

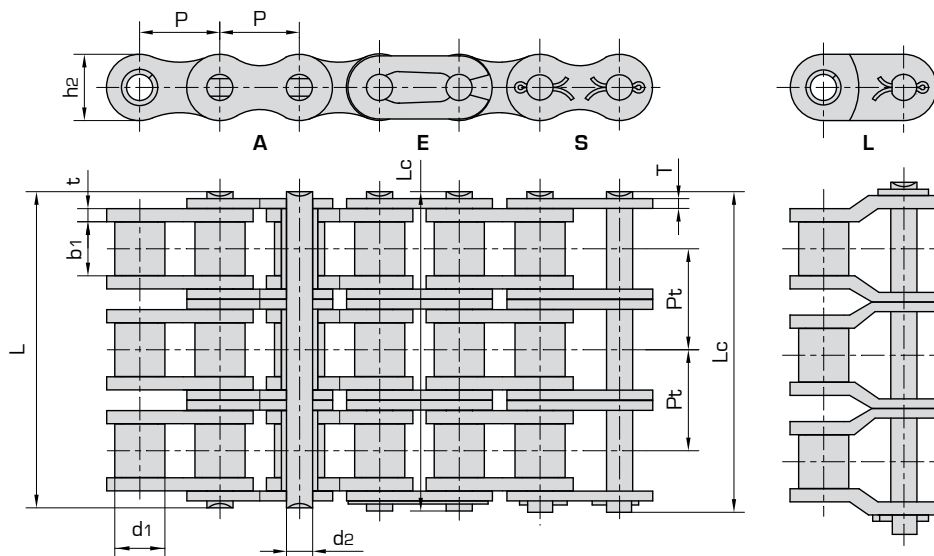
# Short pitch precision roller chains (B series)

## New Donghua X<sup>3</sup> series

Triplex roller chains

| Part nr.   | DIN/ISO 606 Chain no. | Pitch  | Roller diameter | Width between inner plates | Pin diameter | Pin length | Inner plate depth | Plate thickness | Transverse pitch |        |
|------------|-----------------------|--------|-----------------|----------------------------|--------------|------------|-------------------|-----------------|------------------|--------|
|            |                       | P      | d1 max          | b1 min                     | d2 max       | L max      | Lc max            | h2 max          | T max            | Pt     |
|            |                       | mm     | mm              | mm                         | mm           | mm         | mm                | mm              | mm               | mm     |
| 10005B-3X3 | 05B-3X3               | 8,000  | 5,00            | 3,00                       | 2,31         | 19,5       | 20,2              | 7,10            | 0,80             | 5,64   |
| 10006B-3X3 | *06B-3X3              | 9,525  | 6,35            | 5,72                       | 3,28         | 33,5       | 34,6              | 8,20            | 1,30             | 10,24  |
| 10008B-3X3 | 08B-3X3               | 12,700 | 8,51            | 7,75                       | 4,45         | 45,1       | 46,1              | 11,80           | 1,60             | 13,92  |
| 10010B-3X3 | 10B-3X3               | 15,875 | 10,16           | 9,65                       | 5,08         | 52,7       | 54,1              | 14,70           | 1,70             | 16,59  |
| 10012B-3X3 | 12B-3X3               | 19,050 | 12,07           | 11,68                      | 5,72         | 61,5       | 63,1              | 16,00           | 1,85             | 19,46  |
| 10016B-3X3 | 16B-3X3               | 25,400 | 15,88           | 17,02                      | 8,28         | 99,8       | 101,2             | 21,00           | 4,15/3,1         | 31,88  |
| 10020B-3X3 | 20B-3X3               | 31,750 | 19,05           | 19,56                      | 10,19        | 114,2      | 117,9             | 26,40           | 4,50/3,5         | 36,45  |
| 10024B-3X3 | 24B-3X3               | 38,100 | 25,40           | 25,40                      | 14,63        | 150,1      | 154,6             | 33,20           | 6,00/4,8         | 48,36  |
| 10028B-3X3 | 28B-3X3               | 44,450 | 27,94           | 30,99                      | 15,90        | 184,2      | 188,7             | 36,70           | 7,50/6,0         | 59,56  |
| 10032B-3X3 | 32B-3X3               | 50,800 | 29,21           | 30,99                      | 17,81        | 183,2      | 188,2             | 42,00           | 7,00/6,0         | 58,55  |
| 10040B-3X3 | 40B-3X3               | 63,500 | 39,37           | 38,10                      | 22,89        | 226,8      | 233,8             | 52,96           | 8,50/8,0         | 72,29  |
| 10048B-3X3 | 48B-3X3               | 76,200 | 48,26           | 45,72                      | 29,24        | 281,6      | 289,4             | 63,80           | 12,00/10,0       | 91,21  |
| 10056B-3X3 | 56B-3X3               | 88,900 | 53,98           | 53,34                      | 34,32        | 327,8      | 336,2             | 77,80           | 13,50/12,0       | 106,6  |
| 10064B-3X3 | 64B-3X3               | 101,60 | 63,50           | 60,96                      | 39,40        | 369,8      | 378,3             | 90,17           | 15,00/13,0       | 119,89 |
| 10072B-3X3 | 72B-3X3               | 114,30 | 72,39           | 68,58                      | 44,48        | 420,0      | 429,0             | 103,60          | 17,00/15,0       | 136,27 |

