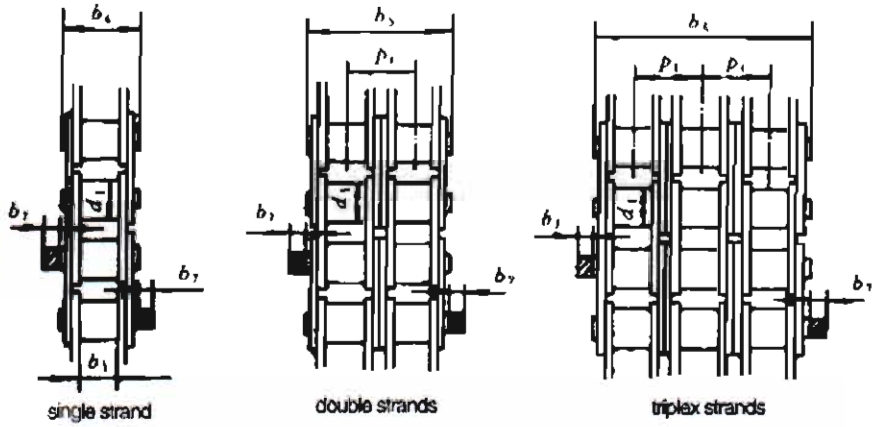


# I. ROLLER CHAINS

## I-1. Short pitch precision roller chains

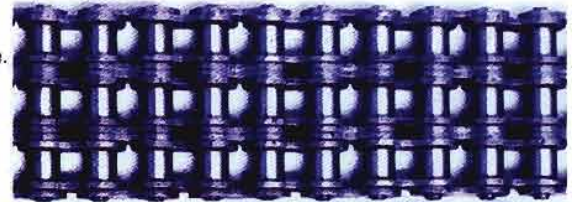
Standard: ISO606: 1994  
 ASME/ANSI B29. 1M-1993  
 DIN8187-96(B)  
 DW8188-96(A)



| ANSI | ISO   | pitch<br>P | roller<br>dia.<br>d1<br>max | width<br>between<br>inner plates<br>b1 | bearing<br>pin dia.<br>d2 | inner<br>plate depth<br>h | transverse<br>pitch<br>pt | width over<br>bearing pins<br>L<br>mm | test strength |       |       | ultimate tensile strength |        |        | weight<br>per M<br>Kg/m |
|------|-------|------------|-----------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------------------|---------------|-------|-------|---------------------------|--------|--------|-------------------------|
|      |       |            |                             |  |                           |                           |                           |                                       | S             | D     | T     | Q                         | Q      | Q      |                         |
|      |       |            |                             |  |                           |                           |                           |                                       | N             | N     | N     | KN                        | KN     | KN     |                         |
| 25   | 04B   | 6.0        | 4.0                         | 2.80                                   | 1.85                      |                           |                           | 7.10                                  | 25            | 50    | 75    | 3.0                       | 6.0    | 9.5    | 0.13                    |
|      | 04C   | 6.35       | 3.3                         | 3.1                                    | 2.31                      | 6.02                      | 6.02                      | 7.9                                   | 33            | 60    | 90    | 3.5                       | 7.0    | 10.5   | 0.13                    |
|      | 05B   | 8          | 5                           | 3                                      | 2.31                      | 7.11                      | 5.64                      | 8.6                                   | 50            | 100   | 150   | 4.4                       | 7.8    | 11.1   | 0.41                    |
| 35   | 06B   | 9.525      | 6.35                        | 5.72                                   | 3.28                      | 8.26                      | 10.24                     | 13.5                                  | 70            | 140   | 210   | 8.9                       | 16.9   | 24.9   | 0.35                    |
|      | 06C   | 9.525      | 5.08                        | 4.68                                   | 3.58                      | 9.05                      |                           | 13.2                                  | 120           | 250   | 370   | 7.9                       | 15.8   | 23.7   | 0.36                    |
| 40   | 08A   | 12.7       | 7.92                        | 7.85                                   | 3.98                      | 12.07                     | 14.38                     | 17.8                                  | 120           | 250   | 370   | 13.8                      | 27.8   | 41.4   | 0.89                    |
|      | 08B   | 12.7       | 8.51                        | 7.75                                   | 4.45                      | 11.81                     | 13.92                     | 17                                    | 120           | 250   | 370   | 17.8                      | 31.1   | 44.5   | 0.28                    |
|      | 081   | 12.7       | 7.75                        | 3.3                                    | 3.66                      | 9.91                      | -                         | 10.2                                  | 125           | -     | -     | 8                         | -      | -      | 0.27                    |
|      | 082   | 12.7       | 7.75                        | 2.38                                   | 3.66                      | 9.90                      | -                         | 8.2                                   | 125           | -     | -     | 9.8                       | -      | -      | 0.33                    |
|      | 083   | 12.7       | 7.75                        | 4.88                                   | 4.09                      | 10.3                      | -                         | 12.9                                  | 125           | -     | -     | 11.6                      | -      | -      | 0.41                    |
|      | 084   | 12.7       | 7.75                        | 4.88                                   | 4.09                      | 11.15                     | -                         | 14.8                                  | 125           | -     | -     | 15.6                      | -      | -      | 0.59                    |
| 41   | 085   | 12.7       | 7.77                        | 6.25                                   | 3.58                      | 9.91                      | -                         | 14                                    | 125           | -     | -     | 6.7                       | -      | -      | 1.02                    |
|      | 10A   | 15.875     | 10.16                       | 9.4                                    | 5.09                      | 15.09                     | 18.11                     | 21.8                                  | 200           | 390   | 590   | 21.8                      | 43.6   | 65.4   | 0.93                    |
| 50   | 10B   | 15.875     | 10.16                       | 9.65                                   | 5.08                      | 14.73                     | 16.59                     | 19.6                                  | 200           | 390   | 590   | 22.2                      | 44.5   | 66.7   | 1.50                    |
|      | 12A   | 19.05      | 11.91                       | 12.57                                  | 5.96                      | 18.08                     | 22.78                     | 26.9                                  | 280           | 560   | 840   | 31.1                      | 62.3   | 93.4   | 1.15                    |
| 60   | 12B   | 19.05      | 12.07                       | 11.68                                  | 5.72                      | 16.13                     | 19.48                     | 22.7                                  | 280           | 560   | 840   | 28.9                      | 57.8   | 86.7   | 2.80                    |
|      | 16A   | 25.4       | 15.88                       | 15.75                                  | 7.94                      | 24.13                     | 29.29                     | 33.5                                  | 500           | 1000  | 1490  | 65.6                      | 111.2  | 188.8  | 2.71                    |
| 80   | 16B   | 25.4       | 15.88                       | 17.02                                  | 8.28                      | 21.08                     | 31.88                     | 36.1                                  | 500           | 1000  | 1490  | 60                        | 106    | 160    | 3.91                    |
|      | 20A   | 31.75      | 19.05                       | 18.9                                   | 9.54                      | 30.16                     | 35.78                     | 41.1                                  | 780           | 1560  | 2340  | 86.7                      | 173.5  | 260.2  | 3.70                    |
| 100  | 20B   | 31.75      | 19.05                       | 19.56                                  | 10.19                     | 26.42                     | 36.45                     | 43.2                                  | 760           | 1560  | 2340  | 95                        | 170    | 250    | 5.52                    |
|      | 24A   | 38.1       | 22.23                       | 25.22                                  | 11.14                     | 36.2                      | 45.44                     | 50.8                                  | 1110          | 2220  | 3340  | 124.6                     | 249.1  | 373.7  | 7.10                    |
| 140  | 24B   | 38.1       | 25.4                        | 25.4                                   | 14.63                     | 33.4                      | 48.38                     | 53.4                                  | 1110          | 2220  | 3340  | 160                       | 280    | 425    | 7.50                    |
|      | 28A   | 44.45      | 25.4                        | 25.22                                  | 12.71                     | 42.24                     | 48.87                     | 54.9                                  | 1510          | 3020  | 4540  | 168                       | 338.1  | 507.1  | 8.50                    |
| 160  | 28B   | 44.45      | 27.94                       | 30.99                                  | 15.9                      | 37.08                     | 59.58                     | 65.1                                  | 1510          | 3020  | 4540  | 200                       | 360    | 530    | 10.10                   |
|      | 32A   | 50.8       | 28.58                       | 31.55                                  | 14.29                     | 48.26                     | 58.55                     | 65.5                                  | 2000          | 4000  | 6010  | 222.4                     | 444.8  | 667.2  | 10.25                   |
| 180  | 32B   | 50.8       | 29.21                       | 30.99                                  | 17.81                     | 42.29                     | 58.55                     | 67.4                                  | 2000          | 4000  | 6010  | 250                       | 450    | 670    | 13.45                   |
|      | 36A   | 57.15      | 35.71                       | 35.48                                  | 17.46                     | 54.31                     | 65.84                     | 73.9                                  | 2870          | 5345  | 8010  | 280.2                     | 560.5  | 840.7  | 16.15                   |
| 200  | 40A   | 63.5       | 39.68                       | 37.85                                  | 19.85                     | 60.93                     | 71.55                     | 80.3                                  | 3110          | 6230  | 9340  | 347                       | 693.9  | 1040.9 | 16.35                   |
|      | 40E   | 63.5       | 39.37                       | 38.1                                   | 22.89                     | 52.95                     | 72.29                     | 82.6                                  | 3110          | 6230  | 9340  | 355                       | 630    | 950    | 23.20                   |
| 240  | 48A   | 76.2       | 47.63                       | 47.35                                  | 23.81                     | 72.39                     | 87.83                     | 95.5                                  | 4450          | 8900  | 13340 | 500.4                     | 1000.8 | 1501.3 | 25.00                   |
|      | 48B   | 76.2       | 48.26                       | 45.72                                  | 29.24                     | 63.66                     | 91.21                     | 99.1                                  | 4450          | 8900  | 13340 | 560                       | 1000   | 1500   |                         |
|      | 58E   | 88.9       | 53.98                       | 53.34                                  | 34.32                     | 77.55                     | 106.6                     | 114.6                                 | 6080          | 12160 | -     | 850                       | 1600   | 2240   |                         |
|      | 64B   | 101.6      | 63.5                        | 60.96                                  | 39.4                      | 90.17                     | 119.89                    | 130.9                                 | 7980          | 15920 | -     | 1120                      | 2000   | 3000   |                         |
| 72B  | 114.3 | 72.39      | 68.58                       | 44.48                                  | 103.63                    | 136.27                    | 147.4                     | 10100                                 | 20190         | -     | 1400  | 2500                      | 3750   |        |                         |

Note: Chains with nickel-plated, zinc-plated, stainless steel & attachment are available.

- 2) Chains with figure-eight shape plate, straight plate & other shapes are also available.
- 3) R- (Riveled Pin) C- (Cottered Pin)  
 H- (Heavy series) C. L- (Connecting Link)  
 O. L- (Offset link) are available.
- 4) Single strand, double strands, triplex strands & heavy series are available.



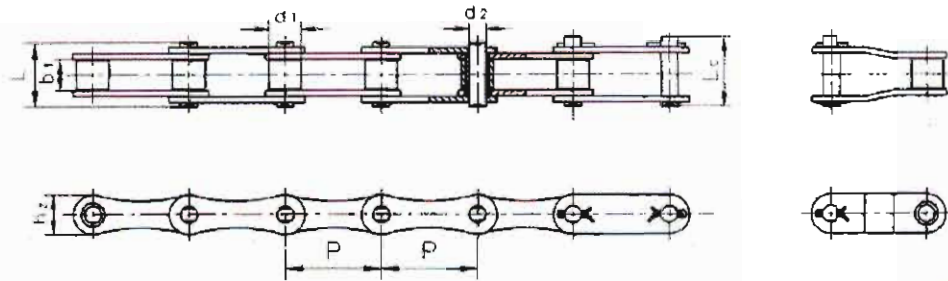
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## I -2 Double pitch precision roller chains for transmission conveyors

Standard: ISO1275-95 DIN8181-1984

ASME/ANSI B29.3M (B29.4M) -1994



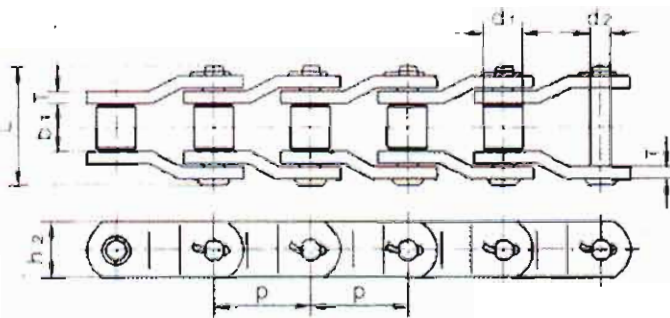
| ISO<br>DIN | ANSI             | pitch  | roller<br>diameter<br>d1<br>max | width<br>between<br>inner<br>plates<br>b1<br>min | bearing<br>pin<br>diameter<br>d2<br>max | width<br>over<br>bearing<br>pins<br>b4<br>max | inner<br>plate<br>depth<br>h2<br>max | ultimate<br>tensile<br>strength<br>Q<br>min | weight<br>q<br>= |
|------------|------------------|--------|---------------------------------|--|---|---|--------------------------------------|---|------------------|
| mm         |                  |        |                                 |  |   |   |                                      | kN  | kg/m             |
| 208A       | C<br>A 2040 2042 | 25.40  | 7.95                            | 7.85   | 3.96                                    | 17.8  | 12.07                                | 13.8  | 0.42             |
| 208B       |                  | 25.40  | 8.51                            | 7.75   | 4.45                                    | 17.0  | 11.81                                | 17.8  | 0.45             |
| 210A       | C<br>A 2050 2052 | 31.75  | 10.16                           | 9.40   | 5.08                                    | 21.8  | 15.09                                | 21.8  | 0.70             |
| 210B       |                  | 31.75  | 10.16                           | 9.65   | 5.08                                    | 19.5  | 14.7                                 | 22.4  | 0.65             |
| 212A       | C<br>A 2060 2062 | 38.10  | 11.91                           | 12.57  | 5.94                                    | 26.9  | 18.08                                | 31.1  | 1.00             |
| 212B       |                  | 38.10  | 12.07                           | 11.68  | 5.72                                    | 22.5  | 16.0                                 | 29.0  | 0.76             |
| 216A       | C<br>A 2080 2082 | 50.80  | 15.88                           | 15.75  | 7.92                                    | 33.5  | 24.13                                | 55.6  | 1.70             |
| 216B       |                  | 50.80  | 16.88                           | 17.02  | 8.28                                    | 36.1  | 21.0                                 | 60.0  | 1.75             |
| 220A       | C<br>A 2100 2102 | 63.50  | 19.05                           | 18.90  | 9.53                                    | 41.1  | 30.18                                | 86.70                                       | 2.55             |
| 220B       |                  | 63.50  | 19.05                           | 19.56  | 10.19                                   | 41.3  | 26.4                                 | 95.0  | 2.62             |
| 224A       | C<br>A 2100 2102 | 76.20  | 22.23                           | 25.22  | 11.1                                    | 50.8  | 36.20                                | 124.6                                       | 3.50             |
| 224B       |                  | 76.20  | 25.40                           | 25.4   | 14.63                                   | 53.4  | 33.2                                 | 160.0                                       | 4.70             |
| 228B       |                  | 88.90  | 27.94                           | 30.99  | 15.90                                   | 65.1  | 36.7                                 | 200.0                                       | 6.23             |
| 232B       |                  | 101.60 | 29.21                           | 30.99  | 17.81                                   | 66.0  | 42.0                                 | 250.0                                       | 6.72             |

⊙ Small roller type, Large roller type & attachments type K1, K2, H1, H2, D are available.



## I-3 Heavy-duty cranked-link roller chains for transmission.

standard: ISO3512: 1992 GB/T 5858-1997



| ISO   | pitch<br>p<br>mm | roller<br>dia.<br>d1<br>max | bearing<br>pin dia.<br>d2<br>max | plate<br>depth<br>h2<br>max | plate<br>thickness<br>T | test<br>strength<br>N | tensile<br>strength<br>min<br>kN |
|-------|------------------|-----------------------------|----------------------------------|-----------------------------|-------------------------|-----------------------|----------------------------------|
| 2 010 | 63.50            | 31.75                       | 15.90                            | 47.8                        | 7.9                     | 900                   | 250                              |
| 2 512 | 77.90            | 41.28                       | 19.08                            | 60.5                        | 9.7                     | 1 300                 | 340                              |
| 2 814 | 88.90            | 44.45                       | 22.25                            | 60.5                        | 12.7                    | 1 800                 | 470                              |
| 3 315 | 103.45           | 45.24                       | 23.85                            | 63.5                        | 14.2                    | 2 200                 | 550                              |
| 3 618 | 114.30           | 57.15                       | 27.97                            | 79.2                        | 14.2                    | 2 700                 | 760                              |
| 4 020 | 127.00           | 63.50                       | 31.78                            | 91.9                        | 15.7                    | 3 600                 | 990                              |
| 4 824 | 152.40           | 76.20                       | 38.13                            | 104.6                       | 19.0                    | 5 000                 | 1 400                            |
| 5 628 | 177.80           | 88.90                       | 44.48                            | 133.4                       | 22.4                    | 6 800                 | 1 890                            |

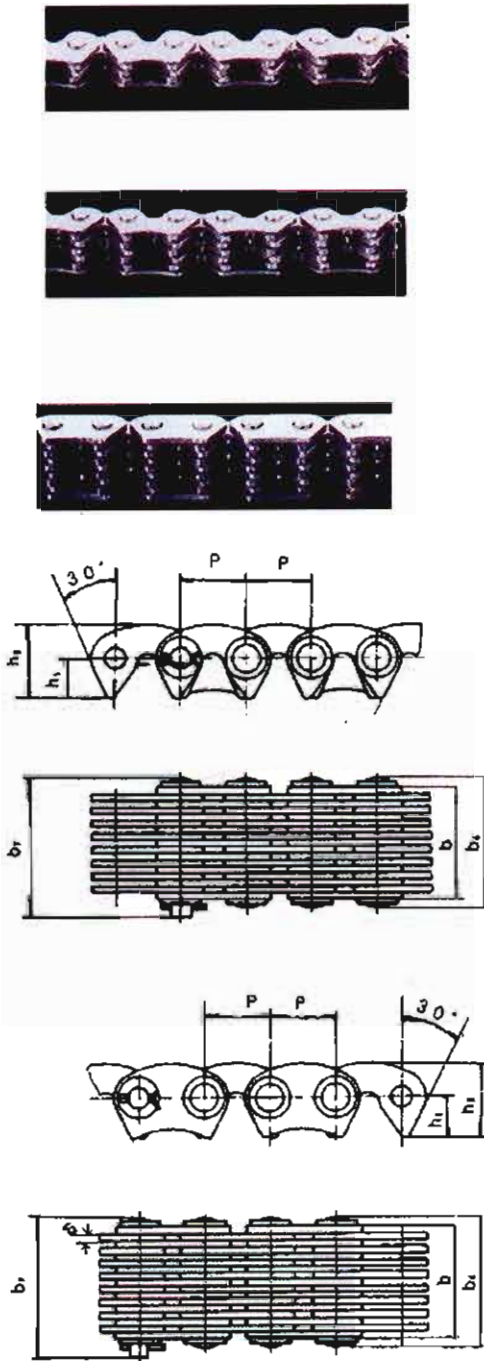


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# I-4. Inverted tooth chains (silent chains)

Standard: GB10855-89



Note: Flank contact type & crotch contact type both are available.

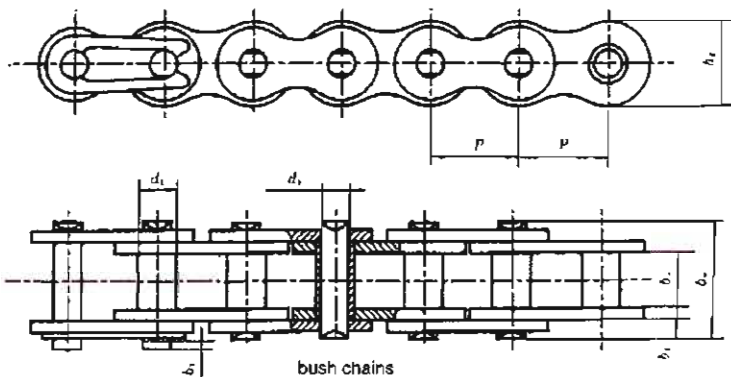
|      | P<br>pitch<br>mm | b<br>chain<br>width<br>min<br>mm | s<br>mm | H<br>min<br>mm | h<br>mm | δ<br>mm | b1<br>max<br>mm | b2<br>max<br>mm | guide<br>form | piece<br>number | ultimate<br>tensile<br>strength | weight per<br>meter |
|------|------------------|----------------------------------|---------|----------------|---------|---------|-----------------|-----------------|---------------|-----------------|---------------------------------|---------------------|
|      |                  |                                  |         |                |         |         |                 |                 |               | n               | min<br>daN                      | q =<br>kg/m         |
| CL06 | 9.525            | 13.5                             | 3.57    | 10.1           | 5.3     | 1.5     | 18.5            | 20              | outside       | 9               | 1 000                           | 0.60                |
|      |                  | 16.5                             |         |                |         |         | 21.5            | 23              | outside       | 11              | 1 250                           | 0.73                |
|      |                  | 19.5                             |         |                |         |         | 24.5            | 28              | outside       | 13              | 1 500                           | 0.85                |
|      |                  | 22.5                             |         |                |         |         | 27.5            | 29              | outside       | 15              | 1 750                           | 1.00                |
|      |                  | 28.5                             |         |                |         |         | 33.5            | 35              | inside        | 19              | 2 250                           | 1.26                |
|      |                  | 34.5                             |         |                |         |         | 39.5            | 41              | inside        | 23              | 2 750                           | 1.53                |
|      |                  | 40.5                             |         |                |         |         | 45.5            | 47              | inside        | 27              | 3 250                           | 1.79                |
| 46.5 | 51.5             | 53                               | inside  | 31             | 3 750   | 2.06    |                 |                 |               |                 |                                 |                     |
| 52.5 | 57.5             | 59                               | inside  | 35             | 4 250   | 2.33    |                 |                 |               |                 |                                 |                     |
| CL08 | 12.70            | 19.5                             | 4.76    | 13.4           | 7.0     | 1.5     | 24.5            | 26              | outside       | 13              | 2 340                           | 1.15                |
|      |                  | 22.5                             |         |                |         |         | 27.5            | 29              | outside       | 15              | 2 740                           | 1.33                |
|      |                  | 25.5                             |         |                |         |         | 30.5            | 32              | outside       | 17              | 3 130                           | 1.50                |
|      |                  | 28.5                             |         |                |         |         | 33.5            | 35              | inside        | 19              | 3 520                           | 1.68                |
|      |                  | 34.5                             |         |                |         |         | 39.5            | 41              | inside        | 23              | 4 300                           | 2.04                |
|      |                  | 40.5                             |         |                |         |         | 45.5            | 47              | inside        | 27              | 5 080                           | 2.39                |
|      |                  | 46.5                             |         |                |         |         | 51.5            | 53              | inside        | 31              | 5 860                           | 2.74                |
| 52.5 | 57.5             | 59                               | inside  | 35             | 6 640   | 3.01    |                 |                 |               |                 |                                 |                     |
| 58.5 | 63.5             | 66                               | inside  | 39             | 7 430   | 3.45    |                 |                 |               |                 |                                 |                     |
| 64.5 | 69.5             | 71                               | inside  | 43             | 8 210   | 3.81    |                 |                 |               |                 |                                 |                     |
| 70.5 | 75.5             | 77                               | inside  | 47             | 9 990   | 4.16    |                 |                 |               |                 |                                 |                     |
| CL10 | 15.875           | 38                               | 5.95    | 18.7           | 8.7     | 2.0     | 37              | 39              | inside        | 15              | 4 580                           | 2.21                |
|      |                  | 38                               |         |                |         |         | 45              | 47              | inside        | 19              | 5 860                           | 2.80                |
|      |                  | 46                               |         |                |         |         | 53              | 55              | inside        | 23              | 7 170                           | 3.39                |
|      |                  | 54                               |         |                |         |         | 61              | 63              | inside        | 27              | 8 470                           | 3.99                |
|      |                  | 62                               |         |                |         |         | 69              | 71              | inside        | 31              | 9 770                           | 4.58                |
|      |                  | 70                               |         |                |         |         | 77              | 79              | inside        | 35              | 11 100                          | 5.17                |
| 78   | 85               | 87                               | inside  | 39             | 12 400  | 5.76    |                 |                 |               |                 |                                 |                     |
| CL12 | 19.05            | 38                               | 7.14    | 20.1           | 10.5    | 2.0     | 45              | 47              | inside        | 19              | 7 040                           | 3.37                |
|      |                  | 46                               |         |                |         |         | 53              | 55              | inside        | 23              | 8 600                           | 4.08                |
|      |                  | 54                               |         |                |         |         | 61              | 63              | inside        | 27              | 10 200                          | 4.78                |
|      |                  | 62                               |         |                |         |         | 69              | 71              | inside        | 31              | 11 700                          | 5.50                |
|      |                  | 70                               |         |                |         |         | 77              | 79              | inside        | 35              | 13 300                          | 6.20                |
|      |                  | 78                               |         |                |         |         | 85              | 87              | inside        | 39              | 14 900                          | 6.91                |
| 86   | 93               | 95                               | inside  | 43             | 16 400  | 7.62    |                 |                 |               |                 |                                 |                     |
| 94   | 101              | 103                              | inside  | 47             | 18 000  | 8.33    |                 |                 |               |                 |                                 |                     |
| CL16 | 25.40            | 45                               | 9.52    | 26.7           | 14.0    | 3.0     | 53              | 56              | inside        | 15              | 11 100                          | 5.31                |
|      |                  | 51                               |         |                |         |         | 59              | 62              | inside        | 17              | 12 500                          | 6.02                |
|      |                  | 57                               |         |                |         |         | 65              | 68              | inside        | 19              | 14 100                          | 6.73                |
|      |                  | 69                               |         |                |         |         | 77              | 80              | inside        | 23              | 17 200                          | 8.15                |
|      |                  | 81                               |         |                |         |         | 89              | 92              | inside        | 27              | 20 300                          | 9.57                |
|      |                  | 93                               |         |                |         |         | 101             | 104             | inside        | 31              | 23 500                          | 10.98               |
| 105  | 113              | 116                              | inside  | 35             | 26 600  | 12.41   |                 |                 |               |                 |                                 |                     |
| 117  | 125              | 128                              | inside  | 39             | 29 700  | 13.82   |                 |                 |               |                 |                                 |                     |
| CL20 | 31.75            | 57                               | 11.91   | 33.4           | 17.5    | 3.0     | 87              | 70              | inside        | 19              | 16 500                          | 8.42                |
|      |                  | 69                               |         |                |         |         | 79              | 82              | inside        | 23              | 20 100                          | 10.19               |
|      |                  | 81                               |         |                |         |         | 91              | 94              | inside        | 27              | 23 700                          | 11.96               |
|      |                  | 93                               |         |                |         |         | 103             | 106             | inside        | 31              | 27 300                          | 13.73               |
|      |                  | 105                              |         |                |         |         | 115             | 118             | inside        | 35              | 31 000                          | 15.50               |
|      |                  | 117                              |         |                |         |         | 127             | 130             | inside        | 39              | 34 600                          | 17.27               |
| CL24 | 38.10            | 89                               | 14.29   | 40.1           | 21.0    | 3.0     | 81              | 84              | inside        | 23              | 24 100                          | 12.22               |
|      |                  | 81                               |         |                |         |         | 93              | 96              | inside        | 27              | 28 500                          | 14.35               |
|      |                  | 93                               |         |                |         |         | 105             | 108             | inside        | 31              | 32 800                          | 16.48               |
|      |                  | 105                              |         |                |         |         | 117             | 120             | inside        | 35              | 37 100                          | 18.61               |
|      |                  | 117                              |         |                |         |         | 129             | 132             | inside        | 39              | 41 500                          | 20.73               |
|      |                  | 129                              |         |                |         |         | 141             | 144             | inside        | 43              | 45 800                          | 22.86               |
| 141  | 153              | 156                              | inside  | 47             | 50 200  | 24.99   |                 |                 |               |                 |                                 |                     |



