



INDUSTRIES INC

Chain & Industrial Manufactured Solutions



**Roller Chain**

## Connexus Industries Inc... Chain & Industrial Manufactured Solutions

**Connexus Industries** is a manufacturer and wholesaler of industrial steel chain and related products. A dynamic integration of four industry companies, Lacey Harmer, Viking Chains, I'Anco and Rens-Metal Shark has Connexus Industries positioned as one of the leading suppliers in our field.

**Connexus Industries** has three strategic stocking locations in North America, and distribution partners world wide. We can service any of our customer's needs.

**Connexus Industries** has a diverse customer base that includes the wood, food packaging, cement, sugar, waste water and agricultural industries. By bringing our products to market through multiple channels. We remain connected to our customers through contact with end users.

As a manufacturer of specialty chains, attachments, sprockets and shaft assemblies, our sales and engineering staff are able to recommend and assist our customers in their most difficult and arduous applications.

By displaying the registered CXS brand on all our products, and committed to the high standards of ISO quality management we assure our customers of our commitment and dedication to continuous product quality.

### Rudi Pieterse

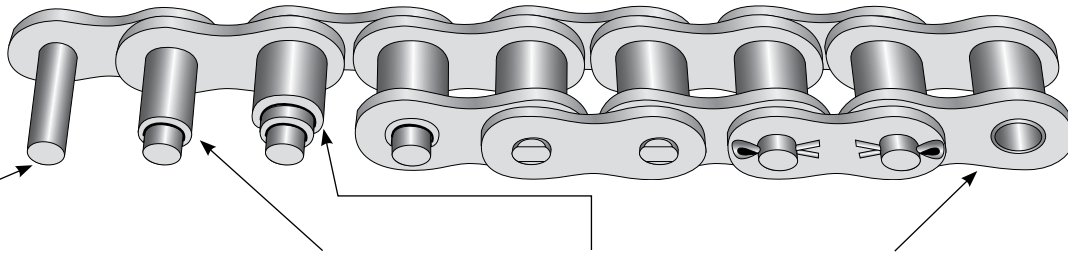
President & General Manager  
CONNEXUS INDUSTRIES



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# CHAIN CONSTRUCTION & COMPONENTS

**Roller Chain** consists of pins, bushings, rollers and link plates as illustrated below



**Pin** requires high wear resistance and shearing strength to support the entire load acting on the chain

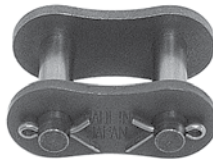
**Bushing** receives massive forces from other components of the chain and must provide wear resistance and fatigue strength

**Roller** requires high shock strength, collapse strength and wear resistance to protect the chain from heavy shock of the sprocket and also in order to articulate the chains smoothly when engaged with the sprocket

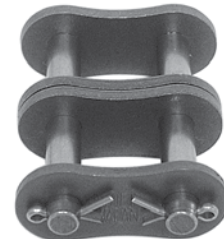
**Link plate** receives direct tension of the chain with occasional large shock on power transmission, therefore requires high tensile strength, shock resistance, and fatigue strength



**Connecting Link**  
(Spring Clip type)



**Connecting Link**  
(Cotter Pin type)



**Connecting Link**  
(Duplex)



**Offset Link**



**Offset Link**  
(Duplex)



**Two Pitch Offset Link**

**Connecting Link** allows easy installation or removal of a roller chain with an even number of pitches. Spring Clips or Cotter Pins are used to retain the connecting pins.

**Offset Link** are used to adjust the lengths of the chain with an odd number of pitches. It is not recommended to use Offset Links. Whenever possible, use chain with an even number of pitches.

**Two Pitch Offset Link** is a combination of an inner link and offset link, which is stronger than One Pitch Offset Link.

## STANDARD PACKAGING

| Number of Links (Pitches) in Package |             |                  |                |          |           |
|--------------------------------------|-------------|------------------|----------------|----------|-----------|
| Chain Size                           | Chain Pitch | Standard 10' Box | Standard Reels |          |           |
|                                      |             |                  | 25' Reel       | 50' Reel | 100' Reel |
| 25                                   | 0.250       | 480              | 1200           | 2400     | 4800      |
| 35                                   | 0.375       | 320              | 800            | 1600     | 3200      |
| 40                                   | 0.500       | 240              | 600            | 1200     | 2400      |
| 41                                   | 0.500       | 240              | 600            | 1200     | 2400      |
| 50                                   | 0.625       | 192              | 480            | 960      | 1920      |
| 60                                   | 0.750       | 160              | 400            | 800      | 1600      |
| 80                                   | 1.000       | 120              | 300            | 600      |           |
| 100                                  | 1.250       | 96               | 240            | 480      |           |
| 120                                  | 1.500       | 80               |                |          |           |
| 140                                  | 1.750       | 68               |                |          |           |
| 160                                  | 2.000       | 60               |                |          |           |
| 180                                  | 2.250       | 54               |                |          |           |
| 200                                  | 2.500       | 48               |                |          |           |
| 240                                  | 3.000       | 40               |                |          |           |

### 10' Box

Normal stocking of roller chain will be in 10' Box with proper product identification.

### Reel or Coil

Available in coils or reels, coiled around wooden or wire spool, normally 25', 50' or 100' depending on size of chain and weight.

### Ordering Cut to Length Strands:

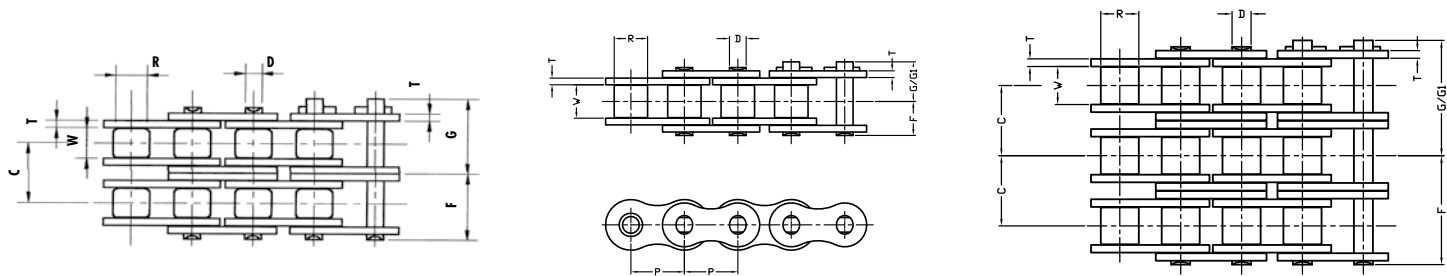
If length in pitches required is known. Please call our service personnel for aid in ordering if only length in inches, feet, or metric length is known

### Advise Configuration

| Terms                                                                   | Description of Assembly                                                                                                                                                                                                  |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RLEE<br>Odd No. of Pitches                                              | <b>Roller Link each end</b><br>exact amount of links (pitches) will end with roller link each end of strand,<br>no connecting link or offset link will be supplied                                                       |
| Inc Conn Link (Master Link)<br>Even No. of Pitches                      | <b>Pitches including connecting link</b><br>exact amount of links (pitches) will include a loose connecting link (master link) at the end of strand                                                                      |
| Inc Conn Link (Master Link)<br>Each End<br>Even No. of Pitches          | <b>Pitches including connecting link each end</b><br>exact amount of links (pitches) will include a loose connecting link (master link)<br>at both ends of strand                                                        |
| Inc Conn Link (Master Link)<br>Assembled Endless<br>Even No. of Pitches | <b>Pitches including connecting link (master link) assembled endless</b><br>exact amount of links (pitches) will include conn link assembled into endless loop                                                           |
| Riveted Endless<br>Even No. of Pitches                                  | <b>Pitches riveted endless</b><br>exact amount of links (pitches) will be supplied with no connecting or offset link but will be riveted into<br>endless loop using riveted pin link and roller link within the chain    |
| Inc C/L & O/L<br>Odd No. of Pitches                                     | <b>Pitches including connecting link (master link) and offset link</b><br>exact amount of pitches ordered will include an offset link assembled onto chain and a loose<br>connecting link (master link) will be supplied |



# STANDARD ROLLER CHAINS

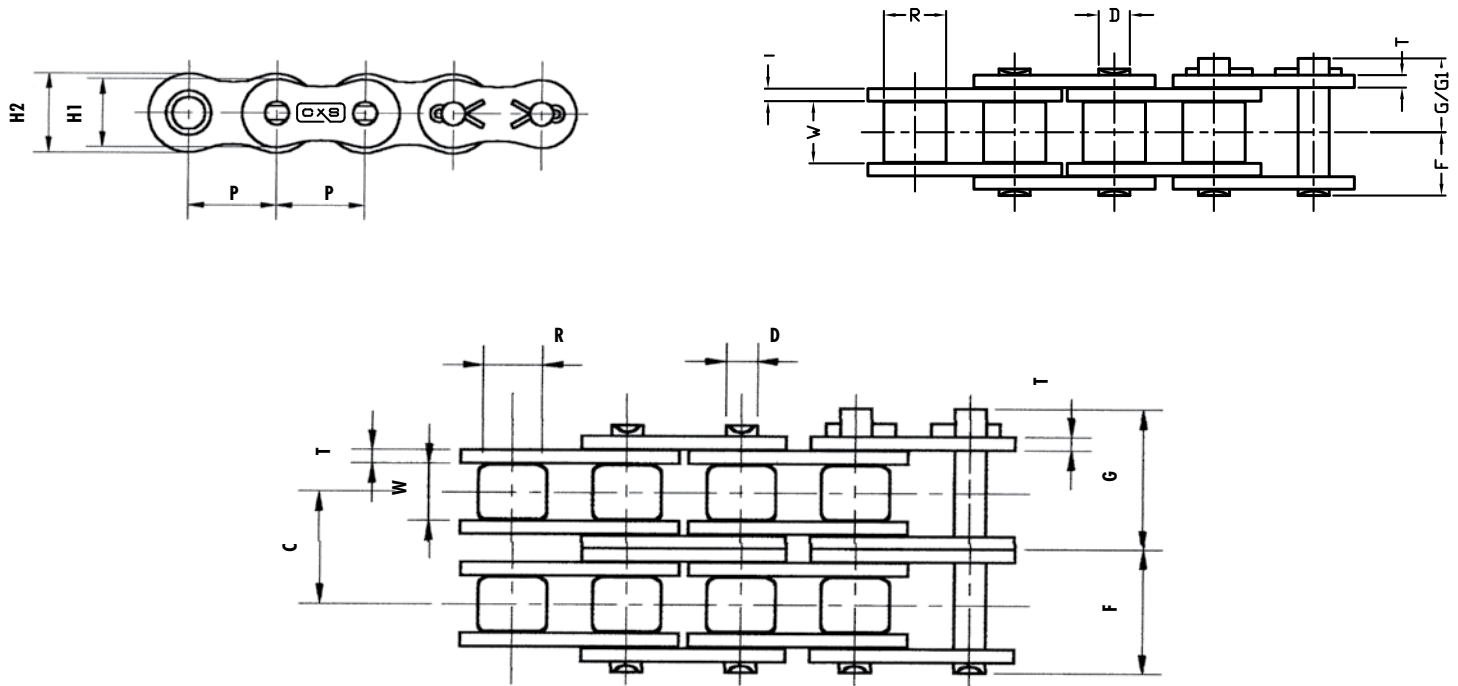


| CONNEXUS<br>ANSI #       | Pitch          | Roller<br>Width | Roller<br>Dia  | Link Plates    |                |               | Pin            |                                  |                                  |                                  | Transverse     | Avg Ult                           | Approx                           |
|--------------------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|----------------------------------|----------------------------------|----------------------------------|----------------|-----------------------------------|----------------------------------|
|                          | P              | W               | R              | Height         |                | Thickness     | Dia            |                                  | Lengths                          |                                  | PITCH          | Strength                          | Weight                           |
|                          | P              | W               | R              | H1             | H2             | T             | D              | F                                | G                                | G1                               | C              | Lbs/Ft                            | Lbs/Ft                           |
| 25<br>25-2<br>25-3       | 0.250          | 0.125           | 0.130          | 0.197          | 0.228          | 0.03          | 0.091          | 0.150<br>0.277<br>0.402          | 0.189<br>0.316<br>0.441          |                                  | 0.252<br>0.252 | 990<br>1,980<br>2,970             | 0.094<br>0.175<br>0.269          |
| 35<br>35-2<br>35-3       | 0.375          | 0.188           | 0.200          | 0.299          | 0.354          | 0.047         | 0.141          | 0.228<br>0.425<br>0.626          | 0.276<br>0.472<br>0.730          | 0.299<br>0.500<br>0.685          | 0.398<br>0.398 | 2,310<br>4,620<br>6,930           | 0.222<br>0.464<br>0.704          |
| 41<br>40<br>40-2<br>40-3 | 0.500<br>0.500 | 0.250<br>0.312  | 0.306<br>0.312 | 0.335<br>0.402 | 0.382<br>0.465 | 0.047<br>0.06 | 0.141<br>0.156 | 0.260<br>0.323<br>0.602<br>0.892 | 0.313<br>0.368<br>0.669<br>0.937 | 0.335<br>0.394<br>0.693<br>0.967 | 0.567<br>0.567 | 2,640<br>4,070<br>8,140<br>12,120 | 0.275<br>0.456<br>0.799<br>1.189 |
| 50<br>50-2<br>50-3       | 0.625          | 0.375           | 0.400          | 0.512          | 0.583          | 0.079         | 0.190          | 0.398<br>0.756<br>1.114          | 0.459<br>0.815<br>1.167          | 0.496<br>0.831<br>1.189          | 0.713<br>0.713 | 6,820<br>13,640<br>20,460         | 0.678<br>1.370<br>2.049          |
| 60<br>60-2<br>60-3       | 0.750          | 0.500           | 0.469          | 0.610          | 0.689          | 0.094         | 0.234          | 0.492<br>0.945<br>1.392          | 0.557<br>1.004<br>1.455          | 0.606<br>1.059<br>1.482          | 0.898<br>0.898 | 9,680<br>19,360<br>29,040         | 0.967<br>2.035<br>3.073          |
| 80<br>80-2<br>80-3       | 1.000          | 0.625           | 0.625          | 0.803          | 0.941          | 0.122         | 0.313          | 0.634<br>1.205<br>1.783          | 0.699<br>1.268<br>1.850          | 0.740<br>1.323<br>1.890          | 1.154<br>1.154 | 17,160<br>34,320<br>51,480        | 1.612<br>3.533<br>5.240          |
| 100<br>100-2<br>100-3    | 1.250          | 0.750           | 0.750          | 0.976          | 1.185          | 0.154         | 0.375          | 0.791<br>1.496<br>2.200          |                                  | 0.909<br>1.614<br>2.319          | 1.409<br>1.409 | 26,007<br>52,015<br>78,020        | 2.512<br>5.038<br>7.524          |
| 120<br>120-2<br>120-3    | 1.500          | 1.000           | 0.875          | 1.181          | 1.378          | 0.185         | 0.437          | 0.992<br>1.886<br>2.780          |                                  | 1.126<br>2.020<br>2.913          | 1.787<br>1.787 | 34,100<br>68,200<br>102,300       | 4.150<br>8.230<br>12.290         |
| 140<br>140-2<br>140-3    | 1.750          | 1.000           | 1.000          | 1.425          | 1.654          | 0.220         | 0.500          | 1.075<br>2.037                   |                                  |                                  | 1.925<br>1.925 | 47,300<br>94,600<br>141,900       | 5.032<br>9.962<br>14.752         |
| 160<br>160-2<br>160-3    | 2.000          | 1.250           | 1.125          | 1.630          | 1.890          | 0.252         | 0.562          | 1.281<br>2.430<br>3.585          |                                  | 1.467<br>2.618<br>3.770          | 2.303<br>2.303 | 60,500<br>121,000<br>181,500      | 6.770<br>13.430<br>20.130        |
| 180<br>180-2<br>180-3    | 2.250          | 1.406           | 1.406          | 1.842          | 2.134          | 0.280         | 0.687          | 1.402<br>2.697<br>3.992          |                                  | 1.642<br>2.937<br>4.232          | 2.591<br>2.591 | 81,610<br>163,200<br>244,800      | 9.220<br>18.326<br>27.426        |
| 200<br>200-2<br>200-3    | 2.500          | 1.562           | 1.562          | 2.047          | 2.374          | 0.315         | 0.781          | 1.531<br>2.941<br>4.35           |                                  | 1.811<br>3.22<br>4.63            | 2.819<br>2.819 | 105,900<br>211,500<br>317,400     | 11.312<br>22.470<br>33.622       |
| 240<br>240-2<br>240-3    | 3.000          | 1.875           | 1.875          | 2.457          | 2.850          | 0.374         | 0.937          | 1.858<br>3.587<br>5.315          |                                  | 2.157<br>3.886<br>5.614          | 3.457<br>3.457 | 152,200<br>304,200<br>456,400     | 16.509<br>32.817<br>49.125       |

Additional Multiple Strand Chains (-4 thru -6)  
are available from our factories or for  
special stocking arrangements.



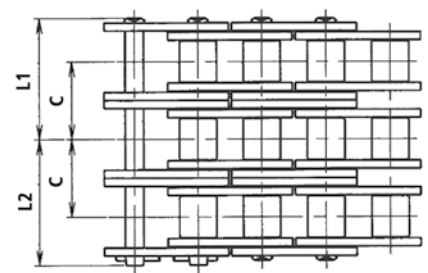
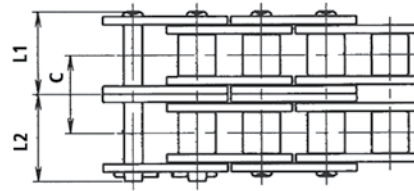
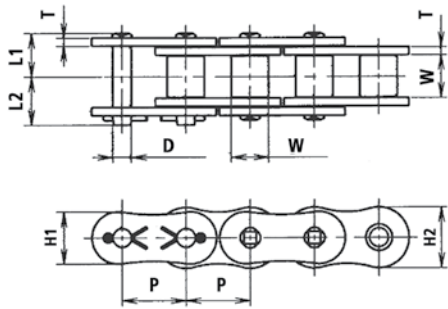
Chain & Industrial Manufactured Solutions



- ANSI **Heavy Series Chains** differ from standard roller chains in the extra thickness of link plates
- The thicker plates provide greater shock load resistance and fatigue strength
- These chains are used in heavy duty applications

| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |                | Pin      |                |                |                | Transverse | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-------|----------------|----------|----------------|----------------|----------------|------------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      |       | Thickness<br>T | Dia<br>D | Lengths        |                |                | PITCH<br>C |                               |                            |
|                    |       |                 |               | H1          | H2    |                |          | F              | G              | G1             |            |                               |                            |
| 25-H               | 0.250 | 0.125           | 0.130         | 0.197       | 0.228 | 0.039          | 0.090    | 0.177          | 0.200          |                |            | 1,232                         | 0.11                       |
| 415-H              | 0.500 | 0.188           | 0.306         | 0.402       | 0.465 | 0.059          | 0.156    | 0.252          | 0.307          |                |            | 4,070                         | 0.34                       |
| 50H                | 0.625 | 0.375           | 0.400         | 0.512       | 0.583 | 0.094          | 0.199    | 0.429          | 0.488          | 0.508          |            | 6,820                         | 0.75                       |
| 60H<br>60H-2       | 0.750 | 0.500           | 0.469         | 0.610       | 0.689 | 0.122          | 0.234    | 0.555<br>1.070 | 0.618<br>1.134 | 0.654<br>1.169 | 1.028      | 9,680<br>19,360               | 1.21<br>2.39               |
| 80H<br>80H-2       | 1.000 | 0.625           | 0.625         | 0.819       | 0.945 | 0.154          | 0.313    | 0.705<br>1.346 |                | 0.819<br>1.461 | 1.283      | 17,600<br>35,200              | 1.98<br>3.92               |
| 100H<br>100H-2     | 1.250 | 0.750           | 0.750         | 0.976       | 1.185 | 0.185          | 0.375    | 0.854<br>1.624 |                | 0.980<br>1.750 | 1.539      | 26,400<br>52,800              | 2.98<br>5.59               |
| 120H<br>120H-2     | 1.500 | 1.000           | 0.875         | 1.180       | 1.378 | 0.220          | 0.437    | 1.062<br>2.024 |                | 1.204<br>2.167 | 1.925      | 35,200<br>70,400              | 4.55<br>9.02               |
| 140H<br>140H-2     | 1.750 | 1.000           | 1.000         | 1.430       | 1.654 | 0.252          | 0.500    | 1.138<br>2.171 |                | 1.303<br>2.325 | 2.055      | 47,300<br>94,600              | 5.44<br>10.80              |
| 160H<br>160H-2     | 2.000 | 1.250           | 1.125         | 1.630       | 1.890 | 0.283          | 0.562    | 1.344<br>2.563 |                | 1.530<br>2.748 | 2.437      | 60,500<br>121,000             | 7.29<br>13.98              |