\* Straight side plates





| Ultimate tensile strength | Average tensile strength | Weight per meter | Available chain parts |   |   |   |   |
|---------------------------|--------------------------|------------------|-----------------------|---|---|---|---|
| Q min                     | Q0                       | q                | E                     | S | L | C | A |
| kN/lbf                    | kN                       | kg/m             |                       |   |   |   |   |
| 11,1/2523                 | 13,8                     | 0,48             | X                     |   | X | X | X |
| 24,9/5659                 | 30,1                     | 1,16             | X                     |   | X | X | X |
| 47,5/10795                | 57,8                     | 2,03             | X                     | X | X | X | X |
| 66,7/15159                | 84,5                     | 2,77             | X                     | X | X | X | X |
| 86,7/19705                | 101,8                    | 3,46             | X                     | X | X | X | X |
| 160,0/36364               | 227,1                    | 8,13             | X                     | X | X | X | X |
| 250,0/56818               | 334,3                    | 10,82            |                       | X | X |   | X |
| 425,0/96591               | 493,0                    | 20,10            |                       | X | X |   | X |
| 530,0/120454              | 609,5                    | 24,92            |                       | X | X |   | X |
| 670,0/152273              | 770,5                    | 31,56            |                       | X | X |   | X |
| 950,0/215909              | 1092,5                   | 48,10            |                       | X | X |   | X |
| 1500,0/340909             | 1710,0                   | 75,00            |                       | X | X |   | X |
| 2240,0/545450             | 2464,0                   | 107,18           |                       | X | X |   | X |
| 3000,0/681820             | 3300,0                   | 136,00           |                       | X | X |   | X |
| 3750,0/852270             | 4125,0                   | 180,00           |                       | X | X |   | X |



Premium range

Our NEW DONGHUA X3 SERIES is within our Premium Quality product range offering 3 times better wear resistance, fatigue resistance and higher precision than our standard range. By using new hardening technologies and special anti-friction coating technology on the pin surface, the coefficient of friction between pin and bush is reduced to a minimum. Extreme wear resistance is the result. All Donghua roller chains are: Pre-loaded, Fatigue resistant, Wear resistant and Pre-lubricated. Donghua simplex, duplex and triplex roller chains are manufactured according to ISO 606 DIN8187, standard pre-loaded, pre-lubricated, do have seamless rollers and are marked with production batch code number for complete traceability. All Donghua roller chains are sealed in plastic bags and packed in cardboard boxes with clear ISO 606 DIN descriptions and safety instructions. Standard packaging size is 5 meter box, reels are available on request. Cut to length service is available on request. Several test certificates like breaking load, length tolerance and material analyses are possible and available on request. Rollers chains which are needed for 'run as pairs' applications can be matched as pairs on request. DIN, 1/2DIN and 1/3DIN length tolerance are possible, please ask us for a quotation. For high temperature, low temperature, food application or special environments different kind of special lubricants are available. Please ask our sales team for any special needs. For drive chain calculation and right dimension check, please contact our engineering department, also see drive chain calculation data sheet on page 301. By filling this data sheet and sending this to our engineering department you will receive a detailed drive chain calculation including life time expectation. Sprockets are available for all roller chains, with pilot bore, fixed bore, keyway, setscrew or bearing bore with grooves. Standard toothing, hardened toothing or special toothing are possible with pilot bore, fixed bore or taper bush. Chain tools, tensioners and chain lubricants please see page 302-310.