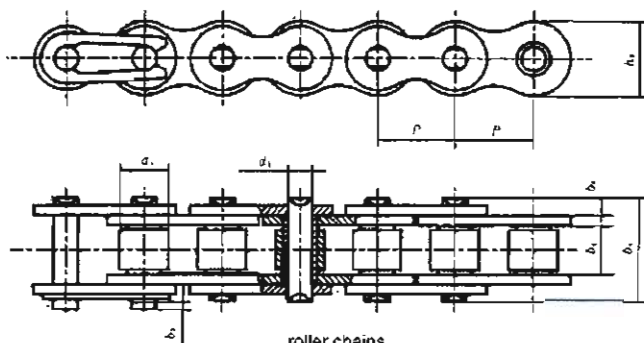
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1-5 Motorcycle chains  
 standard: GB/T14212-93



| JIS | ISO  | pitch<br>mm<br>p | bush dia.<br>d1<br>max | width<br>between<br>inner<br>plates<br>b1<br>min | 1 )<br>pin dia.<br>d2 | width<br>over<br>bearing<br>pins<br>b4<br>max | inner<br>plate<br>depth<br>h2<br>max | plate<br>thickness<br>bB | ultimate<br>tensile<br>strength<br>Q<br>min<br>N | weight<br>per<br>meter<br>kg/m |
|-----|------|------------------|------------------------|--|-----------------------|---|--------------------------------------|--------------------------|--|--------------------------------|
| 25H | 04MA | 6.35             | 3.30                   | 3.10   | 2.3                   | 9.1   | 6.0                                  | 1.0                      | 4 500  | 0.17                           |
| 219 | 05MA | 7.774            | 4.69                   | 4.68   | 3.0                   | 12.0  | 7.5                                  | 1.2                      | 6 600  | 0.27                           |
|     | 05MB | 8.00             | 4.77                   | 5.72   | 3.3                   | 13.9  | 7.5                                  | 1.4                      | 8 900  | 0.33                           |
| 270 | 05MC | 8.50             | 5.00                   | 4.75   | 3.3                   | 13.3  | 8.6                                  | 1.6                      | 9 800  | 0.39                           |
| T3F | 06MA | 9.525            | 6.00                   | 6.50   | 4.5                   | 18.6  | 9.3                                  | 1.8                      | 11 800   | 0.61                           |



| JCAS | GB      | pitch<br>P | roller dia.<br>d1<br>max | width<br>between<br>inner<br>plates<br>b1<br>min | 1 )<br>pin dia.<br>d2 | width<br>over<br>bearing<br>pins<br>b4<br>max | inner<br>plate<br>depth<br>h2<br>max | plate<br>thickness<br>bB | ultimate<br>tensile<br>strength<br>Q<br>min<br>N | weight<br>per<br>meter<br>kg/m |
|------|---------|------------|--------------------------|--|-----------------------|---|--------------------------------------|--------------------------|--|--------------------------------|
| mm   |         |            |                          |  |                       |   |                                      |                          |  |                                |
| 415  | 083     | 12.70      | 7.75                     | 4.88   | 4.0                   | 12.9  | 10.3                                 | 1.4                      | 11 600   | 0.41                           |
| 415H | 084     | 12.70      | 7.75                     | 4.88   | 4.0                   | 14.8  | 11.2                                 | 1.7                      | 15 600   | 0.59                           |
| 420  | 08MA    | 12.70      | 7.77                     | 6.25   | 4.0                   | 16  | 12.1                                 | 1.5                      | 16 000   | 0.58                           |
| 420H |         | 12.70      | 7.77                     | 6.25   | 4.0                   | 16  | 12.1                                 | 1.8                      | 20 000   | 0.63                           |
| 428  | 08MB    | 12.70      | 8.51                     | 7.75   | 4.4                   | 17  | 12.5                                 | 1.5                      | 17 800   | 0.71                           |
| 428H | 08MC    | 12.70      | 8.51                     | 7.75   | 4.4                   | 19.3  | 12.5                                 | 2                        | 20 600   | 0.79                           |
|      | 08MB-22 | 12.70      | 8.51                     | 7.75   | 4.4                   | 31.2  | 12.5                                 | 1.5                      | 31 100   |                                |
| 520M | 10MA    | 15.875     | 10.16                    | 6.25   | 5.2                   | 19  | 15.3                                 | 2                        | 26 500   | 0.94                           |
|      | 10MB    | 15.875     | 10.16                    | 9.40   | 5.2                   | 22  | 15.3                                 | 2                        | 26 500   | 1.06                           |
| 530M | 12MA    | 19.05      | 11.91                    | 9.40   | 5.9                   | 24  | 18.6                                 | 2.4                      | 35 000   | 1.15                           |

1) 08MB-2 is two strands with transverse, pitch=14.35mm.

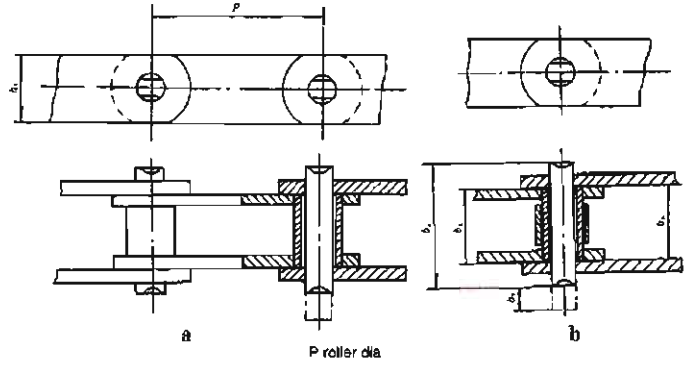


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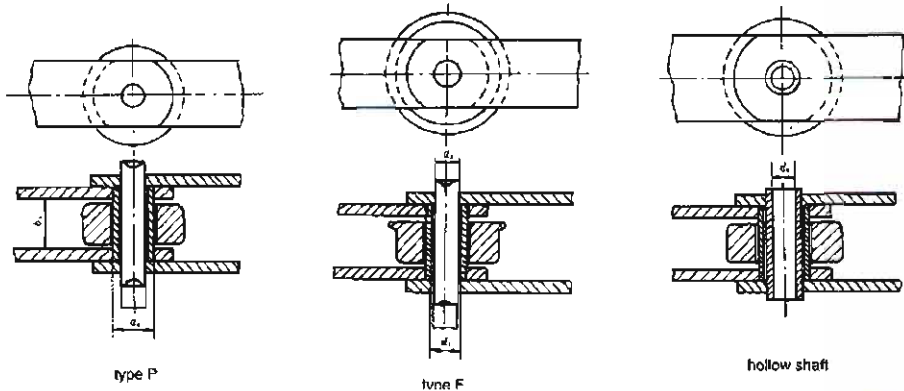


# 11-1 Solid shaft chains & hollow shaft chains

Standard: ISO1977/ I-1976, II, III-1974



| ISO  | ultimate tensile strength Q kN | P roller dia. d1 max | pitch P |    |    |    |     |     |     |     |     |     |     |     |     | pin dia. d2 max | bush inner dia. d3 max | bush outer dia. d4 mix | plate depth h2 max | width between inner links b1 min | pin length b4 max | width between outer links b3 min | S roller dia. d7 max |      |      |
|------|--------------------------------|----------------------|---------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|------------------------|------------------------|--------------------|----------------------------------|-------------------|----------------------------------|----------------------|------|------|
|      |                                |                      | 40      | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 |                 |                        |                        |                    |                                  |                   |                                  |                      | 800  | 1000 |
|      |                                |                      |         |    |    |    |     |     |     |     |     |     |     |     |     |                 |                        |                        |                    |                                  |                   |                                  |                      |      |      |
| M20  | 20                             | 25                   | x       | /  | /  | /  | /   | /   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 6.0                    | 6.1                | 9.0                              | 19                | 15                               | 35                   | 12.5 | 12.5 |
| M28  | 28                             | 30                   |         | x  | /  | /  | /   | /   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 7.0                    | 7.1                | 10.0                             | 21                | 17                               | 40                   | 14.0 | 15.0 |
| M40  | 40                             | 36                   |         |    | x  | /  | /   | /   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 8.5                    | 8.6                | 12.5                             | 28                | 19                               | 45                   | 17.0 | 18.0 |
| M56  | 56                             | 42                   |         |    |    | x  | /   | /   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 10.0                   | 10.1               | 15.0                             | 31                | 23                               | 52                   | 20.5 | 21.0 |
| M80  | 80                             | 50                   |         |    |    |    | x   | /   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 12.0                   | 12.1               | 18.0                             | 38                | 27                               | 62                   | 23.5 | 25.0 |
| M112 | 112                            | 60                   |         |    |    |    |     | x   | /   | /   | /   | /   | /   | /   | /   | /               | /                      | 15.0                   | 15.1               | 21.0                             | 41                | 31                               | 73                   | 27.5 | 30.0 |
| M160 | 160                            | 70                   |         |    |    |    |     |     | x   | /   | /   | /   | /   | /   | /   | /               | /                      | 18.0                   | 18.1               | 25.0                             | 51                | 36                               | 85                   | 34.0 | 36.0 |
| M224 | 224                            | 85                   |         |    |    |    |     |     |     | x   | /   | /   | /   | /   | /   | /               | /                      | 21.0                   | 21.2               | 30.0                             | 62                | 42                               | 98                   | 40.0 | 42.0 |
| M315 | 315                            | 100                  |         |    |    |    |     |     |     |     | x   | /   | /   | /   | /   | /               | /                      | 25.0                   | 25.2               | 38.0                             | 72                | 48                               | 112                  | 47.0 | 50.0 |
| M450 | 450                            | 120                  |         |    |    |    |     |     |     |     |     | x   | /   | /   | /   | /               | /                      | 30.0                   | 30.2               | 42.0                             | 82                | 55                               | 135                  | 55.0 | 50.0 |
| M630 | 630                            | 140                  |         |    |    |    |     |     |     |     |     |     | x   | /   | /   | /               | /                      | 36.0                   | 36.2               | 36.0                             | 105               | 65                               | 154                  | 66.5 | 70.0 |
| M900 | 900                            | 170                  |         |    |    |    |     |     |     |     |     |     |     | x   | /   | /               | /                      | 44.0                   | 44.2               | 60.0                             | 123               | 76                               | 180                  | 81.0 | 85.0 |



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| ISO   | ultimate tensile strength<br>Q<br>kN | P roller dia.<br>d1<br>max | P pitch |    |     |     |     |     |     |     |     |     | hollow shaft outer dia.<br>d2<br>max | plate height<br>h2<br>max | width between inner links<br>b1<br>min | pin length<br>b4<br>max | F roller               |                         | hollow shaft inner dia.<br>d5<br>min |
|-------|--------------------------------------|----------------------------|---------|----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------------|---------------------------|--|-------------------------|------------------------|-------------------------|--------------------------------------|
|       |                                      |                            | 53      | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 |                                      |                           |  |                         | side dia.<br>d5<br>max | side width<br>b1<br>max |                                      |
|       |                                      |                            |         |    |     |     |     |     |     |     |     |     |                                      |                           |  |                         |                        |                         |                                      |
| MC28  | 28                                   | 35.0                       |         |    |     |     |     |     |     |     |     |     | 13.0                                 | 26.0                      | 19.0                                   | 42.0                    | 45.0                   | 4.5                     | 8.2                                  |
| MC56  | 56                                   | 50.0                       |         |    |     |     |     |     |     |     |     |     | 15.5                                 | 36.0                      | 22.0                                   | 48.0                    | 65.0                   | 5.0                     | 10.2                                 |
| MC112 | 112                                  | 70.0                       |         |    |     |     |     |     |     |     |     |     | 22.0                                 | 61.0                      | 30.0                                   | 87.0                    | 90.0                   | 7.0                     | 14.3                                 |
| MC224 | 224                                  | 100.0                      |         |    |     |     |     |     |     |     |     |     | 31.0                                 | 72.0                      | 40.0                                   | 90.0                    | 125.0                  | 10.0                    | 20.3                                 |

## II – 2 Steel roller chains, type S and C (Agricultural chains)

Standard: ISO487-1984 GB10857-1989, DIN8189-1987 ASME B29.19M-1996

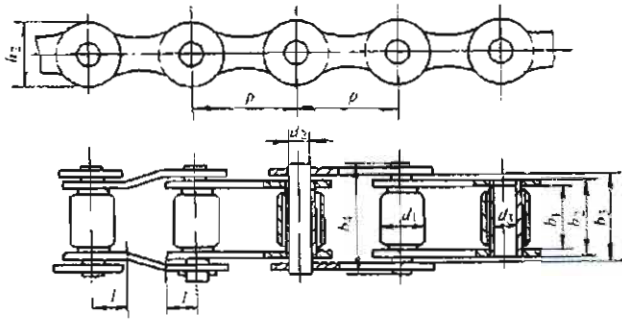
| ISO   | pitch<br>p | roller dia.<br>d1<br>max | width between inner plates<br>b1<br>min | width between outer plates<br>b3<br>min | plate depth<br>h2<br>max | bearing pin dia.<br>d2<br>max | width over inner plates<br>b2<br>max | width over pin<br>b4<br>max | ultimate tensile strength<br>Q<br>min | weight<br>kg/m<br>g= |
|-------|------------|--------------------------|---|---|--------------------------|-------------------------------|--------------------------------------|-----------------------------|---------------------------------------|----------------------|
|       |            |                          |   |   |                          |                               |                                      |                             |                                       |                      |
| S32   | 29.21      | 11.43                    | 15.88                                   | 20.57                                   | 13.5                     | 4.47                          | 20.19                                | 26.7                        | 8.0                                   | 0.76                 |
| S42   | 34.93      | 14.27                    | 19.05                                   | 25.65                                   | 19.8                     | 7.01                          | 25.40                                | 34.3                        | 26.7                                  | 1.61                 |
| S45   | 41.40      | 15.24                    | 22.23                                   | 28.96                                   | 17.3                     | 5.74                          | 28.58                                | 38.1                        | 17.8                                  | 1.46                 |
| S52   | 38.10      | 15.24                    | 22.23                                   | 28.96                                   | 17.3                     | 5.74                          | 28.58                                | 38.1                        | 17.8                                  | 1.56                 |
| S55   | 41.40      | 17.78                    | 22.23                                   | 28.96                                   | 17.3                     | 5.74                          | 28.58                                | 38.1                        | 17.8                                  | 1.65                 |
| S62   | 41.91      | 19.05                    | 25.40                                   | 32.00                                   | 17.3                     | 5.74                          | 31.80                                | 40.6                        | 26.7                                  | 1.87                 |
| S77   | 58.34      | 18.26                    | 22.23                                   | 31.50                                   | 26.2                     | 8.92                          | 31.17                                | 43.2                        | 44.5                                  | 2.57                 |
| S88   | 68.27      | 22.86                    | 28.58                                   | 37.85                                   | 26.2                     | 8.92                          | 37.52                                | 50.8                        | 44.5                                  | 3.26                 |
| C550  | 41.40      | 16.87                    | 19.81                                   | 26.16                                   | 20.2                     | 7.19                          | 26.04                                | 35.60                       | 39.1                                  | 1.95                 |
| C620  | 42.01      | 17.91                    | 24.51                                   | 31.72                                   | 20.2                     | 7.19                          | 31.60                                | 42.20                       | 39.1                                  | 2.35                 |
| A550  | 41.40      | 16.86                    | 19.81                                   | 26.04                                   | 20.0                     | 7.19                          | 25.91                                | 35.50                       | 37.8                                  | 2.02                 |
| A555  | 41.40      | 16.86                    | 12.45                                   | 20.32                                   | 20.0                     | 7.19                          | 19.18                                | 30.30                       | 37.8                                  | 1.89                 |
| A557  | 41.40      | 18.03                    | 19.25                                   | 27.67                                   | 23.1                     | 8.00                          | 26.21                                | 37.60                       | 40.0                                  | 2.62                 |
| A620  | 42.01      | 17.91                    | 24.51                                   | 31.72                                   | 20.0                     | 7.19                          | 31.60                                | 42.16                       | 37.8                                  | 2.60                 |
| CA550 | 41.40      | 16.86                    | 19.81                                   | 26.04                                   | 20.0                     | 7.19                          | 25.91                                | 35.50                       | 37.8                                  | 2.04                 |
| CA555 | 41.40      | 16.86                    | 12.45                                   | 20.32                                   | 20.0                     | 7.19                          | 19.18                                | 30.30                       | 37.8                                  | 1.91                 |
| CA557 | 41.40      | 18.03                    | 19.25                                   | 27.67                                   | 23.1                     | 8.00                          | 26.21                                | 37.60                       | 40.0                                  | 2.84                 |
| CA620 | 42.01      | 17.91                    | 24.51                                   | 31.72                                   | 20.0                     | 7.19                          | 31.60                                | 42.16                       | 37.8                                  | 2.62                 |
| CA650 | 50.80      | 19.05                    | 19.05                                   | 27.05                                   | 25.5                     | 9.53                          | 26.93                                | 40.40                       | 47.2                                  | 3.68                 |

AH, K1, K8, K17, K19, K25, K27, K29, K39, A, B, C, C6E, C11, C13, C17, C117, CD, F1, F4, F14, HB4, M1, SD(F4), SE(F1) are available.



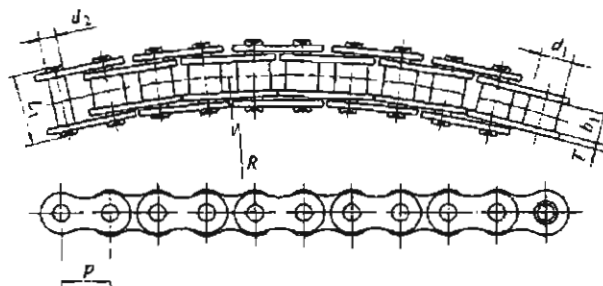
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### II – 3 Curved chains

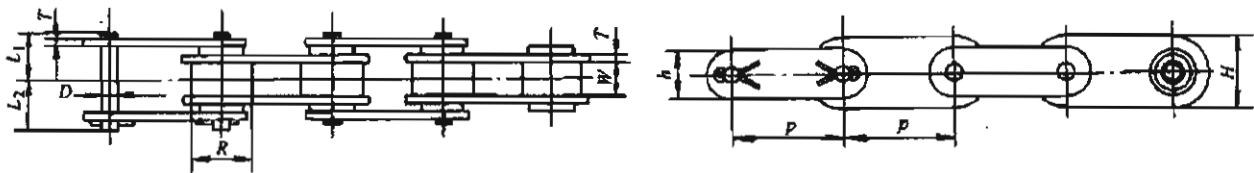
Standard: ISO487-1984 GB10857-1989, DIN8189-1987 ASME B29.19M-1996



(mm)

| ISO  | pitch<br>p | roller     |               | rivet head<br>to center<br>line<br>A | fastener to<br>center line<br>B | width over<br>rivet pin<br>C | plate               |                         | pin<br>diameter<br>E | min.<br>radius<br>R | (°)<br>turning<br>angle/300mm | tensile<br>strength |     |
|------|------------|------------|---------------|--------------------------------------|---------------------------------|------------------------------|---------------------|-------------------------|----------------------|---------------------|-------------------------------|---------------------|-----|
|      |            | width<br>w | diameter<br>D |                                      |                                 |                              | plate<br>depth<br>H | plate<br>thickness<br>T |                      |                     |                               | N                   | min |
| 35SB | 9.525      | 4.76       | 5.08          | 6.747                                | 8.73                            | 12.30                        | 9.13                | 1.27                    | 3.175                | 254                 | 72                            | 7650                |     |
| 40SB | 12.7       | 7.94       | 7.93          | 9.128                                | 11.11                           | 16.27                        | 11.91               | 1.52                    | 3.454                | 355.6               | 45                            | 9900                |     |
| 50SB | 15.875     | 9.53       | 10.18         | 11.51                                | 13.89                           | 20.64                        | 15.08               | 2.03                    | 4.369                | 406.4               | 38                            | 15975               |     |
| 60SB | 19.05      | 12.70      | 11.91         | 13.88                                | 15.88                           | 25.80                        | 17.86               | 2.39                    | 5.08                 | 508                 | 27                            | 22185               |     |
| 80SB | 25.4       | 15.88      | 15.88         | 17.07                                | 19.05                           | 29.77                        | 34.13               | 3.175                   | 7.188                | 711.2               | 18                            | 49500               |     |

### II – 4 Bearing bush conveyor chains

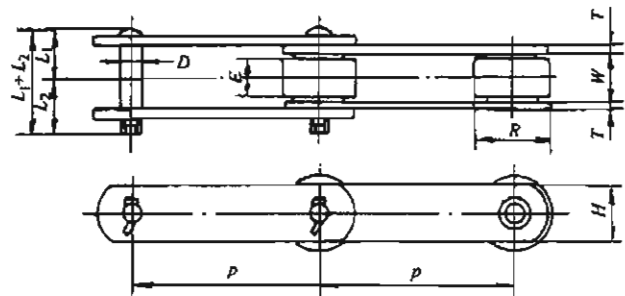
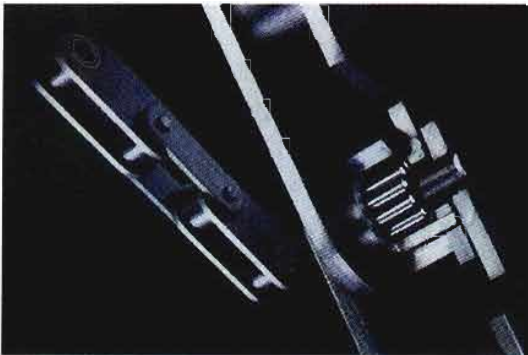