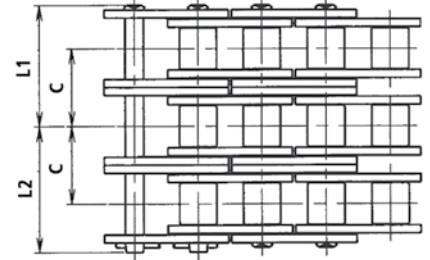
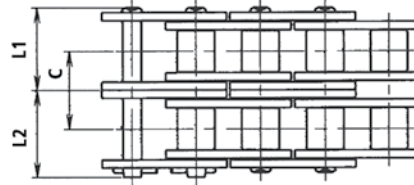
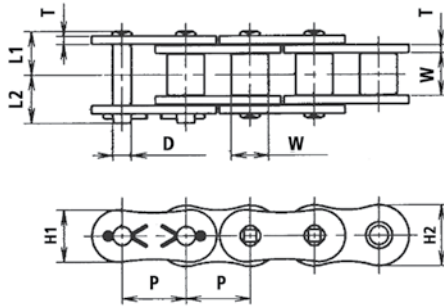
# HEAVY DUTY CHAINS SH SERIES



- **SH Series Roller Chains** have a greater ultimate tensile strength and shock load resistance
- Chains specifications include hardened pins, square (quad) riveting and link plates feature thickness of the next size chain
- SH chains are suitable for heavy duty transmission at low speeds up to 160 ft / minute.

| CONNEXUS<br>ANSI #           | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |                         |                         | Transverse<br>Pitch<br>C | Max Allow<br>Load<br>Lbs/Ft | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|------------------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|-------------------------|-------------------------|--------------------------|-----------------------------|-------------------------------|----------------------------|
|                              |       |                 |               | Height      |       | Thickness | Dia   |                         | Lengths                 |                          |                             |                               |                            |
|                              | P     | W               | R             | H1          | H2    | T         | D     | L1                      | L2                      |                          |                             |                               |                            |
| 80SH<br>80SH-2<br>80SH-3     | 1.00  | 0.63            | 0.625         | 0.819       | 0.949 | 0.157     | 0.313 | 0.699<br>1.341<br>1.982 | 0.821<br>1.463<br>2.104 | 1.283                    | 3,980<br>6,750<br>9,900     | 22,050<br>44,060<br>66,090    | 2.11<br>4.20<br>6.28       |
| 100-SH<br>100SH-2<br>100SH-3 | 1.25  | 0.75            | 0.750         | 1.024       | 1.185 | 0.189     | 0.376 | 0.839<br>1.608<br>2.378 | 0.969<br>1.738<br>2.508 | 1.539                    | 5,750<br>9,730<br>14,300    | 32,600<br>65,200<br>97,800    | 3.10<br>6.17<br>9.23       |
| 120SH<br>120SH-2<br>120SH-3  | 1.50  | 0.88            | 0.875         | 1.228       | 1.425 | 0.220     | 0.437 | 1.039<br>2.002<br>2.965 | 1.177<br>2.140<br>3.102 | 1.925                    | 7,500<br>12,750<br>18,750   | 44,060<br>88,100<br>132,200   | 4.47<br>8.90<br>13.32      |
| 140SH<br>140SH-2<br>140SH-3  | 1.75  | 1.00            | 1.000         | 1.433       | 1.661 | 0.252     | 0.500 | 1.106<br>2.134<br>3.161 | 1.299<br>2.327<br>3.354 | 2.055                    | 9,700<br>16,500<br>24,300   | 57,300<br>115,000<br>172,000  | 5.69<br>11.32<br>16.95     |
| 160SH<br>160SH-2<br>160SH-3  | 2.00  | 1.25            | 1.125         | 1.638       | 1.898 | 0.280     | 0.563 | 1.303<br>2.522<br>3.740 | 1.500<br>2.719<br>3.937 | 2.437                    | 12,300<br>21,000<br>30,800  | 72,900<br>145,500<br>218,300  | 7.40<br>14.73<br>22.06     |
| 200SH<br>200SH-2<br>200SH-3  | 2.50  | 1.50            | 1.562         | 2.047       | 2.374 | 0.374     | 0.781 | 1.663<br>3.205<br>4.746 | 1.943<br>3.484<br>5.026 | 3.083                    | 17,850<br>30,400<br>44,800  | 130,200<br>260,100<br>390,300 | 11.90<br>25.33<br>37.92    |



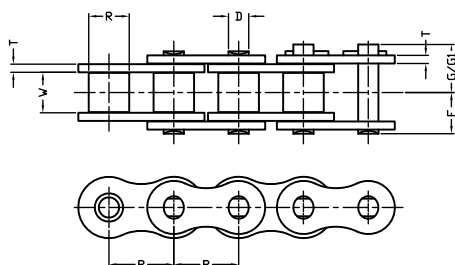


- The dimensions of **EX Series Chains** are identical to those of ANSI Standard Roller Chains
- Using special enlarged link plates and hardened quad staked pins enhancing the fatigue strength and shock load resistance of EX Chains. In addition, the ball drifting of the chains creates cylindrical holes
- EX Chains are suitable for transmission at a medium speed up to 490 ft/ minute

| CONNEXUS<br>ANSI #          | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |        |                | Pin   |         |       | Transverse | Maximum<br>Allowable<br>Load | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|-----------------------------|-------|-----------------|---------------|-------------|--------|----------------|-------|---------|-------|------------|------------------------------|-------------------------------|----------------------------|
|                             | P     | W               | R             | Height      |        | Thickness<br>T | Dia   | Lengths |       | Pitch<br>C |                              |                               |                            |
|                             |       |                 |               | H1          | H2     |                | D     | L1      | L2    |            |                              |                               |                            |
| 80EX<br>80EX-2<br>80EX-3    | 1.00  | 0.625           | 0.625         | 0.819       | 0.949  | 0.126          | 0.313 | 0.640   | 0.762 | 1.154      | 4,400                        | 19,850                        | 1.88                       |
|                             |       |                 |               |             |        |                |       | 1.217   | 1.339 |            | 7,500                        | 39,800                        | 3.69                       |
|                             |       |                 |               |             |        |                |       | 1.793   | 1.915 |            | 11,000                       | 52,800                        | 5.57                       |
| 100EX<br>100EX-2<br>100EX-3 | 1.25  | 0.750           | 0.750         | 1.024       | 1.185  | 0.157          | 0.376 | 0.776   | 0.906 | 1.409      | 6,400                        | 28,500                        | 2.82                       |
|                             |       |                 |               |             |        |                |       | 1.480   | 1.610 |            | 10,700                       | 57,300                        | 5.61                       |
|                             |       |                 |               |             |        |                |       | 2.185   | 2.315 |            | 16,000                       | 85,800                        | 8.38                       |
| 120EX<br>120EX-2<br>120EX-3 | 1.50  | 0.875           | 0.875         | 1.228       | 1.425  | 0.189          | 0.437 | 0.972   | 1.118 | 1.787      | 9,300                        | 41,800                        | 4.16                       |
|                             |       |                 |               |             |        |                |       | 1.866   | 2.004 |            | 15,700                       | 83,800                        | 8.27                       |
|                             |       |                 |               |             |        |                |       | 2.760   | 2.898 |            | 23,100                       | 125,700                       | 12.37                      |
| 140EX<br>140EX-2<br>140EX-3 | 1.75  | 1.000           | 1.000         | 1.433       | 1.661  | 0.220          | 0.500 | 1.041   | 1.234 | 1.925      | 11,700                       | 55,000                        | 5.35                       |
|                             |       |                 |               |             |        |                |       | 2.004   | 2.197 |            | 19,800                       | 110,200                       | 10.65                      |
|                             |       |                 |               |             |        |                |       | 2.967   | 3.159 |            | 29,200                       | 165,200                       | 15.94                      |
| 160EX<br>160EX-2<br>160EX-3 | 2.00  | 1.250           | 1.125         | 1.638       | 1.898  | 0.252          | 0.563 | 1.238   | 1.435 | 2.303      | 15,200                       | 70,500                        | 7.11                       |
|                             |       |                 |               |             |        |                |       | 2.390   | 2.587 |            | 25,900                       | 141,200                       | 14.15                      |
|                             |       |                 |               |             |        |                |       | 3.541   | 3.738 |            | 38,000                       | 211,500                       | 21.19                      |
| 200EX<br>200EX-2<br>200EX-3 | 2.50  | 1.500           | 1.562         | 2.047       | 2.374  | 0.280          | 0.781 | 1.531   | 1.811 | 2.819      | 21,800                       | 113,500                       | 11.71                      |
|                             |       |                 |               |             |        |                |       | 2.941   | 3.220 |            | 37,100                       | 227,100                       | 23.27                      |
|                             |       |                 |               |             |        |                |       | 4.350   | 4.630 |            | 54,600                       | 340,600                       | 34.83                      |
| 240EX<br>240EX-2<br>240EX-3 | 3.00  | 1.875           | 1.875         | 2.457       | 02.850 | .374           | 0.937 | 1.858   | 2.157 | 3.457      | 29,600                       | 163,200                       | 17.06                      |
|                             |       |                 |               |             |        |                |       | 3.587   | 3.886 |            | 50,600                       | 326,200                       | 33.91                      |
|                             |       |                 |               |             |        |                |       | 5.315   | 5.614 |            | 74,400                       | 489,400                       | 50.76                      |

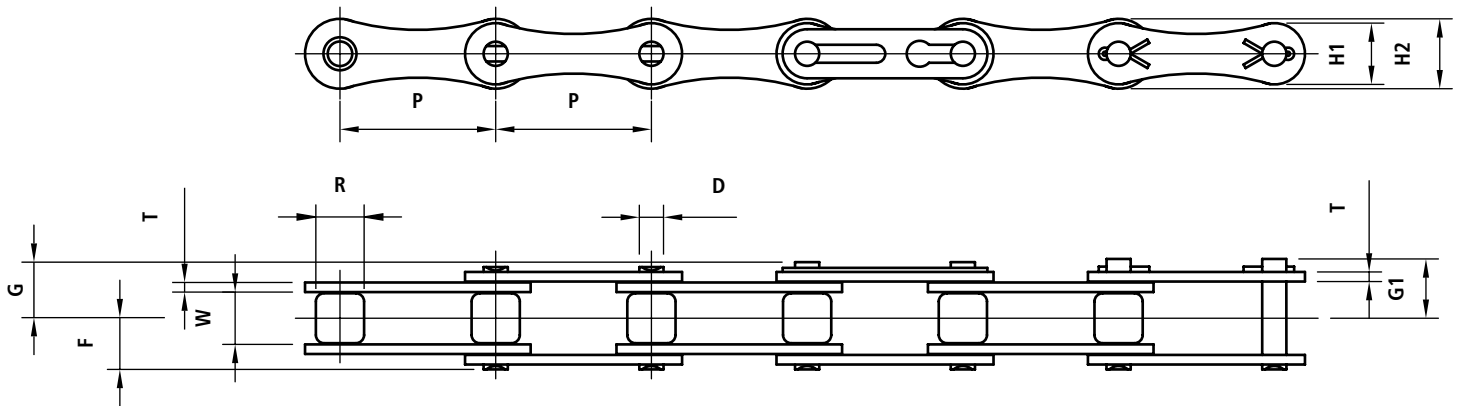
# DURALink

## PLATINUM SERIES ROLLER CHAIN



- Wide waist designed side plates for greater fatigue resistance
- Manufactured with Solid Bushings, Solid Rollers and Through Hardened Pins
- Greater maximum allowable load than standard roller chain
- For applications that have high speed and high shock loads

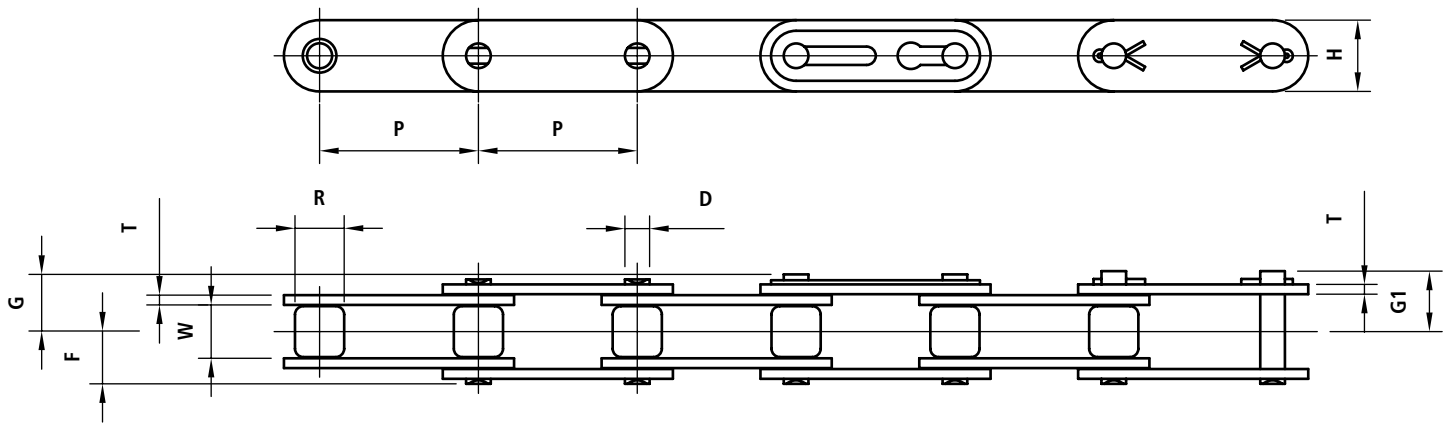
| CONNEXUS<br>ANSI #    | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |                         |                |                         | Transverse     | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|-----------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|-------------------------|----------------|-------------------------|----------------|-------------------------------|----------------------------|
|                       | P     | W               | R             | Height      |       | Thickness | Dia   |                         | Lengths        |                         | PITCH          |                               |                            |
|                       |       |                 |               | H1          | H2    | T         | D     | F                       | G              | G1                      | C              |                               |                            |
| 60<br>60-2            | 0.750 | 0.500           | 0.469         | 0.610       | 0.689 | 0.094     | 0.234 | 0.492<br>0.945          | 0.557<br>1.004 | 0.606<br>1.059          | 0.898          | 10,648<br>21,296              | 0.967<br>2.035             |
| 80<br>80-2            | 1.000 | 0.625           | 0.625         | 0.803       | 0.941 | 0.122     | 0.313 | 0.634<br>1.205          | 0.699<br>1.268 | 0.740<br>1.323          | 1.154          | 18,876<br>37,620              | 1.612<br>3.533             |
| 100<br>100-2          | 1.250 | 0.750           | 0.750         | 0.976       | 1.185 | 0.154     | 0.375 | 0.791<br>1.496          |                | 0.909<br>1.614          | 1.409          | 28,607<br>57,216              | 2.512<br>5.038             |
| 120<br>120-2          | 1.500 | 1.000           | 0.875         | 1.181       | 1.378 | 0.185     | 0.437 | 0.992<br>1.886          |                | 1.126<br>2.020          | 1.787          | 37,510<br>75,020              | 4.150<br>8.230             |
| 140<br>140-2          | 1.750 | 1.000           | 1.000         | 1.425       | 1.654 | 0.220     | 0.500 | 1.075<br>2.037          |                |                         | 1.925          | 52,030<br>104,060             | 5.032<br>9.962             |
| 160<br>160-2<br>160-3 | 2.000 | 1.250           | 1.125         | 1.630       | 1.890 | 0.252     | 0.562 | 1.281<br>2.430<br>3.585 |                | 1.467<br>2.618<br>3.770 | 2.303<br>2.303 | 66,500<br>133,100<br>199,650  | 6.770<br>13.430<br>20.130  |
| 180<br>180-2<br>180-3 | 2.250 | 1.406           | 1.406         | 1.842       | 2.134 | 0.280     | 0.687 | 1.402<br>2.697<br>3.992 |                | 1.642<br>2.937<br>4.232 | 2.591<br>2.591 | 89,771<br>179,520<br>269,280  | 9.220<br>18.326<br>27.426  |
| 200<br>200-2<br>200-3 | 2.500 | 1.562           | 1.562         | 2.047       | 2.374 | 0.315     | 0.781 | 1.531<br>2.941<br>4.35  |                | 1.811<br>3.22<br>4.63   | 2.819<br>2.819 | 116,490<br>232,650<br>349,140 | 11.312<br>22.470<br>33.622 |
| 240<br>240-2<br>240-3 | 3.000 | 1.875           | 1.875         | 2.457       | 2.850 | 0.374     | 0.937 | 1.858<br>3.587<br>5.315 |                | 2.157<br>3.886<br>5.614 | 3.457<br>3.457 | 167,420<br>334,620<br>502,040 | 16.509<br>32.817<br>49.125 |



- **RS Double Pitch**, an economical conveyor chain, feature figure 8 side plates
- These chains are used in slow speed, low load, and/or where the center distance is long

| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      |       | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    |       |                 |               | H1          | H2    | T         | D     | F       | G     | G1    |                               |                            |
| A2040              | 1.00  | 0.313           | 0.312         | 0.398       | 0.460 | 0.059     | 0.156 | 0.323   | 0.366 | 0.394 | 4,070                         | 0.27                       |
| A2050              | 1.25  | 0.375           | 0.400         | 0.496       | 0.575 | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 6,820                         | 0.44                       |
| A2060              | 1.50  | 0.500           | 0.469         | 0.590       | 0.673 | 0.094     | 0.234 | 0.492   | 0.557 | 0.606 | 9,680                         | 0.66                       |

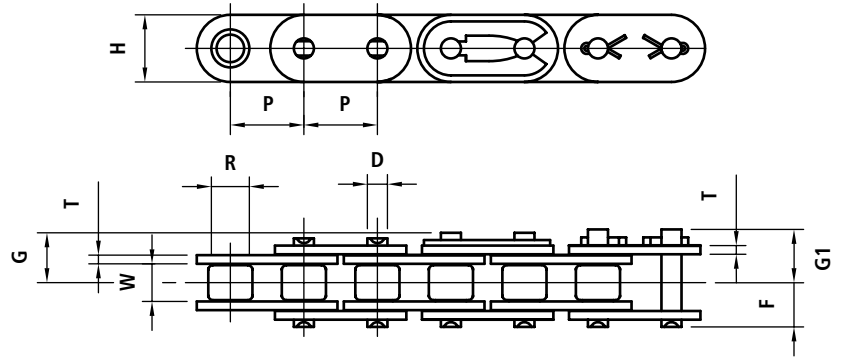
# DOUBLE PITCH CONVEYOR CHAIN



- **Double Pitch Roller Chains** feature straight side bar plates and are widely used for light to medium duty conveyors, bucket elevators, and in material handling/processing equipment
- Available in mild steel, nickel plated, stainless steel
- Standard Roller designation is indicated as chain ending with # 0
- Oversize Roller is indicated with # 2
- Heavy Side Plates are featured on C2060(2) chains and higher

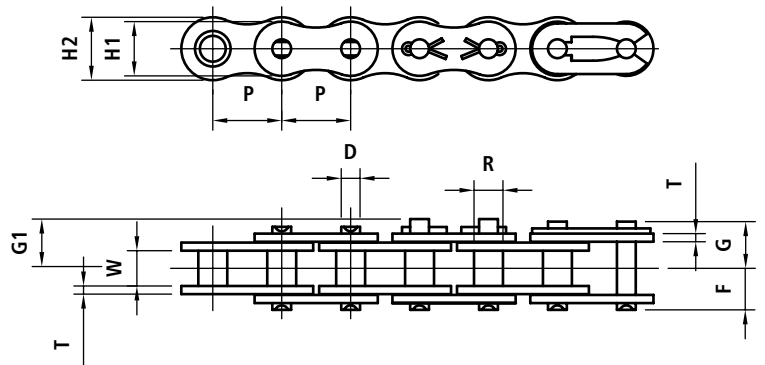
| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |           | Pin   |         |       |       | Max Allow<br>Load<br>Lbs/Ft | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-----------|-------|---------|-------|-------|-----------------------------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      | Thickness | Dia   | Lengths |       |       |                             |                               |                            |
|                    |       |                 |               | H           | T         | D     | F       | G     | G1    |                             |                               |                            |
| C2040              | 1.00  | 0.312           | 0.312         | 0.461       | 0.059     | 0.156 | 0.323   | 0.366 | 0.394 | 616                         | 4,077                         | 0.34                       |
| C2050              | 1.25  | 0.375           | 0.400         | 0.575       | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 1014                        | 6,832                         | 0.58                       |
| C2060H             | 1.50  | 0.500           | 0.469         | 0.673       | 0.122     | 0.234 | 0.555   | 0.618 | 0.654 | 1410                        | 11,681                        | 1.01                       |
| C2080H             | 2.00  | 0.625           | 0.625         | 0.906       | 0.154     | 0.313 | 0.705   | 0.764 | 0.819 | 2423                        | 20,277                        | 1.58                       |
| C2100H             | 2.50  | 0.750           | 0.750         | 1.138       | 0.185     | 0.375 | 0.854   |       | 0.980 | 3855                        | 29,754                        | 2.37                       |
| C2120H             | 3.00  | 1.000           | 0.875         | 1.378       | 0.220     | 0.437 | 1.062   |       | 1.204 | 5398                        | 34,150                        | 3.45                       |
| C2160H             | 4.00  | 1.250           | 1.130         | 1.890       | 0.283     | 0.563 | 1.344   |       | 1.530 | 9253                        | 57,280                        | 5.92                       |
| C2042              | 1.00  | 0.312           | 0.625         | 0.461       | 0.059     | 0.156 | 0.323   | 0.366 | 0.394 | 616                         | 4,077                         | 0.58                       |
| C2052              | 1.25  | 0.375           | 0.750         | 0.575       | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 1014                        | 6,832                         | 0.91                       |
| C2062H             | 1.50  | 0.500           | 0.875         | 0.673       | 0.122     | 0.234 | 0.555   | 0.618 | 0.654 | 1410                        | 11,681                        | 1.47                       |
| C2082H             | 2.00  | 0.625           | 1.125         | 0.906       | 0.154     | 0.313 | 0.705   | 0.764 | 0.819 | 2423                        | 20,277                        | 2.29                       |
| C2102H             | 2.50  | 0.750           | 1.562         | 1.138       | 0.185     | 0.375 | 0.854   |       | 0.980 | 3855                        | 29,754                        | 3.82                       |
| C2122H             | 3.00  | 1.000           | 1.750         | 1.378       | 0.220     | 0.437 | 1.062   |       | 1.204 | 5398                        | 34,150                        | 5.44                       |
| C2162H             | 4.00  | 1.250           | 2.250         | 1.890       | 0.283     | 0.563 | 1.344   |       | 1.530 | 9253                        | 57,280                        | 9.03                       |

