

# SKF Xtra Corrosion Resistant Chains

## Stainless steel chains

Stainless steel chains have superior corrosion resistance for the most demanding applications. SKF offers a variety of such chains for applications where a high level of cleanliness is required or harsh chemicals are used. SKF stainless steel chains are made from SS304 grade steel for high corrosion resistance and are available in BS and ANSI standards. SS316 and other stainless steel grades are available for higher temperature applications. The SS316 stainless steel is somewhat more resistant to the effects of magnetic permeability, temperature extremes and harsher chemicals.

## Application

These chains are suitable for food processing, pharmaceutical, high/low temp (–20 to 400 °C) and corrosive environments.

Stainless steel chains can be manufactured to withstand temperatures up to 1 000 °C with the addition of special lubricant.

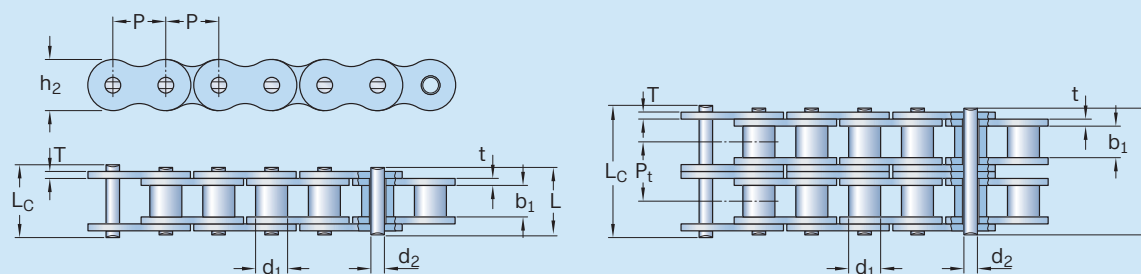


*Stainless steel chains used in a cheese processing plant*



*Anti corrosive chains are either made of stainless steel or are covered with a special coating*

