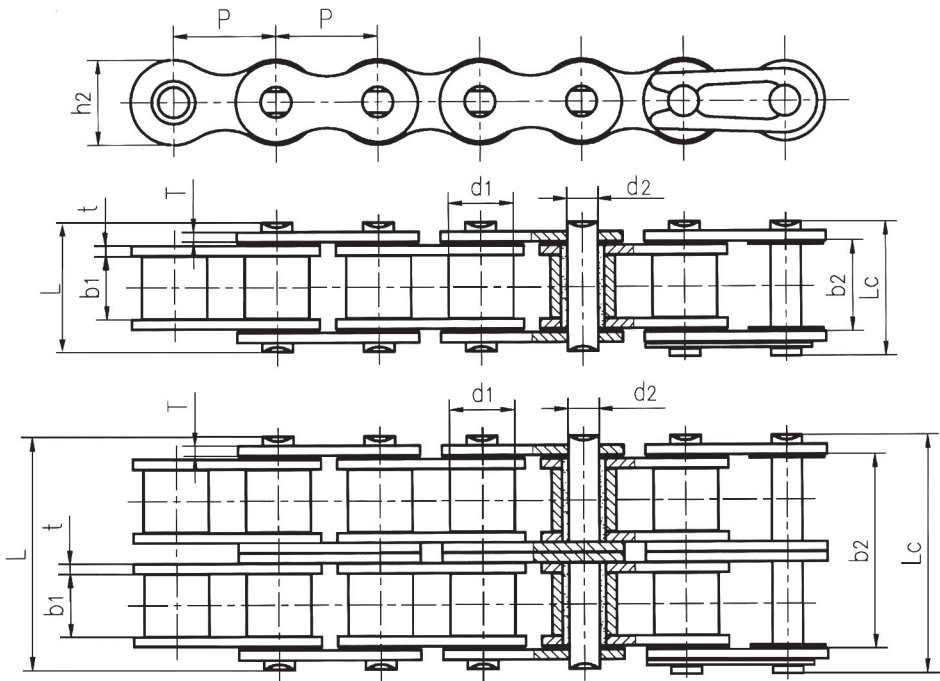


Self-lubrication  
roller chains

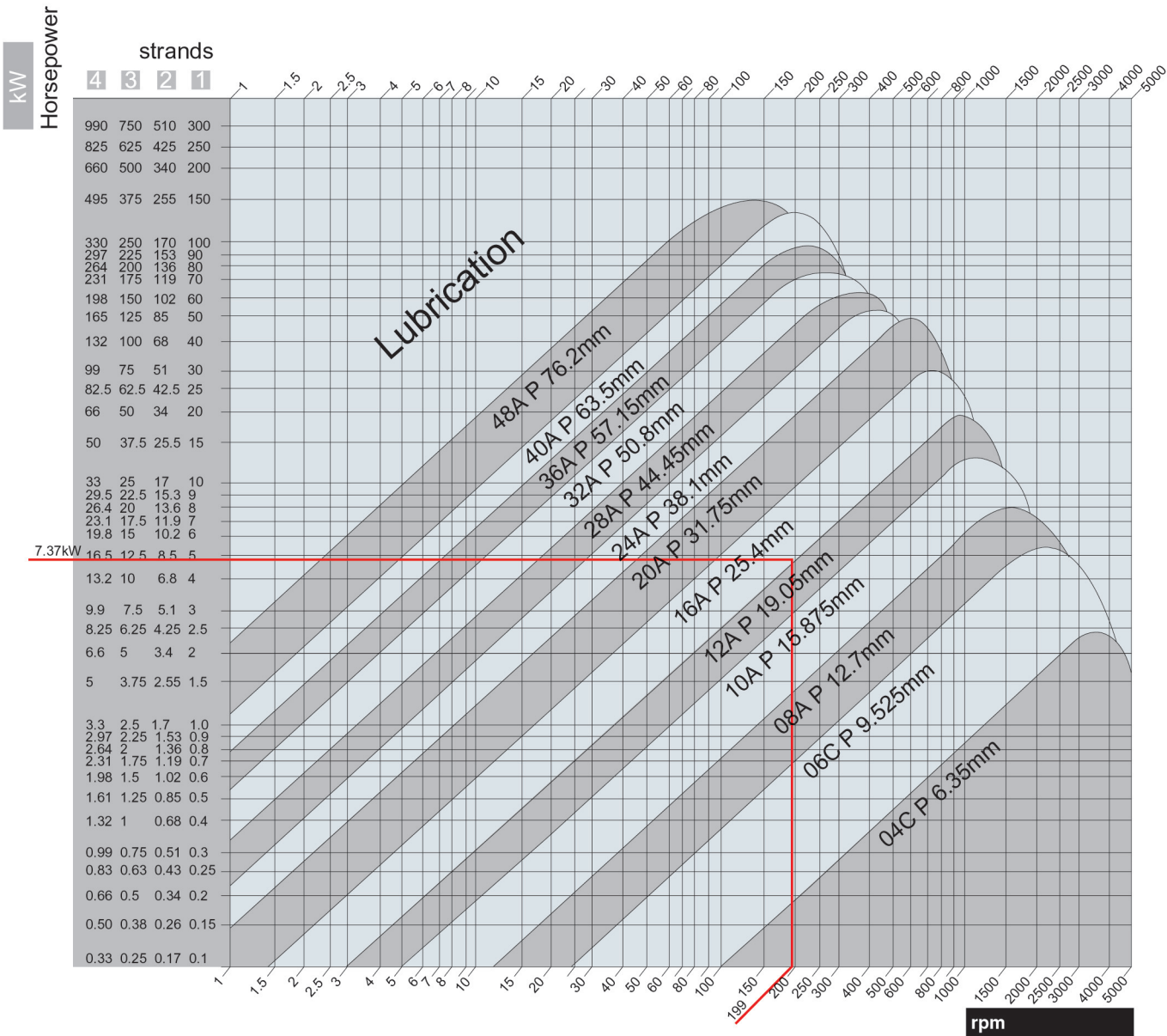


| Chain No. | Pitch | Roller diameter | Width between inner plates | Width between outer plates | Pin diameter | Pin length |        | Plate Dimensions |           | Ultimate tensile strength | Weight per meter |
|-----------|-------|-----------------|----------------------------|----------------------------|--------------|------------|--------|------------------|-----------|---------------------------|------------------|
|           | P     | d1 max          | b1 min                     | b2 min                     | d2 max       | L max      | Lc max | h2 max           | t/T max   | Q min                     | q                |
|           | mm    | mm              | mm                         | mm                         | mm           | mm         | mm     | mm               | mm        | kN/LB                     | kg/m             |
| 60SLR     | 19.05 | 11.91           | 12.57                      | 19.35                      | 5.94         | 27.5       | 29.3   | 18.0             | 3.25/2.42 | 34.2/7772                 | 1.65             |