## • Straight Sidebar Roller Chains



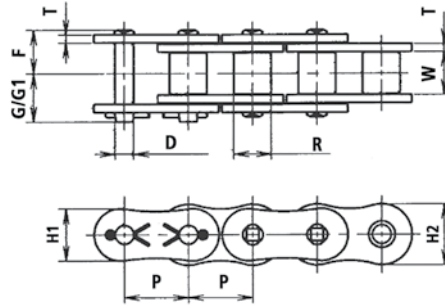
| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |                | Pin      |         |       |        | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|----------------|----------|---------|-------|--------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height<br>H | Thickness<br>T | Dia<br>D | Lengths |       |        |                               |                            |
|                    |       |                 |               |             |                |          | F       | G     | G1     |                               |                            |
| 40-F0.500          | 0.313 | 0.312           | 0.472         | 0.059       | 0.156          | 0.323    | 0.368   | 0.394 | 4,100  | 0.44                          |                            |
| 50-F0.625          | 0.375 | 0.400           | 0.591         | 0.079       | 0.199          | 0.398    | 0.459   | 0.496 | 6,800  | 0.69                          |                            |
| 60-F0.750          | 0.500 | 0.469           | 0.713         | 0.094       | 0.234          | 0.492    | 0.557   | 0.606 | 9,700  | 0.98                          |                            |
| 80-F1.000          | 0.625 | 0.625           | 0.945         | 0.122       | 0.313          | 0.634    | 0.699   | 0.740 | 17,160 | 1.64                          |                            |
| 100-F              | 1.250 | 0.750           | 0.750         | 1.138       | 0.154          | 0.375    | 0.791   | 0.864 | 0.909  | 28,600                        | 2.88                       |
| 120-F              | 1.500 | 1.000           | 0.875         | 1.425       | 0.189          | 0.437    | 0.972   | 1.110 | 1.126  | 34,200                        | 4.01                       |

- **Rollerless Chains**, having the same tensile strength and working loads as ANSI standard chains, are used in lift or hoist applications
- They require special sprockets and offset links are not recommended in these applications



| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Bushing<br>Dia | Link Plates |       |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|----------------|-------------|-------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    | P     | W               | R              | Height      |       | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    |       |                 |                | H1          | H2    | T         | D     | F       | G     | G1    |                               |                            |
| 55                 | 0.625 | 0.375           | 0.276          | 0.512       | 0.583 | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 6,820                         | 0.56                       |
| 65                 | 0.750 | 0.500           | 0.319          | 0.610       | 0.689 | 0.094     | 0.234 | 0.492   | 0.557 | 0.606 | 9,680                         | 0.80                       |
| 85                 | 1.000 | 0.625           | 0.445          | 0.803       | 0.941 | 0.122     | 0.313 | 0.634   | 0.699 | 0.740 | 17,160                        | 1.48                       |
| 105                | 1.250 | 0.750           | 0.530          | 0.976       | 1.185 | 0.154     | 0.375 | 0.791   | 0.864 | 0.909 | 25,960                        | 2.21                       |
| 125                | 1.500 | 1.000           | 0.624          | 1.181       | 1.378 | 0.185     | 0.437 | 0.972   | 1.110 | 1.126 | 34,100                        | 3.23                       |

# NICKEL PLATED STANDARD CHAIN

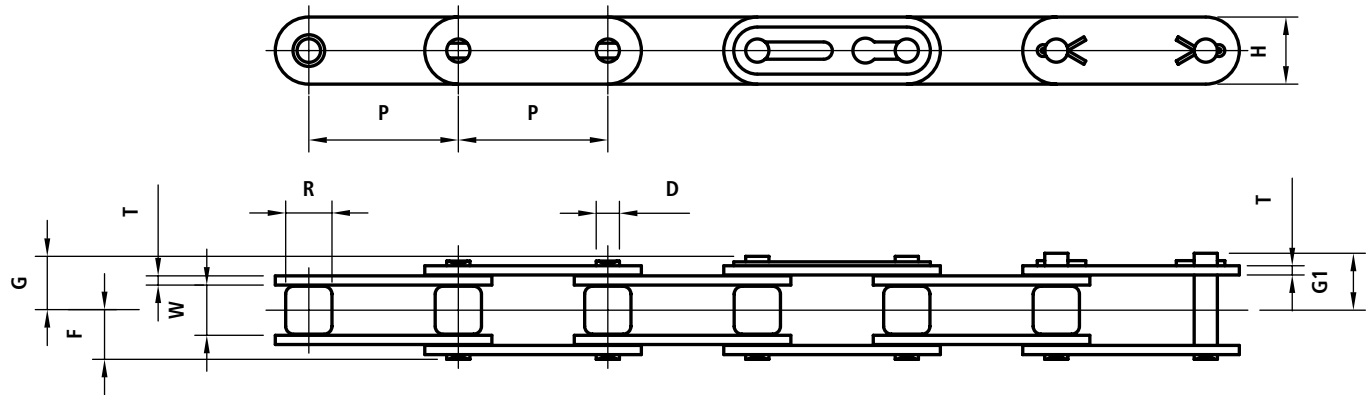


- **Nickel Plated Chains** are resistant to corrosion and are suitable for outdoor operations or in a mildly corrosive atmosphere
  - Not acceptable in FDA requirements
  - All parts are treated to nickel plating process prior to assembly for consistency
  - Also available from factory are zinc plated chains used in ice house applications
- Additional Multiple Strand Chains (-2 thru -4 ) are available from our factories or for special stocking arrangements

*Consult your Connexus Service Center for special handling*

| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    |       |                 |               | Height      |       | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    | P     | W               | R             | H1          | H2    | T         | D     | F       | G     | G1    |                               |                            |
| 25 NP              | 0.250 | 0.125           | 0.130         | 0.197       | 0.228 | 0.030     | 0.091 | 0.150   | 0.189 |       | 990                           | 0.09                       |
| 35 NP              | 0.375 | 0.188           | 0.200         | 0.299       | 0.354 | 0.047     | 0.141 | 0.228   | 0.276 | 0.299 | 2,310                         | 0.22                       |
| 41 NP              | 0.500 | 0.250           | 0.306         | 0.335       | 0.382 | 0.047     | 0.141 | 0.260   | 0.313 | 0.335 | 2,640                         | 0.28                       |
| 40 NP              | 0.500 | 0.312           | 0.312         | 0.402       | 0.465 | 0.060     | 0.156 | 0.323   | 0.368 | 0.394 | 4,070                         | 0.46                       |
| 50 NP              | 0.625 | 0.375           | 0.400         | 0.512       | 0.583 | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 6,820                         | 0.68                       |
| 60 NP              | 0.750 | 0.500           | 0.469         | 0.610       | 0.689 | 0.094     | 0.234 | 0.492   | 0.557 | 0.606 | 9,680                         | 0.97                       |
| 80 NP              | 1.000 | 0.625           | 0.625         | 0.803       | 0.941 | 0.122     | 0.313 | 0.634   | 0.699 | 0.740 | 17,160                        | 1.61                       |
| 100 NP             | 1.250 | 0.750           | 0.750         | 0.976       | 1.185 | 0.154     | 0.375 | 0.791   | 0.864 | 0.909 | 25,960                        | 2.51                       |
| 120 NP             | 1.500 | 1.000           | 0.875         | 1.181       | 1.378 | 0.185     | 0.437 | 0.972   | 1.110 | 1.126 | 34,100                        | 4.15                       |
| 140 NP             | 1.750 | 1.000           | 1.000         | 1.425       | 1.654 | 0.220     | 0.500 | 1.075   |       |       | 47,300                        | 5.03                       |
| 160 NP             | 2.000 | 1.250           | 1.125         | 1.630       | 1.890 | 0.252     | 0.562 | 1.281   |       | 1.467 | 60,500                        | 6.77                       |





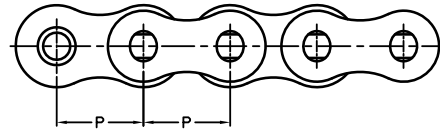
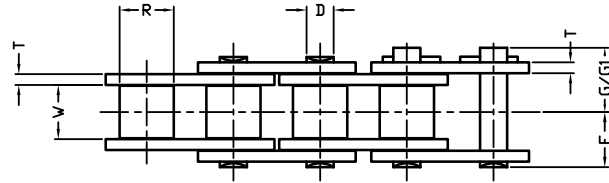
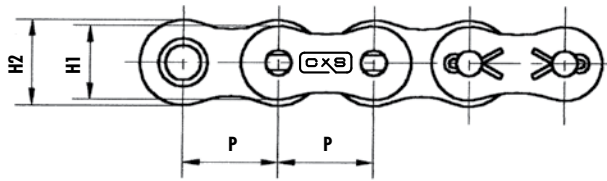
## • Double Pitch Nickel Plated Chains

- Oversize Roller Nickel Plated chains also available

Consult your Connexus Service Center for special handling

| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    |       |                 |               | H           | T         | D     | F       | G     | G1    |                               |                            |
| C2040 NP           | 1.00  | 0.312           | 0.312         | 0.461       | 0.059     | 0.156 | 0.323   | 0.366 | 0.394 | 4,077                         | 0.34                       |
| C2050 NP           | 1.25  | 0.375           | 0.400         | 0.575       | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 6,832                         | 0.58                       |
| C2060H-NP          | 1.50  | 0.500           | 0.469         | 0.673       | 0.122     | 0.234 | 0.555   | 0.618 | 0.654 | 11,681                        | 1.01                       |
| C2080H-NP          | 2.00  | 0.625           | 0.625         | 0.906       | 0.154     | 0.313 | 0.705   | 0.764 | 0.819 | 20,277                        | 1.58                       |
| C2100H-NP          | 2.50  | 0.750           | 0.750         | 1.138       | 0.185     | 0.375 | 0.854   |       | 0.980 | 29,754                        | 2.37                       |
| C2120H-NP          | 3.00  | 1.000           | 0.875         | 1.378       | 0.220     | 0.437 |         |       |       | 34,150                        | 3.45                       |
| C2160H-NP          | 4.00  | 1.250           | 1.130         | 1.890       | 0.283     | 0.563 |         |       |       | 57,280                        | 5.92                       |

# STAINLESS STEEL STANDARD CHAIN

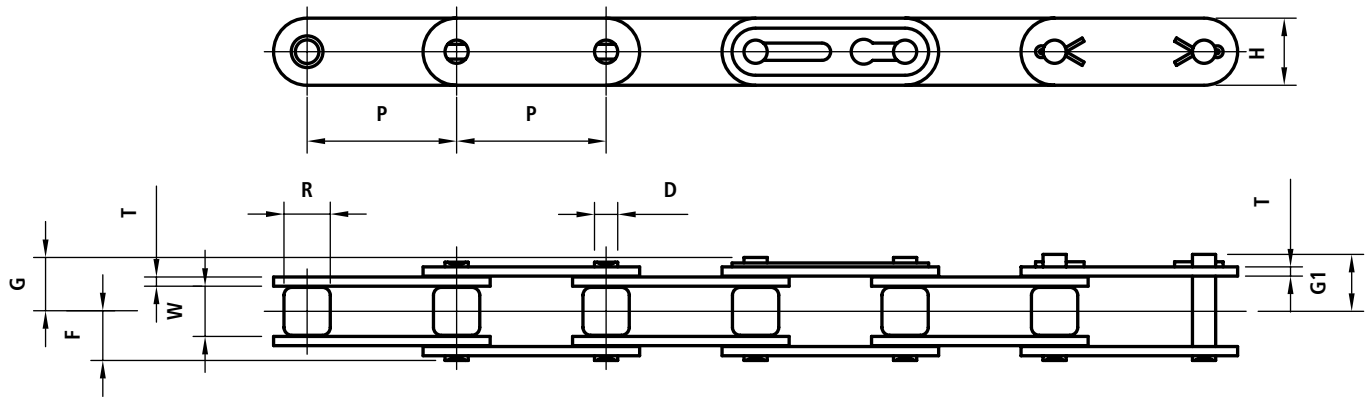


|                                | 304SS          | 316S (NS)      |
|--------------------------------|----------------|----------------|
| Corrosion Resistance           | Good           | Superior       |
| Temperature Range              | (-40F - +750F) | (-40F - +750F) |
| Magnetism                      | Slight         | No             |
| Speed                          | 230'/min       | 230'/min       |
| Max Allowable Bearing Pressure | 1420 psi       | 1420 psi       |

- **Stainless Steel Chains** are manufactured from AISI type 304SS steel
- These chains are ideal for acidic or alkaline environments or chains are exposed to water
- Chains feature excellent resistance to corrosion and extreme temperature ranges ( Temperature Range : -40 F ~ +750 F)
- Also available from factory are 316SS (NS) for non magnetic and/or superior wear resistance is a requirement

\* Rollerless Chains

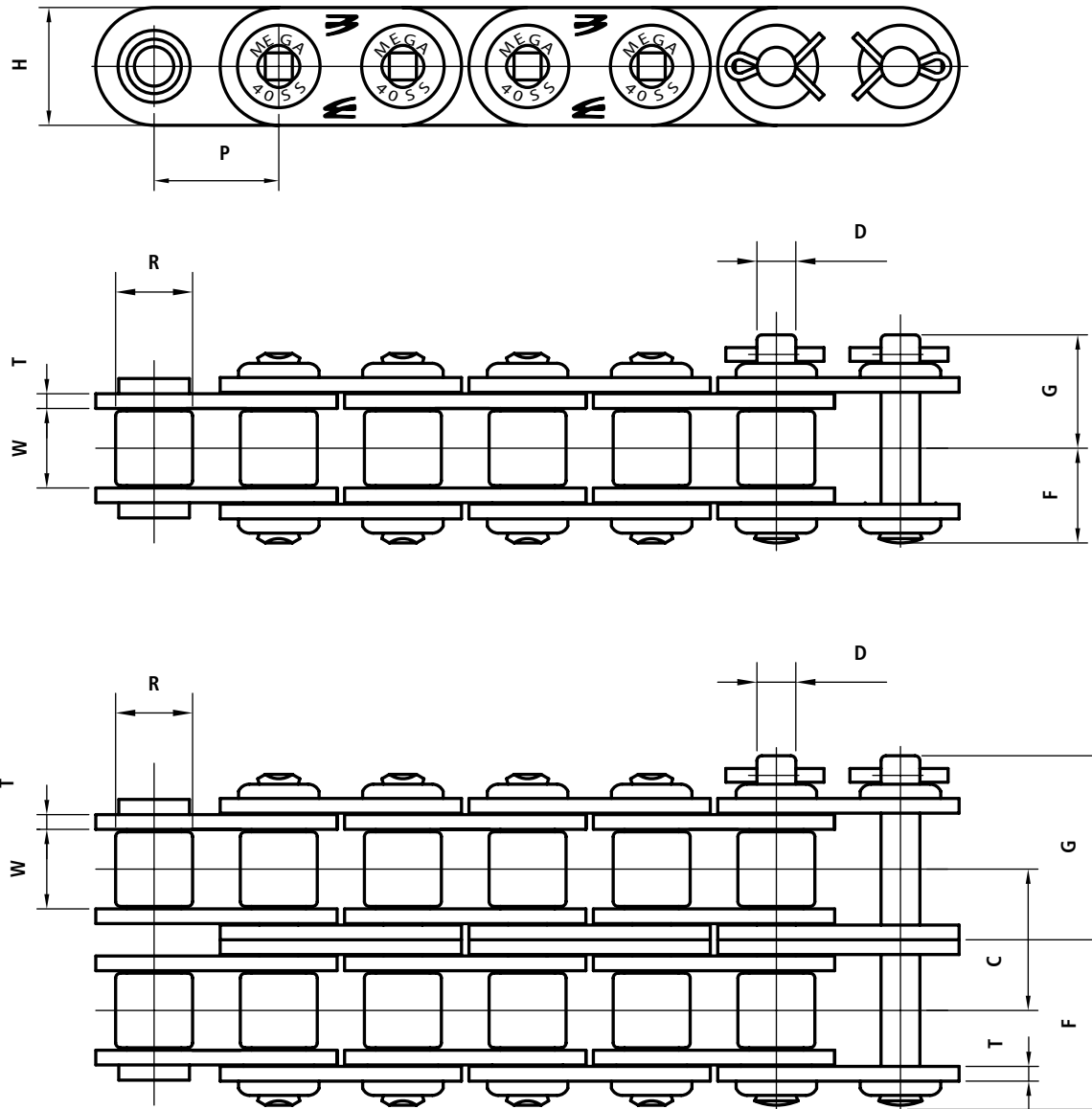
| Connexus<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |         |       |       | Max Allow<br>Load<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|---------|-------|-------|-----------------------------|----------------------------|
|                    | P     | W               | R             | Height      |       | Thickness | Dia   | Lengths |       |       |                             |                            |
|                    |       |                 |               | H1          | H2    | T         | D     | F       | G     | G1    |                             |                            |
| 25-SS *            | 0.250 | 0.125           | 0.130         | 0.197       | 0.228 | 0.030     | 0.091 | 0.150   | 0.189 | -     | 26                          | 0.09                       |
| 35-SS *            | 0.375 | 0.188           | 0.200         | 0.299       | 0.354 | 0.047     | 0.141 | 0.228   | 0.276 | 0.299 | 60                          | 0.22                       |
| 40-SS              | 0.500 | 0.313           | 0.312         | 0.402       | 0.465 | 0.059     | 0.156 | 0.325   | 0.366 | 0.394 | 100                         | 0.42                       |
| 50-SS              | 0.625 | 0.375           | 0.400         | 0.512       | 0.583 | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 154                         | 0.68                       |
| 60-SS              | 0.750 | 0.500           | 0.469         | 0.610       | 0.689 | 0.094     | 0.234 | 0.492   | 0.557 | 0.606 | 230                         | 0.98                       |
| 80-SS              | 1.000 | 0.625           | 0.625         | 0.803       | 0.941 | 0.122     | 0.313 | 0.634   | 0.699 | 0.740 | 396                         | 1.69                       |
| 100-SS             | 1.250 | 0.750           | 0.750         | 0.976       | 1.185 | 0.154     | 0.375 | 0.791   |       | 0.909 | 572                         | 2.51                       |
| 120-SS             | 1.500 | 1.000           | 0.875         | 1.181       | 1.378 | 0.185     | 0.437 | 0.992   |       | 1.126 | 858                         | 4.08                       |



|                                | 304SS          | 316S (NS)      |
|--------------------------------|----------------|----------------|
| Corrosion Resistance           | Good           | Superior       |
| Temperature Range              | (-40F - +750F) | (-40F - +750F) |
| Magnetism                      | Slight         | No             |
| Speed                          | 230'/min       | 230'/min       |
| Max Allowable Bearing Pressure | 1420 psi       | 1420 psi       |

| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    |       |                 |               | H           | T         | D     | F       | G     | G1    |                               |                            |
| C2040 SS           | 1.00  | 0.312           | 0.312         | 0.461       | 0.059     | 0.156 | 0.323   | 0.366 | 0.394 | 4,077                         | 0.34                       |
| C2050 SS           | 1.25  | 0.375           | 0.400         | 0.575       | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 6,832                         | 0.58                       |
| C2060H-SS          | 1.50  | 0.500           | 0.469         | 0.673       | 0.122     | 0.234 | 0.555   | 0.618 | 0.654 | 11,681                        | 1.01                       |
| C2080H-SS          | 2.00  | 0.625           | 0.625         | 0.906       | 0.154     | 0.313 | 0.705   | 0.764 | 0.819 | 20,277                        | 1.58                       |
| C2100H-SS          | 2.50  | 0.750           | 0.750         | 1.138       | 0.185     | 0.375 | 0.854   |       | 0.980 | 29,754                        | 2.37                       |
| C2120H-SS          | 3.00  | 1.000           | 0.875         | 1.378       | 0.220     | 0.437 |         |       |       | 34,150                        | 3.45                       |
| C2160H-SS          | 4.00  | 1.250           | 1.130         | 1.890       | 0.283     | 0.563 |         |       |       | 57,280                        | 5.92                       |

