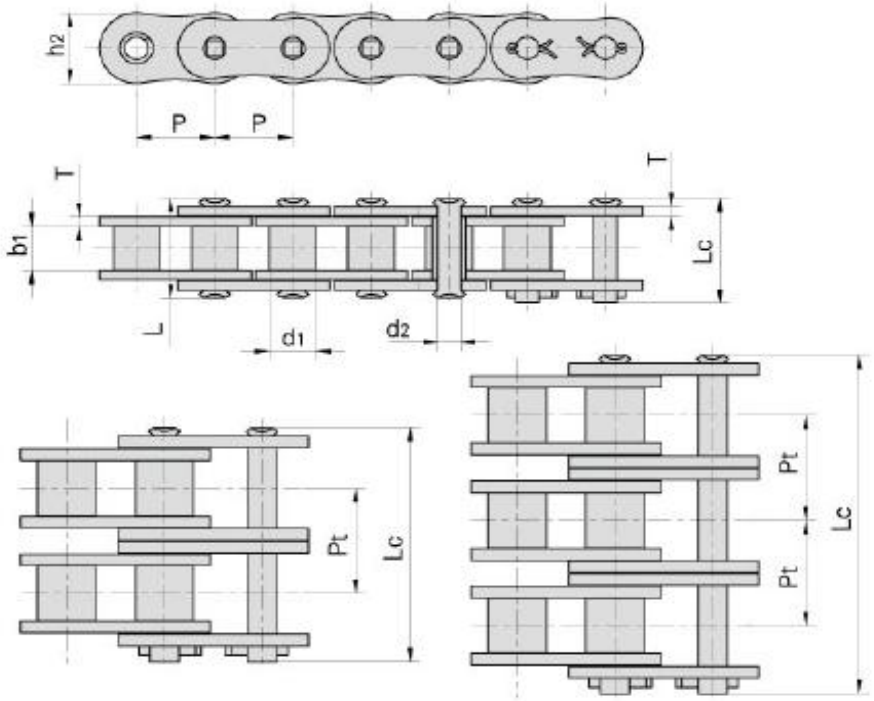
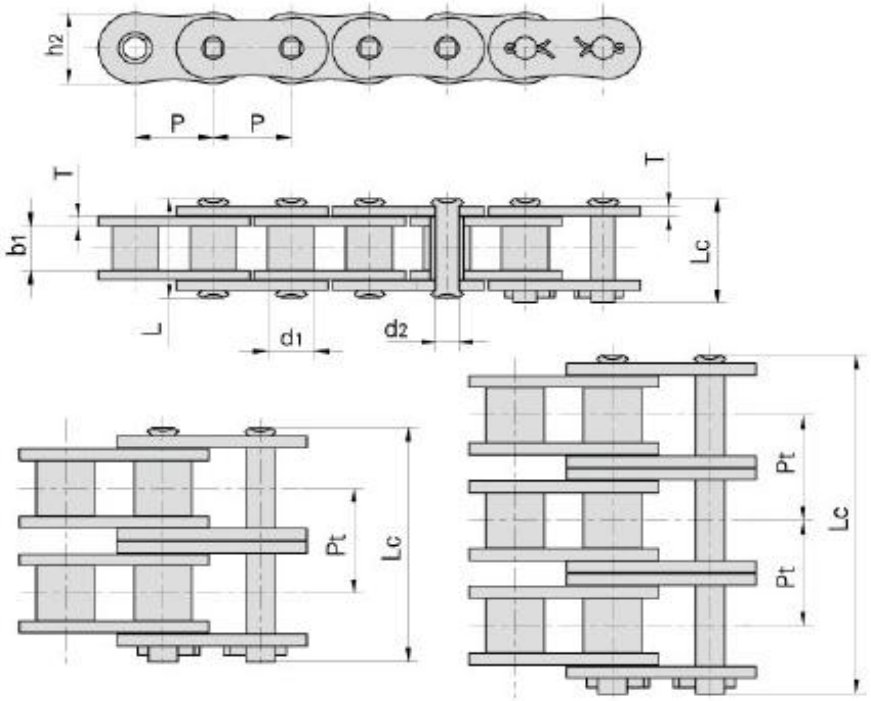
# SP series high strength short pitch roller chains



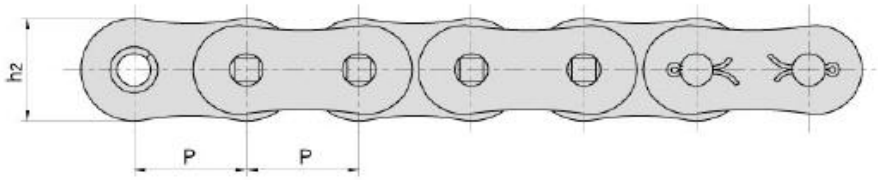

| Chain no. | Pitch | Roller diameter | Width between inner plates | Pin diameter | Pin length | | Inner plate depth | Plate thickness | Transverse pitch | Ultimate tensile strength | Average tensile strength | Weight per meter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P | d1 max | b1 min | d2 max | L max | Lc max | h2 max | T | Pt | Q min | Qo | q |
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | kN/LB | kN | kg/m |
| 80SP-1 | 25.40 | 15.88 | 15.75 | 7.94 | 32.7 | 36.5 | 24.1 | 3.2 | _ | 77.5/17434 | 85.3 | 2.86 |
| 100SP-1 | 31.75 | 19.05 | 18.95 | 9.54 | 40.4 | 44.7 | 30.1 | 4.0 | _ | 115.5/25982 | 127.0 | 4.21 |
| 120SP-1 | 38.10 | 22.23 | 25.22 | 11.11 | 50.3 | 54.3 | 36.2 | 4.8 | _ | 165.0/37118 | 186.0 | 6.36 |
| 140SP-1 | 44.45 | 25.40 | 25.22 | 12.71 | 54.4 | 59.0 | 42.2 | 5.6 | _ | 222.7/50098 | 245.0 | 8.04 |
| 160SP-1 | 50.80 | 28.58 | 31.55 | 14.29 | 64.8 | 69.6 | 48.2 | 6.4 | _ | 285.5/64215 | 314.0 | 10.80 |
| 200SP-1 | 63.50 | 39.68 | 37.85 | 19.85 | 80.3 | 87.2 | 60.3 | 8.0 | _ | 445.5/100208 | 490.0 | 18.00 |
| 80SP-2 | 25.40 | 15.88 | 15.75 | 7.94 | 62.7 | 65.8 | 24.1 | 3.2 | 29.29 | 155.0/34868 | 170.6 | 5.68 |
| 100SP-2 | 31.75 | 19.05 | 18.95 | 9.54 | 76.4 | 80.5 | 30.1 | 4.0 | 35.76 | 231.0/51965 | 255.0 | 8.34 |
| 120SP-2 | 38.10 | 22.23 | 25.22 | 11.11 | 95.8 | 99.7 | 36.2 | 4.8 | 45.44 | 339.0/76260 | 373.0 | 12.63 |
| 140SP-2 | 44.45 | 25.40 | 25.22 | 12.71 | 103.3 | 107.9 | 42.2 | 5.6 | 48.87 | 445.5/100218 | 490.0 | 15.92 |
| 160SP-2 | 50.80 | 28.58 | 31.55 | 14.29 | 123.3 | 128.1 | 48.2 | 6.4 | 58.55 | 571.0/128430 | 628.0 | 21.43 |