| 12BSLR    | 19.05 | 12.07           | 11.68                      | 16.8                       | 5.72         | 23.6       | 25.3   | 16.0             | 1.85      | 29.0/6591                 | 1.20             |
| 16BSLR    | 25.40 | 15.88           | 17.02                      | 27.5                       | 8.28         | 38.1       | 40.6   | 21.0             | 4.15/3.1  | 60.0/13636                | 2.72             |
| 60SLR-2   | 19.05 | 11.91           | 12.57                      | 42.13                      | 5.94         | 50.3       | 52.1   | 18.0             | 3.25/2.42 | 68.4/15544                | 3.21             |
| 12BSLR-2  | 19.05 | 12.07           | 11.68                      | 36.26                      | 5.72         | 43.1       | 62.6   | 16.0             | 1.85      | 58.0/13182                | 2.38             |
| 16BSLR-2  | 25.40 | 15.88           | 17.02                      | 59.38                      | 8.28         | 70.0       | 72.5   | 21.0             | 4.15/3.1  | 120.0/27272               | 5.40             |



Horsepower rating graph  
(A series roller chain)

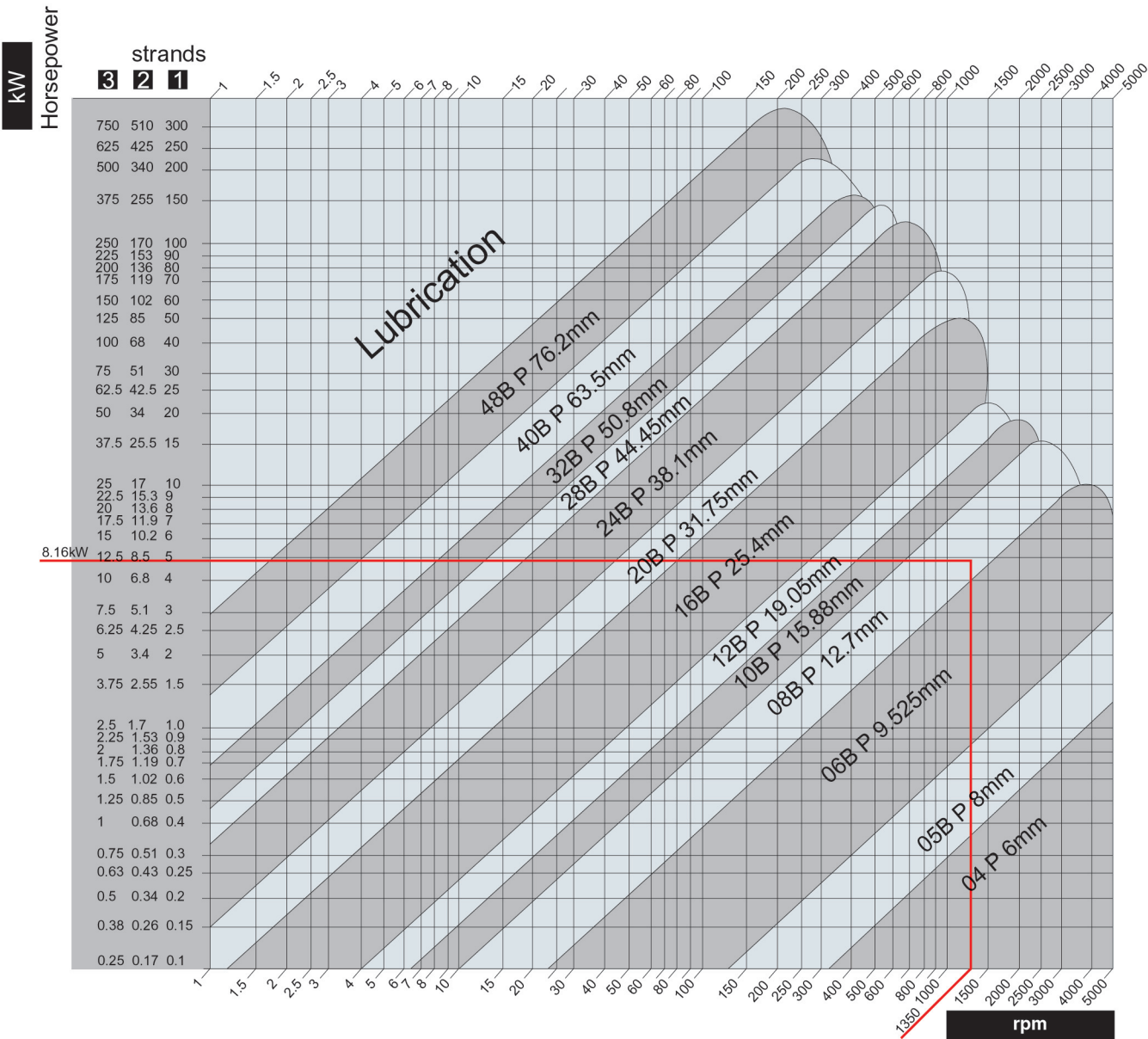
For drive  $z_1=19$  teeth  
Chain length 120 links/Ratio  $i=3$   
Service life:15000 hours