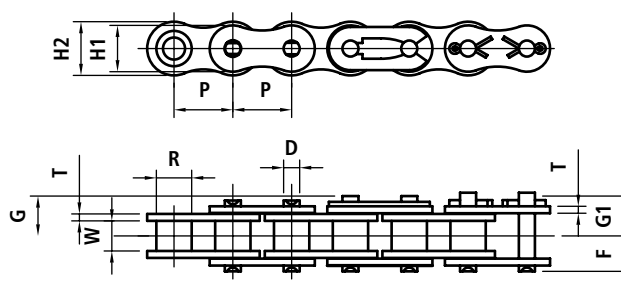
# MEGA SS STANDARD CHAIN



• Standard Roller Chain Sprockets can be used

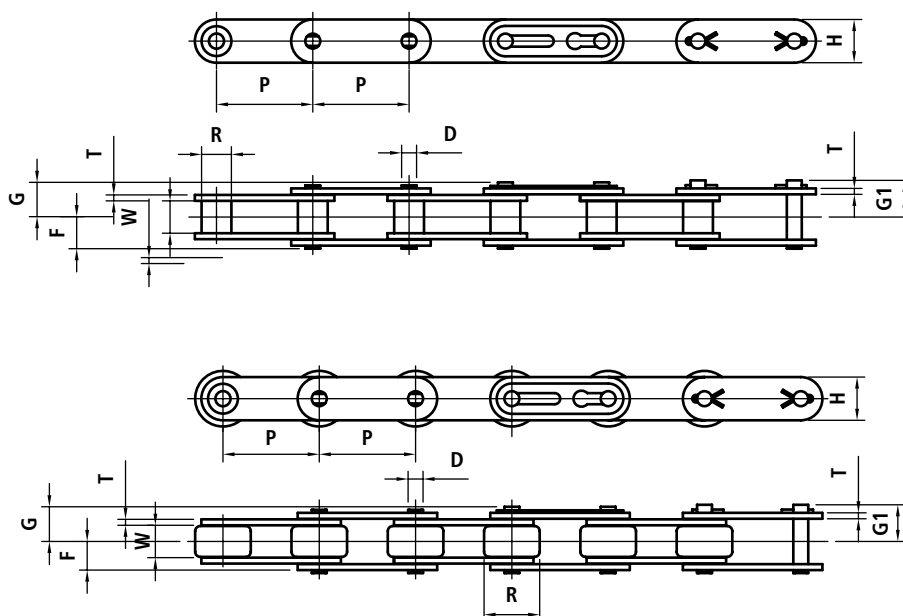
• Material: AISI 304 (SS)

| CONNEXUS<br>MEGA<br>Chain # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |           | Pin            |                |                | Transverse | Max Allow<br>Load<br>Lbs/Ft | Avg Tensile<br>Strength<br>Lbs/Ft |
|-----------------------------|-------|-----------------|---------------|-------------|-----------|----------------|----------------|----------------|------------|-----------------------------|-----------------------------------|
|                             | P     | W               | R             | Height      | Thickness | Dia            | Lengths        |                | Pitch      |                             |                                   |
|                             | P     | W               | R             | H           | T         | D              | F              | G              | C          |                             |                                   |
| 40 SS<br>40-2 SS            | 0.500 | 0.313           | 0.312         | 0.472       | 0.059     | 0.156          | 0.380<br>0.663 | 0.455<br>0.738 | 0.567      | 154<br>242                  | 3,960<br>6,600                    |
| 50 SS<br>50-2 SS            | 0.625 | 0.375           | 0.400         | 0.591       | 0.079     | 0.199<br>0.835 | 0.478<br>0.917 | 0.561<br>0.713 | .418       | 264<br>10,560               | 7,040                             |
| 60 SS<br>60-2 SS            | 0.750 | 0.500           | 0.469         | 0.713       | 0.093     | 0.234          | 0.596<br>1.045 | 0.687<br>1.136 | 0.898      | 363<br>616                  | 9,680<br>14,960                   |
| 80 SS<br>80-2 SS            | 1.000 | 0.625           | 0.625         | 0.945       | 0.118     | 0.313          | 0.760<br>1.343 | 0.870<br>1.447 | 1.154      | 638<br>1078                 | 15,840<br>23,760                  |



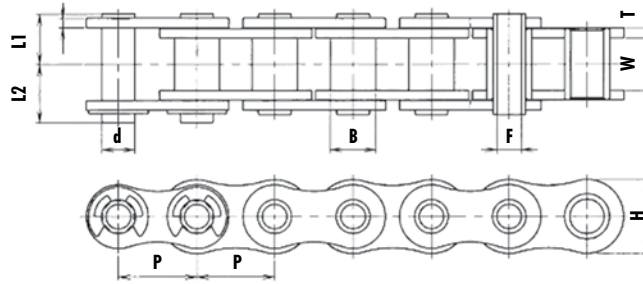
| Connexus<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |       |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|--------------------|-------|-----------------|---------------|-------------|-------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|
|                    | P     | W               | R             | Height      |       | Thickness | Dia   | Lengths |       |       |                               |                            |
|                    |       |                 |               | H1          | H2    | T         | D     | F       | G     | G1    |                               |                            |
| 40-SL              | 0.500 | 0.313           | 0.312         | 0.402       | 0.465 | 0.059     | 0.156 | 0.325   | 0.366 | 0.394 | 2,860                         | 0.39                       |
| 50-SL              | 0.625 | 0.375           | 0.400         | 0.512       | 0.583 | 0.079     | 0.199 | 0.398   | 0.459 | 0.496 | 4,400                         | 0.65                       |
| 60-SL              | 0.750 | 0.500           | 0.469         | 0.610       | 0.689 | 0.094     | 0.234 | 0.492   | 0.557 | 0.606 | 6,710                         | 0.95                       |
| 80-SL              | 1.000 | 0.625           | 0.625         | 0.803       | 0.941 | 0.122     | 0.313 | 0.634   |       | 0.740 | 12,760                        | 1.61                       |

- **Lube Free Chains** feature a lubrication impregnated oversized sintered bushing for maintenance free applications
- These chains operate on standard sprockets and are dimensionally interchangeable with ANSI standard roller chains



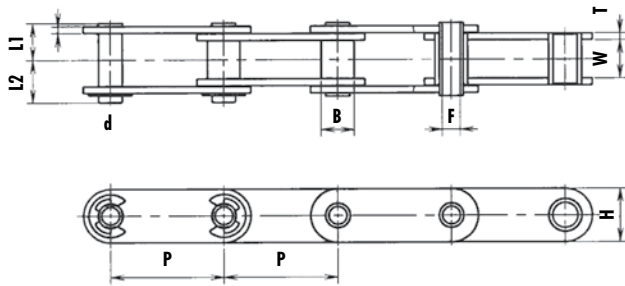
| CONNEXUS<br>ANSI # | Pitch | Roller<br>Width | Roller<br>Dia | Link Plates |           | Pin   |         |       |       | Avg Ult<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |      |
|--------------------|-------|-----------------|---------------|-------------|-----------|-------|---------|-------|-------|-------------------------------|----------------------------|------|
|                    | P     | W               | R             | Height      | Thickness | Dia   | Lengths |       |       |                               |                            |      |
|                    |       |                 |               | H1          | H2        | T     | D       | F     | G     |                               |                            | G1   |
| C2040-SL           | 1.000 | 0.313           | 0.312         | 0.460       |           | 0.059 | 0.156   | 0.325 | 0.366 | 0.394                         | 2,860                      | 0.33 |
| C2050-SL           | 1.250 | 0.375           | 0.400         | 0.575       |           | 0.079 | 0.199   | 0.398 | 0.459 | 0.496                         | 4,400                      | 0.54 |
| C2060-SL           | 1.500 | 0.500           | 0.469         | 0.673       |           | 0.094 | 0.234   | 0.492 | 0.557 | 0.606                         | 6,710                      | 0.79 |
| C2080-SL           | 2.000 | 0.625           | 0.625         | 0.906       |           | 0.122 | 0.313   | 0.634 |       | 0.740                         | 12,760                     | 1.34 |
| C2042-SL           | 1.000 | 0.313           | 0.625         | 0.460       |           | 0.059 | 0.156   | 0.325 | 0.366 | 0.394                         | 2,860                      | 0.52 |
| C2052-SL           | 1.250 | 0.375           | 0.750         | 0.575       |           | 0.079 | 0.199   | 0.398 | 0.459 | 0.496                         | 4,400                      | 0.81 |
| C2062-SL           | 1.500 | 0.500           | 0.875         | 0.673       |           | 0.094 | 0.234   | 0.492 | 0.557 | 0.606                         | 6,710                      | 1.18 |
| C2082-SL           | 2.000 | 0.625           | 1.125         | 0.906       |           | 0.122 | 0.313   | 0.634 |       | 0.740                         | 12,760                     | 2.04 |

# HOLLOW PIN CHAIN

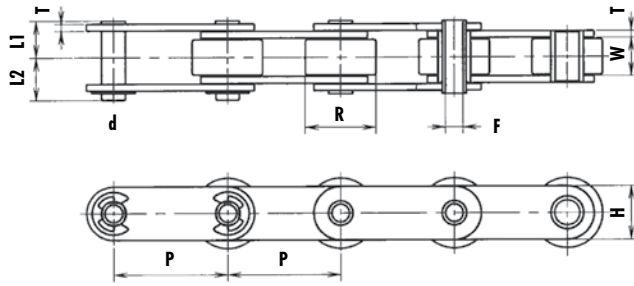


| CONNEXUS<br>Chain # | Pitch | Width       | Bushing | Link Plates |        |           |       | Pin      |         | Max Allow<br>Load | Avg Tensile<br>Strength | Approx<br>Weight |
|---------------------|-------|-------------|---------|-------------|--------|-----------|-------|----------|---------|-------------------|-------------------------|------------------|
|                     |       | Btwn Plates |         | Dia         | Height | Thickness | Dia   | Bore Dia | Lengths |                   |                         |                  |
|                     | P     | W           | B       | H           | T      | d         | F     | L1       | L2      |                   |                         |                  |
| 40-HP               | 0.500 | 0.313       | 0.312   | 0.472       | 0.059  | 0.222     | 0.157 | 0.315    | 0.374   | 400               | 2,500                   | 0.34             |
| 50-HP               | 0.625 | 0.376       | 0.400   | 0.591       | 0.079  | 0.284     | 0.202 | 0.400    | 0.451   | 700               | 4,400                   | 0.56             |
| 60-HP               | 0.750 | 0.500       | 0.469   | 0.709       | 0.094  | 0.327     | 0.236 | 0.500    | 0.563   | 950               | 6,050                   | 0.82             |
| 80-HP               | 1.000 | 0.625       | 0.625   | 0.949       | 0.126  | 0.444     | 0.316 | 0.640    | 0.701   | 1700              | 11,000                  | 1.45             |

**C2000 TYPE (C2040HP - C2080HP)**



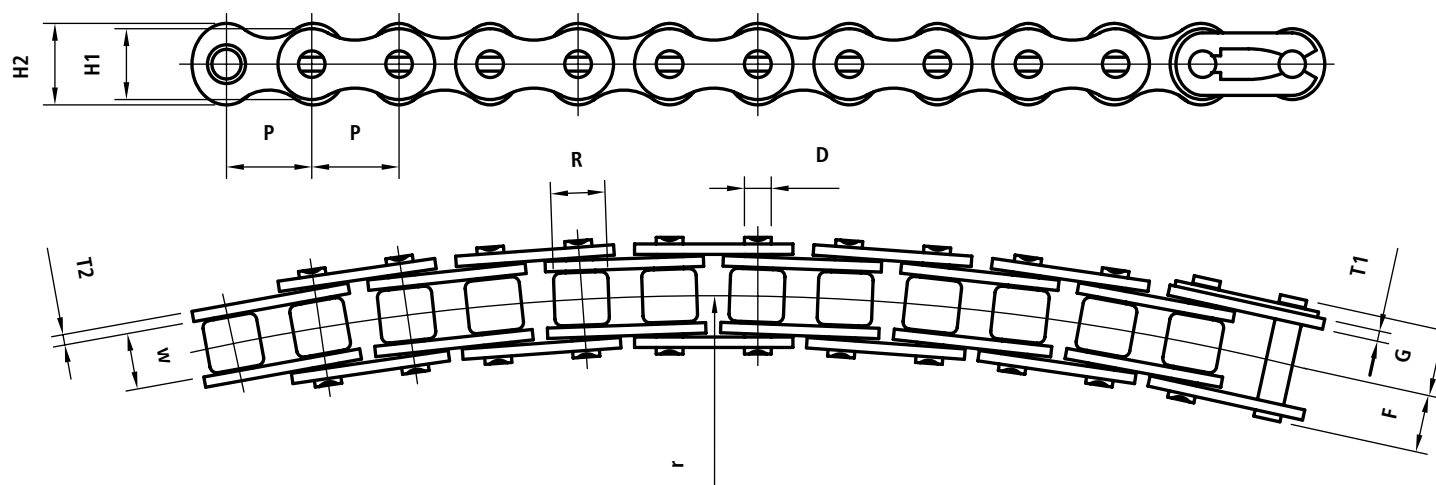
**C2002 TYPE (C2042HP - C2082HP)**



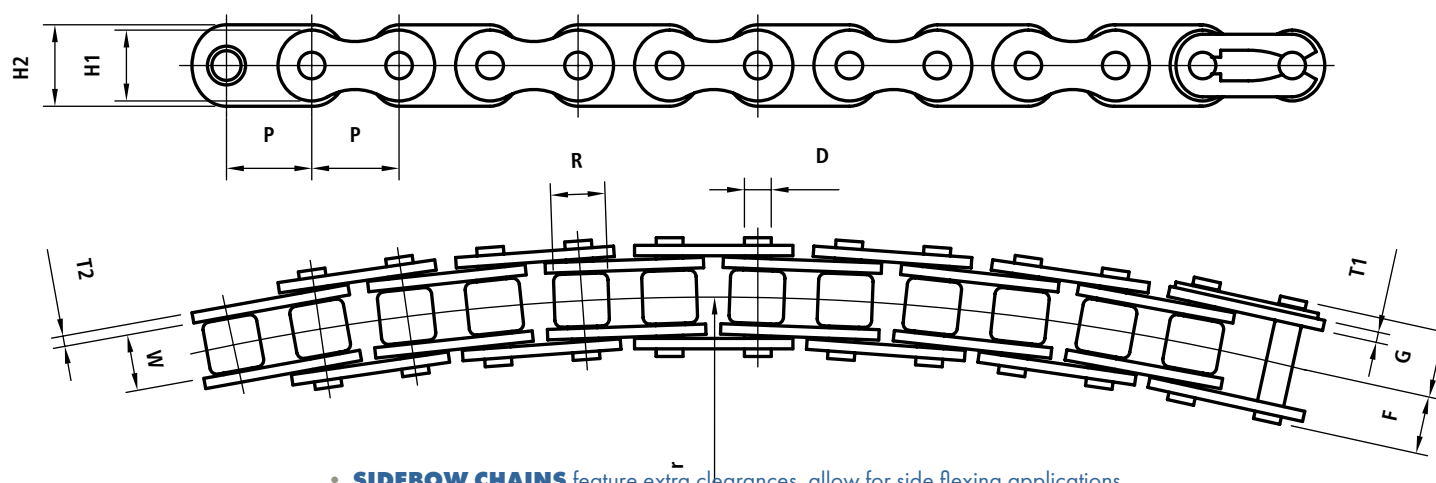
- **Hollow Pin Chains** are a versatile choice for insertion of attachments or cross-rods into any link of chains
- Hollow Pin Chains are rollerless design (except for C2002 type) and are available in carbon steel, nickel plated and stainless steel

| CONNEXUS<br>Chain # | Pitch  | Width       | Bushing | Link Plates |           |       |          | Pin     |       | Max Allow<br>Load | Avg Tensile<br>Strength | Approx<br>Weight |
|---------------------|--------|-------------|---------|-------------|-----------|-------|----------|---------|-------|-------------------|-------------------------|------------------|
|                     |        | Btwn Plates | Dia     | Height      | Thickness | Dia   | Bore Dia | Lengths |       |                   |                         |                  |
|                     | P      | W           | B       | H           | T         | d     | F        | L1      | L2    |                   |                         |                  |
| Lbs/Ft              | Lbs/Ft | Lbs/Ft      |         |             |           |       |          |         |       |                   |                         |                  |
| C2040-HP            | 1.000  | 0.313       | 0.312   | 0.472       | 0.059     | 0.222 | 0.157    | 0.315   | 0.374 | 400               | 2,500                   | 0.30             |
| C2050-HP            | 1.250  | 0.376       | 0.400   | 0.591       | 0.079     | 0.284 | 0.202    | 0.400   | 0.451 | 700               | 4,400                   | 0.50             |
| C2060-HP            | 1.500  | 0.500       | 0.469   | 0.709       | 0.094     | 0.327 | 0.236    | 0.500   | 0.563 | 950               | 6,050                   | 0.68             |
| C2080-HP            | 2.000  | 0.625       | 0.625   | 0.949       | 0.126     | 0.444 | 0.316    | 0.640   | 0.701 | 1700              | 11,000                  | 1.25             |

| CONNEXUS<br>Chain # | Pitch | Width<br>Btwn Plates | Roller<br>Dia | Link Plates |           |       |          | Pin     |       | Max Allow<br>Load<br>Lbs/Ft | Avg Tensile<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|---------------------|-------|----------------------|---------------|-------------|-----------|-------|----------|---------|-------|-----------------------------|-----------------------------------|----------------------------|
|                     |       |                      |               | Height      | Thickness | Dia   | Bore Dia | Lengths |       |                             |                                   |                            |
|                     | P     | W                    | R             | H           | T         | d     | F        | L1      | L2    |                             |                                   |                            |
| C2042-HP            | 1.000 | 0.313                | 0.625         | 0.472       | 0.059     | 0.222 | 0.157    | 0.315   | 0.374 | 400                         | 2,500                             | 0.53                       |
| C2052-HP            | 1.250 | 0.376                | 0.750         | 0.591       | 0.079     | 0.284 | 0.202    | 0.400   | 0.451 | 700                         | 4,400                             | 0.80                       |
| C2062-HP            | 1.500 | 0.500                | 0.875         | 0.709       | 0.094     | 0.327 | 0.236    | 0.500   | 0.563 | 950                         | 6,050                             | 1.15                       |
| C2082-HP            | 2.000 | 0.625                | 1.125         | 0.949       | 0.126     | 0.444 | 0.316    | 0.640   | 0.701 | 1700                        | 11000                             | 2.23                       |



## 63SB

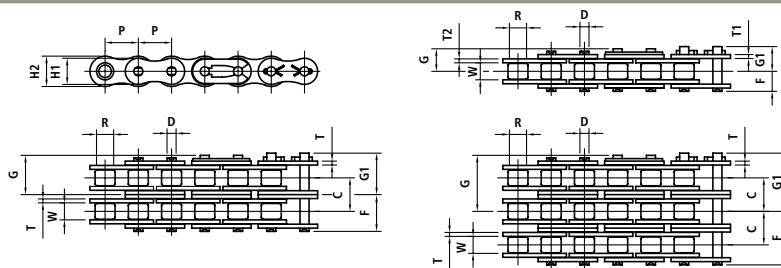


- **SIDEBOW CHAINS** feature extra clearances, allow for side flexing applications
  - They have the same basic dimensions as standard roller chains
  - Side flex is achieved using a tapered pin construction
  - Also available in nickel plated and stainless steel
- 20" radius is available on 63SB, 603SB, and 60SB; standard radius on these sizes is 16"

| CONNEXUS<br>Chain # | Pitch | Width<br>Btwn Plates | Roller<br>Dia | Plate  |       |           |       | Pin   |        |       | Min Radius<br>Curve-Inches | Avg Tensile<br>Strength | Approx<br>Weight |
|---------------------|-------|----------------------|---------------|--------|-------|-----------|-------|-------|--------|-------|----------------------------|-------------------------|------------------|
|                     | P     | W                    | R             | Height |       | Thickness |       | Dia   | Length |       | r                          | Lbs/Ft                  | Lbs/Ft           |
|                     | P     | W                    | R             | H1     | H2    | T1        | T2    | D     | F      | G     | r                          | Lbs/Ft                  | Lbs/Ft           |
| 35-SB               | 0.375 | 0.188                | 0.200         | 0.299  | 0.354 | 0.047     | 0.047 | 0.129 | 0.228  | 0.276 | 10                         | 1,980                   | 0.21             |
| 40-SB               | 0.500 | 0.313                | 0.313         | 0.402  | 0.472 | 0.059     | 0.059 | 0.152 | 0.319  | 0.358 | 14                         | 3,520                   | 0.40             |
| 50-SB               | 0.625 | 0.375                | 0.400         | 0.417  | 0.583 | 0.079     | 0.079 | 0.175 | 0.411  | 0.469 | 16                         | 4,840                   | 0.66             |
| 63-SB               | 0.750 | 0.500                | 0.469         | 0.469  | 0.713 | 0.079     | 0.093 | 0.199 | 0.566  | 0.566 | 16                         | 5,940                   | 0.93             |
| 603-SB              | 0.750 | 0.500                | 0.469         | 0.610  | 0.713 | 0.093     | 0.093 | 0.199 | 0.507  | 0.570 | 16                         | 5,940                   | 0.98             |
| 60-SB               | 0.750 | 0.500                | 0.469         | 0.469  | 0.713 | 0.093     | 0.093 | 0.199 | 0.507  | 0.570 | 16                         | 5,940                   | 0.94             |