| 200SP-2 | 63.50 | 39.68 | 37.85 | 19.85 | 151.9 | 158.8 | 60.3 | 8.0 | 71.55 | 892.0/200621 | 981.0 | 35.00 |
| 80SP-3 | 25.40 | 15.88 | 15.75 | 7.94 | 91.7 | 95.1 | 24.1 | 3.2 | 29.29 | 232.5/52302 | 255.9 | 8.18 |
| 100SP-3 | 31.75 | 19.05 | 18.95 | 9.54 | 112.2 | 116.3 | 30.1 | 4.0 | 35.76 | 347.3/78128 | 382.0 | 12.47 |
| 120SP-3 | 38.10 | 22.23 | 25.22 | 11.11 | 141.4 | 145.2 | 36.2 | 4.8 | 45.44 | 508.0/114278 | 559.0 | 18.90 |
| 140SP-3 | 44.45 | 25.40 | 25.22 | 12.71 | 152.2 | 156.8 | 42.2 | 5.6 | 48.87 | 668.0/150271 | 735.0 | 23.84 |
| 160SP-3 | 50.80 | 28.58 | 31.55 | 14.29 | 181.8 | 186.6 | 48.2 | 6.4 | 58.55 | 855.5/192441 | 941.0 | 32.10 |
| 200SP-3 | 63.50 | 39.68 | 37.85 | 19.85 | 223.5 | 230.4 | 60.3 | 8.0 | 71.55 | 1336.4/300633 | 1470.0 | 52.50 |

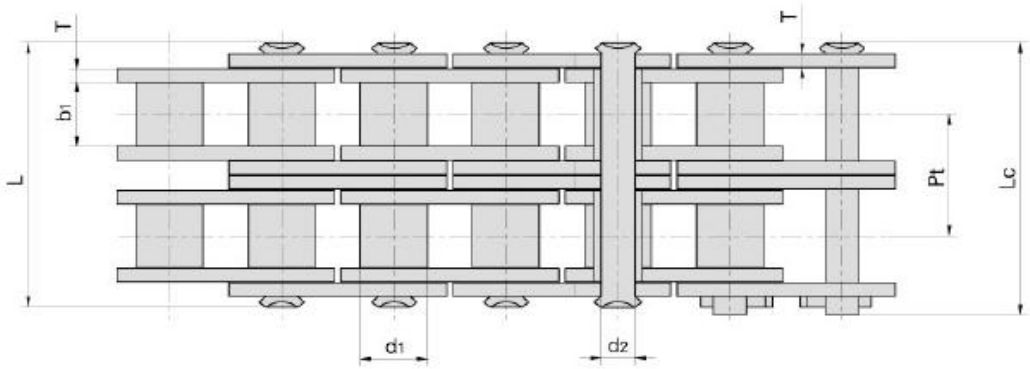
# SP series high strength heavy duty short pitch roller chains




| Chain no. | Pitch | Roller diameter | Width between inner plates | Pin diameter | Pin length | | Inner plate depth | Plate thickness | Transverse pitch | Ultimate tensile strength | Average tensile strength | Weight per meter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P | d1 max | b1 min | d2 max | L max | Lc max | h2 max | T | Pt | Q min | Qo | q |
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | kN/LB | kN | kg/m |
| 80HSP-1 | 25.40 | 15.88 | 15.75 | 7.94 | 36.2 | 38.9 | 24.1 | 4.0 | _ | 89.2/20066 | 98.1 | 3.36 |
| 100HSP-1 | 31.75 | 19.05 | 18.95 | 9.54 | 43.6 | 46.9 | 30.1 | 4.8 | _ | 131.8/29649 | 145.0 | 4.90 |
| 120HSP-1 | 38.10 | 22.23 | 25.22 | 11.11 | 53.5 | 57.5 | 36.2 | 5.6 | _ | 176.0/39592 | 196.0 | 7.12 |