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| chain No. | ultimate work load /N | pitch P | width between inner links W | roller outer dia. R | pin   |       |      | plate |      |     | weight (kg/m) ≈ | attachment |       |       |      |      |     | alt. weight |       |       |
|-----------|-----------------------|---------|-----------------------------|---------------------|-------|-------|------|-------|------|-----|-----------------|------------|-------|-------|------|------|-----|-------------|-------|-------|
|           |                       |         |                             |                     | L1    | L2    | D    | h     | H    | T   |                 | S          | C     | X(X2) | N    | K    | T   | O           | A2    | K2    |
|           |                       |         |                             |                     | mm    |       |      |       |      |     |                 |            |       |       |      |      |     |             |       |       |
| RFN2040R  | 780                   | 25.40   | 7.95                        | 15.88               | 8.25  | 9.95  | 3.97 | 12.0  | 17.5 | 1.5 | 0.99            | 9.1        | 12.7  | 19.3  | 19.1 | 9.5  | 1.5 | 3.6         | 0.003 | 0.006 |
| RFN2050R  | 1270                  | 31.75   | 9.53                        | 19.05               | 10.30 | 12.00 | 4.97 | 15.0  | 21.0 | 2.0 | 1.72            | 11.1       | 15.9  | 24.2  | 23.8 | 11.9 | 2.0 | 5.2         | 0.006 | 0.012 |
| RFN2060R  | 1770                  | 38.10   | 12.70                       | 22.23               | 14.55 | 16.55 | 5.96 | 17.2  | 26.0 | 3.2 | 2.57            | 14.7       | 21.45 | 31.5  | 28.6 | 14.3 | 3.2 | 5.2         | 0.017 | 0.034 |
| RFN2080R  | 2940                  | 50.80   | 15.88                       | 28.58               | 18.30 | 20.90 | 7.94 | 23.0  | 35.0 | 4.0 | 3.88            | 19.1       | 27.8  | 40.7  | 38.1 | 19.1 | 4.0 | 6.8         | 0.032 | 0.064 |

## II -5 Bearing roller conveyor chains



| JIS       | average tensile strength /kN | work load permissible /kN | roller load permissible /kN | pitch P | roller |    | width between inner plate W | plate |      |
|-----------|------------------------------|---------------------------|-----------------------------|---------|--------|----|-----------------------------|-------|------|
|           |                              |                           |                             |         | R      | E  |                             | H     | T    |
| RF03075BR | 29                           | 4                         | 2                           | 75      | 31.8   | 14 | 16.1                        | 22    | 3.2  |
| RF03100BR | 29                           | 4                         | 2                           | 100     | 31.8   | 14 | 16.1                        | 22    | 3.2  |
| RF05100BR | 69                           | 10                        | 3.1                         | 100     | 40     | 19 | 22                          | 32    | 4.5  |
| RF05150BR | 69                           | 10                        | 3.1                         | 150     | 40     | 19 | 22                          | 32    | 4.5  |
| RF 450BR  | 78                           | 11                        | 4.2                         | 101.6   | 44.5   | 23 | 27                          | 28.6  | 6.3  |
| RF08150BR | 78                           | 11                        | 4.2                         | 150     | 44.5   | 23 | 27                          | 28.6  | 6.3  |
| RF10100BR | 113                          | 16                        | 5.6                         | 100     | 50.8   | 27 | 30                          | 38.1  | 6.3  |
| RF10150BR | 113                          | 16                        | 5.6                         | 150     | 50.8   | 27 | 30                          | 38.1  | 6.3  |
| RF12200BR | 186                          | 26                        | 8.5                         | 200     | 65     | 32 | 37.1                        | 44.5  | 7.9  |
| RF12250BR | 186                          | 26                        | 8.5                         | 250     | 65     | 32 | 37.1                        | 44.5  | 7.9  |
| RF17200BR | 245                          | 34                        | 14.4                        | 200     | 80     | 44 | 51.4                        | 50.8  | 9.5  |
| RF17250BR | 245                          | 34                        | 14.4                        | 250     | 80     | 44 | 51.4                        | 50.8  | 9.5  |
| RF17300BR | 245                          | 34                        | 14.4                        | 300     | 80     | 44 | 51.4                        | 50.8  | 9.5  |
| RF26250BR | 314                          | 44                        | 20                          | 250     | 100    | 50 | 57.2                        | 63.5  | 9.5  |
| RF26300BR | 314                          | 44                        | 20                          | 300     | 100    | 50 | 57.2                        | 63.5  | 9.5  |
| RF26450BR | 314                          | 44                        | 20                          | 450     | 100    | 50 | 57.2                        | 63.5  | 9.5  |
| RF36300BR | 476                          | 68                        | 28                          | 300     | 125    | 56 | 66.7                        | 76.2  | 12.7 |
| RF36450BR | 476                          | 68                        | 28                          | 450     | 125    | 56 | 66.7                        | 76.2  | 12.7 |
| RF36600BR | 476                          | 68                        | 28                          | 600     | 125    | 56 | 66.7                        | 76.2  | 12.7 |



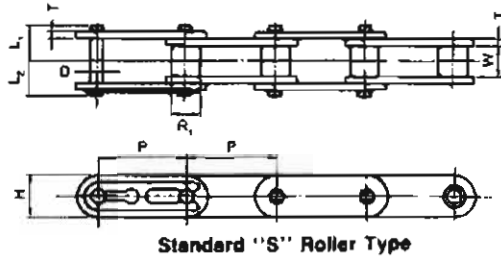
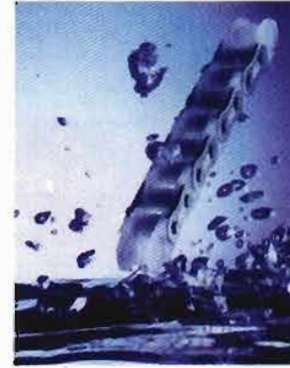
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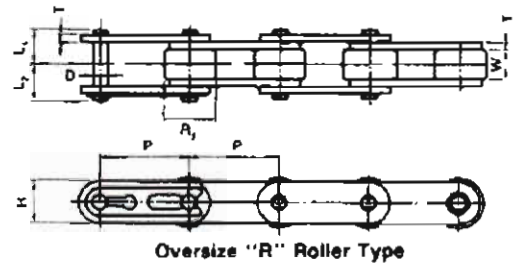


## II -6 Plastic sleeve chains

Standard: JB/T 8920-1999 available



Standard "S" Roller Type

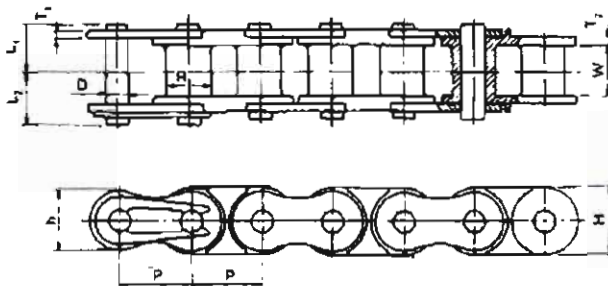


Oversize "R" Roller Type

| chain No.                 | pitch<br>P | width<br>between<br>roller link<br>plates<br>W | roller dia.      |                  | link plate |                | maximum<br>allowable tension |       | allowable roller load<br>kg/roller |                          | approx. weight<br>kg/m |                       |      |      |
|---------------------------|------------|--|------------------|------------------|------------|----------------|------------------------------|-------|------------------------------------|--------------------------|------------------------|-----------------------|------|------|
|                           |            |  | "S" roller<br>R1 | "R" roller<br>R2 | width<br>H | thickness<br>T | kN                           | (kgf) | "R" roller<br>N<br>(kgf)           | "S" roller<br>N<br>(kgf) | plastic<br>"R" roller  | plastic<br>"S" roller |      |      |
| RFS2040S(-D) RFS2040R(-D) | 25.40      | 7.95   | 7.94             | 1.50             | 12.00      | 3.97           | 0.44                         | 45    | 0.2                                | 20                       | 0.02                   | 2                     | 0.50 | 0.44 |
| RFS2050S(-D) RFS2050R(-D) | 31.75      | 9.53   | 10.16            | 2.00             | 15.00      | 5.09           | 0.69                         | 70    | 0.3                                | 30                       | 0.03                   | 3                     | 0.81 | 0.76 |
| RFS2060S(-D) RFS2060R(-D) | 38.10      | 12.70  | 11.91            | 3.20             | 17.20      | 5.96           | 1.03                         | 105   | 0.5                                | 50                       | 0.05                   | 5                     | 1.45 | 1.36 |

Note: Attachment chains are also available.

## II -7 Poly-steel chains



| chain No. | pitch<br>P | bushing dia.<br>R | inside width<br>of inner link<br>W | link plate |     |      |      | pin  |       |       | maximum<br>allowable tension<br>kN (kgf) | approximate<br>weight<br>kg/m |
|-----------|------------|-------------------|------------------------------------|------------|-----|------|------|------|-------|-------|--|-------------------------------|
|           |            |                   |                                    | T1         | T2  | H    | h    | D    | L1    | L2    |  |                               |
| RF25PC    | 6.35       | 3.30              | 3.18                               | 0.75       | 1.3 | 6.0  | 5.05 | 2.31 | 4.50  | 5.50  | 0.06 (8)                                 | .065                          |
| RF35PC    | 9.525      | 5.08              | 4.78                               | 1.25       | 2.2 | 9.0  | 7.8  | 3.59 | 6.65  | 7.85  | 0.18 (18)                                | .22                           |
| RF40PC    | 12.70      | 7.9               | 7.95                               | 1.5        | 1.5 | 12.0 | 10.4 | 3.97 | 8.25  | 9.95  | 0.44 (45)                                | .39                           |
| RF50PC    | 15.875     | 10.16             | 9.53                               | 2.0        | 2.0 | 15.0 | 13.0 | 5.09 | 10.30 | 12.00 | 0.69 (70)                                | .58                           |
| RF60PC    | 19.05      | 11.91             | 12.70                              | 2.4        | 2.4 | 18.1 | 15.6 | 5.96 | 12.85 | 14.75 | 0.88 (90)                                | .82                           |



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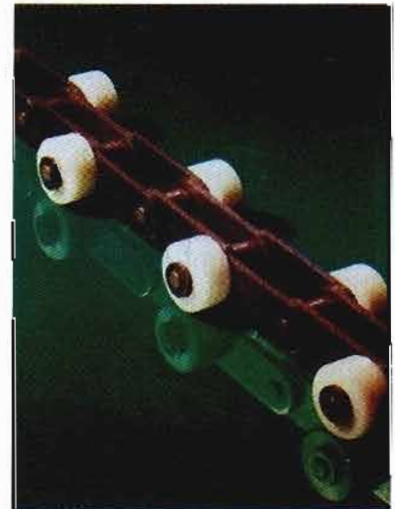
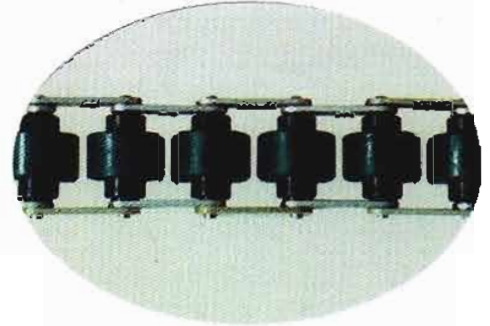
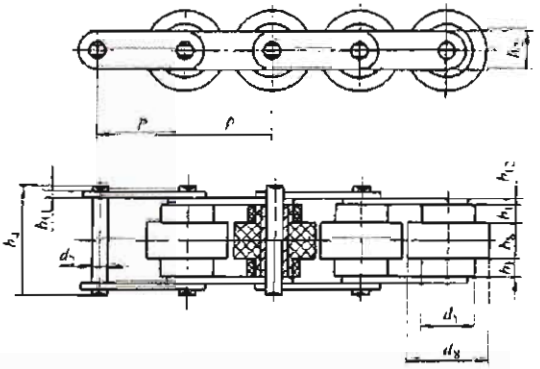
## II - 8 Double plus conveyor chain Standard: JB/ T 7364-94

2.5 Times Speed (mm)

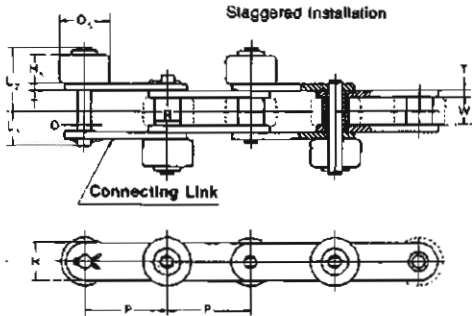
| chain No.  | Pitch<br>P | roller<br>dia.<br>d1 | wheel<br>dia.<br>da | roller<br>height<br>b1<br>min | wheel<br>height<br>ba | pin dia.<br>d2 | plate<br>depth<br>h2 | outer<br>plate<br>thickness<br>b11 | inner<br>plate<br>thickness<br>b12 | pin<br>length<br>b4 | closing<br>pin length<br>b7 |
|------------|------------|----------------------|---------------------|-------------------------------|-----------------------|----------------|----------------------|------------------------------------|------------------------------------|---------------------|-----------------------------|
|            |            | max                  |                     |                               |                       |                |                      |                                    |                                    |                     |                             |
| BS25-C206B | 19.05      | 11.91                | 18.3                | 4.0                           | 8.0                   | 3.28           | 8.26                 | 1.3                                | 1.5                                | 24.2                | 27.5                        |
| BS25-C208A | 25.4       | 25.88                | 24.6                | 6.7                           | 10.3                  | 3.96           | 12.07                | 1.5                                | 2.0                                | 32.6                | 36.5                        |
| BS25-C210A | 31.75      | 19.05                | 30.8                | 7.1                           | 13.0                  | 5.08           | 15.09                | 2.0                                | 2.4                                | 40.2                | 44.3                        |
| BS25-C212A | 38.1       | 22.23                | 36.6                | 8.5                           | 15.5                  | 5.94           | 18.08                | 3.0                                | 4.0                                | 51.1                | 55.7                        |
| BS25-C216A | 50.8       | 28.58                | 49.0                | 11.0                          | 21.5                  | 7.92           | 24.13                | 4.0                                | 5.0                                | 68.2                | 71.6                        |

3 Times Speed (mm)

| chain No.  | pitch<br>P | roller<br>dia.<br>d1 | wheel<br>dia.<br>da | roller<br>height<br>b1<br>min | wheel<br>height<br>ba | pin dia.<br>d2 | plate<br>depth<br>h2 | outer<br>plate<br>thickness<br>b11 | inner<br>plate<br>thickness<br>b12 | pin<br>length<br>b4 | closing<br>pin length<br>b7 |
|------------|------------|----------------------|---------------------|-------------------------------|-----------------------|----------------|----------------------|------------------------------------|------------------------------------|---------------------|-----------------------------|
|            |            | max                  |                     |                               |                       |                |                      |                                    |                                    |                     |                             |
| BS30-C206B | 19.05      | 9.00                 | 18.3                | 4.50                          | 9.1                   | 3.28           | 7.28                 | 1.3                                | 1.5                                | 26.3                | 29.6                        |
| BS30-C208A | 25.40      | 11.91                | 24.6                | 6.10                          | 12.5                  | 3.96           | 9.80                 | 1.5                                | 2.0                                | 35.6                | 39.5                        |
| BS30-C210A | 31.75      | 14.08                | 30.6                | 7.50                          | 15.0                  | 5.08           | 12.20                | 2.0                                | 2.4                                | 43.0                | 47.1                        |
| BS30-C212A | 38.10      | 18.00                | 37.0                | 9.75                          | 20.0                  | 5.94           | 15.00                | 3.0                                | 4.0                                | 58.1                | 62.7                        |
| BS30-C216A | 50.80      | 22.23                | 49.0                | 12.00                         | 25.2                  | 7.92           | 18.60                | 4.0                                | 5.0                                | 71.9                | 77.3                        |



## II - 9 Plastic outboard conveyor chains



Note: Crosswise installation is available.

| chain No.      |                           | pitch<br>P | roller<br>dia.<br>R | width<br>between<br>roller link<br>plates |      | link plate |       |       | pin   |       |       | outboard<br>roller                              |   | approximate weight<br>kg/m                    |      |  |
|----------------|---------------------------|------------|---------------------|---|------|------------|-------|-------|-------|-------|-------|---|---|---|------|--|
| regular series | electro-conductive series |            |                     | T   | H1   | D          | L1    | L2    | L3    | Ds    | S     | carbon steel chain with plastic outboard roller | plastic roller chain with plastic outboard roller | carbon steel chain with steel outboard roller |      |  |
| RF2040S-PSR    | RF2040S-PSRE              | 25.40      | 7.94                | 7.95                                      | 1.50 | 12.00      | 3.97  | 9.65  | 17.90 | 18.30 | 15.88 | 7.80  | 0.66  | -   | 1.02 |  |
| RF2050S-PSR    | RF2050S-PSRE              | 31.75      | 10.16               | 9.53                                      | 2.00 | 15.00      | 5.09  | 11.90 | 21.60 | 23.20 | 19.05 | 9.40  | 1.03  | -   | 1.53 |  |
| RF2060S-PSR    | RF2060S-PSRE              | 38.10      | 11.91               | 12.70                                     | 3.20 | 17.20      | 5.98  | 16.95 | 29.65 | 32.05 | 22.23 | 12.60   | 1.80  | -   | 2.56 |  |
| RF2080S-PSR    | RF2080S-PSRE              | 50.80      | 15.88               | 15.68                                     | 4.00 | 23.00      | 7.94  | 20.95 | 36.65 | 39.65 | 28.58 | 15.80   | 3.12  | -   | 4.30 |  |
| RF2100S-PSR    | -                         | 63.50      | 19.05               | 19.05                                     | 4.80 | 28.60      | 9.54  | 24.50 | 44.20 | 47.30 | 39.69 | 19.00   | 4.77  | -   | 7.00 |  |
| RF2040R-PSR    | RF2040R-PSRE              | 25.40      | 15.88               | 7.95                                      | 1.50 | 12.00      | 3.97  | 9.65  | 23.10 | 24.50 | 23.00 | 13.00   | 1.24  | 0.69  | -    |  |
| RF2050R-PSR    | RF2050R-PSRE              | 31.75      | 19.05               | 9.53                                      | 2.00 | 15.00      | 5.109 | 11.90 | 25.30 | 27.00 | 27.00 | 13.00   | 1.70  | 1.23  | -    |  |
| RF2060R-PSR    | RF2060R-PSRE              | 38.10      | 22.23               | 12.70                                     | 3.20 | 17.20      | 5.96  | 16.95 | 30.05 | 32.45 | 30.00 | 13.00   | 2.64  | 1.93  | -    |  |

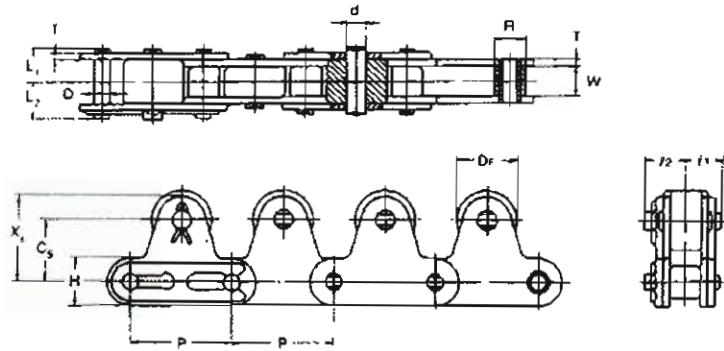
Note: RF, RS type without brake & with plastic brake is also available.



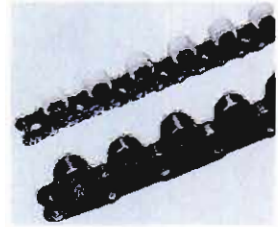
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## II – 10 Top gyro-wheels conveyor chains



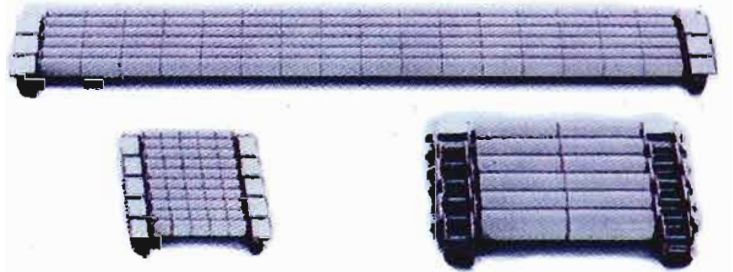
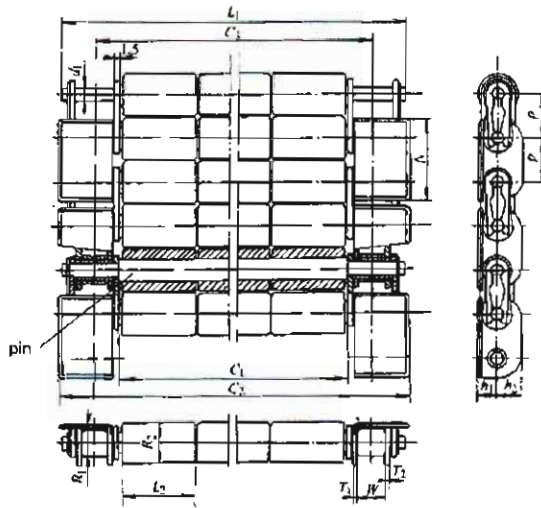
1. spring clip type connecting links will be provided for RF2040-RF2060 unless otherwise specified.
2. All dimensions are standard except for roller diameter (in the case of "R" and "S" type rollers).
3. For even numbered spacing, top rollers will be fitted on roller links unless otherwise specified.



| chain No. | pitch<br>P | width<br>between<br>roller link<br>plates<br>W | roller dia. R |            | pin  |       |       | link plate |     | approx. weight kg/m |            |                           |            |                                      |
|-----------|------------|--|---------------|------------|------|-------|-------|------------|-----|---------------------|------------|---------------------------|------------|--------------------------------------|
|           |            |  | "S" roller    | "R" roller | D    | L1    | L2    | H          | T   | regular series      |            | plastic top roller series |            | plastic<br>roller<br>chain<br>series |
|           |            |  | "S" roller    | "R" roller | D    | L1    | L2    | H          | T   | "S" roller          | "R" roller | "S" roller                | "R" roller |                                      |
| RF2040-TR | 25.40      | 7.95   | 7.94          | 15.88      | 3.97 | 8.25  | 9.95  | 12.0       | 1.5 | 1.33                | 1.69       | 0.91                      | 1.27       | 0.92                                 |
| RF2050-TR | 31.75      | 9.53   | 10.16         | 19.05      | 5.09 | 10.30 | 12.00 | 15.0       | 2.0 | 2.04                | 2.50       | 1.44                      | 1.90       | 1.43                                 |
| RF2060-TR | 38.10      | 12.70  | 11.91         | 22.23      | 5.98 | 14.55 | 16.55 | 17.2       | 3.2 | 3.68                | 4.36       | 2.77                      | 3.46       | 2.75                                 |
| RF2080-TR | 50.80      | 15.88  | 15.88         | 28.58      | 7.94 | 18.30 | 20.90 | 23.0       | 4.0 | 5.65                | 6.76       | 4.29                      | 5.40       | 4.52                                 |
| RF2100-TR | 63.50      | 19.05  | 29.05         | 39.69      | 9.54 | 21.80 | 24.50 | 28.6       | 4.8 | 9.11                | 11.37      | 6.51                      | 8.77       | 6.60                                 |

Note: RF, RS regular series, plastic top roller series, and plastic roller series are available.

## II – 11 Roller table



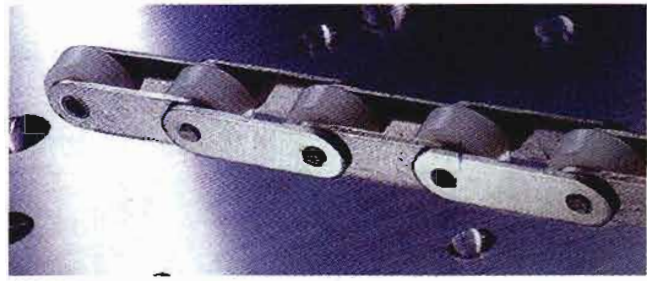
| chain No. | pitch  | width<br>between<br>inner<br>links<br>W | roller<br>dia.<br>R1 | atta.<br>height<br>h1 | plate<br>depth<br>h1 | atta.<br>width<br>N | atta.<br>thickness<br>T1 | plate<br>thick-<br>ness<br>T2 | pin dia.<br>d2 | plastic roller |              | max.<br>conveying<br>capacity<br>(kg/m) |
|-----------|--------|---|----------------------|-----------------------|----------------------|---------------------|--------------------------|-------------------------------|----------------|----------------|--------------|---|
|           |        |   |                      |                       |                      |                     |                          |                               |                | diameter<br>R2 | length<br>L2 |   |
|           |        |   |                      |                       |                      |                     |                          |                               |                | (mm)           |              |   |
| ST300     | 9.525  | 4.78                                    | 5.98                 | 4.4                   | 5.2                  | 18.3                | 0.75                     | 1.25                          | 3.54           | 9.2            | 10.0         | 50                                      |
| ST400     | 12.700 | 7.95                                    | 7.94                 | 5.7                   | 7.0                  | 24.4                | 1.20                     | 1.50                          | 3.92           | 12.0           | 25.0         | 250                                     |
| ST500     | 15.875 | 9.53                                    | 10.16                | 7.1                   | 8.5                  | 30.5                | 1.50                     | 2.00                          | 5.00           | 15.0           | 25.0         | 360                                     |



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## II – 12 Plastic roller chains



| chain No. | pitch<br>P | width between<br>roller link plates<br>W | roller<br>dia.<br>R | pin            |                |      | link plate |           | approximate<br>weight<br>kg/m |
|-----------|------------|--|---------------------|----------------|----------------|------|------------|-----------|-------------------------------|
|           |            |  |                     | L <sub>1</sub> | L <sub>2</sub> | D    | H          | T         |                               |
| RF2040R-D | 25.40      | 7.95                                     | 15.88               | 8.25           | 9.95           | 3.97 | 12.0       | 1.5       | 0.52                          |
| RF2050R-D | 31.75      | 9.53                                     | 19.05               | 10.30          | 12.00          | 5.09 | 15.0       | 2.0       | 0.83                          |
| RF2060R-D | 38.10      | 12.70                                    | 22.23               | 14.55          | 16.55          | 5.96 | 17.2       | 3.0       | 1.48                          |
| RF2080R-D | 50.80      | 15.88                                    | 28.58               | 18.30          | 20.90          | 7.94 | 23.0       | 4.0       | 2.64                          |
| RF2100R-D | 63.50      | 19.05                                    | 39.69               | 21.60 (22.30)* | 24.50(24.90)*  | 9.54 | 28.6       | 4.8(5.0)* | 3.63(3.75)*                   |

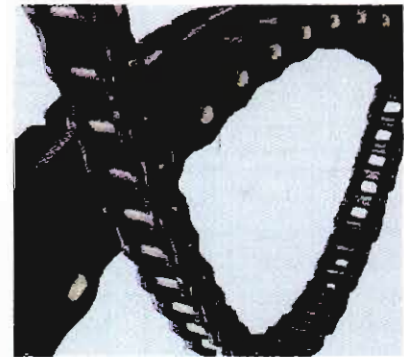
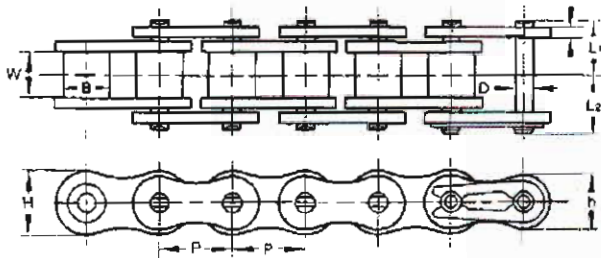
Note: 1. Attachment chains are also available.