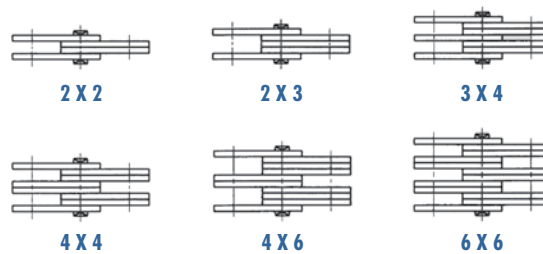
# BRITISH STANDARD CHAIN



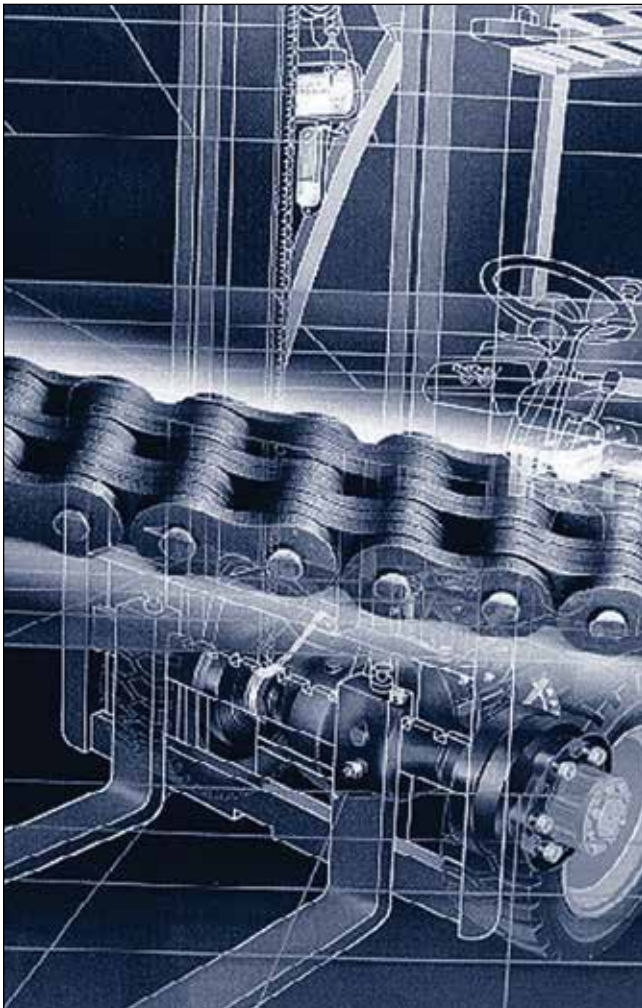
- **British Standard Chains** are slightly different in dimensions to standard roller chains and are also called metric chains.
- These chains are often seen in equipment manufactured in Europe or specified on machinery manufactured for European marketplace.

| CONNEXUS<br>Chain #   | Pitch | Width | Roller | Link Plates |       |                | Pin      |                         |                         |                         | Transverse<br>Pitch | AvgTensile<br>Strength<br>Lbs/Ft | Approx<br>Weight<br>Lbs/Ft |
|-----------------------|-------|-------|--------|-------------|-------|----------------|----------|-------------------------|-------------------------|-------------------------|---------------------|----------------------------------|----------------------------|
|                       | P     | W     | R      | Height      |       | Thickness<br>T | Dia<br>D | Length                  |                         |                         |                     |                                  |                            |
|                       |       |       |        | H1          | H2    |                |          | F                       | G                       | G1                      |                     |                                  |                            |
| 05B<br>05B-2          | 0.315 | 0.118 | 0.197  | 0.276       | 0.276 | 0.030          | 0.091    | 0.152<br>0.262          | 0.189<br>0.301          |                         | 0.222               | 1166<br>2112                     | 0.11<br>0.20               |
| 06B<br>06B-2<br>06B-3 | 0.375 | 0.225 | 0.250  | 0.319       | 0.319 | 0.039          | 0.129    | 0.240<br>0.441<br>0.642 | 0.291<br>0.484<br>0.685 |                         |                     | 2310<br>4180<br>5940             | 0.26<br>0.50<br>0.73       |
| 08B<br>08B-2<br>08B-3 | 0.500 | 0.305 | 0.335  | 0.402       | 0.465 | 0.059          | 0.173    | 0.323<br>0.602<br>0.874 | 0.374<br>0.657<br>0.925 | 0.374                   |                     | 4246<br>7920<br>11880            | 0.44<br>0.87<br>1.29       |
| 10B<br>10B-2<br>10B-3 | 0.625 | 0.380 | 0.400  | 0.512       | 0.575 | 0.065          | 0.199    | 0.378<br>0.705<br>1.031 | 0.437<br>0.764<br>1.083 |                         |                     | 5940<br>11440<br>17270           | 0.62<br>1.13<br>1.76       |
| 12B<br>12B-2<br>12B-3 | 0.750 | 0.460 | 0.475  | 0.630       | 0.630 | 0.071          | 0.225    | 0.437<br>0.819<br>1.205 | 0.496<br>0.882<br>1.256 |                         |                     | 7480<br>14960<br>22440           | 0.83<br>1.53<br>2.38       |
| 16B<br>16B-2<br>16B-3 | 1.000 | 0.670 | 0.625  | 0.819       | 0.819 | 0.157          | 0.326    | 0.697<br>1.324<br>1.952 | 0.758<br>1.384<br>2.013 | 0.795                   |                     | 17600<br>35200<br>52800          | 1.78<br>3.52<br>5.27       |
| 20B<br>20B-2<br>20B-3 | 1.250 | 0.770 | 0.750  | 1.024       | 1.024 | 0.173          | 0.401    | 0.807<br>1.525<br>2.242 |                         | 0.925<br>1.643<br>2.360 |                     | 26400<br>52,800<br>79,200        | 2.58<br>5.13<br>7.68       |
| 24B<br>24B-2<br>24B-3 | 1.500 | 1.000 | 1.000  | 1.299       | 1.299 | 0.236          | 0.576    | 1.049<br>2.001<br>2.953 |                         | 1.274<br>2.226<br>3.178 |                     | 39600<br>77000<br>115500         | 5.10<br>9.92<br>14.68      |
| 28B<br>28B-2<br>28B-3 | 1.750 | 1.220 | 1.100  | 1.457       | 1.457 | 0.291          | 0.626    | 1.279<br>2.451<br>3.624 |                         | 1.495<br>2.667<br>3.840 |                     | 46200<br>90200<br>132000         | 6.07<br>11.48<br>17.17     |
| 32B<br>32B-2<br>32B-3 | 2.000 | 1.220 | 1.150  | 1.654       | 1.654 | 0.279          | 0.701    | 1.287<br>2.439<br>3.592 |                         | 1.503<br>2.656<br>3.808 |                     | 58300<br>111100<br>167200        | 7.13<br>13.98<br>21.17     |
| 40B<br>40B-2<br>40B-3 | 2.500 | 1.500 | 1.550  | 2.083       | 2.083 | 0.315          | 0.901    | 1.583<br>3.006<br>4.429 |                         | 1.862<br>3.285<br>4.709 |                     | 87120<br>167200<br>246400        | 10.90<br>21.36<br>32.28    |
| 48B<br>48B-2<br>48B-3 | 3.000 | 1.800 | 1.900  | 2.500       | 2.500 | 0.390          | 1.151    | 1.945<br>3.740<br>5.535 |                         | 2.224<br>4.020<br>5.815 |                     | 136840<br>259600<br>389400       | 16.80<br>33.41<br>50.34    |

## LACING COMBINATIONS



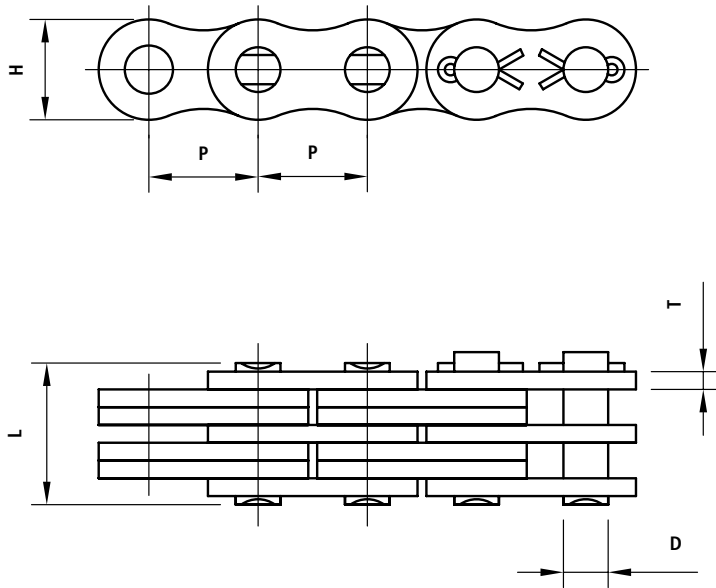
- Leaf Chains consist of interlacing plates and riveted pins. Typical lacing patterns are shown above
- Chains are usually supplied in strands and be supplied ending with inside ends (male ends) or outside ends (female ends). Strands ordered with even pitches will be supplied with one ending in inside links and one end with male ends
- The type of clevis on machinery will determine the configuration of ends is required. When "female ends" are required, the clevis manufacturer should supply the connecting pins. When "male ends" are ordered, drive fit connecting pins, either riveted or cottered style, are recommended ordered at the same time



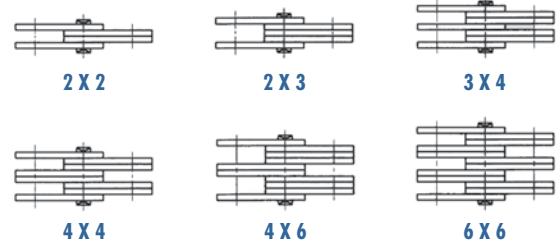
## GENERAL PRECAUTIONS

- Use factory supplied lengths - do not assemble chains from individual components
- Do not replace individual worn parts
- No leaf chain should be plated or painted
- No welding is allowed on any leaf chain or weld splatter allowed to come into contact with chains
- Leaf chains are used on sheaves not sprockets. These sheaves should be inspected on a regular basis for worn flanges
- In order to provide good service life, lubrication must be provided on a regular basis
- Whatever lubrication, SAE 30 is standard. The lubrication must penetrate the chain and reach the joints
- ANSI recommendation on lubrication, checking for wear, and installation guides are available from our service centers

# LIGHT DUTY LEAF CHAINS

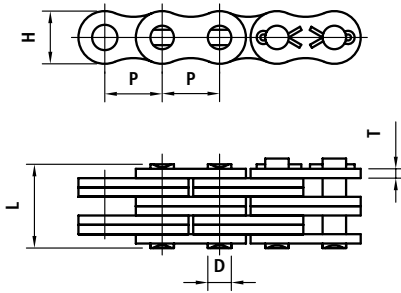


## LACING COMBINATIONS



- **AL- Series Leaf Chains** are widely used in light duty applications and where chains receive only static loads
  - These chains were removed from B29.8 ANSI STANDARDS
- BL Series Leaf Chains should be considered in any new applications
  - See page 23 for special notes on Leaf Chain

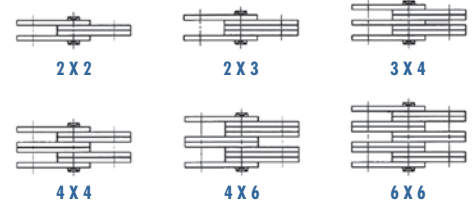
| CONNEXUS<br>Chain #                  | Lacing                   | Pitch | Height | Thickness | Diameter | Length                           | Avg Ult<br>Strength<br>Lbs/Ft         | Approx<br>Weight<br>Lbs/Ft   |
|--------------------------------------|--------------------------|-------|--------|-----------|----------|----------------------------------|---------------------------------------|------------------------------|
|                                      |                          | P     | H      | T         | D        | L                                |                                       |                              |
| AL422<br>AL444<br>AL466              | 2x2<br>4x4<br>6x6        | 0.500 | 0.402  | 0.059     | 0.156    | 0.317<br>0.565<br>0.815          | 3,960<br>7,920<br>11,880              | 0.24<br>0.46<br>0.71         |
| AL522<br>AL544<br>AL566<br>AL588     | 2x2<br>4x4<br>6x6<br>8x8 | 0.625 | 0.512  | 0.079     | 0.200    | 0.417<br>0.748<br>1.079<br>1.409 | 6,820<br>13,640<br>20,460<br>27,280   | 0.40<br>0.77<br>1.14<br>1.52 |
| AL622<br>AL644<br>AL666<br>AL688     | 2x2<br>4x4<br>6x6<br>8x8 | 0.750 | 0.610  | 0.093     | 0.234    | 0.488<br>0.878<br>1.270<br>1.661 | 9,900<br>19,800<br>27,000<br>39,600   | 0.53<br>1.01<br>1.55<br>2.07 |
| AL822<br>AL844<br>AL866<br>AL888     | 2x2<br>4x4<br>6x6<br>8x8 | 1.000 | 0.803  | 0.122     | 0.313    | 0.616<br>1.120<br>1.624<br>2.128 | 17,160<br>34,320<br>51,480<br>68,640  | 0.91<br>2.69<br>3.60<br>4.50 |
| AL1022<br>AL1044<br>AL1066<br>AL1088 | 2x2<br>4x4<br>6x6<br>8x8 | 1.250 | 0.976  | 0.154     | 0.375    | 0.819<br>1.465<br>2.110<br>2.756 | 26,400<br>52,800<br>79,200<br>105,600 | 1.59<br>3.11<br>4.64<br>6.28 |
| AL1222<br>AL1244<br>AL1266           | 2x2<br>4x4<br>6x6        | 1.500 | 1.181  | 0.185     | 0.437    | 0.969<br>1.740<br>2.512          | 35,200<br>70,400<br>105,600           | 2.28<br>4.47<br>6.66         |



- **BL Series Leaf Chains** conform to ASME B29.8 Standards

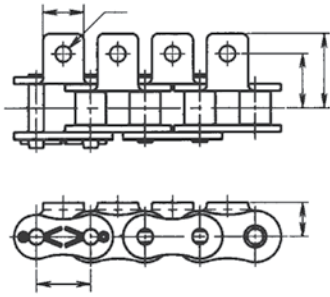
- Feature links plates heavier than AL Series Chains of the same pitch.

## LACING COMBINATIONS



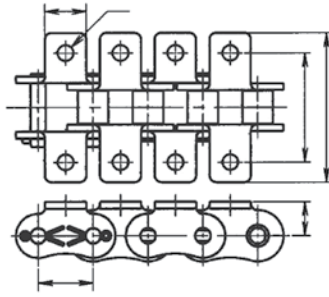
| CONNEXUS Chain # | ISO/DIN | Lacing | Pitch | Height | Thickness | Diameter | Length | Avg Ult Strength Lbs/Ft | Approx Weight Lbs/Ft |
|------------------|---------|--------|-------|--------|-----------|----------|--------|-------------------------|----------------------|
|                  |         |        | P     | H      | T         | D        | L      |                         |                      |
| <b>BL423</b>     | LH0823  | 2 X 3  | 0.500 | 0.472  | 0.079     | 0.199    | 0.496  | 6,600                   | 0.52                 |
| <b>BL434</b>     | LH0834  | 3 X 4  |       |        |           |          | 0.661  | 9,900                   | 0.72                 |
| <b>BL444</b>     | LH0844  | 4 X 4  |       |        |           |          | 0.744  | 13,200                  | 0.80                 |
| <b>BL446</b>     | LH0846  | 4 X 6  |       |        |           |          | 0.909  | 13,200                  | 0.99                 |
| <b>BL466</b>     | LH0866  | 6 X 6  |       |        |           |          | 1.071  | 19,800                  | 1.21                 |
| <b>BL523</b>     | LH1023  | 2 X 3  | 0.625 | 0.585  | 0.095     | 0.234    | 0.598  | 9,900                   | 0.76                 |
| <b>BL534</b>     | LH1034  | 3 X 4  |       |        |           |          | 0.791  | 14,960                  | 1.05                 |
| <b>BL544</b>     | LH1044  | 4 X 4  |       |        |           |          | 0.892  | 19,800                  | 1.19                 |
| <b>BL546</b>     | LH1046  | 4 X 6  |       |        |           |          | 1.083  | 19,800                  | 1.49                 |
| <b>BL566</b>     | LH1066  | 6 X 6  |       |        |           |          | 1.280  | 29,700                  | 1.84                 |
| <b>BL623</b>     | LH1223  | 2 X 3  | 0.750 | 0.705  | 0.124     | 0.313    | 0.762  | 15,400                  | 1.22                 |
| <b>BL634</b>     | LH1234  | 3 X 4  |       |        |           |          | 1.022  | 23,100                  | 1.69                 |
| <b>BL644</b>     | LH1244  | 4 X 4  |       |        |           |          | 1.161  | 30,800                  | 1.92                 |
| <b>BL646</b>     | LH1246  | 4 X 6  |       |        |           |          | 1.417  | 30,800                  | 2.39                 |
| <b>BL666</b>     | LH1266  | 6 X 6  |       |        |           |          | 1.667  | 46,200                  | 2.86                 |
| <b>BL823</b>     | LH1623  | 2 X 3  | 1.000 | 0.944  | 0.154     | 0.375    | 0.994  | 26,400                  | 2.11                 |
| <b>BL834</b>     | LH1634  | 3 X 4  |       |        |           |          | 1.320  | 39,600                  | 2.93                 |
| <b>BL844</b>     | LH1644  | 4 X 4  |       |        |           |          | 1.483  | 52,800                  | 3.34                 |
| <b>BL846</b>     | LH1646  | 4 X 6  |       |        |           |          | 1.809  | 52,800                  | 4.16                 |
| <b>BL866</b>     | LH1666  | 6 X 6  |       |        |           |          | 2.135  | 79,200                  | 5.03                 |
| <b>BL1023</b>    | LH2023  | 2 X 3  | 1.250 | 1.185  | 0.185     | 0.437    | 1.169  | 35,200                  | 2.58                 |
| <b>BL1034</b>    | LH2034  | 3 X 4  |       |        |           |          | 1.555  | 52,800                  | 3.92                 |
| <b>BL1044</b>    | LH2044  | 4 X 4  |       |        |           |          | 1.748  | 70,400                  | 4.83                 |
| <b>BL1046</b>    | LH2046  | 4 X 6  |       |        |           |          | 2.134  | 70,400                  | 5.53                 |
| <b>BL1066</b>    | LH2066  | 6 X 6  |       |        |           |          | 2.520  | 105,600                 | 7.13                 |
| <b>BL1223</b>    | LH2423  | 2 X 3  | 1.500 | 1.378  | 0.220     | 0.500    | 1.372  | 45,100                  | 4.39                 |
| <b>BL1234</b>    | LH2434  | 3 X 4  |       |        |           |          | 1.831  | 67,650                  | 6.10                 |
| <b>BL1244</b>    | LH2444  | 4 X 4  |       |        |           |          | 2.059  | 90,200                  | 6.97                 |
| <b>BL1246</b>    | LH2446  | 4 X 6  |       |        |           |          | 2.518  | 90,200                  | 8.05                 |
| <b>BL1266</b>    | LH2466  | 6 X 6  |       |        |           |          | 2.976  | 135,300                 | 9.78                 |
| <b>BL1423</b>    | LH2823  | 2 X 3  | 1.750 | 1.66   | 0.252     | 0.563    | 1.496  | 52,700                  | 5.87                 |
| <b>BL1434</b>    | LH2834  | 3 X 4  |       |        |           |          | 2.031  | 94,800                  | 8.19                 |
| <b>BL1444</b>    | LH2844  | 4 X 4  |       |        |           |          | 2.283  | 105,400                 | 9.35                 |
| <b>BL1446</b>    | LH2846  | 4 X 6  |       |        |           |          | 2.803  | 105,400                 | 11.66                |
| <b>BL1466</b>    | LH2866  | 6 X 6  |       |        |           |          | 3.346  | 158,000                 | 13.99                |
| <b>BL1623</b>    | LH3223  | 2 X 3  | 2.000 | 1.90   | 0.283     | 0.687    | 1.693  | 78,710                  | 7.50                 |
| <b>BL1634</b>    | LH3234  | 3 X 4  |       |        |           |          | 2.291  | 124,300                 | 10.45                |
| <b>BL1644</b>    | LH3244  | 4 X 4  |       |        |           |          | 2.575  | 157,400                 | 11.92                |
| <b>BL1646</b>    | LH3246  | 4 X 6  |       |        |           |          | 3.157  | 157,400                 | 14.86                |
| <b>BL1666</b>    | LH3266  | 6 X 6  |       |        |           |          | 3.764  | 236,100                 | 17.81                |