Horsepower rating graph  
(B series roller chain)

For drive  $z_1=19$  teeth  
Chain length 120 links/Ratio  $i=3$   
Service life:15000 hours



Selection of lubrications

Lubrication of chain depends on the working environment, temperature, chain speed and so on.

1. Effection of working environment

Open drive such as combine swather etc, Use grease to lubricate.

Closed drive such as walking tractor etc, Use oil to lubricate.

2. Effection of temperature

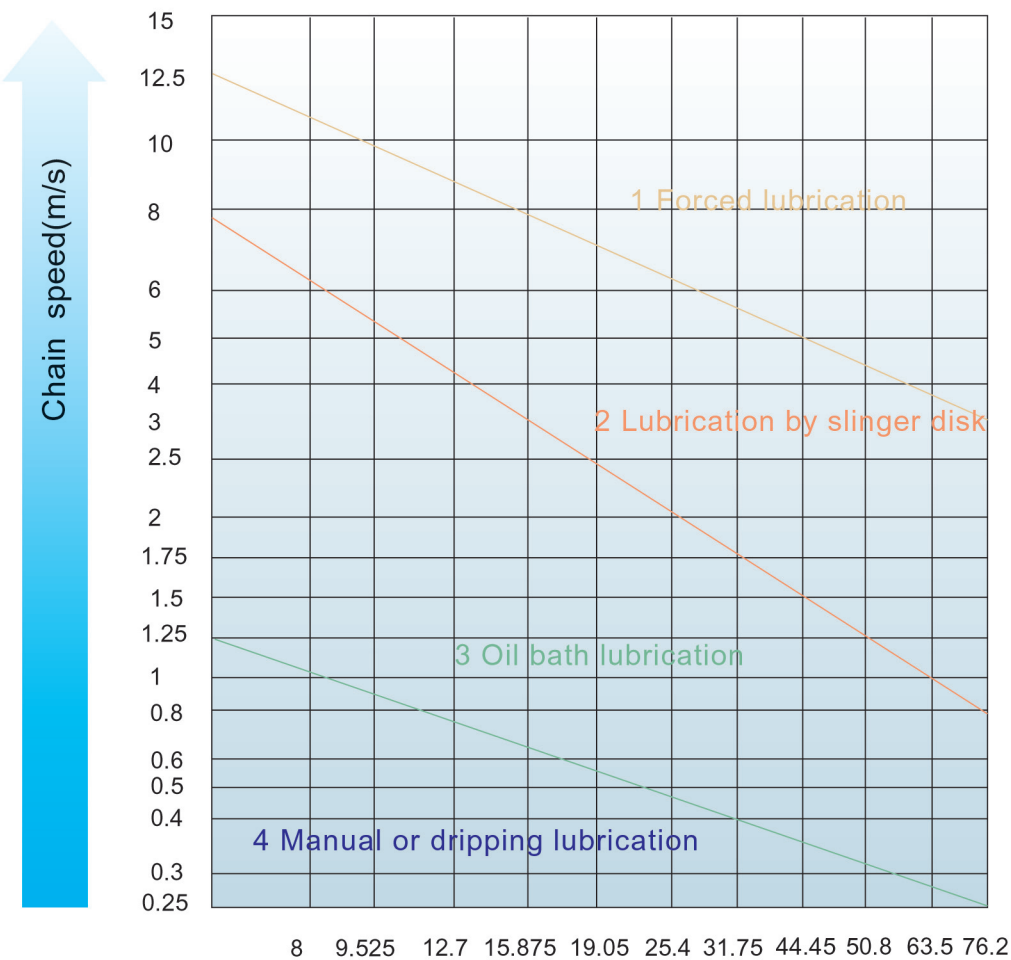
Application in the temperature range of-5 to +60°C is recommernded.

