP diameter | PIN TIP geometry* | PIN TIP material | SPRING |
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REGINA O-Ring Pin Oven Chains are built with O-Ring technology to seal the lubricant in the articulating joint and keep out contaminants. O-Ring technology reduces the amount of chain lubrication, resulting in less chance of can contamination. A minimal lubrication is still required to avoid varnish build up.

GREASE SUITABLE FOR HIGH TEMPERATURES

PRODUCT RANGE

O-RING PIN OVEN CHAIN

O-RING A60FOR PIN OVEN CHAIN - 7” EXTENSION

O-RING A60FOR PIN OVEN CHAIN - SPECIAL PIN EXTENSIONS

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CONICAL PIN TIPS

Standard PIN TIP is conical shaped with Ø21mm diameter x 27mm length.
It is made of PEEK thermoplastic, suitable for the high temperatures of curing ovens.
All contact edges with the can are rounded and the surface is polished to reduce the risk of scratches of the can’s inside walls.

TULIP PIN TIPS

The special rounded geometry of the tulip tip design reduces the specific pressure in the contact point between tip and can wall and dome.

SPECIAL PIN TIPS

On request, Regina can supply pin tips with special geometry to match the specific requirements of narrow or large cans.
Here below are some examples of special pin tip designs that can be supplied by Regina.

PIN OVEN CHAINS PACKAGING

Regina Pin Oven Chains are packed in dedicated boxes that protect the chains and the extended pins and guarantee deliveries in good condition.
Regina Pin Oven Chains are supplied in lengths of 6.4m/21ft (that means 336 links) containing 48 extended pins.
Each chain starts and finishes with a 3 pitches section and is supplied with a spring clip connecting link.

We stand at the forefront of technology, with a continued drive for sustainability to always achieve unique premium solutions, since 1919.

Today we proudly serve the leaders of each industry in which we operate and support our customers at a global level.

Regina. Performance in motion