# ATTACHMENT CHAINS SPECIFICATIONS



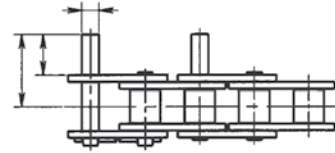
A-1

A-1 Attachment tab is bent on one side of the chain - one hole



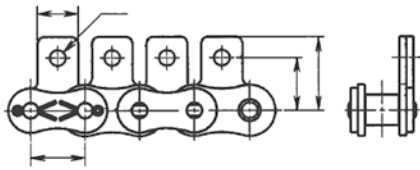
K-1

K-1 Attachment tab is bent both sides of chain - one hole



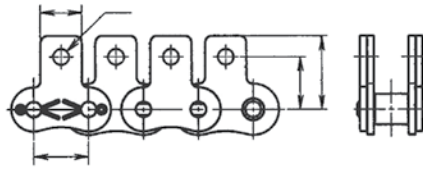
D-1

D-1 Attachment - extended pin on one side of pin link



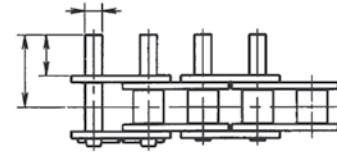
SA-1

SA-1 Attachment tab is straight up on one side of the chain - one hole



SK-1

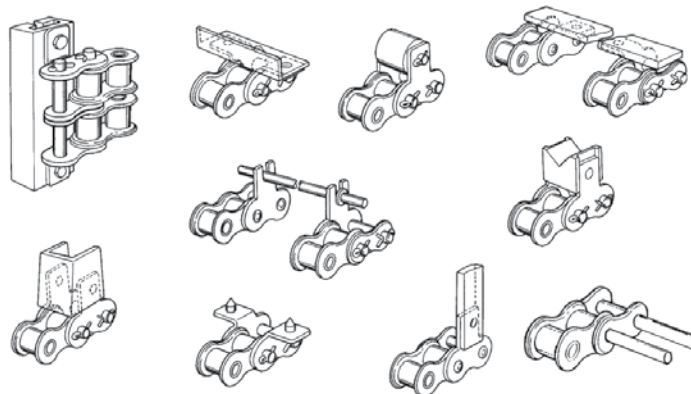
SK-1 Attachment tab is straight up on both sides of the chain - one hole



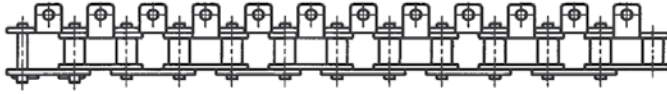
D-3

D-3 Attachment - extended pin on each side of pin link

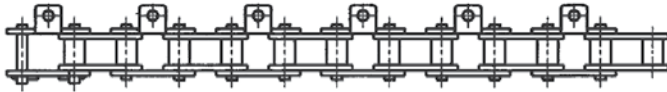
## SOME APPLICATIONS



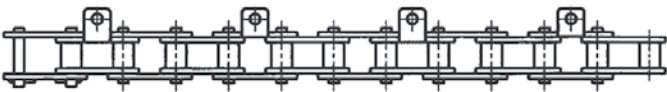
## ATTACHMENT SPACING



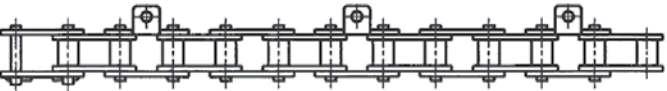
Attachment every pitch - every link on the chain will have an attachment



Attachment on 2nd pitch - either every pin link or every roller link - please specify

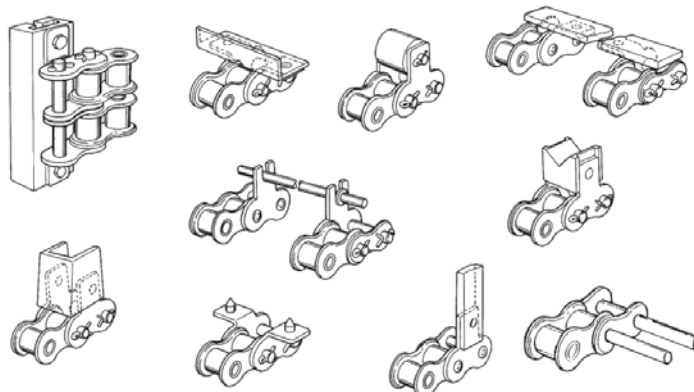


Attachment on 3rd pitch - attachment will alternate - one on pin link, next one on roller link, etc.

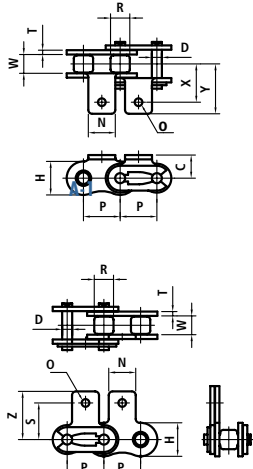


Attachment on 4th pitch - attachment will normally be placed on every other pin link or every 2nd roller link on the chain - please specify

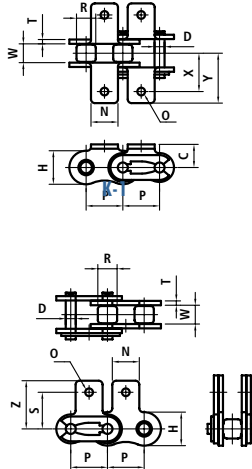
## SOME APPLICATIONS



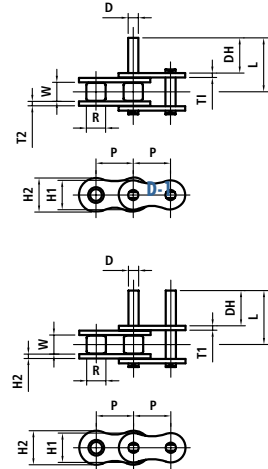
# STANDARD ROLLER CHAIN ATTACHMENTS



SA-1



SK-1

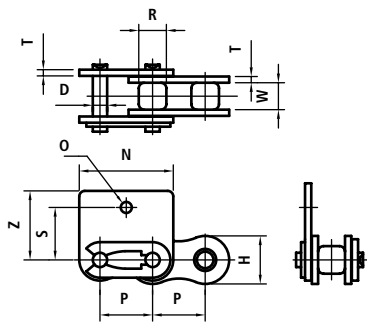


D-3

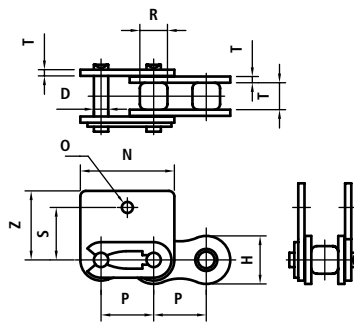
| CXS ANSI # | Pitch | Roller |       | Plate  |           | Pin      | Standard Attachments |             |         |       |       |           |       | Average Ultimate Strength Lbs/Ft |
|------------|-------|--------|-------|--------|-----------|----------|----------------------|-------------|---------|-------|-------|-----------|-------|----------------------------------|
|            |       | Width  | Dia   | Height | Thickness | Diameter | Width of Att Plt     | Hole Dia    | A-1 K-1 |       |       | SA-1 SK-1 |       |                                  |
|            | P     | W      | R     | H      | T         | D        | N                    | O           | C       | X     | Y     | S         | Z     |                                  |
| 35         | 0.375 | 0.188  | 0.200 | 0.354  | 0.047     | 0.141    | 0.311                | .106 - .134 | 0.250   | 0.374 | 0.563 | 0.374     | 0.573 | 2,310                            |
| 40         | 0.500 | 0.313  | 0.312 | 0.465  | 0.059     | 0.156    | 0.374                | 0.142       | 0.315   | 0.500 | 0.701 | 0.500     | 0.685 | 4,070                            |
| 50         | 0.625 | 0.375  | 0.400 | 0.583  | 0.079     | 0.199    | 0.500                | 0.205       | 0.406   | 0.626 | 0.921 | 0.626     | 0.907 | 6,820                            |
| 60         | 0.750 | 0.500  | 0.469 | 0.689  | 0.094     | 0.234    | 0.626                | 0.205       | 0.469   | 0.750 | 1.110 | 0.720     | 1.057 | 9,680                            |
| 80         | 1.000 | 0.625  | 0.625 | 0.941  | 0.122     | 0.313    | 0.752                | 0.268       | 0.626   | 1.000 | 1.441 | 0.969     | 1.396 | 17,160                           |
| 100        | 1.250 | 0.750  | 0.750 | 1.185  | 0.154     | 0.375    | 1.000                | 0.343       | 0.780   | 1.250 | 1.768 | 1.252     | 1.732 | 26,007                           |
| 120        | 1.500 | 1.000  | 0.875 | 1.378  | 0.185     | 0.437    | 1.126                | 0.390       | 0.906   | 1.500 | 2.197 | 1.437     | 2.081 | 34,100                           |
| 160        | 2.000 | 1.250  | 1.125 | 1.890  | 0.252     | 0.562    | 1.500                | 0.520       | 1.252   | 2.000 | 2.827 | 2.000     | 2.760 | 60,500                           |

| CXS ANSI # | Pitch | Roller |          | Plate  |       |           |       | Extended Pitch Attachments |                                           |                                          | Average Ultimate Strength Lbs/Ft |
|------------|-------|--------|----------|--------|-------|-----------|-------|----------------------------|-------------------------------------------|------------------------------------------|----------------------------------|
|            |       | Width  | Diameter | Height |       | Thickness |       | Pin Diameter               | Ext Pin Lgth side plate to end of ext pin | Ext Pin Lgth mid chain to end of ext pin |                                  |
|            | P     | W      | R        | H1     | H2    | T1        | T2    | D                          | DH                                        | L                                        |                                  |
| 35         | 0.375 | 0.188  | 0.200    | 0.299  | 0.354 | 0.047     | 0.047 | 0.141                      | 0.375                                     | 0.572                                    | 2,310                            |
| 40         | 0.500 | 0.313  | 0.312    | 0.402  | 0.465 | 0.059     | 0.059 | 0.156                      | 0.375                                     | 0.658                                    | 4,070                            |
| 50         | 0.625 | 0.375  | 0.400    | 0.512  | 0.583 | 0.079     | 0.079 | 0.199                      | 0.469                                     | 0.825                                    | 6,820                            |
| 60         | 0.750 | 0.500  | 0.469    | 0.610  | 0.689 | 0.094     | 0.094 | 0.234                      | 0.562                                     | 1.004                                    | 9,680                            |
| 80         | 1.000 | 0.625  | 0.625    | 0.803  | 0.941 | 0.122     | 0.122 | 0.313                      | 0.750                                     | 1.318                                    | 17,160                           |
| 100        | 1.250 | 0.750  | 0.750    | 0.976  | 1.185 | 0.154     | 0.154 | 0.375                      | 0.938                                     | 1.647                                    | 26,007                           |
| 120        | 1.500 | 1.000  | 0.875    | 1.181  | 1.378 | 0.185     | 0.185 | 0.437                      | 1.126                                     | 2.018                                    | 34,100                           |
| 160        | 2.000 | 1.250  | 1.125    | 1.630  | 1.890 | 0.252     | 0.252 | 0.562                      | 1.500                                     | 2.652                                    | 60,500                           |

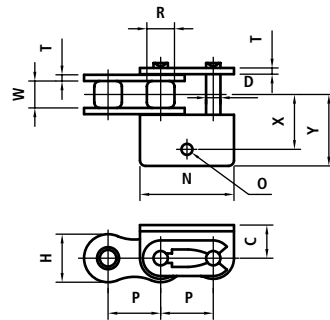




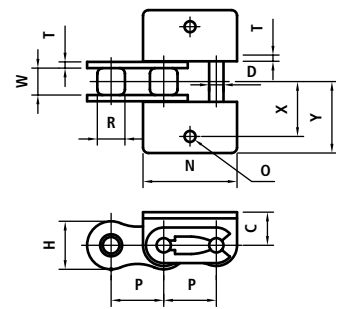
WA-1



WK-1

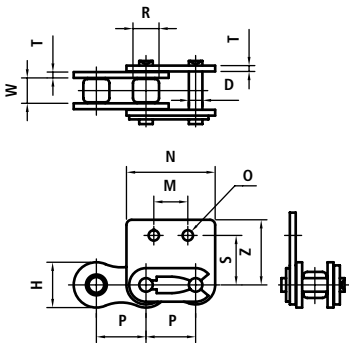


WSA-1

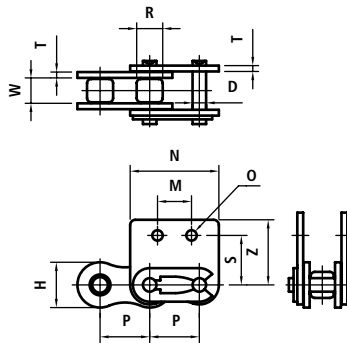


WSK-1

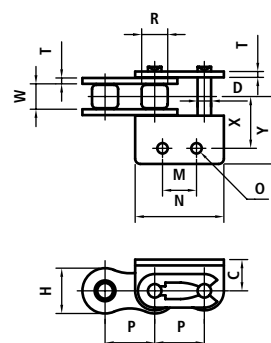
| CXS Chain # | Pitch | Roller |       | Plate  |           | Pin      | Wide Contour Attachments - One Hole Attachments |                  |                    |           |       |       |             |       | Average Ultimate Strength<br>Lbs/Ft |
|-------------|-------|--------|-------|--------|-----------|----------|-------------------------------------------------|------------------|--------------------|-----------|-------|-------|-------------|-------|-------------------------------------|
|             |       | Width  | Dia   | Height | Thickness | Diameter | Width of Att Plt                                | Hole Dia (WA WK) | Hole Dia (WSA WSK) | WA-1 WK-1 |       |       | WSA-1 WSK-1 |       |                                     |
|             | P     | W      | R     | H      | T         | D        | N                                               | O                | O                  | C         | X     | Y     | S           | Z     |                                     |
| 35          | 0.375 | 0.188  | 0.200 | 0.354  | 0.047     | 0.141    | 0.673                                           | 0.130            |                    | 0.250     | 0.374 | 0.563 | 0.374       | 0.543 | 2,310                               |
| 40          | 0.500 | 0.313  | 0.312 | 0.465  | 0.059     | 0.156    | 0.902                                           | 0.130            | 0.177              | 0.315     | 0.500 | 0.701 | 0.500       | 0.685 | 4,070                               |
| 50          | 0.625 | 0.375  | 0.400 | 0.583  | 0.079     | 0.199    | 1.130                                           | 0.201            | 0.217              | 0.406     | 0.626 | 0.921 | 0.626       | 0.907 | 6,820                               |
| 60          | 0.750 | 0.500  | 0.469 | 0.689  | 0.094     | 0.234    | 1.362                                           | 0.202            | 0.260              | 0.469     | 0.750 | 1.110 | 0.720       | 1.057 | 9,680                               |
| 80          | 1.000 | 0.625  | 0.625 | 0.941  | 0.122     | 0.313    | 1.799                                           | 0.268            | 0.354              | 0.626     | 1.000 | 1.441 | 0.969       | 1.396 | 17,160                              |



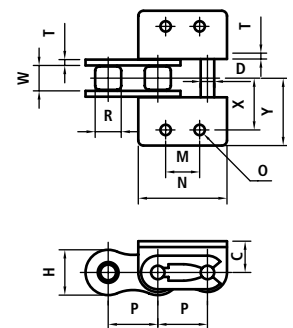
WA-2



WK-2



WSA-2



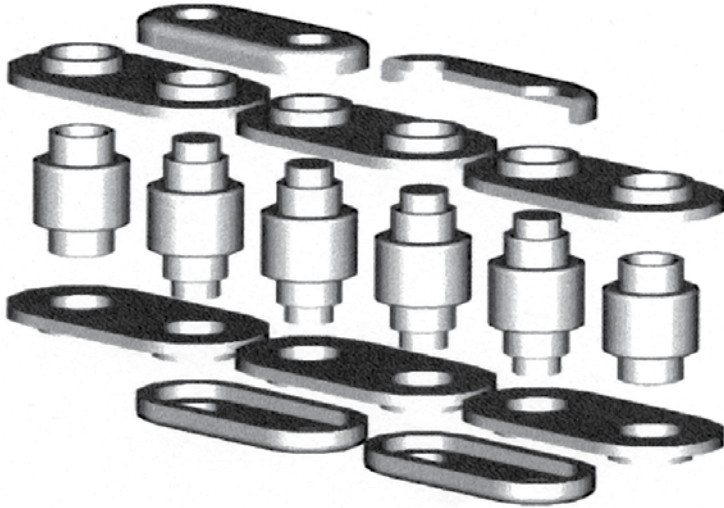
WSK-2

| CXS Chain # | Pitch | Roller |       | Plate  |           | Pin   | Wide Contour Attachments - Two Hole Attachments |                  |                 |                   |           |       |       |             | Average Ultimate Strength Lbs/Ft |        |
|-------------|-------|--------|-------|--------|-----------|-------|-------------------------------------------------|------------------|-----------------|-------------------|-----------|-------|-------|-------------|----------------------------------|--------|
|             |       | Width  | Dia   | Height | Thickness | Dia   | Dist between holes in Att Plate                 | Width of Att Plt | HoleDia (WA WK) | HoleDia (WSA WSK) | WA-2 WK-2 |       |       | WSA-2 WSK-2 |                                  |        |
|             | P     | W      | R     | H      | T         | D     | M                                               | N                | O               | O                 | C         | X     | Y     | S           | Z                                |        |
| 35          | 0.375 | 0.188  | 0.200 | 0.354  | 0.047     | 0.141 | 0.374                                           | 0.673            | 0.130           |                   | 0.250     | 0.374 | 0.563 | 0.374       | 0.543                            | 2,310  |
| 40          | 0.500 | 0.313  | 0.312 | 0.465  | 0.059     | 0.156 | 0.374                                           | 0.902            | 0.130           | 0.177             | 0.315     | 0.500 | 0.701 | 0.500       | 0.685                            | 4,070  |
| 50          | 0.625 | 0.375  | 0.400 | 0.583  | 0.079     | 0.199 | 0.469                                           | 1.130            | 0.201           | 0.217             | 0.406     | 0.626 | 0.921 | 0.626       | 0.907                            | 6,820  |
| 60          | 0.750 | 0.500  | 0.469 | 0.689  | 0.094     | 0.234 | 0.563                                           | 1.362            | 0.202           | 0.260             | 0.469     | 0.750 | 1.110 | 0.720       | 1.057                            | 9,680  |
| 80          | 1.000 | 0.625  | 0.625 | 0.941  | 0.122     | 0.313 | 0.752                                           | 1.799            | 0.268           | 0.354             | 0.626     | 1.000 | 1.441 | 0.969       | 1.396                            | 17,160 |