In winter, the thin oil is recommended;But in summer, thick oil is recommended

3. Effection of chain speed

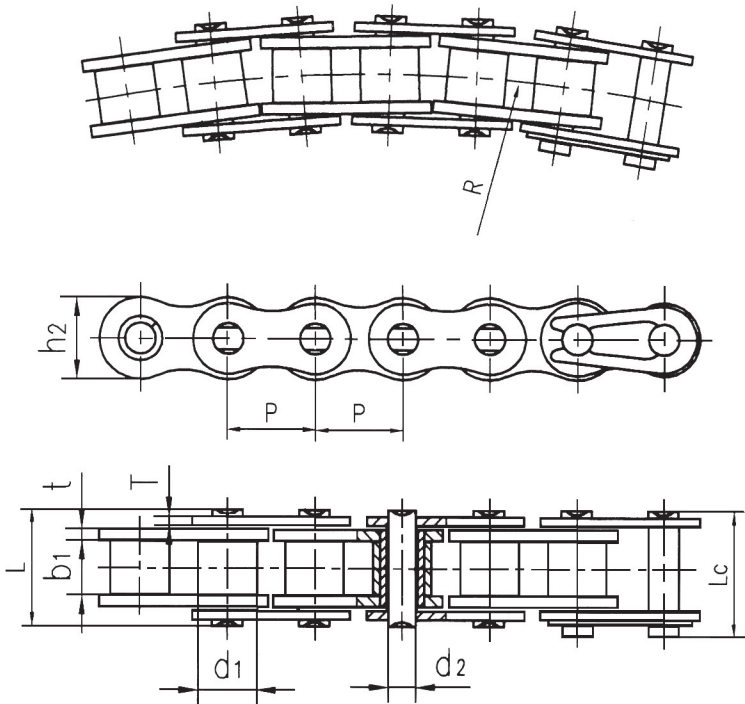
The lubrication method is related to chain speed see following chart,

So selecting the lubrication method can refer to the following chart.



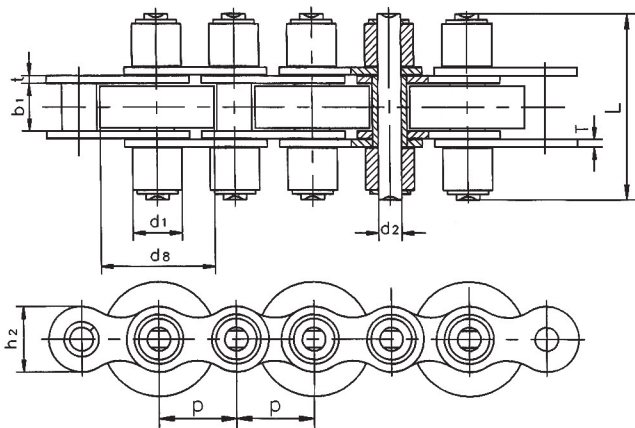


Side bow chains

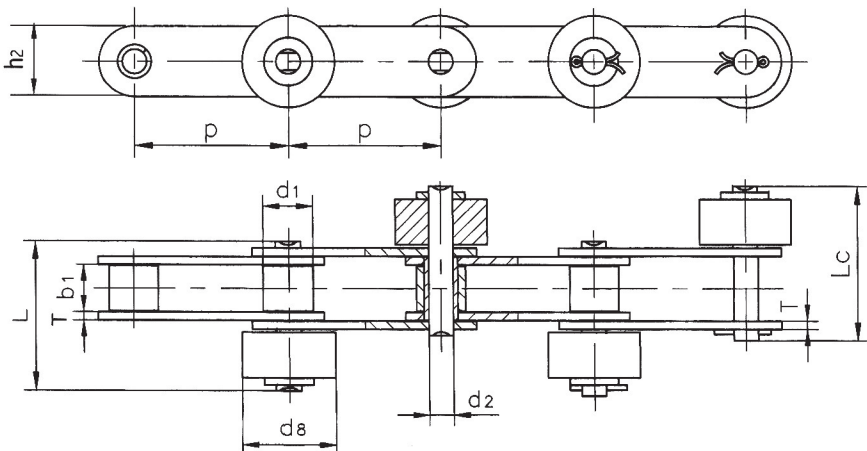


| Chain No. | Pitch  | Roller diameter    | Width between inner plates | Pin diameter       | Pin length |                    | Inner plate depth  | Plate thick-ness | side bow radius | Ultimate tensile strength | Average tensile strength | Weight per meter |
|-----------|--------|--------------------|----------------------------|--------------------|------------|--------------------|--------------------|------------------|-----------------|---------------------------|--------------------------|------------------|
|           | 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/T max          | R min           | Q min                     | Q <sub>0</sub>           | q                |
|           | mm     | mm                 | mm                         | mm                 | mm         | mm                 | mm                 | mm               | mm              | kN/LB                     | kN                       | kg/m             |
| 40SB      | 12.70  | 7.95               | 7.85                       | 3.96               | 16.9       | 18.1               | 11.7               | 1.5              | 350             | 13.8/3136                 | 15.2                     | 0.80             |
| 43SB      | 12.70  | 7.95               | 7.85                       | 3.45               | 18.3       | 19.5               | 11.7               | 1.5              | 305             | 12.0/2727                 | 13.2                     | 0.64             |
| 50SB      | 15.875 | 10.16              | 9.40                       | 4.37               | 20.7       | 22.7               | 15.09              | 2.03             | 400             | 20.6/4681                 | 22.7                     | 1.09             |
| 60SB      | 19.05  | 11.91              | 12.57                      | 5.34               | 26.6       | 28.4               | 18.0               | 2.42             | 500             | 15.7/3568                 | 17.3                     | 1.42             |
| 63SB      | 19.05  | 11.91              | 12.68                      | 5.08               | 28.8       | 30.6               | 17.2               | 2.42/2.03        | 350             | 12.5/2840                 | 13.8                     | 1.40             |
| 08BSB     | 12.70  | 8.51               | 7.75                       | 3.97               | 17.4       | 18.7               | 11.8               | 1.6              | 400             | 14.0/3182                 | 15.4                     | 0.70             |
| 08BSBF1   | 12.70  | 8.51               | 7.75                       | 3.97               | 16.3       | 17.6               | 11.8               | 1.6/1.2          | 400             | 12.8/2909                 | 14.1                     | 0.65             |
| 10BSB     | 15.875 | 10.16              | 9.65                       | 4.50               | 20.1       | 21.5               | 14.7               | 1.7              | 400             | 15.6/3545                 | 17.2                     | 0.93             |
| 12BSB     | 19.05  | 12.07              | 11.68                      | 5.12               | 23.1       | 24.8               | 16.0               | 1.85             | 500             | 20.5/4658                 | 22.6                     | 1.16             |
| C2050SB   | 31.75  | 10.16              | 9.40                       | 5.08               | 21.3       | 22.6               | 15.0               | 2.03             | 800             | 21.8/4954                 | 24.1                     | 1.09             |