| 140HSP-1 | 44.45 | 25.40 | 25.22 | 12.71 | 57.6 | 62.2 | 42.2 | 6.4 | _ | 231.9/52149 | 255.0 | 8.88 |
| 160HSP-1 | 50.80 | 28.58 | 31.55 | 14.29 | 68.2 | 73.0 | 48.2 | 7.2 | _ | 294.5/66260 | 324.0 | 11.72 |
| 200HSP-1 | 63.50 | 39.68 | 37.85 | 19.85 | 86.6 | 93.5 | 60.3 | 9.5 | _ | 543.6/122295 | 598.0 | 19.80 |
| 80HSP-2 | 25.40 | 15.88 | 15.75 | 7.94 | 68.8 | 72.0 | 24.1 | 4.0 | 32.59 | 178.4/40132 | 196.2 | 6.65 |
| 100HSP-2 | 31.75 | 19.05 | 18.95 | 9.54 | 82.7 | 86.0 | 30.1 | 4.8 | 39.09 | 263.6/59299 | 290.0 | 9.71 |
| 120HSP-2 | 38.10 | 22.23 | 25.22 | 11.11 | 102.4 | 106.4 | 36.2 | 5.6 | 48.87 | 356.4/80175 | 392.0 | 14.12 |
| 140HSP-2 | 44.45 | 25.40 | 25.22 | 12.71 | 109.8 | 114.4 | 42.2 | 6.4 | 52.20 | 463.6/104300 | 510.0 | 17.38 |
| 160HSP-2 | 50.80 | 28.58 | 31.55 | 14.29 | 130.1 | 134.9 | 48.2 | 7.2 | 61.90 | 588.0/132275 | 647.0 | 23.00 |
| 200HSP-2 | 63.50 | 39.68 | 37.85 | 19.85 | 164.9 | 171.8 | 60.3 | 9.5 | 78.31 | 1091.0/245429 | 1200.0 | 38.50 |
| 80HSP-3 | 25.40 | 15.88 | 15.75 | 7.94 | 101.4 | 104.6 | 24.1 | 4.0 | 32.59 | 267.6/60200 | 294.3 | 9.95 |
| 100HSP-3 | 31.75 | 19.05 | 18.95 | 9.54 | 121.8 | 125.1 | 30.1 | 4.8 | 39.09 | 395.4/88948 | 435.0 | 14.53 |
| 120HSP-3 | 38.10 | 22.23 | 25.22 | 11.11 | 151.2 | 155.2 | 36.2 | 5.6 | 48.87 | 534.5/120250 | 588.0 | 21.12 |
| 140HSP-3 | 44.45 | 25.40 | 25.22 | 12.71 | 162.0 | 166.6 | 42.2 | 6.4 | 52.20 | 695.5/156448 | 765.0 | 25.88 |
| 160HSP-3 | 50.80 | 28.58 | 31.55 | 14.29 | 192.0 | 196.8 | 48.2 | 7.2 | 61.90 | 882.7/198576 | 971.0 | 34.22 |
| 200HSP-3 | 63.50 | 39.68 | 37.85 | 19.85 | 243.2 | 250.1 | 60.3 | 9.5 | 78.31 | 1627.3/366073 | 1790.0 | 57.29 |