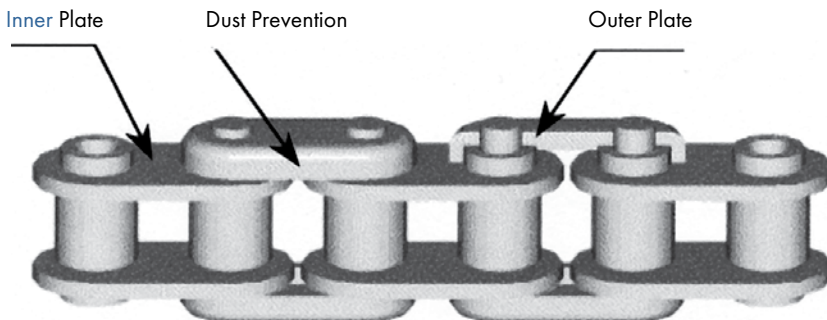


# SS MEGA ATTACHMENT CHAIN SPECIFICATIONS

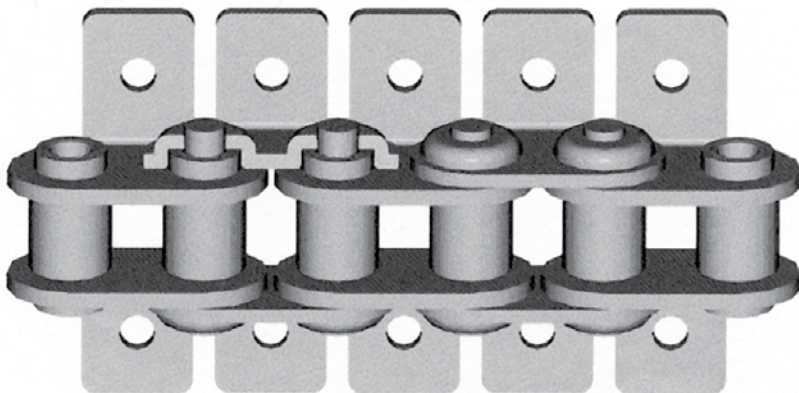
## MEGA CHAIN DETAIL



## MEGA CHAIN

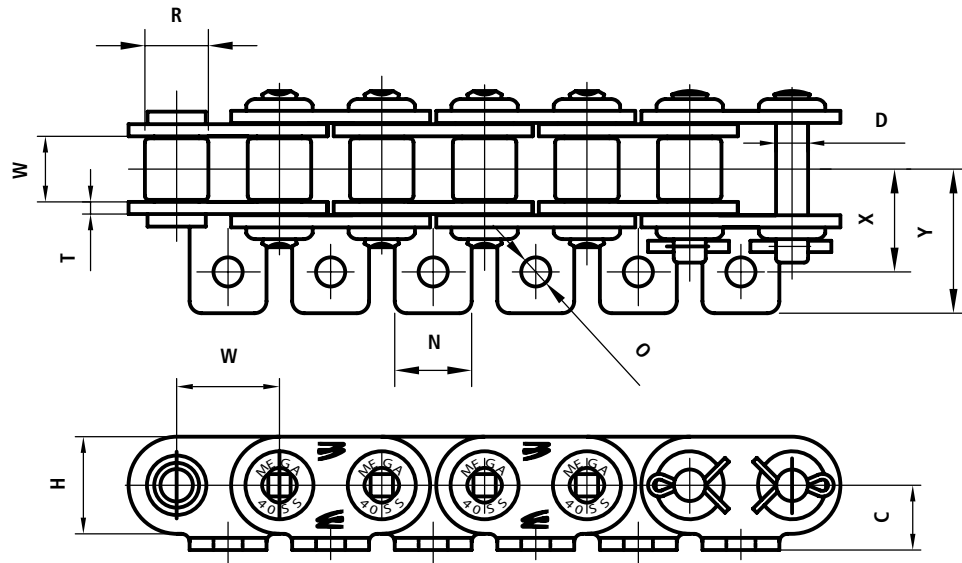


## MEGA ATTACHMENT

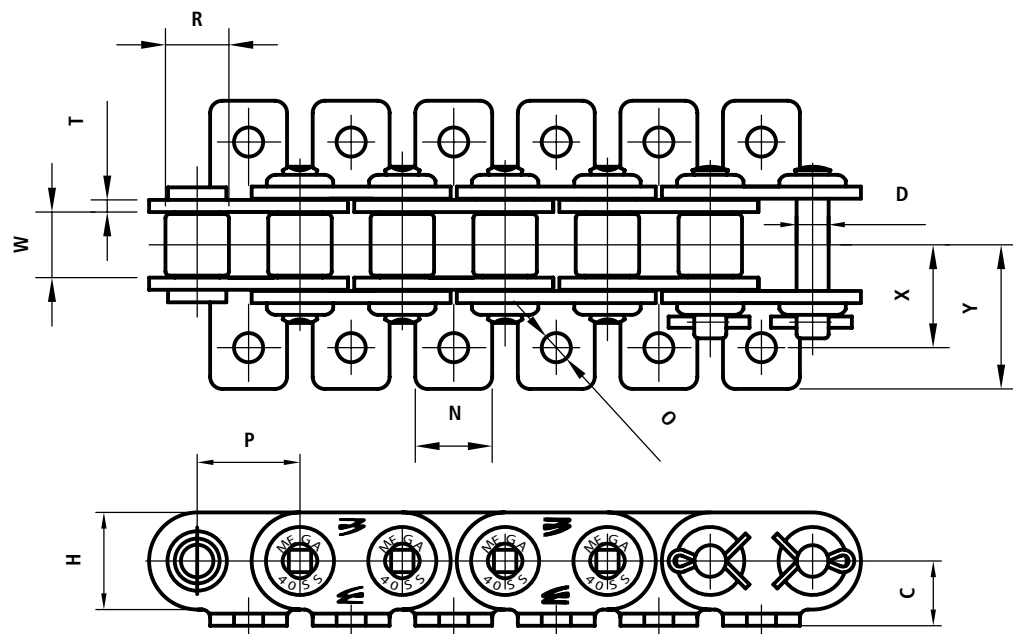


- **Roller chain sizes 40 through 80, single and double**
- **Double pitch chain C2040 through C2080**
- **All standard attachments**
- **Patented design provides twice the tensile strength of standard stainless steel chains**
- **Patented design provides;**
  - twice the tensile strength of standard stainless steel chains
  - twice the allowable load
  - 50% better elongation results
  - pin protection from debris
- **Uses standard sprockets**
- **Reduces maintenance**

# SS MEGA ATTACHMENT CHAIN SPECIFICATIONS



A-1

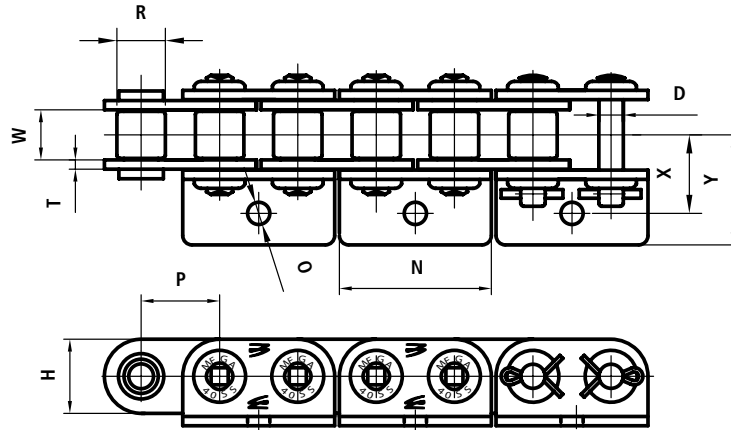


K-1

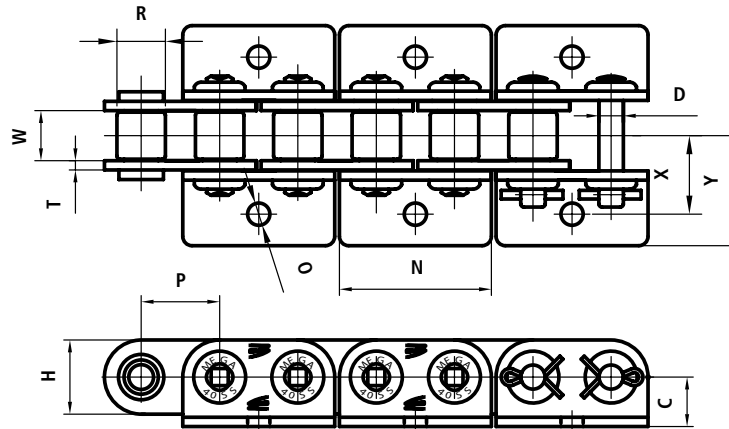
| CXS<br>Mega<br>Chain # | Pitch | Roller |       | Plate  |           | Pin      | Standard Attachments |             |         |       |       |           |       | Max Allow<br>Load<br>Lbs/Ft | Average<br>Ultimate<br>Strength<br>Lbs/Ft |
|------------------------|-------|--------|-------|--------|-----------|----------|----------------------|-------------|---------|-------|-------|-----------|-------|-----------------------------|-------------------------------------------|
|                        |       | Width  | Dia   | Height | Thickness | Diameter | Width of<br>Att Plt  | Hole<br>Dia | A-1 K-1 |       |       | SA-1 SK-1 |       |                             |                                           |
|                        | P     | W      | R     | H      | T         | D        | N                    | O           | C       | X     | Y     | S         | Z     |                             |                                           |
| 40SS                   | 0.500 | 0.313  | 0.312 | 0.472  | 0.059     | 0.156    | 0.374                | 0.142       | 0.315   | 0.500 | 0.701 | 0.500     | 0.685 | 154                         | 3,960                                     |
| 50SS                   | 0.625 | 0.375  | 0.400 | 0.591  | 0.079     | 0.199    | 0.500                | 0.205       | 0.406   | 0.626 | 0.921 | 0.626     | 0.907 | 264                         | 7,040                                     |
| 60SS                   | 0.750 | 0.500  | 0.469 | 0.713  | 0.093     | 0.234    | 0.625                | 0.205       | 0.469   | 0.750 | 1.110 | 0.720     | 1.057 | 363                         | 9,680                                     |
| 80SS                   | 1.000 | 0.625  | 0.625 | 0.945  | 0.118     | 0.313    | 0.752                | 0.268       | 0.626   | 1.000 | 1.441 | 0.969     | 1.396 | 638                         | 15,840                                    |

# SS MEGA WIDE CONTOUR ATTACHMENTS

WA-1



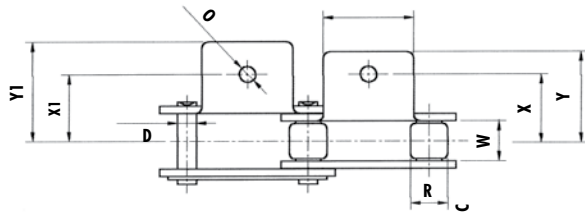
WK-1



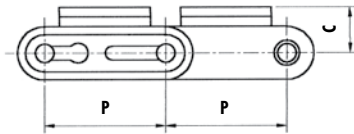
| CXS<br>Mega<br>Chain # | Pitch | Roller |       | Plate  |           | Pin      | Wide Contour One Hole Attachments |             |           |       |       |             |       | Max Allow<br>Load<br>Lbs/Ft | Average<br>Ultimate<br>Strength<br>Lbs/Ft |
|------------------------|-------|--------|-------|--------|-----------|----------|-----------------------------------|-------------|-----------|-------|-------|-------------|-------|-----------------------------|-------------------------------------------|
|                        |       | Width  | Dia   | Height | Thickness | Diameter | Width of<br>Att Plt               | Hole<br>Dia | WA-1 WK-1 |       |       | WSA-1 WSK-1 |       |                             |                                           |
|                        | P     | W      | R     | H      | T         | D        | N                                 | O           | C         | X     | Y     | S           | Z     |                             |                                           |
| 40SS                   | 0.500 | 0.500  | 0.313 | 0.312  | 0.472     | 0.059    | 0.968                             | 0.177       | 0.315     | 0.500 | 0.701 | 0.500       | 0.685 | 154                         | 3,960                                     |
| 50SS                   | 0.625 | 0.625  | 0.375 | 0.400  | 0.591     | 0.079    | 1.213                             | 0.217       | 0.406     | 0.626 | 0.921 | 0.626       | 0.907 | 264                         | 7,040                                     |
| 60SS                   | 0.750 | 0.750  | 0.500 | 0.469  | 0.713     | 0.093    | 1.457                             | 0.260       | 0.469     | 0.750 | 1.110 | 0.720       | 1.057 | 363                         | 9,680                                     |
| 80SS                   | 1.000 | 1.000  | 0.625 | 0.625  | 0.945     | 0.118    | 1.949                             | 0.354       | 0.626     | 1.000 | 1.441 | 0.969       | 1.396 | 638                         | 15,840                                    |

| CXS<br>Mega<br>Chain # | Pitch | Roller |       | Plate  |           | Pin      | Wide Contour Two Hole Attachments |       |             |                                  |       |                                   |       |                | Max Allow                      | Average |
|------------------------|-------|--------|-------|--------|-----------|----------|-----------------------------------|-------|-------------|----------------------------------|-------|-----------------------------------|-------|----------------|--------------------------------|---------|
|                        |       | Width  | Dia   | Height | Thickness | Diameter | Width of<br>Att Plt               |       | Hole<br>Dia | Wide Contour Plates<br>WA-2 WK-2 |       | Wide Contour Plates<br>WSA-2 SK-2 |       | Load<br>Lbs/Ft | Ultimate<br>Strength<br>Lbs/Ft |         |
|                        | P     | W      | R     | H      | T         | D        | N                                 | M     | O           | C                                | X     | Y                                 | S     | Z              |                                |         |
| 40SS                   | 0.500 | 0.500  | 0.313 | 0.312  | 0.472     | 0.059    | 0.968                             | 0.500 | 0.177       | 0.315                            | 0.500 | 0.701                             | 0.500 | 0.685          | 154                            | 3,960   |
| 50SS                   | 0.625 | 0.625  | 0.375 | 0.400  | 0.591     | 0.079    | 1.213                             | 0.625 | 0.217       | 0.406                            | 0.626 | 0.921                             | 0.626 | 0.907          | 264                            | 7,040   |
| 60SS                   | 0.750 | 0.750  | 0.500 | 0.469  | 0.713     | 0.093    | 1.457                             | 0.750 | 0.260       | 0.469                            | 0.750 | 1.110                             | 0.720 | 1.057          | 363                            | 9,680   |
| 80SS                   | 1.000 | 1.000  | 0.625 | 0.625  | 0.945     | 0.118    | 1.949                             | 1.000 | 0.354       | 0.626                            | 1.000 | 1.441                             | 0.969 | 1.396          | 638                            | 15,840  |

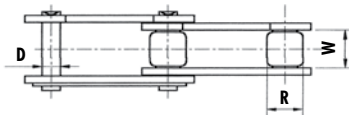
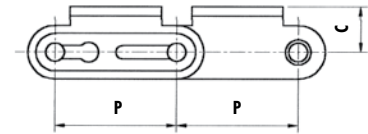
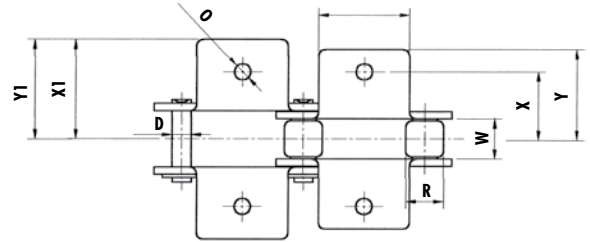
# DOUBLE PITCH CONVEYOR ATTACHMENTS



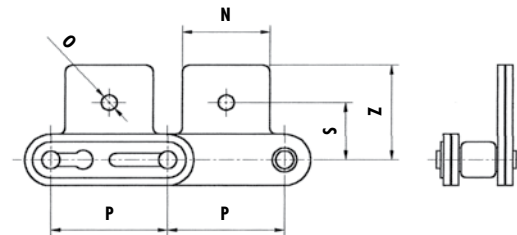
A-1



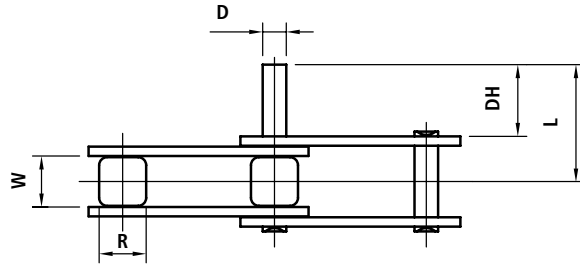
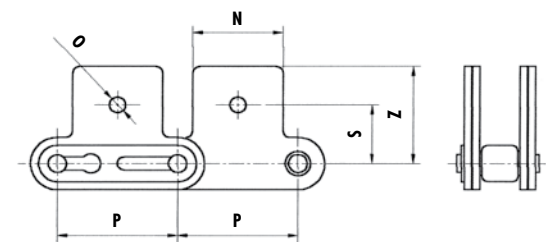
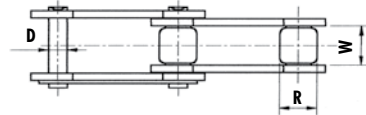
K-1



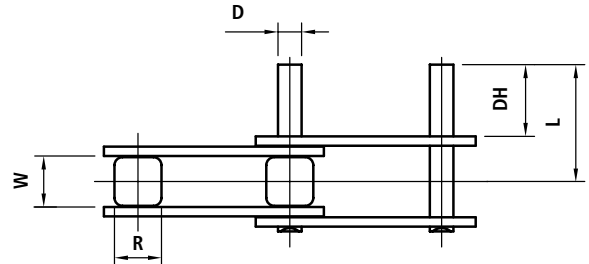
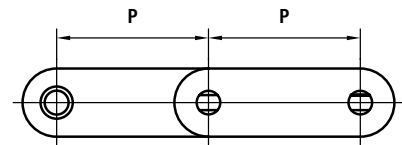
SA-1



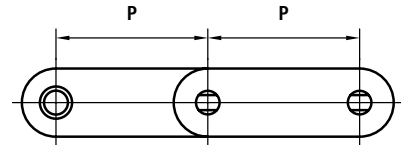
SK-1



D-1



D-3

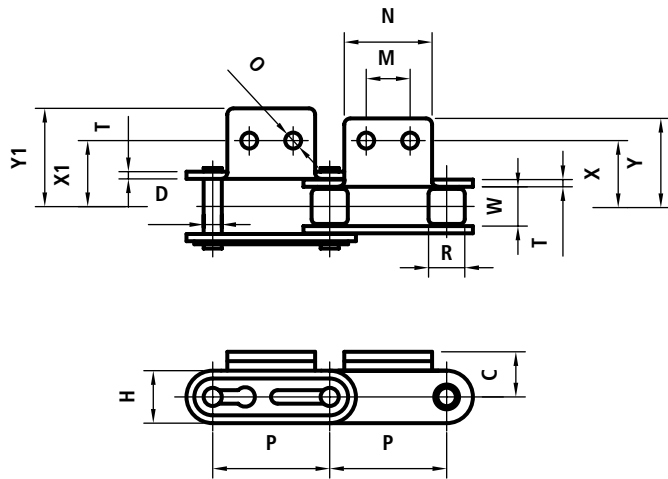


Refer to page 12 for H & T Link Plate Dimensions

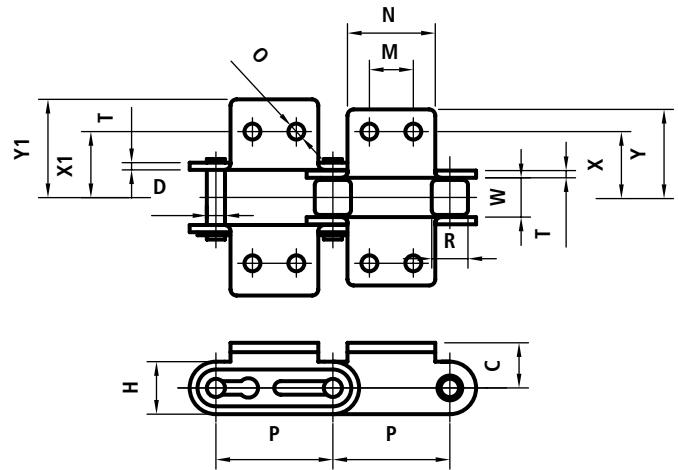
| CXS<br>Chain # | Pitch | Width | Roller<br>Dia | Pin<br>Dia | Att<br>Plate<br>Width | Att      |          | Attachments Specifications |       |       |       |       |       |         |       |       |       |        | Average<br>Ultimate<br>Strength<br>Lbs/Ft |
|----------------|-------|-------|---------------|------------|-----------------------|----------|----------|----------------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|--------|-------------------------------------------|
|                |       |       |               |            |                       | Hole Dia | Hole Dia |                            |       |       |       |       | D Att |         |       |       |       |        |                                           |
|                |       |       |               |            |                       | A-1      | K-1      | SA-1                       | SK-1  | A-1   | K-1   | SA-1  | SK-1  | Pin Dia | D-1   | D-3   |       |        |                                           |
|                | P     | W     | R             | D          | N                     | O        | O        | C                          | X     | Y     | X1    | Y1    | S     | Z       | D     | DH    | L     |        |                                           |
| C2040          | 1.00  | 0.313 | 0.312         | 0.156      | 0.752                 | 0.142    | 0.201    | 0.358                      | 0.500 | 0.695 | 0.500 | 0.760 | 0.437 | 0.780   | 0.156 | 0.375 | 0.658 | 4,100  |                                           |
| C2050          | 1.25  | 0.375 | 0.400         | 0.200      | 0.937                 | 0.201    | 0.268    | 0.437                      | 0.626 | 0.864 | 0.626 | 0.951 | 0.561 | 0.949   | 0.200 | 0.469 | 0.825 | 6,800  |                                           |
| C2060H         | 1.50  | 0.500 | 0.469         | 0.234      | 1.126                 | 0.201    | 0.343    | 0.579                      | 0.844 | 1.129 | 0.844 | 1.258 | 0.689 | 1.242   | 0.234 | 0.562 | 1.066 | 11,700 |                                           |
| C2080H         | 2.00  | 0.625 | 0.625         | 0.312      | 1.500                 | 0.268    | 0.406    | 0.752                      | 1.094 | 1.438 | 1.094 | 1.602 | 0.874 | 1.594   | 0.312 | 0.750 | 1.385 | 20,300 |                                           |
| C2042          | 1.00  | 0.313 | 0.625         | 0.156      | 0.752                 | 0.142    | 0.201    | 0.358                      | 0.500 | 0.695 | 0.500 | 0.760 | 0.437 | 0.780   | 0.156 | 0.375 | 0.658 | 4,100  |                                           |
| C2052          | 1.25  | 0.375 | 0.750         | 0.200      | 0.937                 | 0.201    | 0.268    | 0.437                      | 0.626 | 0.864 | 0.626 | 0.951 | 0.561 | 0.949   | 0.200 | 0.469 | 0.825 | 6,800  |                                           |
| C2062H         | 1.50  | 0.500 | 0.875         | 0.234      | 1.126                 | 0.201    | 0.343    | 0.579                      | 0.844 | 1.129 | 0.844 | 1.258 | 0.689 | 1.242   | 0.234 | 0.562 | 1.066 | 11,700 |                                           |
| C2082H         | 2.00  | 0.625 | 1.125         | 0.312      | 1.500                 | 0.268    | 0.406    | 0.752                      | 1.094 | 1.438 | 1.094 | 1.602 | 0.874 | 1.594   | 0.312 | 0.750 | 1.385 | 20,300 |                                           |