Double plus chains



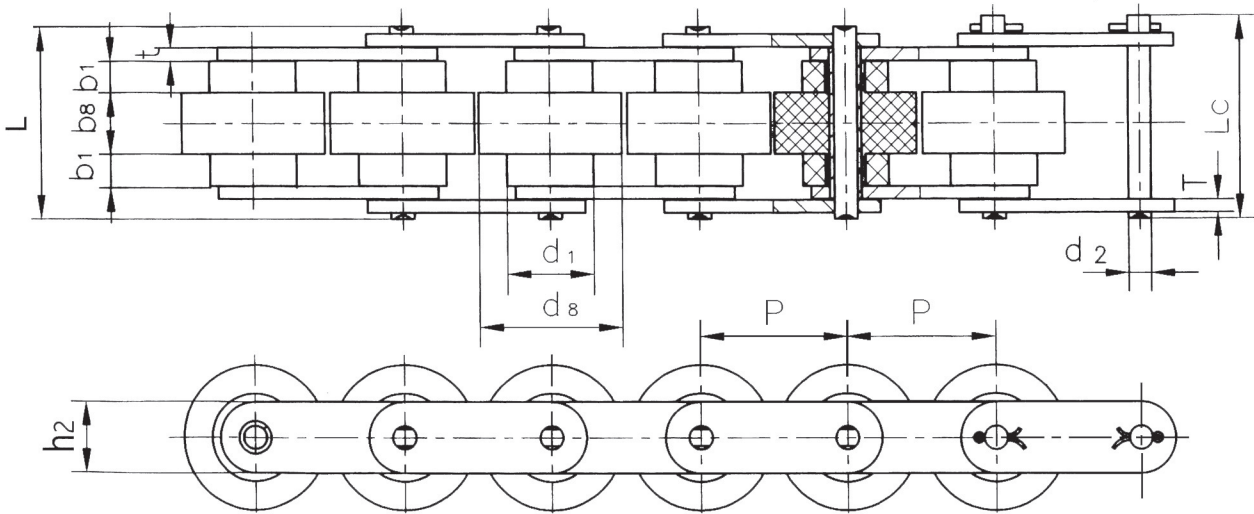
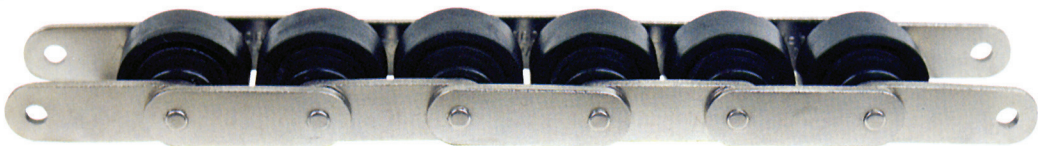
| Chain No. | Pitch | Roller diameter    |                    | Width between inner plates | Pin dimensions     |       | Plate dimensions   |         | Ultimate tensile strength | Average tensile strength |
|-----------|-------|--------------------|--------------------|----------------------------|--------------------|-------|--------------------|---------|---------------------------|--------------------------|
|           | P     | d <sub>1</sub> max | d <sub>8</sub> max | b <sub>1</sub> min         | d <sub>2</sub> max | L max | h <sub>2</sub> max | t/T max | Q min                     | Q <sub>0</sub>           |
|           | mm    | mm                 | mm                 | mm                         | mm                 | mm    | mm                 | mm      | kN/LB                     | kN                       |
| 08BS      | 12.70 | 8.51               | 16.0               | 7.75                       | 4.45               | 27.0  | 10.6               | 1.6/1.5 | 18.0/4091                 | 19.8                     |
| 12BS      | 19.05 | 12.07              | 28.0               | 11.68                      | 5.72               | 45.4  | 16.0               | 1.85    | 28.9/6568                 | 31.7                     |
| 12BS-P26  | 19.05 | 12.07              | 26.0               | 11.68                      | 5.72               | 43.0  | 16.0               | 1.85    | 29.0/6591                 | 31.9                     |



| Chain No. | Pitch | Roller diameter    |                    | Width between inner plates | Pin dimensions     |       |                    | Pin dimensions     |       | Ultimate tensile strength | Average tensile strength | Weight per meter |
|-----------|-------|--------------------|--------------------|----------------------------|--------------------|-------|--------------------|--------------------|-------|---------------------------|--------------------------|------------------|
|           | P     | d <sub>1</sub> max | d <sub>8</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 | Q min                     | Q <sub>0</sub>           | q                |
|           | mm    | mm                 | mm                 | mm                         | mm                 | mm    | mm                 | mm                 | mm    | kN/LB                     | kN                       | kg/m             |
| C2050S    | 31.75 | 10.16              | 19.05              | 9.4                        | 5.08               | 31.8  | 34.0               | 15.0               | 2.03  | 21.8/4955                 | 23.9                     | 1.52             |