2. Stainless steel chains are also available

3. Dimensions of chains and attachments are the same as those for standard double pitch chains.

4. (\*) is for 16-B stainless steel series.

## II – 13 Self lube chains

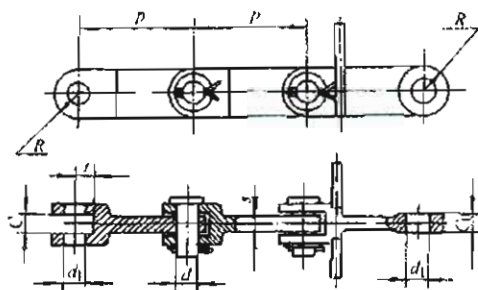


Dimensions-mm

| chain No. | pitch<br>P | bushing dia.<br>B | width between<br>roller link<br>plates<br>W | link plate     |        |      | pin<br>dia.<br>D | pin<br>length  |                | average tensile<br>strength<br>kN (kgf) | approx.<br>weight<br>kg/m |
|-----------|------------|-------------------|---|----------------|--------|------|------------------|----------------|----------------|---|---------------------------|
|           |            |                   |   | thickness<br>T | height |      |                  | L <sub>1</sub> | L <sub>2</sub> |   |                           |
|           |            |                   |   |                | H      | h    |                  |                |                |   |                           |
| RS40SL    | 12.700     | 7.94              | 7.55  | 1.5            | 12.0   | 10.4 | 3.97             | 8.25           | 9.95           | 12.4 (1.260)                            | 0.64                      |
| RS50SL    | 15.875     | 10.16             | 9.14  | 2.0            | 15.0   | 13.0 | 5.09             | 10.30          | 12.00          | 19.6 (2.000)                            | 1.04                      |
| RS60SL    | 19.050     | 11.91             | 12.30                                       | 2.4            | 18.1   | 15.6 | 5.96             | 12.85          | 16.75          | 29.4 (3.000)                            | 1.53                      |

## II – 14 Furcation chains for conveyor

Standard: ZB J18 006-90



| chain No. | tensile<br>strength<br>Q <sub>min</sub> | pitch<br>mm<br>p |     |     |     |     |     |     | pin<br>normal<br>dia.<br>d | pin<br>dia.<br>d <sub>max</sub> | rod<br>head<br>radius<br>R<br>normal | rod<br>thick-<br>ness<br>S<br>normal | rod<br>groove<br>width<br>C <sub>min</sub> | rod-<br>hand<br>width<br>C <sub>max</sub> | rod-<br>hole<br>dia.<br>d <sub>1max</sub> | rod<br>groove<br>depth<br>l <sub>min</sub> |
|-----------|---|------------------|-----|-----|-----|-----|-----|-----|----------------------------|---------------------------------|--------------------------------------|--------------------------------------|--|---|---|--|
|           |   | 80               | 100 | 125 | 150 | 200 | 250 | 315 |                            |                                 |                                      |                                      |  |   |   |  |
|           |   | #                | #   | #   | #   | #   | #   | #   |                            |                                 |                                      |                                      |  |   |   |  |
| MCL56     | 56                                      | #                | #   | #   |     |     |     | 10  | 9.92                       | 10                              | 6                                    | 12.0                                 | 11   | 10.00                                     | 12  |  |
| MCL80     | 80                                      | #                | #   | #   |     |     |     | 12  | 11.905                     | 12                              | 7                                    | 14.0                                 | 13   | 12.00                                     | 14  |  |
| MCL112    | 112                                     | #                | #   | #   |     |     |     | 15  | 14.905                     | 15                              | 8                                    | 16.5                                 | 15   | 15.00                                     | 17  |  |
| MCL160    | 160                                     |                  |     | #   | #   | #   |     | 18  | 17.905                     | 18                              | 10                                   | 18.5                                 | 17   | 18.00                                     | 20  |  |
| MCL224    | 224                                     |                  |     |     | #   | #   | #   | 21  | 20.89                      | 21                              | 12                                   | 22.0                                 | 20   | 21.00                                     | 23  |  |
| MCL315    | 315                                     |                  |     |     |     | #   | #   | 25  | 24.89                      | 25                              | 14                                   | 26.0                                 | 24   | 25.00                                     | 27  |  |
| MCL450    | 450                                     |                  |     |     |     |     | #   | 30  | 29.88                      | 30                              | 16                                   | 30.0                                 | 28   | 30.00                                     | 32  |  |
| MCL630    | 630                                     |                  |     |     |     |     |     | 36  | 35.88                      | 36                              | 20                                   | 32.0                                 | 30   | 38.00                                     | 40  |  |
| MCL900    | 900                                     |                  |     |     |     |     |     | 44  | 43.87                      | 45                              | 24                                   | 40.0                                 | 38   | 44.00                                     | 48  |  |



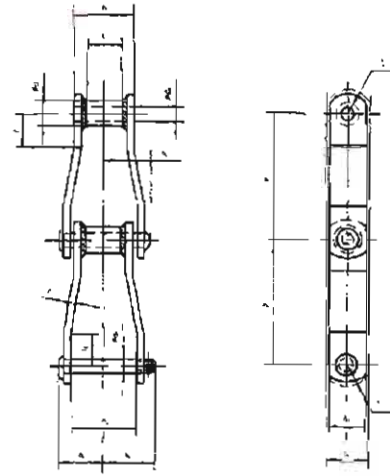
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## II -15 Pintle chains (Welded cranked link chains)

### 15-1. Welded mill chains

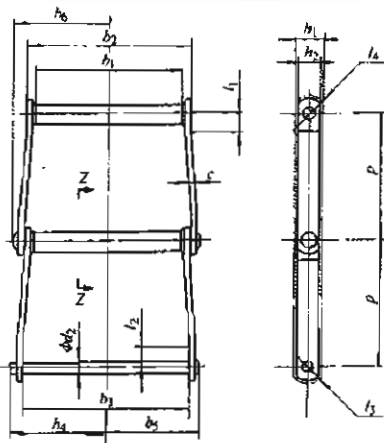
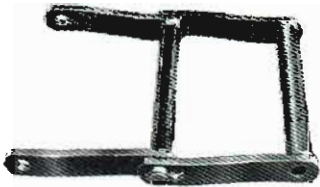
standard: ANSI B29.16M-1981 ISO6972-1982



| chain No. | pitch<br>P<br>mm | pin dia.<br>d5<br>max | height of chain path<br>h1<br>max | plate height<br>h2 | pin fastener to center line<br>b4<br>max | pin head to center line<br>b5<br>max | pin riveted to center line<br>b6<br>max | plate thickness<br>c | test load | tensile strength<br>min |                    |
|-----------|------------------|-----------------------|-----------------------------------|--------------------|--|--------------------------------------|---|----------------------|-----------|-------------------------|--------------------|
|           |                  |                       |                                   |                    |  |                                      |   |                      |           | pin heat-treatment      | all heat-treatment |
|           |                  |                       |                                   |                    |  |                                      |   |                      |           | kN                      |                    |
| W76       | 66.27            | 12.78                 | 30.0                              | 26.4               | 45.2                                     | 39.6                                 | 42.7                                    | 6.4                  | 0.8       | 93.4                    | 106.8              |
| W82       | 78.10            | 14.35                 | 33.5                              | 31.8               | 48.3                                     | 41.7                                 | 45.2                                    | 6.4                  | 1.3       | 100.1                   | 131.2              |
| W106      | 152.40           | 19.13                 | 39.6                              | 38.1               | 62.2                                     | 56.4                                 | 59.4                                    | 9.7                  | 1.8       | 169.0                   | 224.6              |
| W110      | 152.40           | 19.13                 | 39.6                              | 38.1               | 62.2                                     | 54.9                                 | 59.4                                    | 9.7                  | 1.3       | 169.0                   | 224.6              |
| W111      | 120.90           | 19.13                 | 39.6                              | 38.1               | 69.8                                     | 63.5                                 | 64.3                                    | 9.7                  | 1.8       | 169.0                   | 224.6              |
| W124      | 101.60           | 19.13                 | 39.6                              | 38.1               | 62.0                                     | 56.4                                 | 59.4                                    | 9.7                  | 1.8       | 169.0                   | 224.6              |
| W124H     | 103.20           | 22.30                 | 52.3                              | 50.8               | 70.6                                     | 62.5                                 | 65.8                                    | 12.7                 | 3.1       | 275.8                   | 355.9              |
| W132      | 153.67           | 25.48                 | 52.3                              | 50.8               | 88.1                                     | 79.2                                 | 83.3                                    | 12.7                 | 3.1       | 275.8                   | 378.1              |

### 15-2. Welded drag chains

Standard: ANSI B29.18-1974, ISO6971: 1982



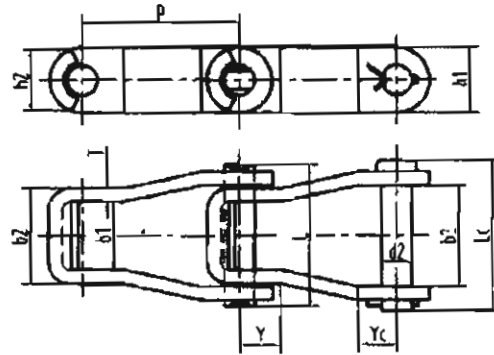
| ISO   | pitch<br>p | pin dia.<br>ø d2<br>max | height of chain path<br>h1<br>max | plate height<br>h2<br>max | pin fastener to center line<br>b4<br>max | pin head to center line<br>b5<br>max | pin riveted to center line<br>b6<br>max | plate thickness<br>c<br>nom | test strength | tensile strength   |                    |
|-------|------------|-------------------------|-----------------------------------|---------------------------|--|--------------------------------------|---|-----------------------------|---------------|--------------------|--------------------|
|       |            |                         |                                   |                           |  |                                      |   |                             |               | pin heat-treatment | all heat-treatment |
|       |            |                         |                                   |                           |  |                                      |   |                             |               | min                |                    |
| mm    |            |                         |                                   |                           |  |                                      |   |                             |               |                    |                    |
| WD102 | 127.00     | 19.13                   | 39.6                              | 38.12                     | 127.8                                    | 117.6                                | 127.8                                   | 9.7                         | 2.7           | 170.1              | 244.7              |
| WD104 | 152.40     | 19.13                   | 39.6                              | 38.12                     | 94.0                                     | 87.4                                 | 94.0                                    | 9.7                         | 1.8           | 170.1              | 244.7              |
| WD110 | 152.40     | 19.13                   | 39.6                              | 38.12                     | 157.5                                    | 151.1                                | 157.5                                   | 9.7                         | 3.1           | 170.1              | 244.7              |
| WD112 | 203.20     | 19.13                   | 39.6                              | 38.12                     | 157.5                                    | 151.1                                | 157.5                                   | 9.7                         | 2.7           | 170.1              | 244.7              |
| WD113 | 152.40     | 22.30                   | 39.6                              | 38.12                     | 165.1                                    | 157.2                                | 165.1                                   | 12.7                        | 3.6           | 213.5              | 253.5              |
| WD116 | 203.20     | 19.13                   | 46.0                              | 45.21                     | 205.2                                    | 200.7                                | 205.2                                   | 9.7                         | 3.6           | 244.7              | 262.4              |
| WD118 | 203.20     | 22.30                   | 52.3                              | 51.80                     | 220.0                                    | 211.1                                | 220.0                                   | 12.7                        | 5.8           | 311.4              | 351.4              |
| WD122 | 203.20     | 22.30                   | 52.3                              | 51.80                     | 162.1                                    | 152.4                                | 162.1                                   | 12.7                        | 4.0           | 311.4              | 351.4              |
| WD480 | 203.20     | 22.30                   | 52.3                              | 51.80                     | 193.8                                    | 184.2                                | 193.8                                   | 12.7                        | 4.4           | 311.4              | 351.4              |



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15-3. Steel pintle chains  
Standard: ASME G29. 25M-1994

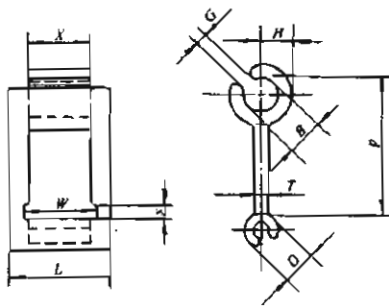


| ASME | pitch | pin dia. | width between inner plates | width over inner plates | width between outer plates | plate height | bush height | width over pin |        | plate thickness | ultimate tensile strength |
|------|-------|----------|----------------------------|-------------------------|----------------------------|--------------|-------------|----------------|--------|-----------------|---------------------------|
|      | P     | d2 max   | b1 min                     | b2 max                  | b3 min                     | h1 max       | h2 max      | L max          | Lc max | T               | min kN                    |
| 662  | 42.27 | 7.19     | 22.9                       | 30.2                    | 30.5                       | 18.8         | 18.0        | 41.6           | 43.2   | 3.2             | 0.45                      |
| 667H | 58.75 | 7.95     | 25.4                       | 32.5                    | 32.8                       | 22.6         | 20.8        | 46.2           | 49.7   | 3.2             | 0.45                      |
| 665X | 57.15 | 11.10    | 25.4                       | 36.1                    | 36.4                       | 24.4         | 22.3        | 52.8           | 56.0   | 4.3             | 0.45                      |
| 665K | 57.15 | 11.10    | 25.4                       | 38.4                    | 38.7                       | 27.4         | 24.1        | 56.6           | 60.2   | 5.1             | 0.45                      |
| 88K  | 66.27 | 11.10    | 25.4                       | 38.4                    | 38.7                       | 27.4         | 24.1        | 56.6           | 60.2   | 5.1             | 0.45                      |

11 - 16 Steel Detachable Link Chains  
Standard: ANSI B29.6M-1983



(mm)



| ANSI | D     | B     | X              | W     | H              | L              | G    | p     | S    | T           | test load | ultimate tensile load |
|------|-------|-------|----------------|-------|----------------|----------------|------|-------|------|-------------|-----------|-----------------------|
|      | min   | min   | +0.30<br>-0.20 | min   | +2.38<br>-0.76 | +2.38<br>-0.79 | min  |       | min  |             | /kN       | /kN                   |
| 25   | 4.83  | 5.08  | 10.72          | 11.12 | 4.57           | 17.86          | 1.60 | 22.95 | 1.98 | 1.85 ± 0.15 | 0.22      | 3.38                  |
| 32   | 6.10  | 6.35  | 15.06          | 15.49 | 5.84           | 23.81          | 2.03 | 29.39 | 2.54 | 2.28 ± 0.15 | 0.22      | 5.87                  |
| 32W  | 6.10  | 6.35  | 15.08          | 15.49 | 5.84           | 27.00          | 2.16 | 29.39 | 2.54 | 2.41 ± 0.15 | 0.22      | 5.87                  |
| 42   | 7.49  | 7.75  | 19.34          | 20.32 | 6.73           | 30.95          | 2.41 | 34.92 | 2.79 | 2.87 ± 0.15 | 0.22      | 7.47                  |
| 51   | 6.10  | 6.35  | 17.86          | 18.29 | 5.89           | 27.79          | 2.28 | 28.78 | 2.67 | 2.54 ± 0.15 | 0.22      | 7.47                  |
| 52   | 8.13  | 8.38  | 21.44          | 21.84 | 7.70           | 35.74          | 2.79 | 38.30 | 3.17 | 3.05 ± 0.15 | 0.22      | 9.61                  |
| 55   | 8.51  | 8.76  | 20.22          | 20.65 | 8.13           | 32.54          | 2.92 | 41.40 | 3.30 | 3.17 ± 0.15 | 0.22      | 9.96                  |
| 62   | 9.02  | 9.14  | 24.94          | 25.46 | 8.51           | 39.69          | 3.51 | 42.01 | 3.94 | 3.76 ± 0.15 | 0.22      | 15.66                 |
| 62A  | 9.02  | 9.14  | 24.94          | 25.46 | 9.09           | 49.21          | 4.06 | 42.26 | 4.57 | 4.32 ± 0.15 | 0.22      | 17.79                 |
| 62H  | 9.02  | 9.14  | 24.94          | 25.45 | 8.71           | 47.62          | 3.68 | 42.01 | 4.06 | 3.94 ± 0.18 | 0.22      | 16.01                 |
| 67H  | 12.70 | 12.96 | 27.76          | 28.19 | 11.38          | 47.62          | 4.44 | 58.75 | 5.16 | 4.70 ± 0.18 | 0.44      | 19.57                 |
| 67XH | 10.16 | 12.70 | 27.76          | 28.19 | 11.38          | 47.62          | 4.83 | 58.75 | 5.21 | 5.08 ± 0.18 | 0.44      | 24.46                 |
| 72   | 11.30 | 11.56 | 27.78          | 28.19 | 10.39          | 49.21          | 4.06 | 51.43 | 4.44 | 4.32 ± 0.18 | 0.44      | 17.79                 |

Attachment A1, A2, C1, C15, G27, HB4, K1, SH, SD, AS available.



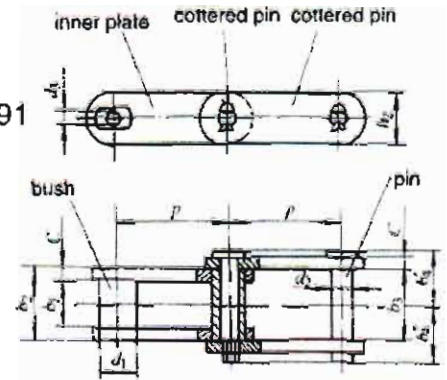
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## II – 17 Steel bush chains

(rollerless elevator & conveyor chains)

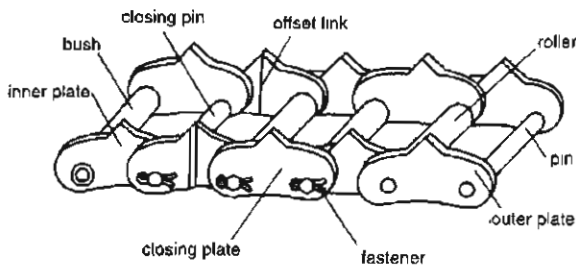
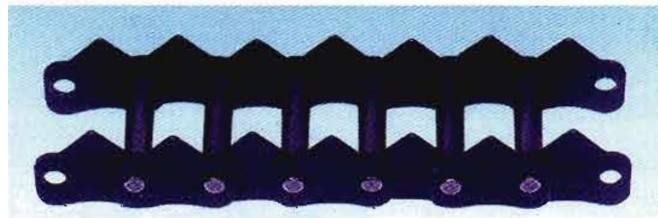
Standard: ANSI/ASME B29.12-1983 JB/T5398-1991



| chain No. | pitch<br>P | bush dia.<br>d1<br>max | width<br>between<br>inner links<br>b1<br>mix | pin dia.<br>d2<br>max | bush inside<br>dia.<br>d3<br>min | plate depth<br>h2<br>max | plate<br>thickness<br>C | width<br>between<br>inner links<br>b2<br>max | width<br>between<br>outer links<br>b3<br>min | pin length |           | tensile strength<br>Q<br>min(kN) |
|-----------|------------|------------------------|--|-----------------------|----------------------------------|--------------------------|-------------------------|--|--|------------|-----------|----------------------------------|
|           |            |                        |  |                       |                                  |                          |                         |  |  | b4<br>max  | b4<br>max |                                  |
| S 102B    | 101.60     | 25.4                   | 51.3   | 15.95                 | 16.08                            | 39.6                     | 9.7                     | 74.2   | 74.4   | 52.6       | 58.7      | 160                              |
| S 110     | 152.40     | 32.5                   | 51.3   | 15.95                 | 16.08                            | 39.6                     | 9.7                     | 74.2   | 74.4   | 52.6       | 58.7      | 160                              |
| S 111     | 120.90     | 36.6                   | 63.2   | 15.13                 | 19.26                            | 52.3                     | 9.7                     | 86.9   | 87.1   | 61.3       | 69.9      | 214                              |
| S 131     | 78.11      | 32.5                   | 31.7   | 15.95                 | 16.08                            | 39.6                     | 9.7                     | 52.8   | 53.0   | 41.9       | 48.6      | 160                              |
| S 150     | 153.67     | 44.7                   | 80.0   | 25.48                 | 25.61                            | 66.6                     | 12.7                    | 111.3  | 111.5  | 78.7       | 85.6      | 378                              |
| S 188     | 66.27      | 22.4                   | 25.6   | 12.78                 | 12.91                            | 30.0                     | 6.4                     | 40.6   | 40.9   | 32.0       | 36.6      | 102                              |

## II – 18 Agricultural machinery-feed chains(sticker chains)

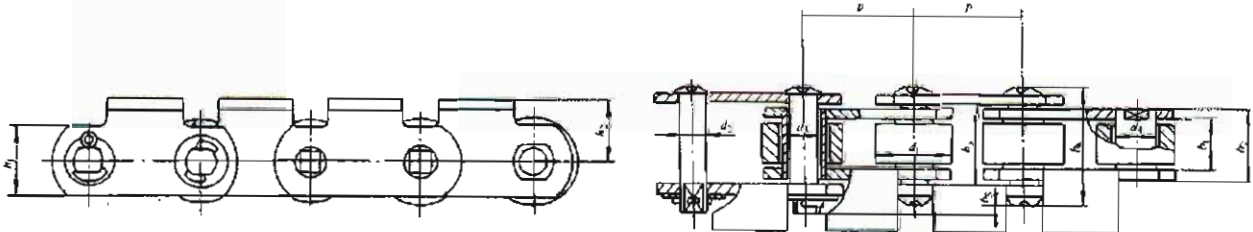
Standard: JIS B9204-1994 ZB B90 002-1988



| chain No. | pitch<br>p<br>mm | roller dia.<br>D<br>max<br>mm | width between<br>inner plates<br>b1<br>min<br>mm | pin dia.<br>d1<br>max<br>mm | plate<br>thickness<br>b0<br>max<br>mm | side-bow<br>radius<br>R<br>max<br>mm | weight<br>q1<br>kg./m | tensile<br>strength<br>Q <sub>1</sub> /kN<br>min |
|-----------|------------------|-------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|-----------------------|--|
| 3530      | 35               | 14.40                         | 30   | 8                           | 2                                     |                                      | 2.2                   | 22.5   |
| 3540      | 35               | 14.40                         | 45   | 8                           | 2                                     |                                      | 2.7                   | 22.5   |
| 3558      | 35               | 14.40                         | 59   | 8                           | 2                                     |                                      | 3.1                   | 22.5   |
| W 3530    | 35               | 14.40                         | 30   | 8                           | 2                                     | 780                                  | 2.2                   | 22.5   |
| W 3545    | 35               | 14.40                         | 45   | 8                           | 2                                     | 780                                  | 2.7                   | 22.5   |

