

Extended Life CHP[®] Series Chain Products

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Extended Life CHP[®] Series Chain Products

Up until now there have been many attempts to produce roller chains capable of operating without lubrication. These attempts have focused on either sealing a fixed volume of lubricant inside the joint during manufacturing or by providing certain chain components produced from porous materials reported to retain and disperse lubricant as the chain requires. These types of solutions are often only offered in limited sizes and attachments may not be available.

Sealed joint chains are just that – sealed. Once the internal reservoir of lubricant is exhausted there is no method of replenishing that supply in service. Additionally, many environments are unsuitable for these type of chains due to speeds, loads, temperatures, chemicals or abrasives that can destroy or dislodge the seals.

Porous component chains are often hindered in similar ways as sealed chains. Typically, their ability to transmit high loads and their temperature ranges are limited. Some are produced with “rollers” by using a porous bushing material with a thicker cross-section and a “thinner” roller causing impact load issues. Dry, dusty or abrasive conditions can reduce the operating life of these types of products.

Chain elongation, due to wear, is the primary mode of failure in most roller chain drives. Wear is the result of abrasion between the pin and bushing. The rate of wear between these two components is often accelerated by the operating environment or the inability to adequately provide lubricant to these parts.

Until now...welcome to Extended Life CHP[®] Chain Series.



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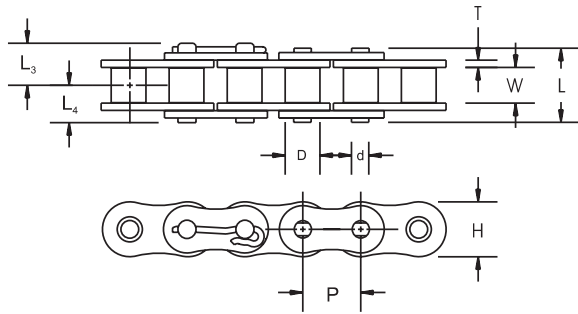
AMERICAN CHAIN
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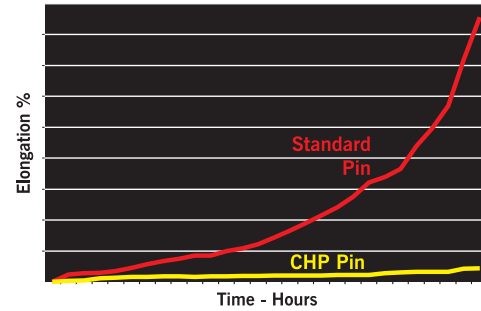


LICENSED UNDER
SPEC 7F-0022

Drives Extended Life CHP® Series Chain Products



Elongation vs. Time



Extended Life CHP® chains:

CHP hard chrome plated pins possess standard steel's metallurgical properties for toughness and strength while delivering an extremely hard wear resistant pin surface. CHP chain pins resist wear longer than standard heat treated pins, even in dry and abrasive environments.

- CHP chain is directly interchangeable with standard ANSI chain
- Outstanding wear and shock load performance even at elevated temperatures
- No reduction in working loads or operating speeds
- Exceptional pin wear resistance reduces chain elongation and can increase wear life by 3X over conventional premium chains
- Full range of ANSI standard attachments available

| Drives | Pitch | Width Between L.P. | Roller Diameter | Average Weight |
|-----------|-------|--------------------|-----------------|----------------|
| Chain No. | P | W | D | Lb./Ft. |
| 40 | 0.500 | 0.313 | 0.313 | 0.420 |
| 50 | 0.625 | 0.376 | 0.400 | 0.713 |
| 60 | 0.750 | 0.500 | 0.469 | 1.067 |
| 80 | 1.000 | 0.627 | 0.625 | 1.868 |
| 100 | 1.250 | 0.755 | 0.750 | 2.801 |
| 120 | 1.500 | 1.000 | 0.875 | 4.135 |
| 140 | 1.750 | 1.000 | 1.000 | 5.136 |
| 160 | 2.000 | 1.250 | 1.126 | 6.603 |
| 180 | 2.250 | 1.400 | 1.406 | 9.100 |
| 200 | 2.500 | 1.490 | 1.562 | 10.900 |
| 240 | 3.000 | 1.864 | 1.875 | 16.400 |
| C2040 | 1.000 | 0.312 | 0.312 | 0.340 |
| C2050 | 1.250 | 0.376 | 0.400 | 0.580 |
| C2060H | 1.500 | 0.500 | 0.470 | 1.010 |
| C2080H | 2.000 | 0.625 | 0.625 | 1.204 |

NOTE:

- CHP offsets available on a made-to-order basis. Two pitch riveted offsets recommended.
- Cotter type connecting links standard for CHP chains.
 - 40 thru 60 pitch dual cotter key
 - 80 thru 180 pitch hardened hook cotter
 - 200 thru 240 pitch coated T-pin
- Available in single and multiple strand sizes - #40 to #240.
- Riveted or cottered pins available depending on size.
- Corrosion resistant finishes available upon request for remaining chain components.

- * Drives Engineering and the American Chain Association (ACA) recommend sprockets and roller chain changed out at the same time.
- * Drives recommends operating roller chain with periodic lubrication and maintenance review. Various lubricants are available including food grade and no "stain", depending on application.
- * CHP products contain no Hexavalent Chromium, which can be hazardous to the environment.
- * Product specifications subject to change without notice.





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