## SKF Xtra Corrosion Resistant Chains



| Chain number               | Dimensions |                    |                            |                    |            | Inner plate height | Plate thickness    |       |       | Ultimate tensile strength | Weight per meter | Designation    |   |
|----------------------------|------------|--------------------|----------------------------|--------------------|------------|--------------------|--------------------|-------|-------|---------------------------|------------------|----------------|---|
|                            | Pitch      | Roller diameter    | Width between inner plates | Pin diameter       | Pin length |                    | t max              | T max | Q min |                           |                  |                | q |
|                            | P          | d <sub>1</sub> max | b <sub>1</sub> min         | d <sub>2</sub> max | L max      | L <sub>c</sub> max | h <sub>2</sub> max | t max | T max | Q min                     | q                |                |   |
|                            | mm         |                    |                            |                    |            |                    |                    |       |       |                           | kN               | kg/m           | - |
| <b>25-1SS1</b>             | 6,350      | 3,30               | 3,18                       | 2,31               | 7,90       | 8,40               | 6,00               | 0,80  | 0,80  | 2,5                       | 0,15             | PHC 25-1SS...  |   |
| <b>35-1SS1</b>             | 9,525      | 5,08               | 4,77                       | 3,58               | 12,40      | 13,17              | 9,00               | 1,30  | 1,30  | 5,5                       | 0,33             | PHC 35-1SS...  |   |
| <b>40-1SS</b>              | 12,700     | 7,95               | 7,85                       | 3,96               | 16,60      | 17,80              | 12,00              | 1,50  | 1,50  | 9,6                       | 0,63             | PHC 40-1SS...  |   |
| <b>41-1SS</b>              | 12,700     | 7,77               | 6,25                       | 3,58               | 13,75      | 15,00              | 9,91               | 1,30  | 1,30  | 6,0                       | 0,46             | PHC 41-1SS...  |   |
| <b>50-1SS</b>              | 15,875     | 10,16              | 9,40                       | 5,08               | 20,70      | 22,20              | 15,09              | 2,03  | 2,03  | 15,2                      | 1,03             | PHC 50-1SS...  |   |
| <b>60-1SS</b>              | 19,050     | 11,91              | 12,57                      | 5,94               | 25,90      | 27,70              | 18,00              | 2,42  | 2,42  | 21,7                      | 1,51             | PHC 60-1SS...  |   |
| <b>80-1SS</b>              | 25,400     | 15,88              | 15,75                      | 7,92               | 32,70      | 35,00              | 24,00              | 3,25  | 3,25  | 38,9                      | 2,62             | PHC 80-1SS...  |   |
| <b>100-1SS</b>             | 31,750     | 19,05              | 18,90                      | 9,53               | 40,40      | 44,70              | 30,00              | 4,00  | 4,00  | 60,0                      | 3,94             | PHC 100-1SS... |   |
| <b>120-1SS</b>             | 38,100     | 22,23              | 25,22                      | 11,10              | 50,30      | 54,30              | 35,70              | 4,80  | 4,80  | 72,5                      | 5,72             | PHC 120-1SS... |   |
| <b>140-1SS</b>             | 44,450     | 25,40              | 25,22                      | 12,70              | 54,40      | 59,00              | 41,00              | 5,60  | 5,60  | 94,0                      | 7,70             | PHC 140-1SS... |   |
| <b>04B-1SS</b>             | 6,000      | 4,00               | 2,80                       | 1,85               | 6,80       | 7,80               | 5,00               | 0,60  | 0,60  | 2,0                       | 0,11             | PHC 04B-1SS... |   |
| <b>05B-1SS</b>             | 8,000      | 5,00               | 3,00                       | 2,31               | 8,20       | 8,90               | 7,10               | 0,80  | 0,80  | 3,5                       | 0,20             | PHC 05B-1SS... |   |
| <b>06B-1SS<sup>2</sup></b> | 9,525      | 6,35               | 5,72                       | 3,28               | 13,15      | 14,10              | 8,20               | 1,30  | 1,30  | 6,2                       | 0,41             | PHC 06B-1SS... |   |
| <b>08B-1SS</b>             | 12,700     | 8,51               | 7,75                       | 4,45               | 16,70      | 18,20              | 11,80              | 1,60  | 1,60  | 12,0                      | 0,70             | PHC 08B-1SS... |   |
| <b>10B-1SS</b>             | 15,875     | 10,16              | 9,65                       | 5,08               | 19,50      | 20,90              | 14,70              | 1,70  | 1,70  | 14,5                      | 0,94             | PHC 10B-1SS... |   |
| <b>12B-1SS</b>             | 19,050     | 12,07              | 11,68                      | 5,72               | 22,50      | 24,20              | 16,00              | 1,85  | 1,85  | 18,5                      | 1,16             | PHC 12B-1SS... |   |
| <b>16B-1SS</b>             | 25,400     | 15,88              | 17,02                      | 8,28               | 36,10      | 37,40              | 21,00              | 4,15  | 3,10  | 40,0                      | 2,73             | PHC 16B-1SS... |   |
| <b>20B-1SS</b>             | 31,750     | 19,05              | 19,56                      | 10,19              | 41,30      | 45,00              | 26,40              | 4,50  | 3,50  | 59,0                      | 3,73             | PHC 20B-1SS... |   |
| <b>24B-1SS</b>             | 38,100     | 25,40              | 25,40                      | 14,63              | 53,40      | 57,80              | 33,20              | 6,00  | 4,80  | 104,0                     | 7,20             | PHC 24B-1SS... |   |
| <b>32B-1SS</b>             | 50,800     | 29,21              | 30,99                      | 17,81              | 66,00      | 71,00              | 42,00              | 7,00  | 6,00  | 150,0                     | 10,22            | PHC 32B-1SS... |   |

<sup>1</sup> Bushing chain: d<sub>1</sub> indicates external diameter of bushing.

<sup>2</sup> Straight side plates.

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 5 m box of 80-1SS is PHC 80-1SSX5MTR. For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.