

# CP (Chromized pin)

For tough and abrasive applications



High  
performance  
lubrication

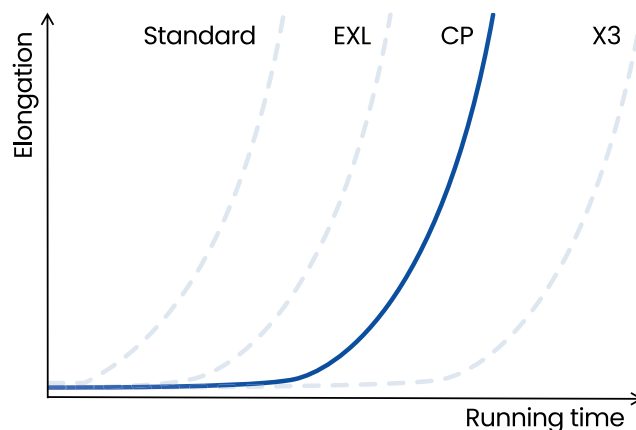
Low friction

Extremely hard  
chromized pins

Long service life

## CP (Chromized pin)

Chromized pin chain delivers a longer wear life compared to standard roller chains. This durability is achieved through the use of chromized pins, which feature a surface hardness of  $\pm 1100$  HV. The chrome coating on the pins creates an exceptionally hard surface and enhances the chain's resistance to wear. The combination of chromized pins and the high performance lubrication makes the chain perfect for tough and abrasive applications. The CP chain also offers improved protection against stiff joints.

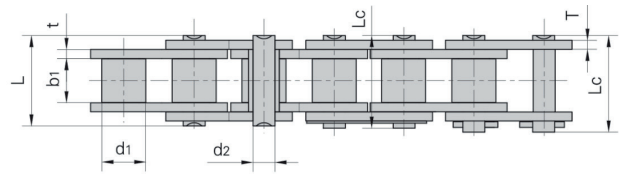
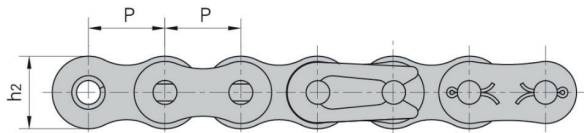


### Technical highlights

- Extremely hard pin surface of  $\pm 1100$  HV
- Shot peened parts
- Long service life
- Low friction between pin and bush
- Good corrosion resistance of chromized pin
- Good solution for tough and abrasive applications
- High speed applications
- Chains are pre-loaded at 40 to 50% of the breaking load
- Pre-lubricated with high performance DH-3 (temperature range  $-5$  to  $120$  °C)
- Alternative lubricants available for special applications upon request

### Industries

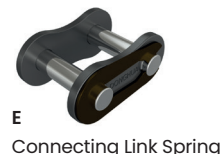
- Agricultural machinery
- Brick manufacture
- Ceramics
- Cementitious environments
- Metal working