## II – 19 Conveyor chains for perfusion line of beer

Standard: JB/ T7054-93



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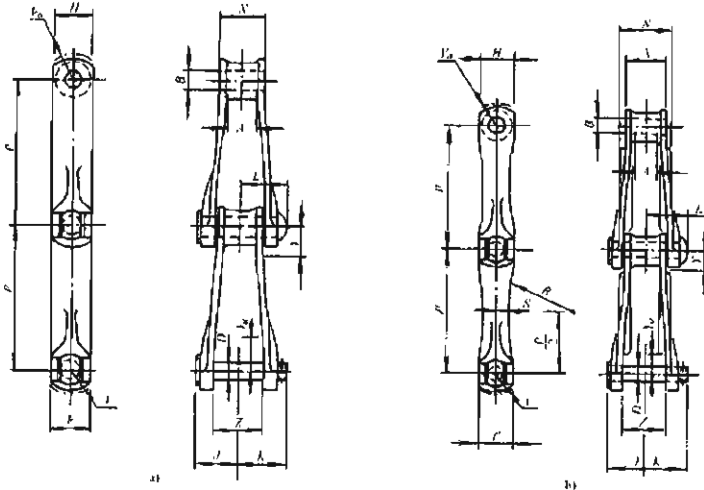
|      | pitch | roller dia.    | pin dia.       | width between inner plates | width between outer plates | riveted pin length | fastener length | plate depth    | height from flat-center | ultimate tensile strength Q <sub>min</sub> | weight |
|------|-------|----------------|----------------|----------------------------|----------------------------|--------------------|-----------------|----------------|-------------------------|--|--------|
|      | p     | d <sub>1</sub> | d <sub>2</sub> | b <sub>1</sub>             | b <sub>2</sub>             | b <sub>4</sub>     | b <sub>5</sub>  | h <sub>1</sub> | h <sub>2</sub>          |  | q =    |
|      | mm    | max            | max            | min                        | min                        | max                | max             | mm             | mm                      | kN   | kg/m   |
| JS.1 | 100   | 80             | 18             | 34                         | 50.6                       | 78                 | 5.5             | 55             | 44                      | 160  | 27     |
| JS.2 | 70    | 50             | 18             | 30                         | 44.6                       | 67                 | 5.5             | 48             | 37                      | 120  | 16.5   |
| JC.1 | 160   | 80             | 18             | 34                         | 50.6                       | 78                 | 5.5             | 50             | 30                      | 160  | 18     |
| JC.2 | 160   | 75             | 18             | 36                         | 53.2                       | 80                 | 5.5             | 45             | 35.5                    | 160  | 16.5   |



## II -- 20 Sewage treatment chains

Standard: ANSI B29.2M-1981

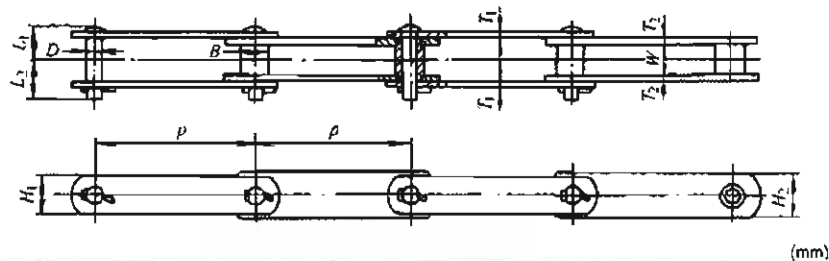
### 20-1 Collector tank pintle chains



|                                    | 720    | 720S<br>CS20S | W720S<br>WCS720S | 730<br>CS730 | W730<br>WCS730 |
|------------------------------------|--------|---------------|------------------|--------------|----------------|
| p/mm                               | 152.4  | 152.4         | 52.4             | 152.4        | 152.4          |
| D/mm                               | 17.5   | 19.0          | 19.0             | 19.0         | 19.0           |
| F/mm                               | 38.1   | 39.6          | 39.6             | 44.5         | 44.5           |
| H/mm                               | 35.0   | 38.6          | 38.6             | 38.1         | 38.1           |
| tensile strength for               |        |               |                  |              |                |
| welded-no heat treatment           |        |               | 133.5            |              | 160.2          |
| welded-heat treatment              |        |               | 186.9            |              | 222.5          |
| average tensile strength for       |        |               |                  |              |                |
| pearl ductile iron                 | 122.3  | 160.2         |                  | 178.0        |                |
| test load/kN                       |        |               |                  |              |                |
| pearl ductile iron                 | 61.2   | 80.1          |                  | 89.0         |                |
| links of standard measuring length | 20.0   | 20            | 20.0             | 20.0         | 20.0           |
| min standard measuring length      | 3048.0 | 3048.0        | 3048.0           | 3048.0       | 3048.0         |
| test strength/kN                   | 1.3    | 1.3           | 1.3              | 1.3          | 1.3            |

Note: W stands welded chains, the other stands casting chains.

### 20-2 Collector tank bush chains



| pitch     | pitch P | width between inner links W | bush B | pin  |                |                | plate          |                |                | (kg/m) |
|-----------|---------|-----------------------------|--------|------|----------------|----------------|----------------|----------------|----------------|--------|
|           |         |                             |        | D    | L <sub>1</sub> | L <sub>2</sub> | T <sub>1</sub> | T <sub>2</sub> | H <sub>2</sub> |        |
| ACE13070W |         | 26.0                        | 23.0   | 12.7 | 28.0           |                | 5.0            | 33.0           | 36.0           | 5.2    |
| ACS13103W | 103.30  | 26.0                        | 23.0   | 12.7 | 28.0           |                | 5.0            | 33.0           | 36.0           | 4.6    |
| ACS13152W | 152.40  | 26.0                        | 23.0   | 12.7 | 28.0           |                | 5.0            | 33.0           | 36.0           | 3.6    |
| ACS15152W | 152.40  | 26.0                        | 24.0   | 18.5 | 28.0           |                | 6.0            | 36.0           | 38.0           | 4.8    |
| ACS19152W | 152.40  | 30.0                        | 26.0   | 14.5 | 32.0           |                | 6.0            | 38.0           | 44.0           | 5.8    |
| ACS25152W | 152.40  | 30.0                        | 29.0   | 16.8 | 35.0           |                | 7.0            |                | 54.0           | 7.9    |
| ACS35152W | 152.40  | 38.0                        | 35.0   | 19.0 | 41.0           |                | 7.0            | 54.0           | 60.0           | 10.9   |

Note: Anti-corrosive series, such as ACR610 p=152.4mm are also available.

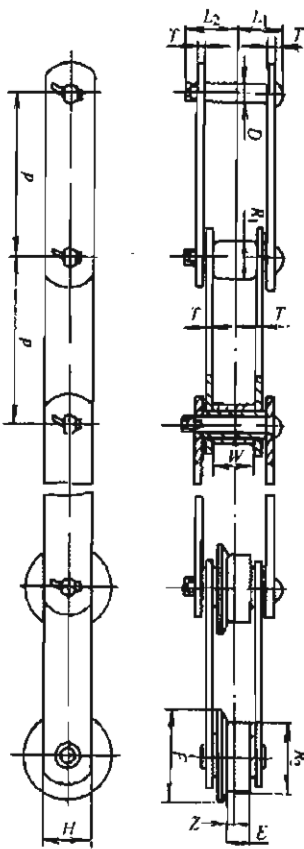


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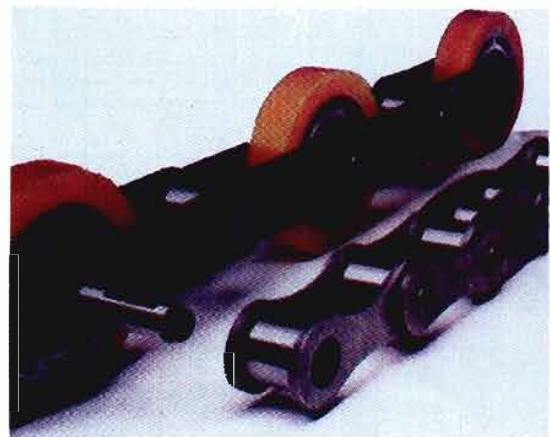
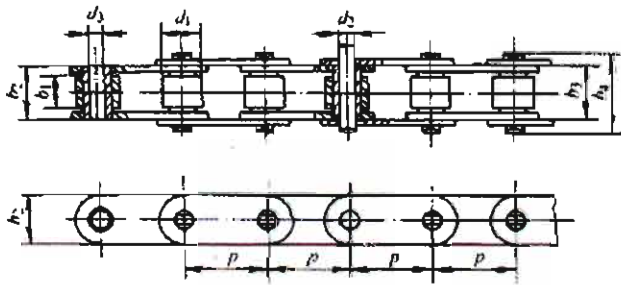
20-3 Bar screen chains



|           | /kN<br>average<br>tensile<br>strength | pitch | /kN<br>min<br>tensile<br>strength | width<br>between<br>inner<br>plate<br>w | (mm)   |      |    |    |     |   |       |      | (kg/m) |      |     |      |     |
|-----------|---------------------------------------|-------|-----------------------------------|---|--------|------|----|----|-----|---|-------|------|--------|------|-----|------|-----|
|           |                                       |       |                                   |   | roller |      |    |    | pin |   | plate |      | weigh  |      |     |      |     |
|           |                                       |       |                                   |   | R1     | R2   | F  | E  | e   | Z | D     | L1   | L2     | H    | T   | S    | F   |
| JAC08152S | 147                                   | 152.4 | 127                               | 26.2                                    | 22.2   | —    | —  | —  | —   | — | 11.3  | 31   | 34.5   | 28.6 | 6.3 | 3.9  | —   |
| JAC10152S | —                                     | —     | —                                 | —                                       | 29.0   | —    | —  | —  | —   | — | —     | —    | —      | —    | —   | 5.9  | —   |
| JAC10152F | 216                                   | 152.4 | 196                               | 29.0                                    | —      | 50.8 | 65 | 20 | 3   | 7 | 14.5  | 33   | 36     | 38.1 | 6.3 | —    | 80  |
| JAC6205S  | —                                     | —     | —                                 | —                                       | 34.9   | —    | —  | —  | —   | — | —     | —    | —      | —    | —   | 9.3  | —   |
| JAC6205F  | 275                                   | 152.4 | 250                               | 35.9                                    | —      | 65.0 | 85 | 24 | 4   | 8 | 15.9  | 40.5 | 43     | 44.5 | 7.9 | —    | 145 |
| JAC21152S | 382                                   | 152.4 | 343                               | 35.7                                    | 40.1   | —    | —  | —  | —   | — | 19.1  | 44.5 | 51     | 50.8 | 9.5 | 12.6 | —   |
| JAC26152S | 510                                   | 152.4 | 461                               | 55.6                                    | 44.5   | —    | —  | —  | —   | — | 22.2  | 55.5 | 61     | 63.5 | 9.5 | 17.8 | —   |
| JAC03152S | 142                                   | 152.4 | 132                               | 27.0                                    | 22.2   | —    | —  | —  | —   | — | 11.3  | 31   | 34.5   | 38   | 6   | 5.0  | —   |
| JAC10125S | 167                                   | 152.4 | 152                               | —                                       | 30     | 29   | —  | —  | —   | — | 14.5  | 33   | 36     | 38   | 6   | 5.6  | —   |
| JAC10152F | 186                                   | 152.4 | [172]                             | —                                       | —      | —    | —  | —  | —   | — | —     | —    | —      | 44   | —   | —    | —   |
| JAC10152F | 167                                   | 152.4 | 152                               | 30                                      | —      | 50.8 | 65 | 20 | 3   | 7 | 14.5  | 33   | 36     | 38   | 6   | —    | 79  |
| JAC10152F | 186                                   | 152.4 | [172]                             | —                                       | —      | —    | —  | —  | —   | — | —     | —    | —      | (44) | —   | —    | —   |
| JAC6205S  | 235                                   | 152.4 | 216                               | 37.1                                    | 34     | —    | —  | —  | —   | — | 15.9  | 39.5 | 42     | 44.5 | 7   | 8.2  | —   |
| JAC6205S  | 265                                   | 152.4 | [245]                             | —                                       | —      | —    | —  | —  | —   | — | —     | —    | —      | (54) | —   | —    | —   |
| JAC6205F  | 235                                   | 152.4 | 216                               | 37.1                                    | 34     | 65   | 85 | 24 | 4   | 8 | 15.9  | 39.5 | 42     | 44.5 | 7   | —    | 133 |
| JAC6205F  | 265                                   | 152.4 | [245]                             | —                                       | —      | —    | —  | —  | —   | — | —     | —    | —      | (54) | —   | —    | —   |
| JAC21152S | 353                                   | 152.4 | 324                               | 37.1                                    | 40.1   | —    | —  | —  | —   | — | 19.1  | 44   | 50     | 54   | 9   | 12.8 | —   |
| JAC26152S | 490                                   | 152.4 | 451                               | 55.2                                    | 44.5   | —    | —  | —  | —   | — | 22.2  | 56   | 61.5   | 62.5 | 10  | 18.6 | —   |
| JAC08152S | 69                                    | 152.4 | 59                                | 27                                      | 22.2   | —    | —  | —  | —   | — | 11.3  | 31   | 34.5   | 28.6 | 6   | 3.8  | —   |
| JAC10152S | 108                                   | 152.4 | 93                                | 30                                      | 29     | —    | —  | —  | —   | — | 14.5  | 33   | 36     | 38.1 | 6   | 5.6  | —   |
| JAC10152F | —                                     | —     | —                                 | —                                       | —      | 50.8 | 65 | 20 | 3   | 7 | —     | —    | —      | —    | —   | —    | 79  |
| JAC6205S  | —                                     | —     | —                                 | —                                       | 34.9   | —    | —  | —  | —   | — | —     | —    | —      | —    | —   | 9.1  | —   |
| JAC6205F  | 132                                   | 152.4 | 113                               | 37.1                                    | —      | 65   | 85 | 24 | 4   | 8 | 15.9  | 40.5 | 43     | 44.5 | 8   | —    | 142 |
| JAC21152S | 186                                   | 152.4 | 157                               | 37.1                                    | 40.1   | —    | —  | —  | —   | — | 19    | 45.5 | 52     | 50.8 | 10  | 13.3 | —   |
| JAC26152S | 230                                   | 152.4 | 211                               | 57.2                                    | 44.5   | —    | —  | —  | —   | — | 22.2  | 56.5 | 62     | 63.5 | 10  | 18.8 | —   |

Note: Chains should be run one time every 2-3 weeks. Under the circumstances of marine plant & animal existed, chains should be run one time each week at least. S stands small roller chains. F stands flanged roller chains. Screen chains & drive bush chains for sewage treatment are also available.

II - 21 Escalator step chains  
Standard: JB/T 8545-1997



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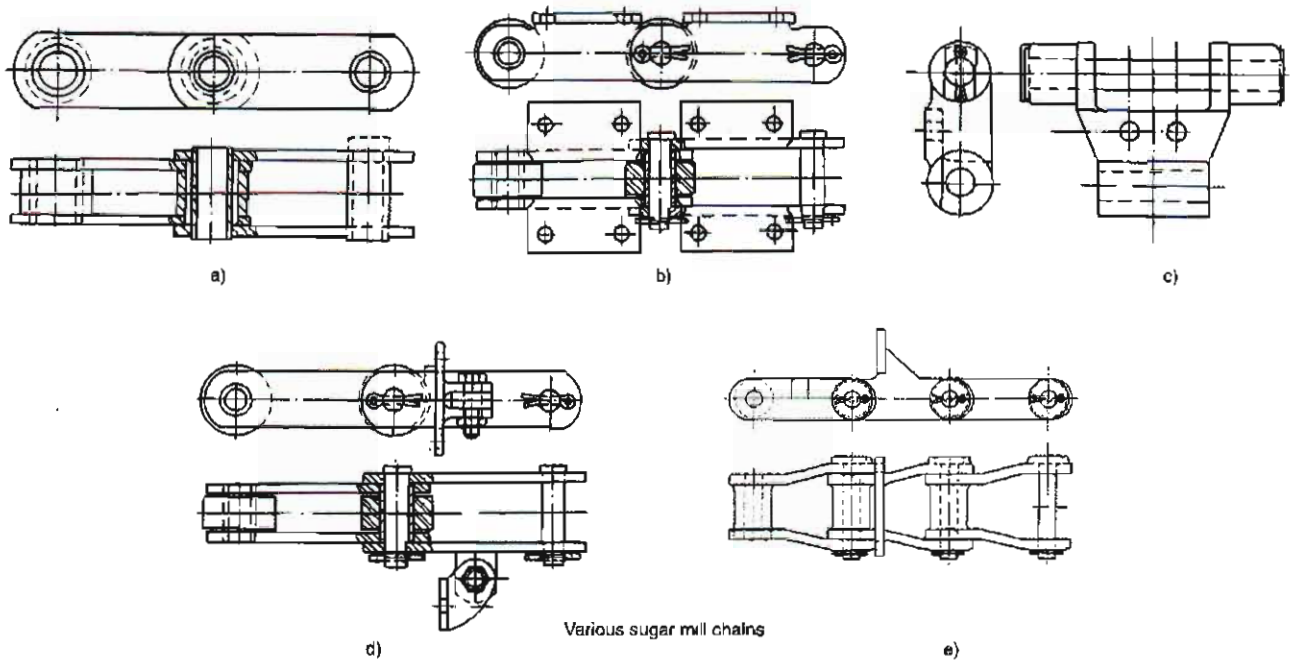


| chain No. | pitch<br>p<br>mm | roller<br>diameter<br>d1<br>max<br>mm | width<br>between<br>inner<br>links<br>b1<br>min<br>mm | pin<br>diamete<br>r<br>d2<br>max<br>mm | inner<br>plate<br>height<br>h2<br>max<br>mm | width<br>between<br>outer<br>links<br>b3<br>max<br>mm | bush<br>diameter<br>d3<br>min<br>mm | pin<br>length<br>b4<br>min<br>mm | test<br>load<br>N | tensile<br>strength<br>min<br>/kN | att. | t<br>step distance |              |
|-----------|------------------|---------------------------------------|---|--|---|---|-------------------------------------|----------------------------------|-------------------|-----------------------------------|------|--------------------|--------------|
|           |                  |                                       |   |  |   |   |                                     |                                  |                   |                                   |      | Links              | Length<br>mm |
| ST66      | 66.67            | 25.4                                  | 20.8  | 9.54                                   | 30  | 28.8  | 9.59                                | 41.0                             | 4 410             | 88.2                              | Y    | 6                  | 400          |
| ST100A    | 100              | 25.4                                  | 25.4  | 11.08                                  | 32  | 35.6  | 11.11                               | 50.2                             | 5 880             | 117.6                             | D, Y | 4                  | 400          |
| ST100B    | 100              | 25.4                                  | 25.4  | 12.67                                  | 38  | 37.2  | 12.72                               | 54.0                             | 8 820             | 176.4                             | D, Y | 4                  | 400          |
| ST100C    | 100              | 25.4                                  | 25.4  | 14.63                                  | 40  | 37.9  | 14.69                               | 53.0                             | 11 070            | 221.5                             | W    | 4                  | 400          |
| ST100D    | 100              | 34.3                                  | 34.3  | 20.50                                  | 50  | 60.0  | 20.55                               | 73.5                             | 12 740            | 254.8                             | W    | 4                  | 400          |
| ST100E    | 100              | 48.26                                 | 45.7  | 29.23                                  | 65  | 68.0  | 29.28                               | 94.1                             | 22 050            | 441.0                             | W    | 4                  | 400          |
| ST100F    | 100              | 52                                    | 27.5  | 30.00                                  | 70.5  | 37.7  | 30.30                               | 58.0                             | 12 250            | 245.0                             | W    | 4                  | 400          |
| ST133     | 133.33           | 70                                    | 27.0  | 14.63                                  | 40.5  | 38.3  | 14.72                               | 54.8                             | 9 000             | 180.0                             | D    | 3                  | 400          |

Note: Chains with Step Distance t=406.4mm could also be made.

## II -22 Sugar mill chains

- Cane harvester chains
  - Cane carrier chains
  - Intermediate carrier chains - cast type
  - Bagasse carrier chains & intermediate carrier chains - roller type
  - Juice strainer conveyor chains
- Others: diffuser chains



Various sugar mill chains

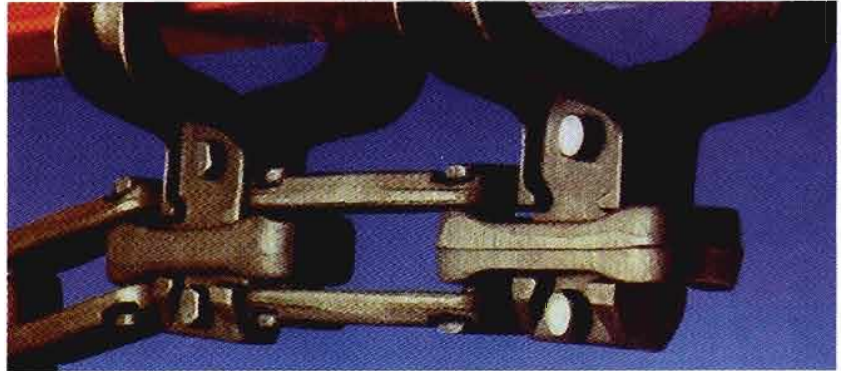
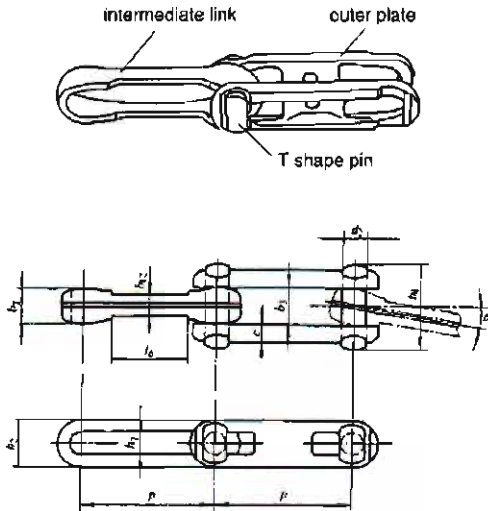


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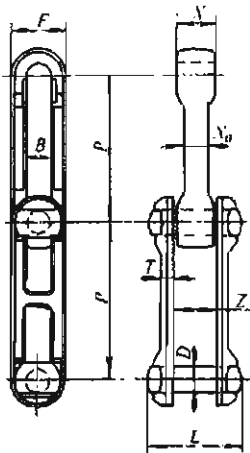


## II - 23 Drop-forged rivetless chains

Standard: ANSI B29.22M-1980 ISO 6973: 1986



| chain No. | ref. pitch | pitch | opening width of intermediate link | pin dia. | height | pin width | outer plate thickness | width of intermediate link (top) | width of intermediate link (waist) | inner width of outer plates | assembling length of intermediate link | turning angle | tensile strength | standard measuring length |        | test load |      |
|-----------|------------|-------|------------------------------------|----------|--------|-----------|-----------------------|----------------------------------|------------------------------------|-----------------------------|--|---------------|------------------|---------------------------|--------|-----------|------|
|           |            |       |                                    |          |        |           |                       |                                  |                                    |                             |  |               |                  | max                       | min    |           | max  |
| F228      | 50         | 51.1  | 7.4                                | 6.8      | 18.0   | 27.7      | 6.4                   | 11.9                             | 9.4                                | 130.0                       | --                                     | 8             | 27               | 3095.2                    | 3050.5 | 60        | 0.45 |
| F348      | 75         | 76.6  | 13.5                               | 12.7     | 28.0   | 47.0      | 10.2                  | 18.8                             | 13.2                               | 20.1                        | 40.4                                   | 9             | 96               | 3095.2                    | 3050.5 | 40        | 0.45 |
| F458      | 100        | 102.4 | 16.8                               | 16.2     | 37.0   | 58.0      | 12.0                  | 25.4                             | 16.5                               | 26.2                        | 58.7                                   | 9             | 187              | 3096.5                    | 3062.2 | 30        | 0.90 |
| F678      | 150        | 153.2 | 24.1                               | 22.3     | 52.0   | 60.0      | 18.0                  | 32.5                             | 21.3                               | 34.3                        | 84.8                                   | 5             | 320              | 3082.8                    | 3054.9 | 20        | 1.35 |



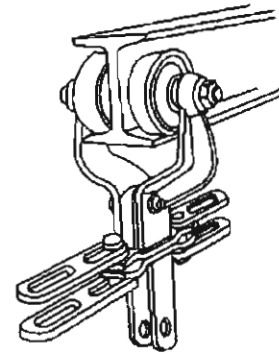
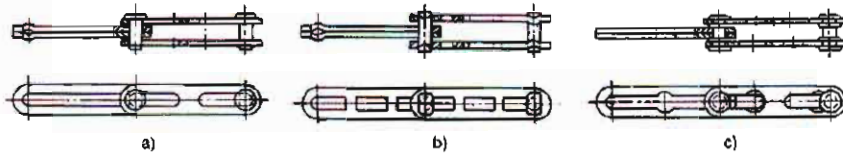
|                               | (100-16)<br>458 | (100-19)<br>468 | (150-16)<br>658 | (150-22)<br>678 | (150-28)<br>698 | (230-28)<br>998 | (230-35)<br>9118 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| ref. pitch                    | 100             | 100             | 150             | 150             | 150             | 230             | 230              |
| P                             | 102.4           | 102.4           | 153.2           | 153.2           | 153.2           | 229.4           | 229.4            |
| B/min                         | 16.8            | 21.3            | 16.8            | 24.1            | 30.0            | 30.0            | 37.3             |
| D                             | 16.0            | 19.1            | 16.0            | 22.1            | 28.4            | 28.4            | 34.5             |
| Fmax                          | 36.6            | 49.0            | 36.6            | 51.6            | 68.3            | 68.3            | 77.0             |
| Lmax                          | 58.7            | 84.1            | 58.7            | 77.0            | 95.3            | 95.3            | 124.0            |
| T                             | 7.9             | 10.9            | 11.9            | 11.9            | 14.7            | 16.0            | 19.1             |
| X                             | 25.4            | 40.9            | 25.4            | 32.5            | 39.1            | 39.1            | 49.5             |
| Xa                            | 16.3            | 29.0            | 16.3            | 21.1            | 25.4            | 25.4            | 33.3             |
| Z                             | 27.4            | 43.2            | 27.4            | 35.8            | 41.7            | 41.7            | 52.1             |
| min ultimate tensile strength | 187             | 302             | 187             | 320             | 605             | 605             | 832              |
| test links of chain           | 30              | 30              | 20              | 20              | 20              | 14              | 14               |
| test length of chain          |                 |                 |                 |                 |                 |                 |                  |
| max                           | 3090.7          | 3090.7          | 3082.8          | 3082.8          | 3082.8          | 3232.4          | 3230.4           |
| min                           | 3058.9          | 3058.9          | 3057.4          | 3057.4          | 3057.4          | 3205.0          | 3205.0           |
| test load /kN                 | 0.9             | 1.8             | 0.4             | 1.3             | 2.7             | 2.2             | 3.6              |