Double plus chains

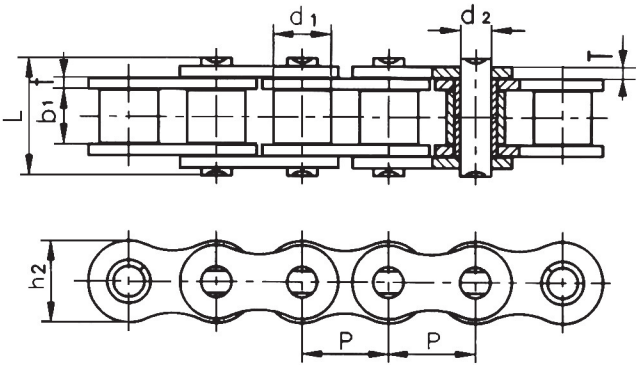


| JB Chain No. | Chain No. | Pitch | Roller dimensions  |                    |                    |                    | Pin dimensions     |       |                    | Plate dimensions   |       |       | Weight per meter |
|--------------|-----------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|--------------------|--------------------|-------|-------|------------------|
|              |           | P     | d <sub>1</sub> max | d <sub>8</sub> max | b <sub>1</sub> min | b <sub>8</sub> max | d <sub>2</sub> max | L max | L <sub>c</sub> max | h <sub>2</sub> max | T max | t max | q                |
|              |           | mm    | mm                 | mm                 | mm                 | mm                 | mm                 | mm    | mm                 | mm                 | mm    | mm    | kg/m             |
| BS25-C206B   | C2030W    | 19.05 | 11.91              | 18.3               | 4.00               | 8.0                | 3.28               | 24.0  | 25.6               | 8.20               | 1.30  | 1.50  | 0.52             |
| BS25-C208A   | C2040W    | 25.40 | 15.88              | 24.6               | 5.70               | 10.3               | 3.96               | 31.0  | 32.8               | 11.70              | 1.50  | 1.50  | 0.79             |
| BS25-C210A   | C2050W    | 31.75 | 19.05              | 30.6               | 7.10               | 13.0               | 5.08               | 39.5  | 41.2               | 15.00              | 2.03  | 2.03  | 1.36             |
| BS25-C212A   | C2060W    | 38.10 | 22.23              | 36.6               | 8.50               | 15.5               | 5.94               | 48.8  | 50.5               | 18.00              | 3.25  | 3.25  | 2.19             |
| BS25-C216A   | C2080W    | 50.80 | 28.58              | 49.0               | 11.00              | 21.5               | 7.92               | 66.2  | 70.0               | 24.00              | 4.00  | 5.00  | 4.06             |
| BS30-C206B   |           | 19.05 | 9.00               | 18.3               | 4.50               | 9.1                | 3.28               | 26.3  | 29.6               | 7.28               | 1.30  | 1.50  | 0.50             |
| BS30-C208A   |           | 25.40 | 11.91              | 24.6               | 6.10               | 12.5               | 3.96               | 35.6  | 39.5               | 9.60               | 1.50  | 2.00  | 0.83             |
| BS30-C210A   |           | 31.75 | 14.80              | 30.6               | 7.50               | 15.0               | 5.08               | 43.0  | 47.1               | 12.20              | 2.00  | 2.40  | 1.27             |
| BS30-C212A   |           | 38.10 | 18.00              | 37.0               | 9.75               | 20.0               | 5.94               | 58.1  | 62.7               | 15.00              | 3.00  | 4.00  | 2.14             |
| BS30-C216A   |           | 50.80 | 22.23              | 49.0               | 12.00              | 25.2               | 7.92               | 71.9  | 77.3               | 18.60              | 4.00  | 5.00  | 3.55             |



Engine mechanism chains (Timing chains)

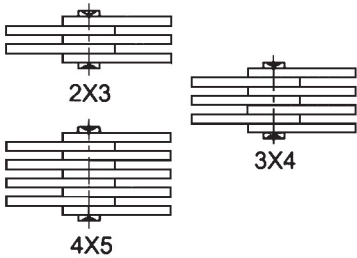
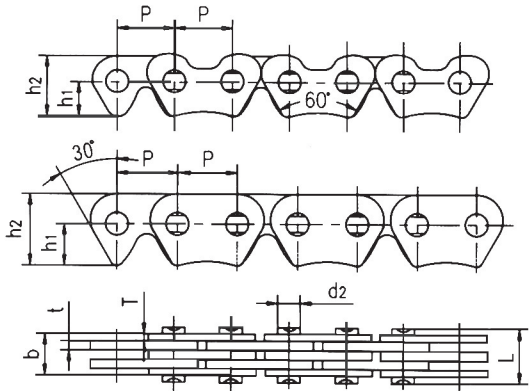
Our engine mechanism chains are composed of starter chains primary drive chains, automotive timing chains and oil pump chains etc..