# SP series high strength heavy duty short pitch roller chains




| Chain no. | Pitch | Roller diameter | Width between inner plates | Pin diameter | Pin length | | Inner plate depth | Plate thickness | Transverse pitch | Ultimate tensile strength | Average tensile strength | Weight per meter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P | d1 max | b1 min | d2 max | L max | Lc max | h2 max | T | Pt | Q min | Qo | q |
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | kN/LB | kN | kg/m |
| 80SPE-2 | 25.40 | 15.88 | 15.75 | 7.94 | 62.7 | 65.8 | 24.1 | 3.2 | 29.29 | 155.0/34868 | 170.6 | 5.68 |
| 100SPE-2 | 31.75 | 19.05 | 18.95 | 9.54 | 76.4 | 80.5 | 30.1 | 4.0 | 35.76 | 231.0/51965 | 255.0 | 8.34 |
| 120SPE-2 | 38.10 | 22.23 | 25.22 | 11.11 | 95.8 | 99.7 | 36.2 | 4.8 | 45.44 | 339.0/76260 | 373.0 | 12.63 |
| 140SPE-2 | 44.45 | 25.40 | 25.22 | 12.71 | 103.3 | 107.9 | 42.2 | 5.6 | 48.87 | 445.5/100218 | 490.0 | 15.92 |
| 160SPE-2 | 50.80 | 28.58 | 31.55 | 14.29 | 123.3 | 128.1 | 48.2 | 6.4 | 58.55 | 571.0/128430 | 628.0 | 21.43 |
| 200SPE-2 | 63.50 | 39.68 | 37.85 | 19.85 | 151.9 | 158.8 | 60.3 | 8.0 | 71.55 | 892.0/200621 | 981.0 | 35.00 |
| 80HSPE-2 | 25.40 | 15.88 | 15.75 | 7.94 | 68.8 | 72.0 | 24.1 | 4.0 | 32.59 | 178.4/40132 | 196.2 | 6.65 |
| 100HSPE-2 | 31.75 | 19.05 | 18.95 | 9.54 | 82.7 | 86.0 | 30.1 | 4.8 | 39.09 | 263.6/59299 | 290.0 | 9.71 |
| 120HSPE-2 | 38.10 | 22.23 | 25.22 | 11.11 | 102.4 | 106.4 | 36.2 | 5.6 | 48.87 | 356.4/80175 | 392.0 | 14.12 |
| 140HSPE-2 | 44.45 | 25.40 | 25.22 | 12.71 | 109.8 | 114.4 | 42.2 | 6.4 | 52.20 | 463.6/104300 | 510.0 | 17.38 |
| 160HSPE-2 | 50.80 | 28.58 | 31.55 | 14.29 | 130.1 | 134.9 | 48.2 | 7.2 | 61.90 | 588.0/132275 | 647.0 | 23.00 |
| 200HSPE-2 | 63.50 | 39.68 | 37.85 | 19.85 | 164.9 | 171.8 | 60.3 | 9.5 | 78.31 | 1091.0/245429 | 1200.0 | 38.50 |