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## II – 24 Pressing rivetless chains for conveyors

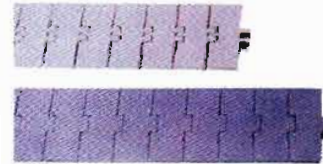


working shape

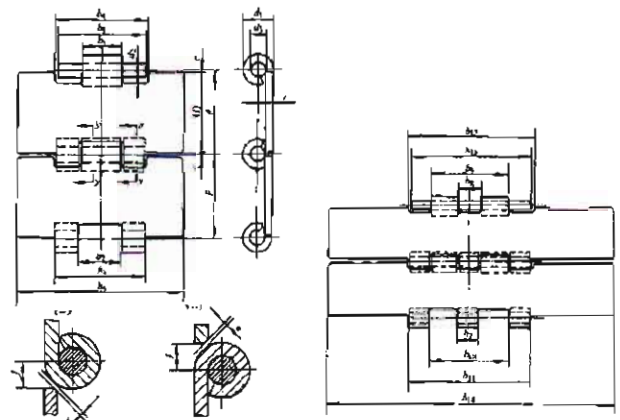
## II – 25 Top chains for conveyors

Standard: ISO 4348-1983 GB/ T 4140-93

### 25-1. Flat-top straight running chains



| Item            | ISO    | pitch | curl<br>outer<br>dia. | pin<br>dia. | slat<br>thick-<br>ness | width<br>over<br>fixed<br>curls | pin<br>length | width<br>over<br>fixed<br>curls | slat<br>width | slat<br>length | test<br>strength | tensile<br>strength |
|-----------------|--------|-------|-----------------------|-------------|------------------------|---------------------------------|---------------|---------------------------------|---------------|----------------|------------------|---------------------|
|                 |        |       |                       |             |                        |                                 |               |                                 |               |                |                  |                     |
| type            | mm     |       |                       |             |                        |                                 |               |                                 |               |                |                  |                     |
|                 | normal |       |                       |             |                        |                                 |               |                                 |               |                |                  |                     |
|                 | N      |       |                       |             |                        |                                 |               |                                 |               |                |                  |                     |
| single<br>hinge | C12S   |       |                       |             |                        |                                 | 77.20         | 76.20                           |               |                | 200              | 10000               |
|                 | C13S   |       |                       |             |                        |                                 | 83.60         | 82.60                           |               |                |                  |                     |
|                 | C14S   |       |                       |             |                        |                                 | 89.90         | 88.90                           |               |                |                  |                     |
|                 | C16S   | 38.10 | 13.13                 | 6.38        | 3.35                   | 42.05                           | 42.60         | 102.60                          | 101.60        | 37.28          | 180              | 8000                |
|                 | C18S   |       |                       |             |                        |                                 |               | 115.30                          | 114.30        |                |                  |                     |
|                 | C24S   |       |                       |             |                        |                                 |               | 153.40                          | 152.40        |                |                  | 120                 |
| double<br>hinge | C30S   |       |                       |             |                        |                                 | 81.00         | 181.50                          | 190.50        |                |                  |                     |
|                 | C30D   | 38.10 | 13.13                 | 6.38        | 3.35                   | —                               | 81.00         | 191.50                          |               | 37.28          | 400              | 20000               |
|                 |        |       |                       |             |                        |                                 |               |                                 |               |                | 320              | 16000               |
|                 |        |       |                       |             |                        |                                 |               |                                 |               |                | 250              | 12500               |

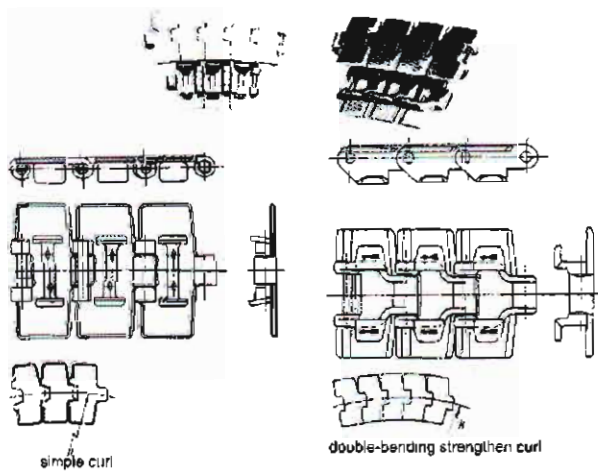


a) single hinge

a) double hinge

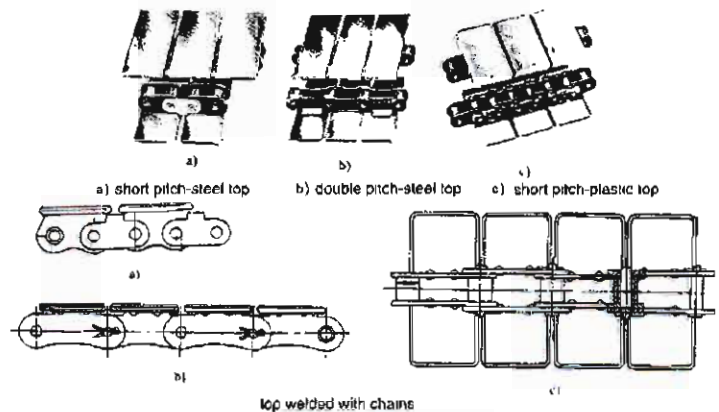
### 25-2 Side-flexing top chain

### 25-3 Straight running roller chain with flight



simple curl

double-bending strengthen curl



a) short pitch-steel top

b) double pitch-steel top

c) short pitch-plastic top

a)

b)

c)

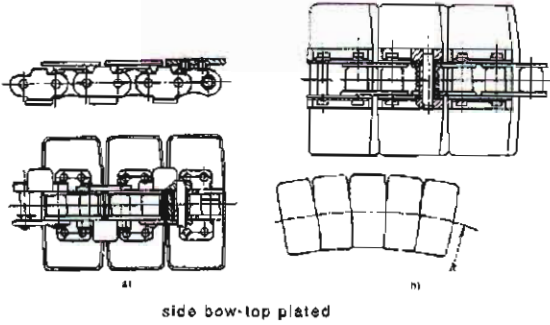
top welded with chains



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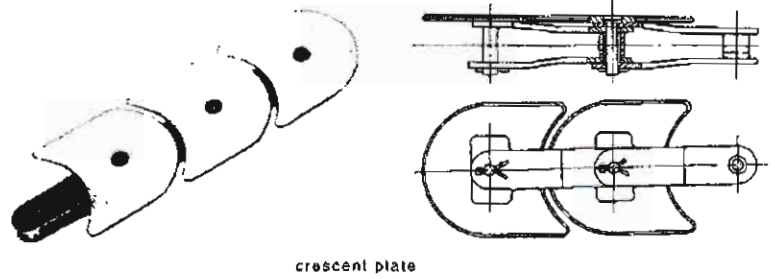


25-4 Side bow roller chains with top plated



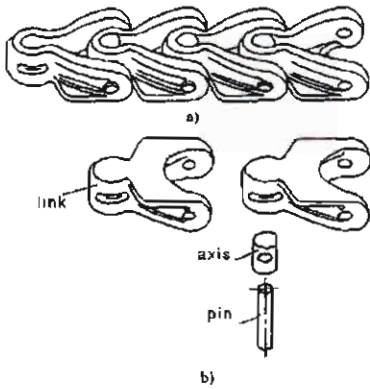
side bow-top plated

25-5 Roller top chains with crescent plate



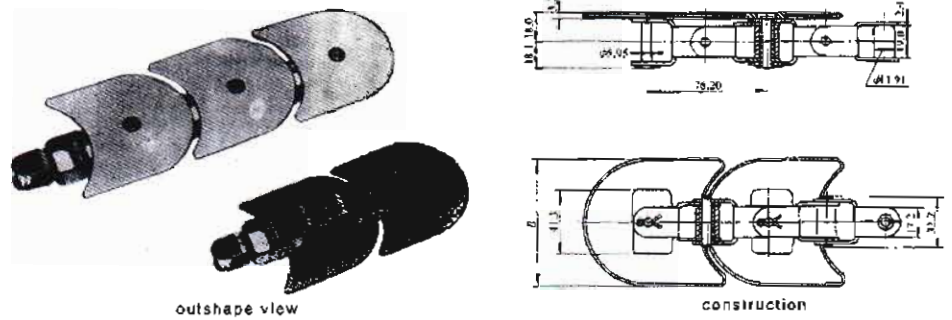
crescent plate

25-6 Multiflex one-piece flat-top chain



a) chains after assembling b) components

25-7 Universal movement top chains with crescent plate

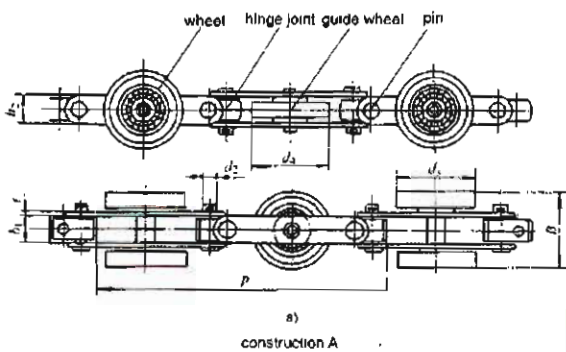


outshape view

construction

II - 26 Double hinge joints conveyor chains (Biplanar chains)

Standard: JB/ T 8546-1997



construction A

Note: Construction D, S, Y are also available

|            | pitch | width between inner links | pin dia. | wheel dia. | guide wheel dia. | wheel width | plate thickness | plate height | test strength | tensile strength |
|------------|-------|---------------------------|----------|------------|------------------|-------------|-----------------|--------------|---------------|------------------|
|            | p     | b1 min                    | d2 max   | d3 max     | d4 max           | B max       | t max           | h2 max       | q             | Q/kN min         |
| SJ150A-8   | 150   | 14.5                      | 6.5      | 37         | 44               | 37          | 2.4             | 20           | 225           | 25               |
| SJ150D-8   |       | 20                        | 7        | 45         | 45               | 38          | 4               | 14           |               |                  |
| SJ150Y-8   |       | 17                        | 6        | 33         | 33               | -           | 3               | 16           |               |                  |
| SJ200A-30  | 200   | 20                        | 8.5      | 57         | 60               | 52          | 4               | 20           | 270           | 30               |
| SJ200D-30  |       | 28                        | 10       | 55         |                  | 48          | 6               |              |               |                  |
| SJ250A-50  | 250   | 22                        | 12       | 86         | 66               | 58          | 4               | 24           | 450           | 50               |
| SJ250D-50  |       | 30                        |          |            |                  | 54          | 8               |              |               |                  |
| SJ250S-50  |       | 22                        |          |            |                  | 10          | 58              |              |               |                  |
| SJ300A-12  | 300   | 30                        | 12       | 85         | 85               | 75          | 5               | 32           | 900           | 100              |
| SJ300S-120 |       |                           |          |            |                  |             |                 |              |               |                  |



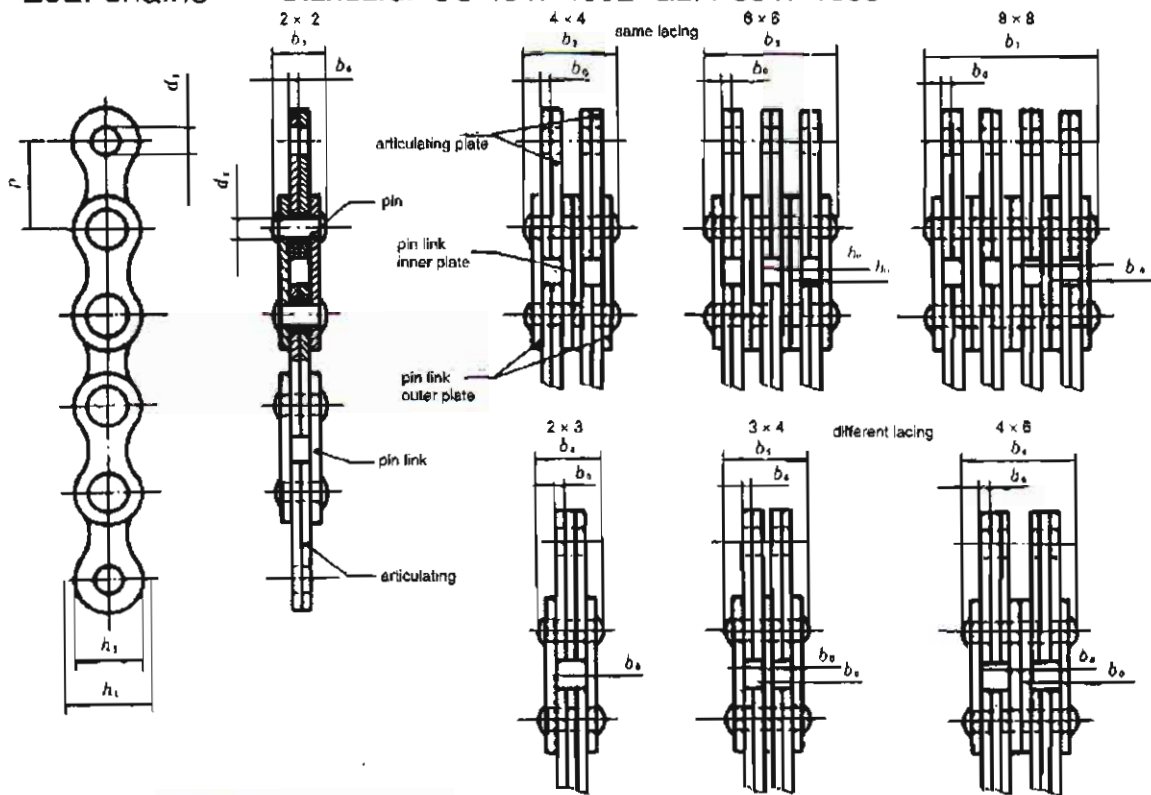
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# III Drag chains

## III-1 Leaf chains

Standard: ISO 4347-1992 GB/T 6047-1995



| ISO     | normal pitch | lacing | plate thickness<br>$b_0$<br>max | hole dia. of articulating<br>$d_1$<br>min | pin dia.<br>$d_2$<br>max | height of chain path<br>$h_1$<br>min | plate thickness<br>$h_2$<br>max | pin length<br>$b_1, b_2, b_3$<br>max | tensile strength<br>$Q$<br>min | weight per m<br>$q$ |
|---------|--------------|--------|---------------------------------|---|--------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------|---------------------|
|         | mm           |        |                                 | mm  |                          |                                      |                                 |                                      | kN                             | kg/m                |
| LL0822* |              | 2 x 2  |                                 |   |                          |                                      |                                 | 7.6                                  | 17.8                           | 0.4                 |
| LL0844  | 12.70        | 4 x 4  | 1.30                            | 4.46                                      | 4.45                     | 11.18                                | 10.92                           | 13.0                                 | 31.1                           | 0.8                 |
| LL0866  |              | 6 x 6  |                                 |   |                          |                                      |                                 | 18.4                                 | 44.5                           | 1.2                 |
| LL1022  |              | 2 x 2  |                                 |   |                          |                                      |                                 | 9.3                                  | 22.2                           | 0.5                 |
| LL1044  | 15.875       | 4 x 4  | 1.65                            | 5.09                                      | 5.08                     | 13.98                                | 13.72                           | 16.1                                 | 44.5                           | 1.0                 |
| LL1066  |              | 6 x 6  |                                 |   |                          |                                      |                                 | 22.9                                 | 66.7                           | 1.3                 |
| LL 1222 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 10.7                                 | 28.9                           | 0.7                 |
| LL 1244 | 19.05        | 4 x 4  | 1.90                            | 5.73                                      | 5.72                     | 16.39                                | 16.13                           | 18.5                                 | 57.8                           | 1.3                 |
| LL 1266 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 26.3                                 | 86.7                           | 2.0                 |
| LL 1622 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 17.2                                 | 58                             | 1.5                 |
| LL 1644 | 25.4         | 4 x 4  | 3.20                            | 8.30                                      | 8.28                     | 21.34                                | 21.08                           | 30.2                                 | 116                            | 3.0                 |
| LL 1666 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 43.2                                 | 174                            | 4.4                 |
| LL 2022 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 20.1                                 | 95                             | 2.3                 |
| LL 2044 | 31.75        | 4 x 4  | 3.70                            | 10.21                                     | 10.19                    | 26.68                                | 26.42                           | 35.1                                 | 190                            | 4.4                 |
| LL 2066 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 50.1                                 | 285                            | 6.6                 |
| LL 2422 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 28.4                                 | 170                            | 4.4                 |
| LL 2444 | 38.1         | 4 x 4  | 5.2                             | 14.66                                     | 14.63                    | 33.73                                | 33.40                           | 49.4                                 | 340                            | 8.5                 |
| LL 2166 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 70.4                                 | 510                            | 12.5                |
| LL 2822 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 34.0                                 | 200                            | 5.4                 |
| LL 2844 | 44.45        | 4 x 4  | 6.45                            | 15.92                                     | 15.9                     | 37.46                                | 37.08                           | 60.0                                 | 400                            | 10.5                |
| LL 2866 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 86.0                                 | 600                            | 15.5                |
| LL 3822 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 35.0                                 | 260                            | 6.2                 |
| LL 3244 | 50.8         | 4 x 4  | 6.45                            | 17.83                                     | 17.81                    | 42.72                                | 42.29                           | 61.0                                 | 520                            | 12.1                |
| LL 3266 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 87.0                                 | 780                            | 18.0                |
| LL 4822 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 44.7                                 | 360                            | 10.3                |
| LL 4044 | 63.5         | 4 x 4  | 8.25                            | 22.91                                     | 22.89                    | 53.49                                | 52.98                           | 77.9                                 | 780                            | 20.0                |
| LL 4066 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 111.1                                | 1080                           | 29.5                |
| LL 4822 |              | 2 x 2  |                                 |   |                          |                                      |                                 | 56.1                                 | 560                            | 18.5                |
| LL 4844 | 76.2         | 4 x 4  | 10.30                           | 29.26                                     | 29.24                    | 64.52                                | 63.88                           | 97.4                                 | 1120                           | 35.7                |
| LL 4866 |              | 6 x 6  |                                 |   |                          |                                      |                                 | 138.9                                | 1168                           | 53.0                |



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| ISO     | normal pitch p | lacing | plate thickness b0 max | hole dia. of articulating d1 min | pin dia. dz max | height of chain path h1 min | plate thickness h3 max | pin length b1*b7 max | tensile strength Q min | weight per M 4 |
|---------|----------------|--------|------------------------|----------------------------------|-----------------|-----------------------------|------------------------|----------------------|------------------------|----------------|
|         | mm             |        |                        |                                  |                 |                             |                        |                      | kN                     | kg/m           |
| LH0822* | 12.7           | 2 x 2  | 2.08                   | 5.12                             | 5.09            | 12.32                       | 12.07                  | 11.05                | 22.2                   | 0.64           |
| LH0823  |                | 2 x 3  |                        |                                  |                 |                             |                        | 13.16                | 22.2                   | 0.80           |
| LH0834  |                | 3 x 4  |                        |                                  |                 |                             |                        | 17.40                | 33.4                   | 1.12           |
| LH0844* |                | 4 x 4  |                        |                                  |                 |                             |                        | 19.51                | 44.5                   | 1.28           |
| LH0846  |                | 4 x 6  |                        |                                  |                 |                             |                        | 23.75                | 44.5                   | 1.60           |
| LH0866  |                | 6 x 6  |                        |                                  |                 |                             |                        | 27.99                | 86.7                   | 1.92           |
| LH0888  | 8 x 8          | 36.45  | 89.0                   | 2.56                             |                 |                             |                        |                      |                        |                |
| LH1022* | 15.875         | 2 x 2  | 2.44                   | 5.98                             | 5.96            | 15.34                       | 15.09                  | 12.90                | 33.4                   | 0.88           |
| LH1023  |                | 2 x 3  |                        |                                  |                 |                             |                        | 15.37                | 33.4                   | 1.10           |
| LH1034  |                | 3 x 4  |                        |                                  |                 |                             |                        | 20.32                | 48.9                   | 1.50           |
| LH1044* |                | 4 x 4  |                        |                                  |                 |                             |                        | 22.78                | 66.7                   | 1.80           |
| LH1046  |                | 4 x 6  |                        |                                  |                 |                             |                        | 27.74                | 66.7                   | 2.20           |
| LH1066  |                | 6 x 6  |                        |                                  |                 |                             |                        | 32.69                | 100.1                  | 2.65           |
| LH1088  | 8 x 8          | 42.57  | 133.4                  | 3.50                             |                 |                             |                        |                      |                        |                |
| LH1222* | 19.05          | 2 x 2  | 3.3                    | 7.96                             | 7.94            | 18.34                       | 18.11                  | 17.37                | 48.9                   | 1.45           |
| LH1223  |                | 2 x 3  |                        |                                  |                 |                             |                        | 20.73                | 48.9                   | 1.80           |
| LH1234  |                | 3 x 4  |                        |                                  |                 |                             |                        | 27.43                | 75.6                   | 2.50           |
| LH1244* |                | 4 x 4  |                        |                                  |                 |                             |                        | 30.78                | 97.9                   | 2.90           |
| LH1246  |                | 4 x 6  |                        |                                  |                 |                             |                        | 37.49                | 97.6                   | 3.60           |
| LH1266  |                | 6 x 6  |                        |                                  |                 |                             |                        | 44.20                | 146.8                  | 4.30           |
| LH1288  | 8 x 8          | 57.61  | 195.7                  | 5.80                             |                 |                             |                        |                      |                        |                |
| LH1622* | 25.4           | 2 x 2  | 4.09                   | 9.56                             | 9.54            | 24.38                       | 24.13                  | 21.34                | 84.5                   | 2.2            |
| LH1623  |                | 2 x 3  |                        |                                  |                 |                             |                        | 25.48                | 84.5                   | 2.7            |
| LH1634  |                | 3 x 4  |                        |                                  |                 |                             |                        | 33.76                | 129.0                  | 3.8            |
| LH1644* |                | 4 x 4  |                        |                                  |                 |                             |                        | 37.90                | 169.0                  | 4.3            |
| LH1646  |                | 4 x 6  |                        |                                  |                 |                             |                        | 46.18                | 169.0                  | 5.4            |
| LH1666  |                | 6 x 6  |                        |                                  |                 |                             |                        | 54.48                | 253.6                  | 6.6            |
| LH1688  | 8 x 8          | 71.02  | 336.1                  | 8.6                              |                 |                             |                        |                      |                        |                |
| LH2022* | 31.75          | 2 x 2  | 4.9                    | 11.14                            | 11.11           | 30.48                       | 30.18                  | 25.37                | 115.6                  | 3.4            |
| LH2023  |                | 2 x 3  |                        |                                  |                 |                             |                        | 30.33                | 115.6                  | 4.3            |
| LH2034  |                | 3 x 4  |                        |                                  |                 |                             |                        | 40.23                | 182.4                  | 6.0            |
| LH2044* |                | 4 x 4  |                        |                                  |                 |                             |                        | 45.19                | 231.3                  | 6.9            |
| LH2046  |                | 4 x 6  |                        |                                  |                 |                             |                        | 55.09                | 231.3                  | 8.6            |
| LH2066  |                | 6 x 6  |                        |                                  |                 |                             |                        | 65.00                | 347.0                  | 10.3           |
| LH2088  | 8 x 8          | 84.81  | 462.6                  | 13.8                             |                 |                             |                        |                      |                        |                |
| LH2422* | 38.10          | 2 x 2  | 5.77                   | 12.74                            | 12.71           | 36.55                       | 36.20                  | 29.62                | 151.2                  | 4.6            |
| LH2423  |                | 2 x 3  |                        |                                  |                 |                             |                        | 35.43                | 151.2                  | 5.8            |
| LH2434  |                | 3 x 4  |                        |                                  |                 |                             |                        | 47.07                | 244.6                  | 8.1            |
| LH2444* |                | 4 x 4  |                        |                                  |                 |                             |                        | 52.98                | 302.5                  | 9.3            |
| LH2446  |                | 4 x 6  |                        |                                  |                 |                             |                        | 64.52                | 302.5                  | 11.6           |
| LH2466  |                | 6 x 6  |                        |                                  |                 |                             |                        | 76.15                | 453.7                  | 13.9           |
| LH2488  | 8 x 8          | 99.42  | 605.0                  | 18.6                             |                 |                             |                        |                      |                        |                |
| LH2822* | 44.45          | 2 x 2  | 6.55                   | 14.31                            | 14.29           | 42.67                       | 42.24                  | 33.55                | 191.3                  | 6.1            |
| LH2823  |                | 2 x 3  |                        |                                  |                 |                             |                        | 40.16                | 191.3                  | 7.6            |
| LH2834  |                | 3 x 4  |                        |                                  |                 |                             |                        | 53.37                | 315.8                  | 10.6           |
| LH2844* |                | 4 x 4  |                        |                                  |                 |                             |                        | 59.97                | 382.6                  | 12.2           |
| LH2846  |                | 4 x 6  |                        |                                  |                 |                             |                        | 73.18                | 382.6                  | 15.2           |
| LH2866  |                | 6 x 6  |                        |                                  |                 |                             |                        | 86.39                | 578.3                  | 18.2           |
| LH2888  | 8 x 8          | 112.80 | 765.1                  | 24.3                             |                 |                             |                        |                      |                        |                |
| LH3222* | 50.80          | 2 x 2  | 7.52                   | 17.49                            | 17.46           | 48.74                       | 48.26                  | 39.01                | 289.1                  | 8.0            |
| LH3223  |                | 2 x 3  |                        |                                  |                 |                             |                        | 46.58                | 289.1                  | 10.0           |
| LH3234  |                | 3 x 4  |                        |                                  |                 |                             |                        | 61.72                | 440.4                  | 14.0           |
| LH3244* |                | 4 x 4  |                        |                                  |                 |                             |                        | 69.28                | 578.3                  | 16.0           |
| LH3246  |                | 4 x 6  |                        |                                  |                 |                             |                        | 84.43                | 578.3                  | 20.0           |
| LH3266  |                | 6 x 6  |                        |                                  |                 |                             |                        | 99.57                | 857.4                  | 24.0           |
| LH3288  | 8 x 8          | 129.84 | 1156.5                 | 32.0                             |                 |                             |                        |                      |                        |                |
| LH4022* | 63.5           | 2 x 2  | 9.91                   | 23.84                            | 23.81           | 60.88                       | 60.33                  | 51.74                | 433.7                  | 15.8           |
| LH4023  |                | 2 x 3  |                        |                                  |                 |                             |                        | 61.70                | 433.7                  | 19.8           |
| LH4034  |                | 3 x 4  |                        |                                  |                 |                             |                        | 81.61                | 649.4                  | 27.7           |
| LH4044* |                | 4 x 4  |                        |                                  |                 |                             |                        | 91.57                | 867.4                  | 31.6           |
| LH4046  |                | 4 x 6  |                        |                                  |                 |                             |                        | 111.48               | 867.4                  | 39.5           |
| LH4066  |                | 6 x 6  |                        |                                  |                 |                             |                        | 131.39               | 1301.1                 | 47.4           |
| LH4088  | 8 x 8          | 171.22 | 1734.8                 | 63.2                             |                 |                             |                        |                      |                        |                |