| Chain No. | Pitch | Roller diameter    | Width between inner plates | Pin diameter       | Pin length | Inner plate depth  | Plate thick-ness | Ultimate tensile strength | Average tensile strength | Weight per meter |
|-----------|-------|--------------------|----------------------------|--------------------|------------|--------------------|------------------|---------------------------|--------------------------|------------------|
|           | P     | d <sub>1</sub> max | b <sub>1</sub> min         | d <sub>2</sub> max | L max      | h <sub>2</sub> max | t/T max          | Q min                     | Q <sub>0</sub>           | q                |
|           | mm    | mm                 | mm                         | mm                 | mm         | mm                 | mm               | kN/LB                     | kN                       | kg/m             |
| *25H      | 6.350 | 3.30               | 3.18                       | 2.31               | 8.90       | 6.00               | 1.04             | 4.8/1091                  | 5.5                      | 0.17             |
| *25-1     | 6.350 | 3.30               | 3.18                       | 2.31               | 7.90       | 6.00               | 0.80             | 3.5/795                   | 4.6                      | 0.15             |
| *25-2     | 6.350 | 3.30               | 3.18                       | 2.31               | 14.50      | 6.00               | 0.80             | 7.0/1591                  | 8.6                      | 0.28             |
| *219H     | 7.774 | 4.59               | 5.00                       | 3.01               | 11.90      | 7.50               | 1.2/1.0          | 6.6/1500                  | 7.4                      | 0.28             |
| *270H     | 8.500 | 5.00               | 4.75                       | 3.28               | 13.15      | 8.45               | 1.8/1.4          | 9.8/2227                  | 11.0                     | 0.33             |
| *35       | 9.525 | 5.08               | 4.77                       | 3.58               | 12.40      | 9.00               | 1.30             | 7.9/1795                  | 10.8                     | 0.33             |
| *#BF05T   | 8.000 | 4.71               | 4.61                       | 3.05               | 11.48      | 8.20               | 1.3/1.04         | 7.0/1591                  | 9.8                      | 0.35             |
| #06AT     | 9.525 | 6.35               | 3.94                       | 3.28               | 10.50      | 8.20               | 1.3/1.04         | 8.9/2023                  | 10.0                     | 0.34             |
| #06BT-1   | 9.525 | 6.35               | 5.72                       | 3.28               | 12.50      | 8.20               | 1.3/1.04         | 9.0/2045                  | 10.0                     | 0.38             |
| #06BT-2   | 9.525 | 6.35               | 5.72                       | 3.28               | 22.90      | 8.20               | 1.3/1.04         | 16.9/3841                 | 17.9                     | 0.73             |

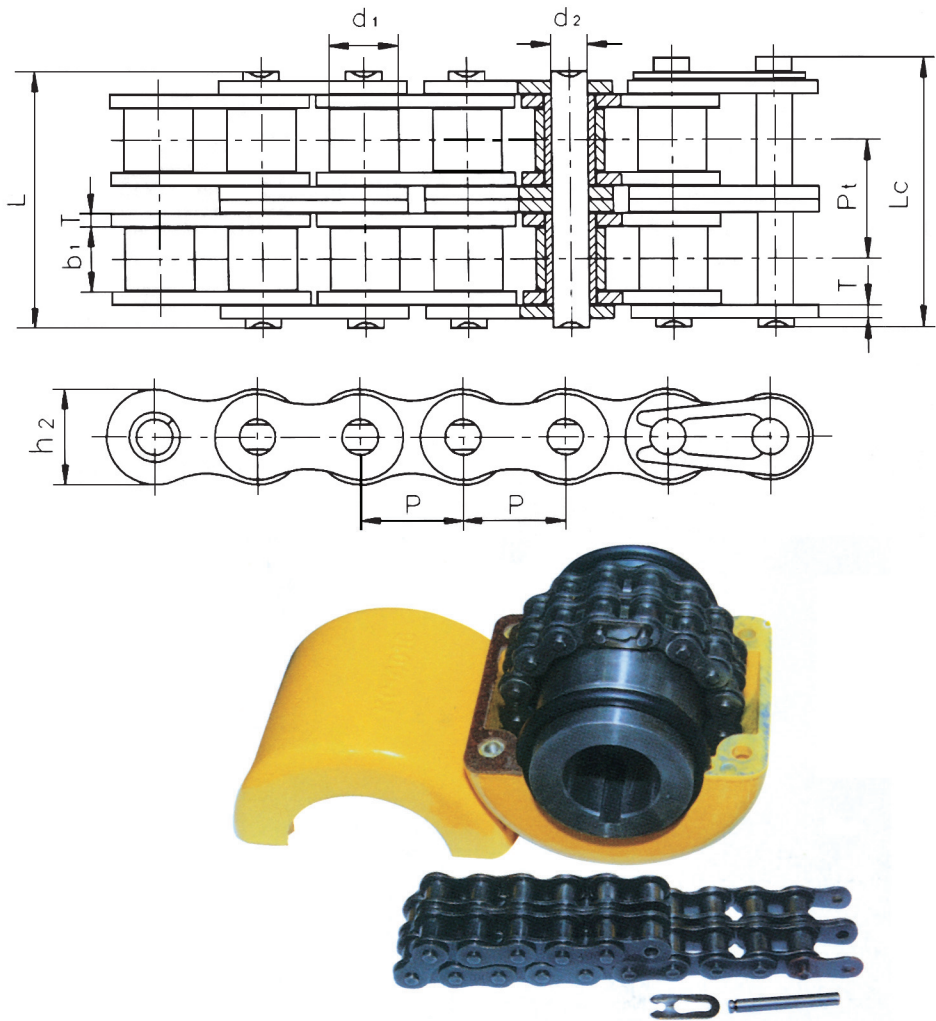
\*Bushing chain:d<sub>1</sub> in the table indicate the external diameter of the bushing