| Donghua Chain no. |        |                 | Width between inner plates |              |            |        |                   |                 | Tensile strength |                 |           |                  |
|-------------------|--------|-----------------|----------------------------|--------------|------------|--------|-------------------|-----------------|------------------|-----------------|-----------|------------------|
|                   | Pitch  | Roller diameter |                            | Pin diameter | Pin length |        | Inner plate depth | Plate thickness | Acc. to ISO      | Acc. to Donghua |           | Weight per meter |
|                   | P      | d1 max          | b1 min                     | d2 max       | L max      | Lc max | h2 max            | t/T max         | F min            | F min           | F Average | q                |
|                   | mm     | mm              | mm                         | mm           | mm         | mm     | mm                | mm              | kN               | kN              | kN        | kg/m             |
| BS-Simplex        |        |                 |                            |              |            |        |                   |                 |                  |                 |           |                  |
| #06B-1 CP         | 9,525  | 6,35            | 5,72                       | 3,28         | 13,15      | 14,10  | 8,20              | 1,30            | 9,00             | 9,40            | 10,40     | 0,41             |
| 08B-1 CP          | 12,700 | 8,51            | 7,75                       | 4,45         | 16,70      | 18,20  | 11,80             | 1,60            | 18,00            | 18,0            | 19,40     | 0,69             |
| 10B-1 CP          | 15,875 | 10,16           | 9,65                       | 5,08         | 19,50      | 20,90  | 14,70             | 1,70            | 22,40            | 24,80           | 27,50     | 0,93             |
| 12B-1 CP          | 19,050 | 12,07           | 11,68                      | 5,72         | 22,50      | 24,20  | 16,00             | 1,85            | 29,00            | 29,00           | 32,20     | 1,15             |
| 16B-1 CP          | 25,400 | 15,88           | 17,02                      | 8,28         | 36,10      | 37,40  | 21,00             | 4,15/3,1        | 60,00            | 69,40           | 77,10     | 2,71             |
| 20B-1 CP          | 31,750 | 19,05           | 19,56                      | 10,19        | 41,30      | 45,00  | 26,40             | 4,5/3,5         | 95,00            | 101,50          | 112,80    | 3,70             |
| 24B-1 CP          | 38,100 | 25,40           | 25,40                      | 14,63        | 53,40      | 57,80  | 33,20             | 6,0/4,8         | 160,00           | 160,20          | 178,00    | 7,10             |
| 28B-1 CP          | 44,450 | 27,94           | 30,99                      | 15,90        | 65,10      | 69,50  | 36,70             | 7,5/6,0         | 200,00           | 212,80          | 236,40    | 8,50             |
| 32B-1 CP          | 50,800 | 29,21           | 30,99                      | 17,81        | 66,00      | 71,00  | 42,00             | 7,0/6,0         | 250,00           | 250,00          | 277,50    | 10,25            |
| ANSI-Simplex      |        |                 |                            |              |            |        |                   |                 |                  |                 |           |                  |
| *35-1 CP          | 9,525  | 5,08            | 4,77                       | 3,58         | 12,40      | 13,17  | 9,00              | 1,30            | 7,90             | 10,20           | 11,30     | 0,33             |
| 41-1 CP           | 12,700 | 7,77            | 6,25                       | 3,58         | 13,75      | 15,00  | 9,91              | 1,30            | 6,67             | 11,30           | 12,60     | 0,41             |
| 40-1 CP           | 12,700 | 7,95            | 7,85                       | 3,96         | 16,60      | 17,80  | 12,00             | 1,50            | 14,10            | 16,70           | 18,60     | 0,62             |
| 50-1 CP           | 15,870 | 10,16           | 9,40                       | 5,08         | 20,70      | 22,20  | 15,09             | 2,03            | 22,20            | 28,20           | 31,30     | 1,02             |
| 60-1 CP           | 19,050 | 11,91           | 12,57                      | 5,94         | 25,90      | 27,70  | 18,00             | 2,42            | 31,80            | 38,90           | 43,20     | 1,50             |
| 80-1 CP           | 25,400 | 15,88           | 15,75                      | 7,92         | 32,70      | 35,00  | 24,00             | 3,25            | 56,70            | 66,90           | 74,30     | 2,60             |
| 100-1 CP          | 31,750 | 19,05           | 18,90                      | 9,53         | 40,40      | 44,70  | 30,00             | 4,00            | 88,50            | 96,80           | 107,60    | 3,91             |
| 120-1 CP          | 38,100 | 22,23           | 25,22                      | 11,10        | 50,30      | 54,30  | 35,70             | 4,80            | 127,00           | 146,80          | 163,10    | 5,62             |
| 140-1 CP          | 44,450 | 25,40           | 25,22                      | 12,70        | 54,40      | 59,00  | 41,00             | 5,60            | 172,40           | 200,30          | 222,50    | 7,50             |
| 160-1 CP          | 50,800 | 28,58           | 31,55                      | 14,27        | 64,80      | 69,60  | 47,80             | 6,40            | 226,80           | 240,20          | 266,90    | 10,10            |

\*Bush chain: d1 in the table indicates the external diameter of the bush

#Straight side plates



## Notes

- Duplex & Triplex chains are available in all sizes.
- Double pitch conveyor chains are available on request.
- Attachment and extended pins are available on request.
- Chains with straight side plates are available.
- Different sizes are available on request.

## Contact

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