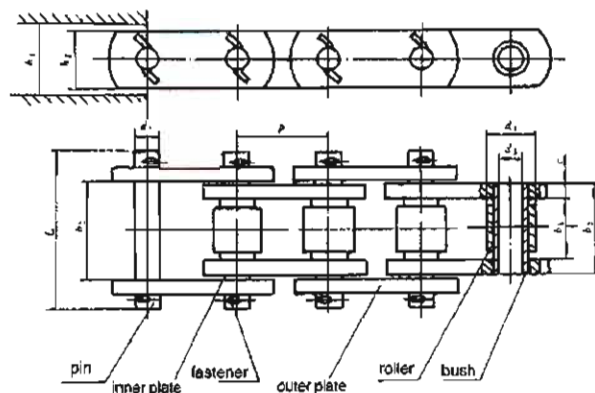
Note: Chains with mark <sup>\*\*\*</sup> has lower life and lower wearance comparing with those chains with different lacing under the conditions of same pitch and ultimate tensile strength.



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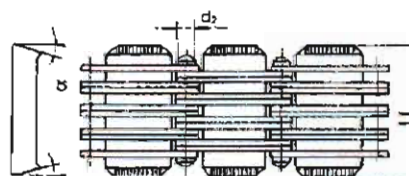
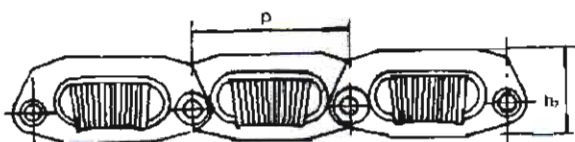
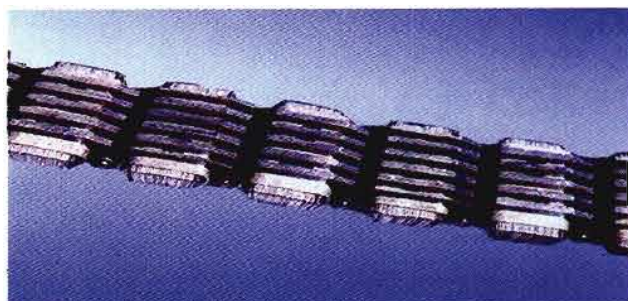
III – 2 Cold-drawing bench chains  
Standard: ZB J18005-89



| chain No. | pitch P | roller dia. |        | pin dia. |        | bush dia. |        | height of chain path |        | plate height |        | transverse pitch for double |     | inner width of inner plate |       | outer width of inner plate |    | inner width of outer plate |   | pin length L |   | test strength |   | ultimate tensile strength Q <sub>min</sub> |   | weight per M q |   |
|-----------|---------|-------------|--------|----------|--------|-----------|--------|----------------------|--------|--------------|--------|-----------------------------|-----|----------------------------|-------|----------------------------|----|----------------------------|---|--------------|---|---------------|---|--|---|----------------|---|
|           |         | d1 max      | d2 max | d3 min   | d3 min | h1 min    | h2 max | p1                   | b1 min | b2 max       | b3 min | S                           | D   | S                          | D     | S                          | D  | S                          | D | S            | D | S             | D | S  | D | S              | D |
|           |         | mm          |        |          |        |           |        |                      |        |              |        |                             |     |                            |       |                            |    |                            |   |              |   |               |   |  |   |                |   |
| Z 2814    | 88.90   | 44.45       | 22.25  | 22.33    | 81.10  | 60.50     | 90.81  | 38.10                | 64.01  | 64.14        | 115.41 | 189.22                      | 1.8 | 3.6                        | 516   | 1 032                      | 25 | 50                         |   |              |   |               |   |  |   |                |   |
| Z 3315    | 103.45  | 45.24       | 23.85  | 23.93    | 64.10  | 63.50     | 106.10 | 48.30                | 78.28  | 78.41        | 132.68 | 233.78                      | 2.2 | 4.4                        | 596   | 1 192                      | 27 | 54                         |   |              |   |               |   |  |   |                |   |
| Z 3618    | 114.30  | 57.15       | 27.97  | 28.07    | 80.00  | 79.20     | 111.60 | 52.30                | 81.46  | 81.58        | 135.86 | 240.46                      | 2.7 | 5.4                        | 814   | 1 624                      | 38 | 76                         |   |              |   |               |   |  |   |                |   |
| Z 4020    | 127.00  | 63.50       | 31.78  | 31.88    | 93.00  | 91.90     | 135.20 | 69.90                | 102.39 | 102.51       | 159.79 | 297.99                      | 3.6 | 7.2                        | 1 054 | 2 108                      | 52 | 104                        |   |              |   |               |   |  |   |                |   |
| Z 4824    | 152.40  | 76.20       | 38.13  | 38.25    | 105.70 | 104.60    | 155.20 | 76.20                | 115.09 | 115.21       | 179.59 | 330.79                      | 5.0 | 10.0                       | 1 521 | 3 042                      | 68 | 136                        |   |              |   |               |   |  |   |                |   |
| Z 5628    | 177.80  | 88.90       | 44.48  | 44.63    | 134.60 | 133.40    | 176.20 | 82.60                | 127.79 | 127.91       | 205.09 | 374.29                      | 6.8 | 13.6                       | 2 068 | 4 136                      | 95 | 190                        |   |              |   |               |   |  |   |                |   |

IV Special chains

IV – 1 P. I. V. Infinitely variable speed chains  
Standard: ZB J18003-89



| type | pitch p | pin dia d2 | width over friction plate Lf | angle of friction plate a, (°) | plate height h2 | ultimate tensile strength Q <sub>min</sub> daN | weight per M kg/m |
|------|---------|------------|------------------------------|--------------------------------|-----------------|--|-------------------|
| A1   | 18.75   | 3.0        | 24.0                         | 15                             | 9.5             | 900  | 1.0               |
| A2   | 25.00   |            | 37.8                         |                                | 13.5            | 2 100  | 2.1               |
| A3   | 28.60   |            | 44.2                         |                                | 16.0            | 3 850  | 3.0               |
| A4   | 36.00   |            | 58.5                         |                                | 20.5            | 6 150  | 5.4               |
| A5   |         | 70.0       | 7 100                        |                                | 6.7             |  |                   |
| A6   | 44.40   | 5.4        | 77.0                         |                                | 23.7            | 12 500   | 9.0               |



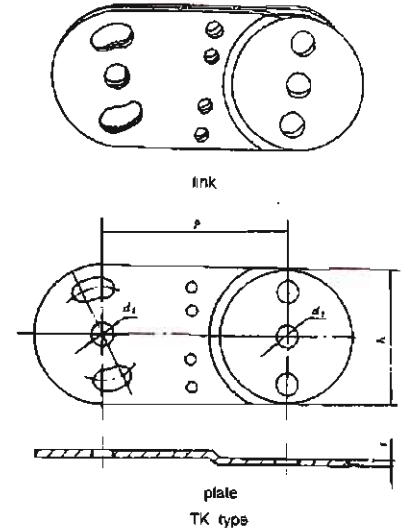
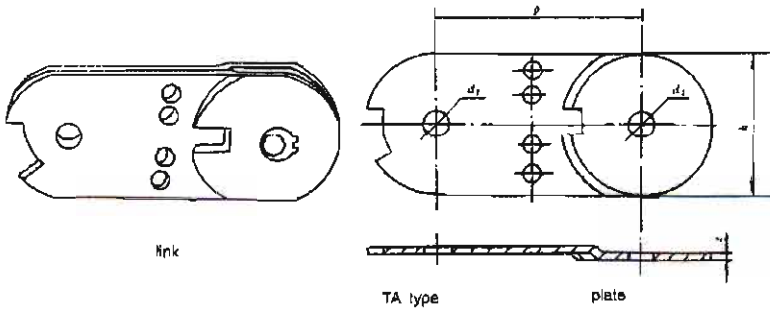
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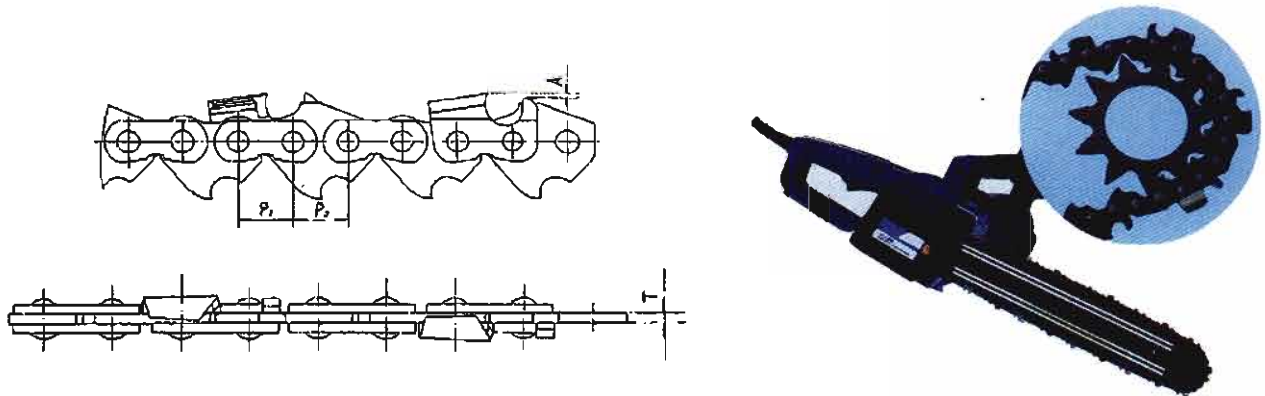
## IV – 2 Pull chains of protection

Standard: ZB J18003-89



|       | pitch<br>p | radius<br>R             | plate height<br>h | plate thickness<br>t | pin dia.<br>d2 |
|-------|------------|-------------------------|-------------------|----------------------|----------------|
| TK070 | 70         | 75, 90, 125, 145        | 50                | 2                    | 9              |
| TK095 | 95         | 125, 145, 200, 250, 300 | 70                | 2                    | 14             |
| TK125 | 125        | 200, 250, 300, 350      | 96                | 2.5                  | 20             |
| TK180 | 180        | 250, 300, 350, 450, 600 | 144               | 2.5                  | 30             |
| TA070 | 70         | 75, 90, 125, 145        | 50                | 2                    | 9              |
| TA095 | 95         | 125, 145, 200, 250, 300 | 70                | 2                    | 14             |
| TA125 | 125        | 200, 250, 300, 350      | 96                | 2.5                  | 20             |
| TA180 | 180        | 250, 300, 350, 450, 600 | 144               | 2.5                  | 30             |

## IV – 3 Saw chains



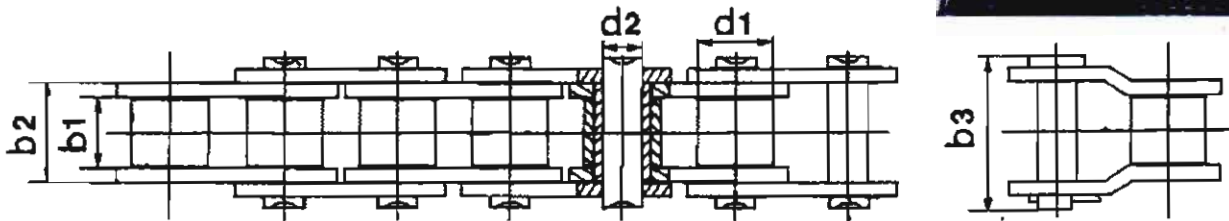
|           | pitch 1<br>P1<br>mm | normal pitch<br>P2<br>mm | depth gauge setting<br>A<br>mm | plate thickness<br>T<br>mm | ultimate tensile<br>Q<br>KN |
|-----------|---------------------|--------------------------|--------------------------------|----------------------------|-----------------------------|
| Chain No. |                     |                          |                                |                            |                             |
| JL9-3     | 9.52                | 9.33                     | 0.65                           | 1.33                       | 7.0                         |
| JL10-6    | 10.26               | 10.26                    | 0.76                           | 1.60                       | 8.5                         |



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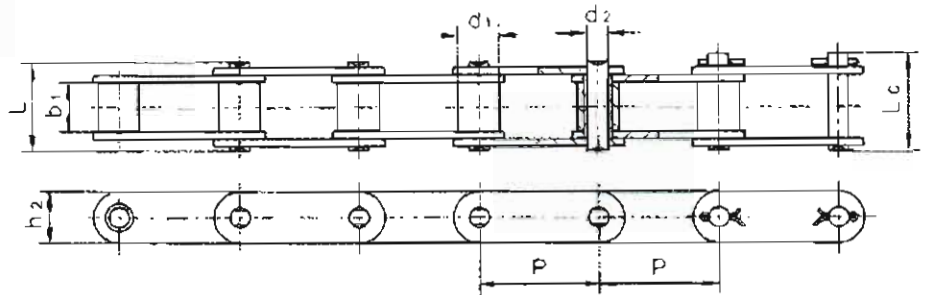


IV – 4 Oil field chains  
Standard: ZB J18003-89



| YIELD         |            | pitch p |       | roller dia. | width between inner plates | pin dia. | height of inner plate | outer or intermediate depth | width of pin | width of connecting pin | tensile strength | kg/m  |      |
|---------------|------------|---------|-------|-------------|----------------------------|----------|-----------------------|-----------------------------|--------------|-------------------------|------------------|-------|------|
| GB3638        | ANSI B29.1 | inch    | mm    |             |                            |          |                       |                             |              |                         |                  |       |      |
| single strand | 16s-1      | 80-1    | 1     | 26.40       | 15.88                      | 15.75    | 7.94                  | 24.13                       | 20.83        | 33.5                    | 35.90            | 55.6  | 2.6  |
|               | 20s-1      | 100-1   | 1 1/4 | 31.75       | 19.05                      | 18.90    | 9.54                  | 30.18                       | 26.04        | 41.1                    | 44.40            | 86.7  | 3.8  |
|               | 24s-1      | 120-1   | 1 1/2 | 38.10       | 22.23                      | 25.22    | 11.11                 | 36.20                       | 31.24        | 50.8                    | 53.69            | 124.6 | 5.6  |
|               | 28s-1      | 140-1   | 1 3/4 | 44.45       | 25.40                      | 25.22    | 12.71                 | 42.24                       | 36.45        | 54.9                    | 57.58            | 169.0 | 7.5  |
|               | 32s-1      | 160-1   | 2     | 50.80       | 28.58                      | 31.55    | 14.29                 | 48.26                       | 41.66        | 65.5                    | 69.24            | 222.4 | 9.8  |
|               | 36s-1      | 180-1   | 2 1/4 | 57.15       | 35.71                      | 35.48    | 17.46                 | 54.31                       | 46.88        | 73.9                    | 78.38            | 280.2 | 13.8 |
|               | 40s-1      | 200-1   | 2 1/2 | 63.50       | 39.68                      | 37.85    | 19.85                 | 60.33                       | 52.07        | 80.3                    | 86.54            | 347.0 | 16.5 |

IV – 5 Lumber chains



| chain No. | pitch | roller dia. | width between inner plate | pin diameter | pin length |        | inner plate depth | ultimate tensile strength | average tensile strength | weight per meter |
|-----------|-------|-------------|---------------------------|--------------|------------|--------|-------------------|---------------------------|--------------------------|------------------|
|           | P     | d1 max      | b1 min                    | d1 max       | L max      | Le max | hc max            | Q min                     | Qo                       | q                |
|           | mm    | mm          | mm                        | mm           | mm         | mm     | mm                | KN                        | KN                       | kg/m             |
| 81X       | 66.27 | 23.00       | 27.00                     | 11.10        | 49.0       | 53.5   | 28.50             | 108.7                     | 128.9                    | 3.78             |
| 81XH      | 66.27 | 23.00       | 27.78                     | 11.10        | 60.7       | 65.1   | 31.35             | 151.9                     | 175.7                    | 5.88             |
| 81XHH     | 66.27 | 23.00       | 27.78                     | 11.10        | 65.8       | 70.0   | 31.35             | 191.1                     | 212.6                    | 6.70             |
| 81XHS     | 66.27 | 23.00       | 27.00                     | 11.10        | 63.6       | 68.0   | 31.80             | 152.0                     | 177.2                    | 6.55             |
| 3939      | 203.2 | 23.00       | 27.00                     | 11.10        | 49.0       | 53.5   | 28.58             | 115.58                    | 136.5                    | 2.45             |

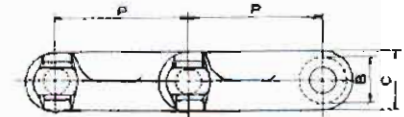
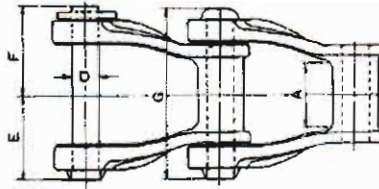
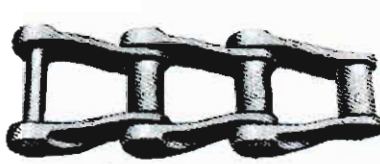


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## IV – 6 Malleable iron chains (ductile iron chains)

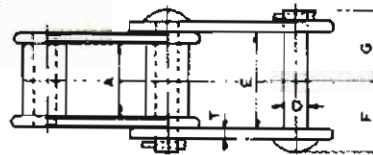
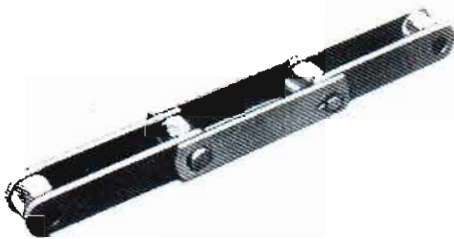
### 6-1 H Class mill chains



|       | average pitch in inches | approx. number of links in 10 feet | average weight per foot in pounds | max. work. ing load in pounds | average ultimate strength in pounds | dimensions in inches   |                    |                   |                 |               |         |                       |
|-------|-------------------------|------------------------------------|-----------------------------------|-------------------------------|-------------------------------------|------------------------|--------------------|-------------------|-----------------|---------------|---------|-----------------------|
|       |                         |                                    |                                   |                               |                                     | max. width of sprocket | diameter of barrel | width of side bar | diameter of pin | coupling pins |         | overall width riveted |
|       | P                       | A                                  | B                                 | C                             | D                                   | E                      | F                  | G                 |                 |               |         |                       |
| H 60  | 2.308                   | 52                                 | 2.1                               | 1170                          | 7000                                | 3/4                    | 3/4                | 3/4               | 5/16            | 1 1/4         | 1 7/16  | 2 19/32               |
| H 74  | 2.809                   | 46                                 | 3.5                               | 1580                          | 10000                               | 1                      | 7/8                | 1                 | 3/8             | 1 3/8         | 1 21/32 | 2 15/16               |
| H 78  | 2.609                   | 46                                 | 4.2                               | 2380                          | 16000                               | 1 1/8                  | 7/8                | 1 1/8             | 1/2             | 1 37/64       | 1 53/64 | 3 5/16                |
| H 82  | 3.075                   | 39                                 | 6.0                               | 3060                          | 20000                               | 1 1/4                  | 1 7/32             | 1 1/4             | 9/16            | 1 57/64       | 2 7/64  | 3 29/32               |
| H 124 | 4.000                   | 30                                 | 8.8                               | 5000                          | 30000                               | 1 5/8                  | 1 7/16             | 1 9/16            | 3/4             | 2 5/8         | 2 9/32  | 5                     |

Note: Ductile iron is approximately 40% stronger than malleable.