#Straight side plates



| Chain No. | Pitch | Chain Width | Pin diameter       | Pin length | Distance form hole cfntre to tooth | plate depth        | plate thickness | Quide form | number of plates | Ultimate tensile strength | Average tensile strength | Weight per meter |
|-----------|-------|-------------|--------------------|------------|------------------------------------|--------------------|-----------------|------------|------------------|---------------------------|--------------------------|------------------|
|           | P     | b min       | d <sub>2</sub> max | L max      | h <sub>1</sub>                     | h <sub>2</sub> max | t/T max         |            | n                | Q min                     | Q <sub>0</sub>           | q                |
|           | mm    | mm          | mm                 | mm         | mm                                 | mm                 | mm              |            |                  | kN/LB                     | kN                       | kg/m             |
| CL04      | 6.35  | 4.35        | 2.50               | 6.1        | 3.9                                | 6.72               | 1.04/0.75       | Outside    | 5(2X3)           | 5.19/1179                 | 5.4                      | 0.22             |
| CL04      | 6.35  | 6.35        | 2.50               | 8.2        | 3.9                                | 6.72               | 1.04/0.75       | Outside    | 7(3X4)           | 8.82/2004                 | 9.2                      | 0.28             |
| CL04      | 6.35  | 9.40        | 2.50               | 10.9       | 3.9                                | 6.72               | 1.04            | Outside    | 9(4X5)           | 11.76/2672                | 12.3                     | 0.35             |

Coupling chains



| Chain No. | Pitch  | Roller diameter  | Width between inner plates | Pin diameter     | Pin length       |                    | Inner plate depth  | Plate thick-ness | Transverse pitch | Ultimate tensile strength | Average tensile strength | Weight per piece |
|-----------|--------|------------------|----------------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|---------------------------|--------------------------|------------------|
|           | P      | d <sub>max</sub> | b <sub>min</sub>           | d <sub>max</sub> | L <sub>max</sub> | L <sub>c max</sub> | h <sub>2 max</sub> | T <sub>max</sub> | P <sub>t</sub>   | Q <sub>min</sub>          | Q <sub>0</sub>           | q                |
|           | mm     | mm               | mm                         | mm               | mm               | mm                 | mm                 | mm               | mm               | kN/LB                     | kN                       | kg/p             |
| 4012      | 12.700 | 7.95             | 7.85                       | 3.96             | 31.0             | 32.2               | 12.00              | 1.50             | 14.38            | 28.2/6409                 | 35.9                     | 0.16             |
| 4014      | 12.700 | 7.95             | 7.85                       | 3.96             | 31.0             | 32.2               | 12.00              | 1.50             | 14.38            | 28.2/6409                 | 35.9                     | 0.19             |
| 4016      | 12.700 | 7.95             | 7.85                       | 3.96             | 31.0             | 32.2               | 12.00              | 1.50             | 14.38            | 28.2/6409                 | 35.9                     | 0.21             |
| 5014      | 15.875 | 10.16            | 9.40                       | 5.08             | 38.9             | 40.4               | 15.09              | 2.03             | 18.11            | 44.4/10091                | 58.1                     | 0.49             |
| 5016      | 15.875 | 10.16            | 9.40                       | 5.08             | 38.9             | 40.4               | 15.09              | 2.03             | 18.11            | 44.4/10091                | 58.1                     | 0.56             |
| 5018      | 15.875 | 10.16            | 9.40                       | 5.08             | 38.9             | 40.4               | 15.09              | 2.03             | 18.11            | 44.4/10091                | 58.1                     | 0.63             |
| 6018      | 19.050 | 11.91            | 12.57                      | 5.94             | 48.8             | 50.5               | 18.00              | 2.42             | 22.78            | 63.6/14455                | 82.1                     | 1.00             |
| 6020      | 19.050 | 11.91            | 12.57                      | 5.94             | 48.8             | 50.5               | 18.00              | 2.42             | 22.78            | 63.6/14455                | 82.1                     | 1.11             |
| 6022      | 19.050 | 11.91            | 12.57                      | 5.94             | 48.8             | 50.5               | 18.00              | 2.42             | 22.78            | 63.6/14455                | 82.1                     | 1.22             |
| 8018      | 25.400 | 15.88            | 15.75                      | 7.92             | 62.7             | 64.3               | 24.00              | 3.25             | 29.29            | 113.4/25773               | 141.8                    | 2.35             |
| 8020      | 25.400 | 15.88            | 15.75                      | 7.92             | 62.7             | 64.3               | 24.00              | 3.25             | 29.29            | 113.4/25773               | 141.8                    | 2.62             |
| 8022      | 25.400 | 15.88            | 15.75                      | 7.92             | 62.7             | 64.3               | 24.00              | 3.25             | 29.29            | 113.4/25773               | 141.8                    | 2.88             |
| 10022     | 31.750 | 19.05            | 18.90                      | 9.53             | 76.4             | 80.5               | 30.00              | 4.00             | 35.76            | 177.0/40228               | 219.4                    | 4.95             |
| 12018     | 38.100 | 22.23            | 25.22                      | 11.10            | 95.8             | 99.7               | 35.70              | 4.80             | 45.44            | 254.0/57727               | 314.9                    | 8.14             |