### 6-2 Combination chains



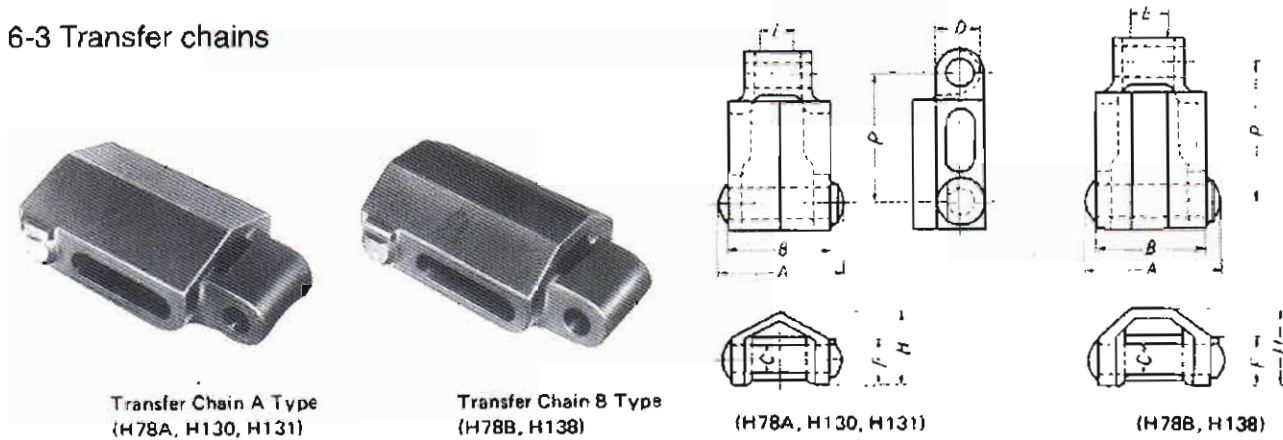
|       | average pitch in inches | approx. number of links in 10 feet | average weight per foot in pounds | max. work. ing load in pounds | average ultimate strength in pounds | dimensions in inches   |                    |                   |                 |                  |               |         |                       |
|-------|-------------------------|------------------------------------|-----------------------------------|-------------------------------|-------------------------------------|------------------------|--------------------|-------------------|-----------------|------------------|---------------|---------|-----------------------|
|       |                         |                                    |                                   |                               |                                     | max. width of sprocket | diameter of barrel | width of side bar | diameter of pin | inside side bars | coupling pins |         | thickness of side bar |
|       | P                       | A                                  | B                                 | C                             | D                                   | E                      | F                  | G                 | T               |                  |               |         |                       |
| C102B | 4.000                   | 30                                 | 6.8                               | 4000                          | 24000                               | 2                      | 3 1/32             | 1 1/2             | 5/8             | 2 27/32          | 1 63/64       | 2 21/64 | 3/8                   |
| C110  | 6.000                   | 20                                 | 6.0                               | 4000                          | 24000                               | 1 15/16                | 1 1/4              | 1 1/2             | 5/8             | 2 27/32          | 1 63/64       | 2 21/64 | 3/8                   |
| C111  | 4.760                   | 25 1/2                             | 9.6                               | 5950                          | 36000                               | 2 3/8                  | 1 7/16             | 1 3/4             | 3/4             | 3 13/32          | 2 57/64       | 2 41/64 | 3/8                   |
| C131  | 3.075                   | 39                                 | 6.6                               | 3220                          | 24000                               | 1 1/8                  | 1 1/4              | 1 1/2             | 6/8             | 2                | 1 9/16        | 1 3/4   | 3/8                   |
| C132  | 6.050                   | 20                                 | 14.5                              | 8330                          | 50000                               | 3 1/8                  | 1 29/32            | 2                 | 1               | 4 13/32          | 3 1/64        | 3 19/64 | 1/2                   |
| C168  | 2.609                   | 46                                 | 3.6                               | 2000                          | 14000                               | 1 15/16                | 7/8                | 1 1/8             | 1/2             | 1 19/32          | 1 13/64       | 1 23/64 | 1/4                   |



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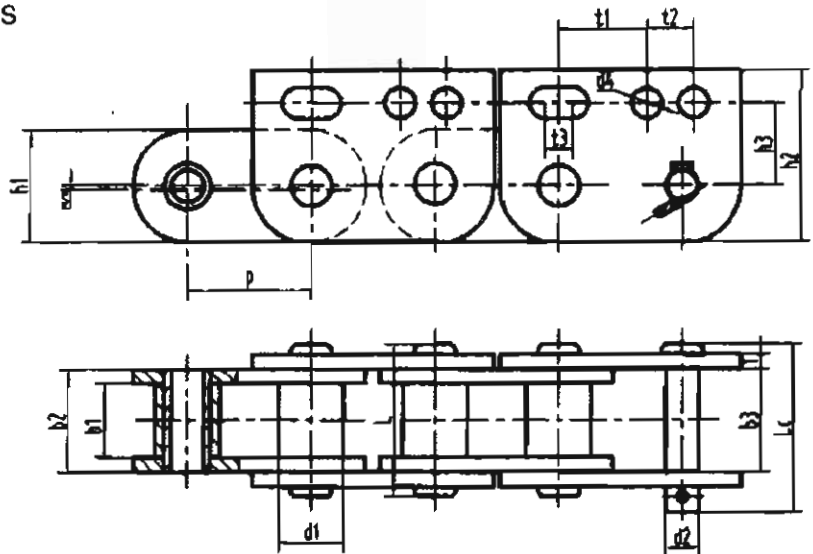
### 6-3 Transfer chains



| chain No. | type | average pitch in inches | max. working load in pounds | average ultimate strength in pounds | average weight per foot in pounds | No. of chains per 10 feet | dimensions in inches |        |     |       |       |        |        |
|-----------|------|-------------------------|-----------------------------|-------------------------------------|-----------------------------------|---------------------------|----------------------|--------|-----|-------|-------|--------|--------|
|           |      |                         |                             |                                     |                                   |                           | A                    | B      | C   | D     | E     | F      | H      |
| H- 78     | A    | 2.609                   | 2,380                       | 16,000                              | 5.7                               | 46                        | 3 3/8                | 2 3/4  | 1/2 | 7/8   | 1 1/8 | 1      | 1 7/16 |
| H- 78     | B    | 2.609                   | 2,380                       | 16,000                              | 6.2                               | 46                        | 3 3/8                | 3 3/4  | 1/2 | 7/8   | 1 1/8 | 1      | 1 7/16 |
| H- 130    | A    | 4.00                    | 2,110                       | 14,000                              | 5.2                               | 30                        | 3 1/4                | 2 9/16 | 1/2 | 1     | 1     | 1 1/8  | 1 5/8  |
| H- 130    | A    | 4.00                    | 3,840                       | 23,000                              | 8.4                               | 30                        | 4                    | 3 7/16 | 5/8 | 1 1/4 | 1 5/8 | 1 9/16 | 2 1/4  |
| H- 138    | B    | 4.00                    | 2,110                       | 15,000                              | 5.6                               | 30                        | 3 3/4                | 2 3/16 | 1/2 | 1     | 1     | 1 1/16 | 1 7/16 |

### IV - 7 LQ Trenching chains

#### 7-1 LQ-015 Digging chain



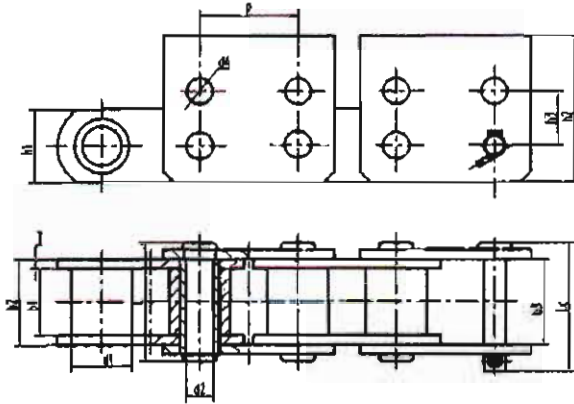
| chain No | pitch                 | roller dia | pin dia | width between inner plates | width over inner plates | width between outer plates | inner plates height | inner plates eccentricity | width over pin   |        |
|----------|-----------------------|------------|---------|----------------------------|-------------------------|----------------------------|---------------------|---------------------------|------------------|--------|
|          | P                     | d1 max     | d5 max  | b1 min                     | b2 max                  | b3 min                     | h1 max              | S                         | L max            | Lc max |
|          | 42.01                 | 22.13      | 11.1    | 25.4                       | 36                      | 36.6                       | 34.8                | 1.5                       | 54               | 58     |
| LQ-015   | outer plate dimension |            |         |                            |                         |                            | plate thickness     | ultimate tensile strength | weight per meter |        |
|          | d4 min                | h2         | h3      | t1                         | t2                      | t3                         | t                   | min kn                    | kg/m             |        |
| LQ-015   | 10.3                  | 58.7       | 28.4    | 30                         | 15.9                    | 96                         | 5                   | 151.2                     | 8.1              |        |



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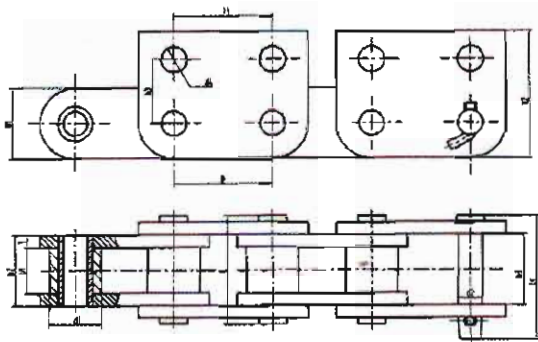


### 7-2 LQ-215 Digging chain



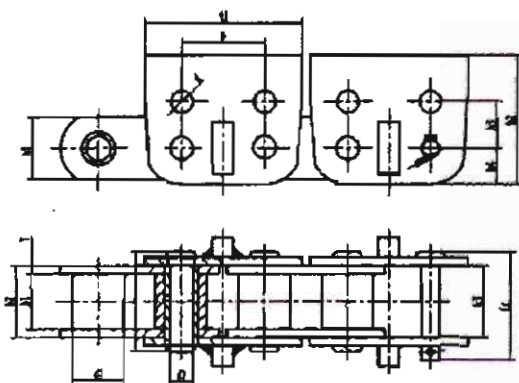
| chain No | pitch                 | roller dia | pin dia | width between inner plates | width over inner plates   | width between outer plates | inner plates height | width over pin |        |
|----------|-----------------------|------------|---------|----------------------------|---------------------------|----------------------------|---------------------|----------------|--------|
|          | p                     | d1 max     | d2 max  | b1 min                     | b2 max                    | b3 min                     | h1                  | L max          | Lc max |
| LQ-215   | 50.8                  | 28.45      | 14.22   | 31.75                      | 44.5                      | 45.97                      | 38.5                | 66             | 73.5   |
| chain No | outer plate dimension |            |         | plate thickness            | ultimate tensile strength |                            | weight per meter    |                |        |
|          | d4 min                | h2 max     | h3      | t                          | min kN                    |                            | kg/m                |                |        |
| LQ-215   | 13.4                  | 76.2       | 38.1    | 6                          | 177.9                     |                            | 13.13               |                |        |

### 7-3 LQ-411 Digging chain



| chain No | pitch                 | roller dia | pin dia | width between inner plates | width over inner plates   | width between outer plates | inner plates height | width over pin |        |
|----------|-----------------------|------------|---------|----------------------------|---------------------------|----------------------------|---------------------|----------------|--------|
|          | p                     | d1 max     | d2 max  | b1 min                     | b2 max                    | b3 min                     | h1                  | L max          | Lc max |
| 411      | 77.9                  | 41.28      | 19.05   | 36.6                       | 57.5                      | 58.7                       | 56                  | 88.5           | 98.5   |
| chain No | outer plate dimension |            |         | plate thickness            | ultimate tensile strength |                            | weight per meter    |                |        |
|          | h2 min                | h3         | t1      | d4                         | t                         | min kN                     |                     | kg/m           |        |
| LQ-411   | 100.4                 | 50.7       | 77.6    | 20.55                      | 10                        | 499.4                      |                     | 22.72          |        |

### 7-4 LQ-215A Digging chain



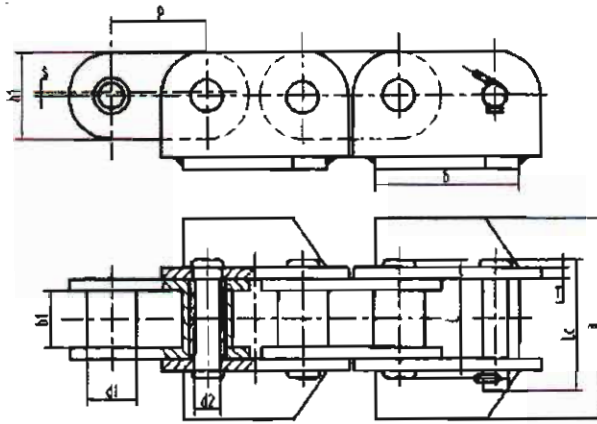
| chain No | pitch                 | roller dia. | pin dia. | width between inner plates | width over inner plates | width between outer plates | inner plates height       | width over pin   |        |
|----------|-----------------------|-------------|----------|----------------------------|-------------------------|----------------------------|---------------------------|------------------|--------|
|          | P                     | d1 max      | d5 max   | b1 min                     | b2 max                  | b3 min                     | h1 max                    | L max            | Lc max |
| LQ-215A  | 50.8                  | 31.5        | 14.22    | 31.75                      | 44.5                    | 45.97                      | 38.5                      | 66               | 73.5   |
| chain No | Outer Plate Dimension |             |          |                            |                         | Plate Thickness            | Ultimate Tensile Strength | Weight Per Meter |        |
|          | d min                 | t1          | h2       | h3                         | h4                      | T                          | min kN                    |                  | kg/m   |
| LQ-215A  | 13.4                  | 96.5        | 76.2     | 38.1                       | 22.23                   | 6                          | 177.9                     |                  | 14.98  |



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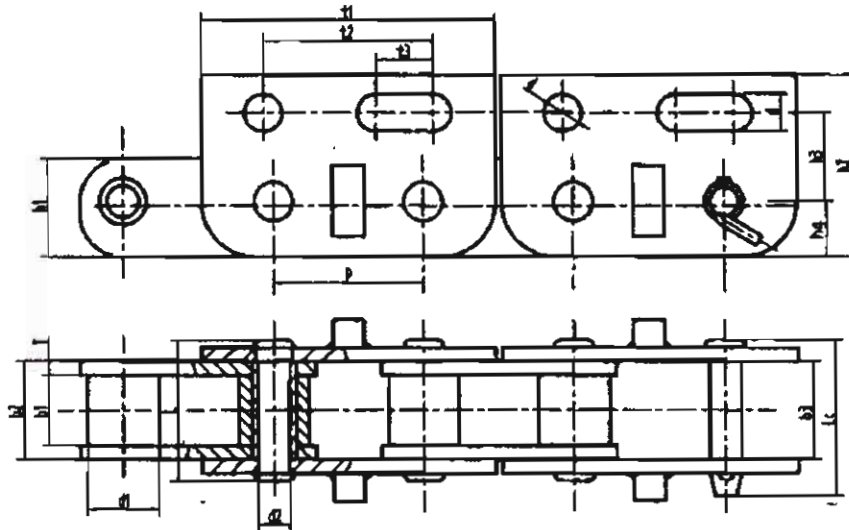
7-5 LQ-015SH & JQ-215SH Digging chain



(Dimensions in mm)

| chain No | pitch | roller dia | pin dia | width between inner plates | inner plates width | inner plates eccentricity | width over pin |        | plate thickness | attachment dimensions | ultimate tensile strength | weight per meter |
|----------|-------|------------|---------|----------------------------|--------------------|---------------------------|----------------|--------|-----------------|-----------------------|---------------------------|------------------|
|          | P     | d1 max     | d2 max  | b1 min                     | h1 max             | S                         | L max          | Lc max | T               | a x b                 | max kN                    | kg/m             |
|          | 42.01 | 22.13      | 11.1    | 25.4                       | 34.8               | 1.5                       | 54             | 58     | 5               | 88.9 x 93             | 151.2                     | 9.94             |
| 50.8     | 28.45 | 14.22      | 31.75   | 38.5                       | 0                  | 66                        | 73.5           | 6      | 101.6 x 82.55   | 177.9                 | 17.66                     |                  |

7-6 LQ-265 Digging chain



| chain No | pitch                 | roller dia | pin dia | width between inner plates | width over inner plates | width between outer plates | inner plates height | width over pin  |                           |                  |
|----------|-----------------------|------------|---------|----------------------------|-------------------------|----------------------------|---------------------|-----------------|---------------------------|------------------|
| LQ-265   | P                     | d1 max     | d2 max  | b1 min                     | b2 max                  | b3 min                     | h1 max              | L max           | Lc max                    |                  |
|          | 67.31                 | 31.5       | 14.22   | 31.75                      | 44.5                    | 45.97                      | 44                  | 66              | 73.5                      |                  |
| chain No | outer plate dimension |            |         |                            |                         |                            |                     | plate thickness | ultimate tensile strength | weight per meter |
|          | d min                 | t1 max     | t2      | t3                         | h2                      | h3                         | h4                  | T               | min kN                    | kg/m             |
| LQ-265   | 18.76                 | 132        | 76.2    | 25.4                       | 82                      | 39.88                      | 25                  | 6               | 177.9                     | 13.34            |

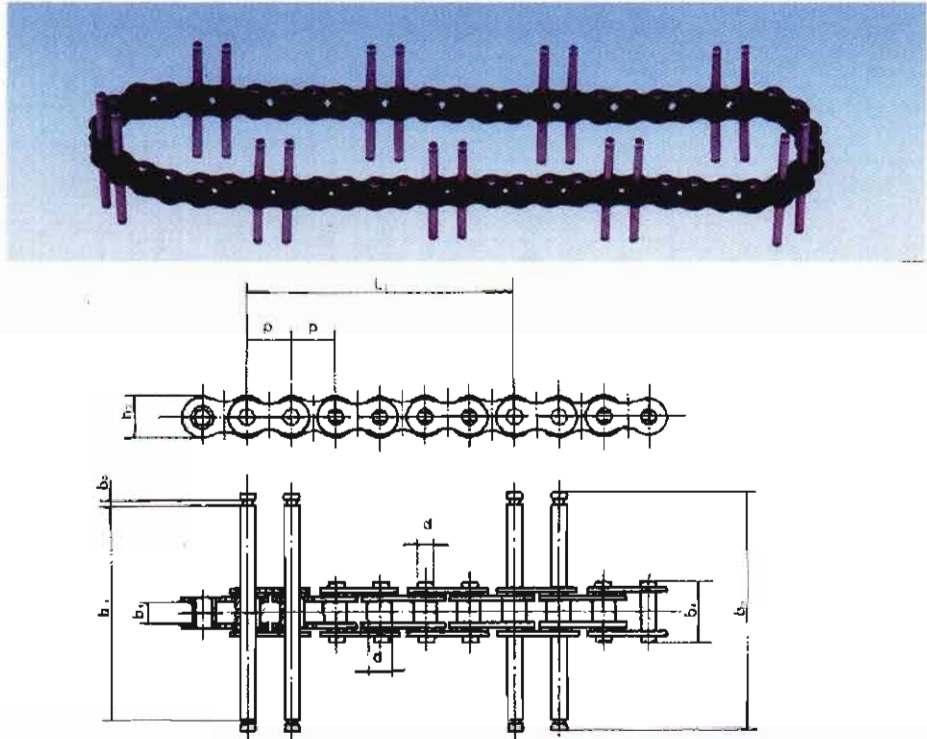


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## IV 8 LQ welding gun chains and pin oven chains

### 8-1 Conveyor bush chain for continual electrode of welding gun.



| chain No | pitch | bush diameter | pin dia. | width between inner plates | width over bearing pins | attachment dimensions |      |     | inner plate depth | per step length | ultimate tensile load | weight per meter |
|----------|-------|---------------|----------|----------------------------|-------------------------|-----------------------|------|-----|-------------------|-----------------|-----------------------|------------------|
|          | p     | d1            | d2       | b1                         | b4                      | b9                    | b10  | b0  | h2                | L1              | σ                     | q                |
|          | nom   | max           | max      | min                        | max                     | max                   | nom  | min | max               | nom             | min                   | =                |
|          | mm    | mm            | mm       | mm                         | mm                      | mm                    | mm   | mm  | mm                | mm              | kN                    | kg/m             |
| LQ-C04CD | 6.35  | 3.3           | 2.31     | 3.1                        | 8                       | 34                    | 31.6 | 0.4 | 6                 | 38.1            | 3.5                   | 0.18             |

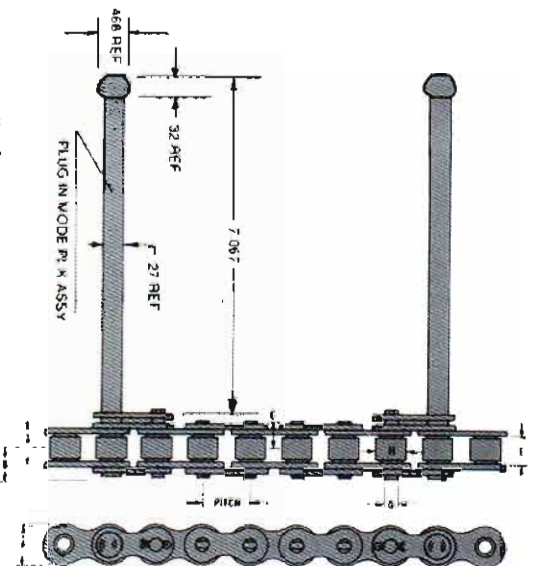
### 8-2 LQ pin oven chains

LQ pin oven chains are used by manufacturers of beverage cans to convey empty, decorated cans through curing ovens. The chains are No. 60 roller chains, specially constructed with extra clearances to give operating flexibility and space for thorough lubrication.

Standard LQ pin oven chains are 7" high (other sizes can be made to order) with pins at every seventh link. These chains have a universal assembly design that assures exact pin spacing even if the section is reversed at installation. Chains with pins at every sixth or ninth link are available on special order. Chain sections are shipped in prestressed 25', 4½" lengths, or in multiples of 7-pitches length.

Dimensions in inches

| chain No | pitch | inside width | roller dia. | from pin end to C.L. | from pin head to C.L. | side plate |        | base chain pin dia. | average ultimate strength lbs. |
|----------|-------|--------------|-------------|----------------------|-----------------------|------------|--------|---------------------|--------------------------------|
|          |       | E            | H           | B                    | C                     | thickness  | height |                     |                                |
|          |       | T            | F           | G                    |                       |            |        |                     |                                |
| LQ-719   | ¾     | 0.500        | 0.468       | 0.64                 | 0.49                  | 0.094      | 66     | 234                 | 8,500                          |



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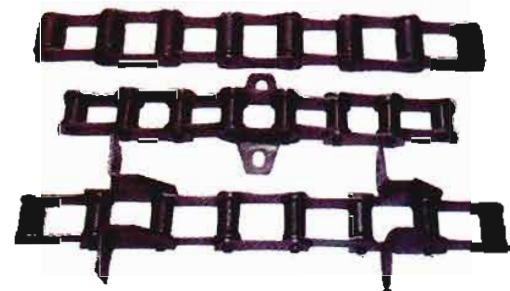
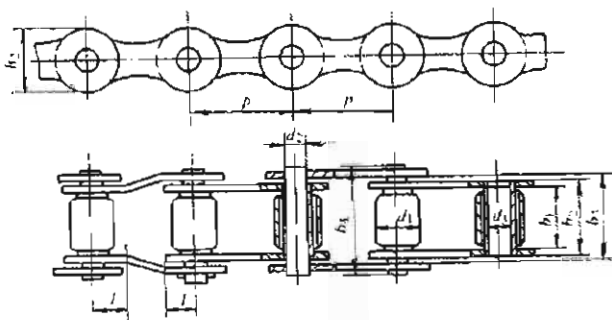


## Steel roller chains, type S and C (Agricultural chains)

Standard: ISO487-1984 GB10857-1989, DIN8189-1987 ASME B29.19M-1996

| ISO   | pitch | roller dia. | width between inner plates | width between outer plates | plate depth | bearing pin dia. | width over inner plates | width over pin | ultimate tensile strength | weight |
|-------|-------|-------------|----------------------------|----------------------------|-------------|------------------|-------------------------|----------------|---------------------------|--------|
|       | p     | d1 max      | b1 min                     | b3 min                     | h2 max      | d2 max           | b2 max                  | b4 max         | Q min                     | q=     |
|       |       |             |                            |                            |             |                  |                         |                | mm                        | kN     |
| S32   | 29.21 | 11.43       | 15.88                      | 20.57                      | 13.5        | 4.47             | 20.19                   | 26.7           | 8.0                       | 0.76   |
| S42   | 34.93 | 14.27       | 19.05                      | 25.65                      | 19.8        | 7.01             | 25.40                   | 34.3           | 26.7                      | 1.61   |
| S45   | 41.40 | 15.24       | 22.23                      | 28.96                      | 17.3        | 5.74             | 28.58                   | 38.1           | 17.8                      | 1.46   |
| S52   | 38.10 | 15.24       | 22.23                      | 28.96                      | 17.3        | 5.74             | 28.58                   | 38.1           | 17.8                      | 1.58   |
| S55   | 41.40 | 17.78       | 22.23                      | 28.96                      | 17.3        | 5.74             | 28.58                   | 38.1           | 17.8                      | 1.65   |
| S62   | 41.91 | 19.05       | 25.40                      | 32.00                      | 17.3        | 5.74             | 31.80                   | 40.6           | 26.7                      | 1.87   |
| S77   | 58.34 | 18.26       | 22.23                      | 31.50                      | 26.2        | 8.92             | 31.17                   | 43.2           | 44.5                      | 2.57   |
| S88   | 66.27 | 22.86       | 28.58                      | 37.85                      | 26.2        | 8.92             | 37.52                   | 50.8           | 44.5                      | 3.26   |
| C550  | 41.40 | 16.87       | 19.81                      | 26.16                      | 20.2        | 7.19             | 26.04                   | 35.60          | 39.1                      | 1.95   |
| C620  | 42.01 | 17.91       | 24.51                      | 31.72                      | 20.2        | 7.19             | 31.60                   | 42.20          | 39.1                      | 2.35   |
| A550  | 41.40 | 16.86       | 18.81                      | 26.04                      | 20.0        | 7.19             | 25.91                   | 35.50          | 37.8                      | 2.02   |
| A555  | 41.40 | 16.86       | 12.45                      | 20.32                      | 20.0        | 7.19             | 19.18                   | 30.30          | 37.8                      | 1.89   |
| A557  | 41.40 | 18.03       | 19.25                      | 27.67                      | 23.1        | 8.00             | 26.21                   | 37.60          | 40.0                      | 2.62   |
| A620  | 42.01 | 17.91       | 24.51                      | 31.72                      | 20.0        | 7.19             | 31.60                   | 42.16          | 37.8                      | 2.60   |
| CA550 | 41.40 | 16.86       | 18.81                      | 26.04                      | 20.0        | 7.19             | 25.91                   | 35.50          | 37.8                      | 2.04   |
| CA555 | 41.40 | 16.86       | 12.45                      | 20.32                      | 20.0        | 7.19             | 19.18                   | 30.30          | 37.8                      | 1.91   |
| CA557 | 41.40 | 18.03       | 19.25                      | 27.67                      | 23.1        | 8.00             | 26.21                   | 37.60          | 40.0                      | 2.84   |
| CA620 | 42.01 | 17.91       | 24.51                      | 31.72                      | 20.0        | 7.19             | 31.60                   | 42.16          | 37.8                      | 2.62   |
| CA650 | 50.80 | 19.05       | 19.05                      | 27.05                      | 25.5        | 9.53             | 26.93                   | 40.40          | 67.2                      | 3.68   |

Alt. K1, K8, K17, K19, K25, K27, K29, K39, A, B, C, C6E, C11, C13, C17, C117, CD, F1, F4, F14, HB4, M1, SX(F4), SE(F1) are available.



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