# DOUBLE PITCH CONVEYOR ATTACHMENTS

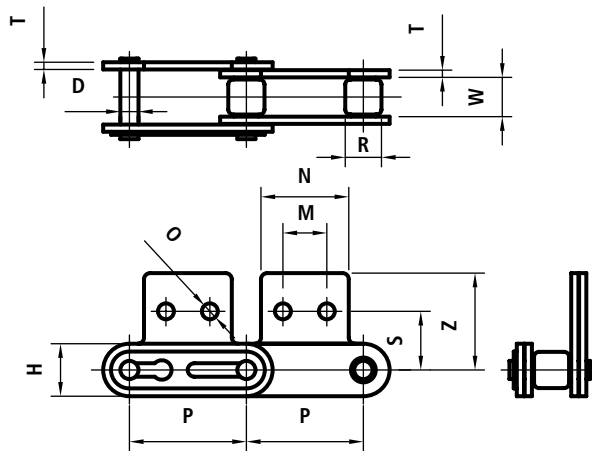
## A-2



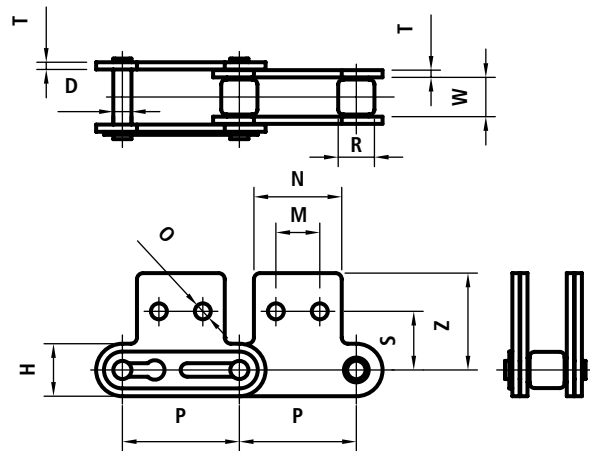
## K-2



## SA-2



## SK-2



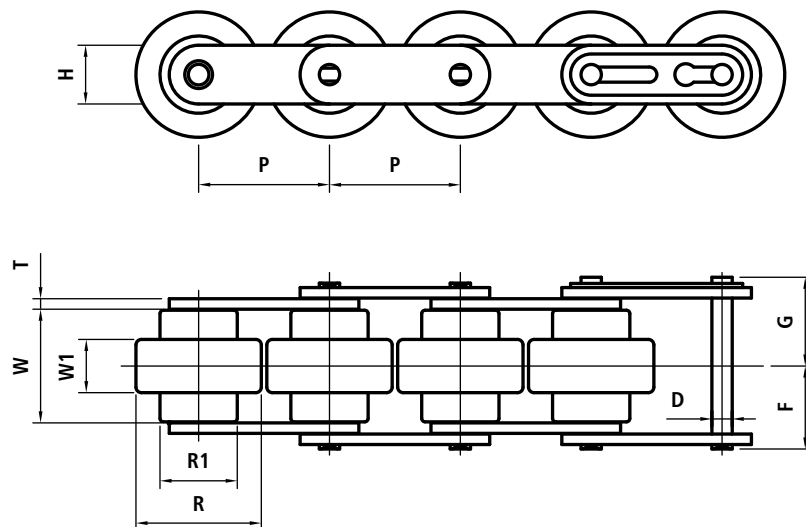
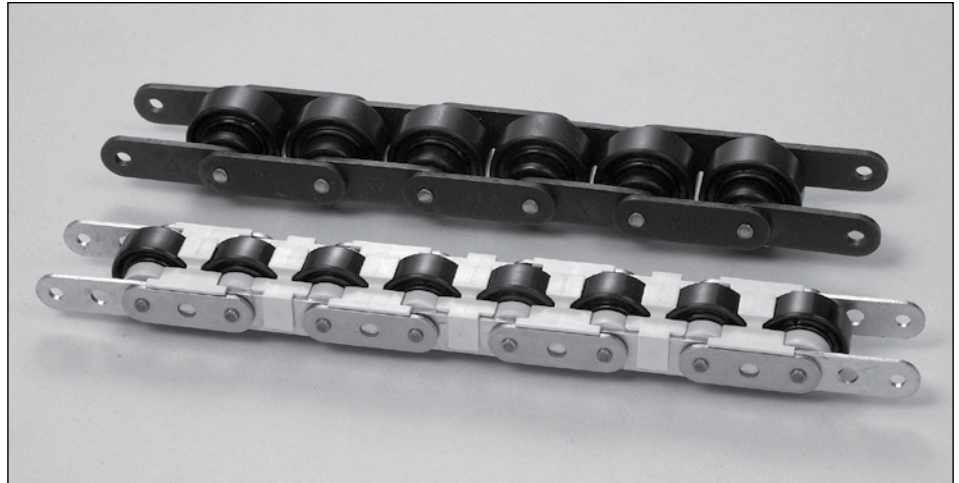
Refer to page 12 for H & T Link Plate Dimensions

| CXS<br>Mega<br>Chain # | Pitch | Width | Roller<br>Dia | Pin<br>Dia | Att<br>Plate<br>Width | Att<br>Hole<br>Dia | Dist<br>Between<br>Att Holes | Attachment Specifications |       |       |       |       |           |       | Average<br>Ultimate<br>Strength<br>Lbs/Ft |
|------------------------|-------|-------|---------------|------------|-----------------------|--------------------|------------------------------|---------------------------|-------|-------|-------|-------|-----------|-------|-------------------------------------------|
|                        |       |       |               |            |                       |                    |                              | A-2 K-2                   |       |       |       |       | SA-2 SK-2 |       |                                           |
|                        | P     | W     | R             | D          | N                     | O                  | M                            | C                         | X     | Y     | X1    | Y1    | S         | Z     |                                           |
| C2040                  | 1.00  | 0.313 | 0.312         | 0.156      | 0.752                 | 0.142              | 0.374                        | 0.358                     | 0.500 | 0.695 | 0.500 | 0.760 | 0.538     | 0.780 | 4,100                                     |
| C2050                  | 1.25  | 0.375 | 0.400         | 0.200      | 0.937                 | 0.201              | 0.469                        | 0.437                     | 0.626 | 0.864 | 0.626 | 0.951 | 0.626     | 0.949 | 6,800                                     |
| C2060H                 | 1.50  | 0.500 | 0.469         | 0.234      | 1.126                 | 0.201              | 0.563                        | 0.579                     | 0.844 | 1.129 | 0.844 | 1.258 | 0.752     | 1.242 | 11,700                                    |
| C2080H                 | 2.00  | 0.625 | 0.625         | 0.312      | 1.500                 | 0.268              | 0.752                        | 0.752                     | 1.094 | 1.438 | 1.094 | 1.602 | 1.000     | 1.594 | 20,300                                    |
| C2042                  | 1.00  | 0.313 | 0.625         | 0.156      | 0.752                 | 0.142              | 0.374                        | 0.358                     | 0.500 | 0.695 | 0.500 | 0.76  | 0.538     | 0.780 | 4,100                                     |
| C2052                  | 1.25  | 0.375 | 0.750         | 0.200      | 0.937                 | 0.201              | 0.469                        | 0.437                     | 0.626 | 0.864 | 0.626 | 0.951 | 0.626     | 0.949 | 6,800                                     |
| C2062H                 | 1.50  | 0.500 | 0.875         | 0.234      | 1.126                 | 0.201              | 0.563                        | 0.579                     | 0.844 | 1.129 | 0.844 | 1.258 | 0.752     | 1.242 | 11,700                                    |
| C2082H                 | 2.00  | 0.625 | 1.125         | 0.312      | 1.500                 | 0.268              | 0.752                        | 0.752                     | 1.094 | 1.438 | 1.094 | 1.602 | 1.000     | 1.594 | 20,300                                    |

## TRIPLE SPEED CHAINS

- **Conveyor Chains** with a black plastic (POM 90) large roller which inhibits static electricity, and small gray (nylon 66) material roller allows for material to be transported at 2.5 times the speed of the base chain
- Base chain available in carbon steel, coated with zinc plated inside plates and nickel plated outer plates, as well as stainless steel

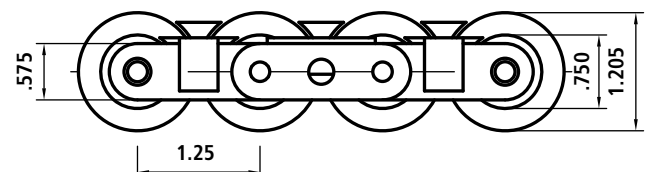
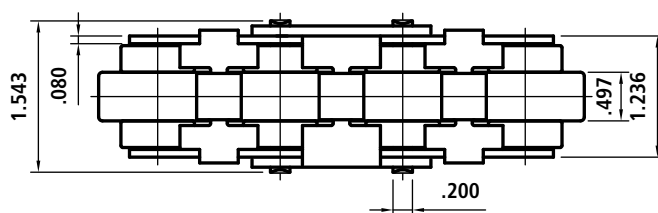
Contact CONNEXUS service centers for special requirements



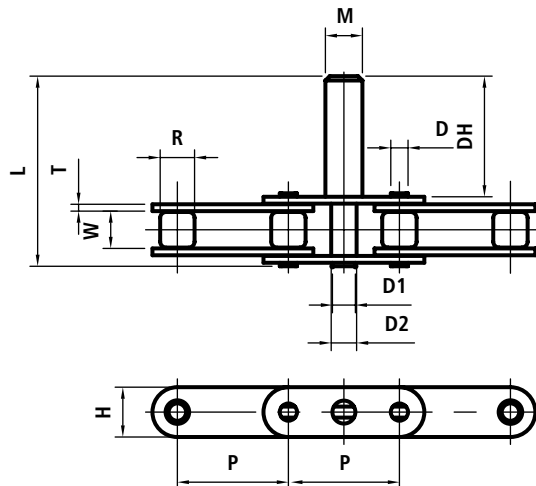
| CONNEXUS Chain # | Pitch | Width | Roller |          |       | Plate  |           | Pin      |         |       | Avg Ult Strength Lbs/Ft | Approx Weight Lbs/Ft |
|------------------|-------|-------|--------|----------|-------|--------|-----------|----------|---------|-------|-------------------------|----------------------|
|                  | P     | W     | Height | Diameter |       | Height | Thickness | Diameter | Lengths |       |                         |                      |
|                  |       |       | W1     | R        | R1    | H      | T         | D        | F       | G     |                         |                      |
| C2050-JDS        | 1.25  | 1.08  | 0.496  | 1.205    | 0.750 | 0.575  | 0.080     | 0.200    | 0.756   | 0.815 | 6600                    | 0.94                 |
| C2060H-JDS       | 1.50  | 1.31  | 0.610  | 1.437    | 0.886 | 0.673  | 0.122     | 0.234    | 0.951   | 1.018 | 9240                    | 1.34                 |

- Snap covers drawn below, also available from the factory

### C2050 - JDS - CVR



## SPECIAL MARKET CHAINS

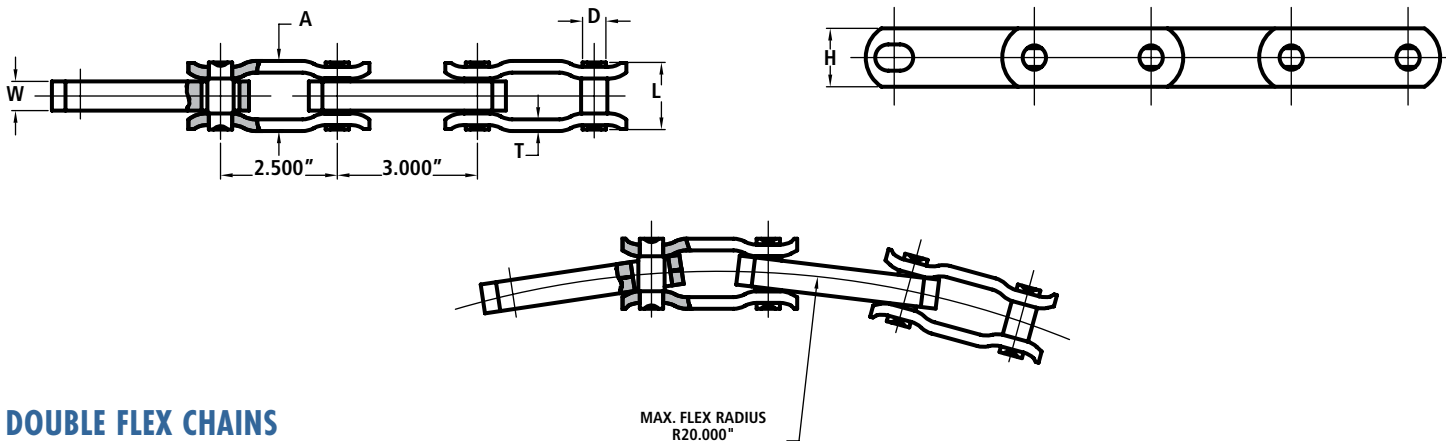


### CITRUS / AGRICULTURAL CHAINS

- **Connexus Citrus**, sometimes called agricultural chains, are used to convey product on bucket elevators
  - They are available with same length of pin and two separate pin diameters, 1/2" and 9/16"
  - Also available in plated and stainless steel

Consult Connexus service centers for special requirements

| CXS Chain # | Type          | Pitch | Roller Width | Roller | Link Plates |           | Pin   |       |       |                |       |       | Approx Weight Lbs/Ft | Avg Tensile Strength Lbs/Ft |
|-------------|---------------|-------|--------------|--------|-------------|-----------|-------|-------|-------|----------------|-------|-------|----------------------|-----------------------------|
|             |               |       |              | Dia    | Height      | Thickness | Dia   |       |       | Length         |       |       |                      |                             |
|             |               |       |              | R      | H           | T         | D     | D1    | D2    | M              | DH    | L     |                      |                             |
| C2060H      | 1/2"<br>9/16" | 1.500 | 0.500        | 0.469  | 0.670       | 0.125     | 0.234 | 0.310 | 0.343 | 0.500<br>0.563 | 1.625 | 2.720 | 1.20                 | 9900                        |

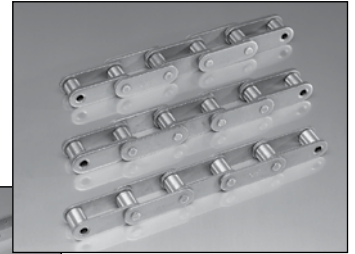
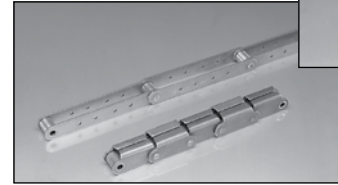
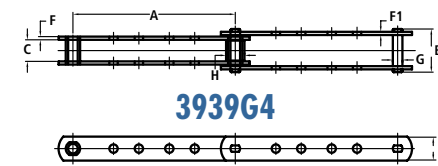
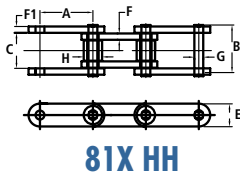
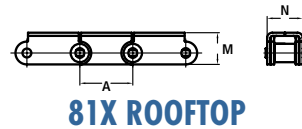
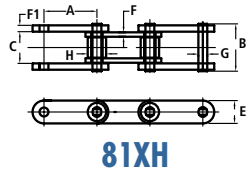
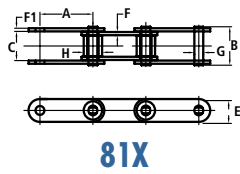


### DOUBLE FLEX CHAINS

- Transfer conveyor chains used in many applications featuring induction hardened pins, thru hardened sidebars and inner links for extended wear life

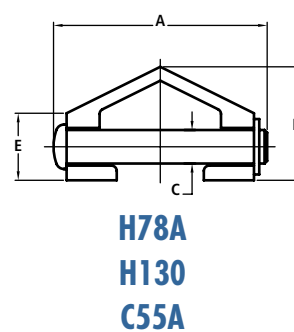
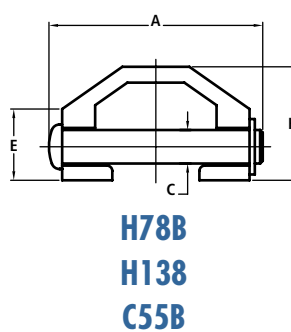
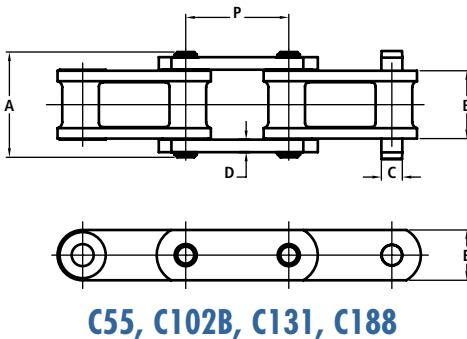
| CXS Chain # | Pitch      |            | Chain Width |        | Link Plate |        | Pin Diameter | Maximum Radius | Avg Ult Tensile Strength Lbs/Ft | Maximum Allowable Load Lbs | Average Weight Lbs/Ft |
|-------------|------------|------------|-------------|--------|------------|--------|--------------|----------------|---------------------------------|----------------------------|-----------------------|
|             | Inner Link | Outer Link | Overall     | Inside | Thickness  | Height |              |                |                                 |                            |                       |
|             |            |            | L           | W      | T          | H      |              |                |                                 |                            |                       |
| DF3500      | 3.000"     | 2.5000"    | 1.500       | 0.625  | 0.250      | 1.25   | 0.562        | 20"            | 3.3                             | 4000                       | 48000                 |





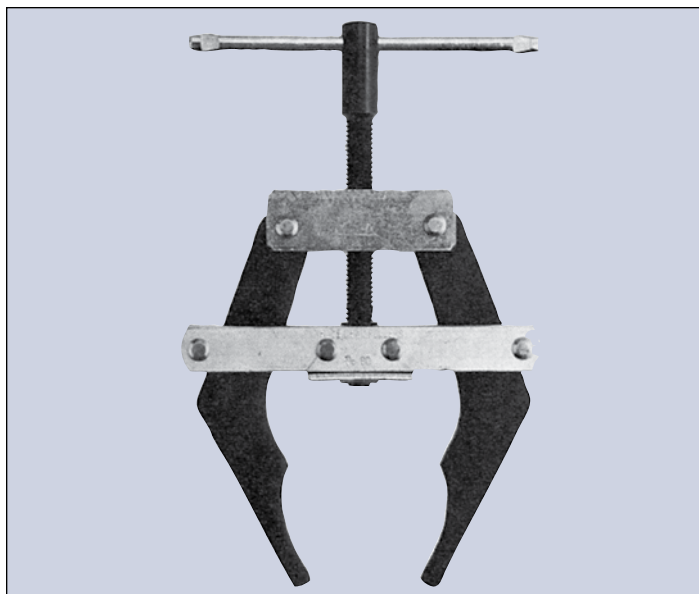
| CONNEXUS Chain #   | Pitch<br>A | Links/Ft | Approx Weight<br>Lbs/Ft | Overall Width<br>B | Inside Width<br>C | Inner SB Thickness<br>F | Outer SB Thickness<br>F1 | Pin Diameter<br>G | Roller Diameter<br>H | Sidebar Height<br>E | Rooftop Height<br>M | Rooftop Width<br>N |
|--------------------|------------|----------|-------------------------|--------------------|-------------------|-------------------------|--------------------------|-------------------|----------------------|---------------------|---------------------|--------------------|
| <b>81X</b>         | 2.609      | 4.6      | 2.6                     | 1.937              | 1.062             | .156                    | .156                     | .4375             | .9062                | 1.125               |                     |                    |
| <b>81X H</b>       | 2.609      | 4.6      | 3.9                     | 2.325              | 1.062             | .156                    | .218                     | .4375             | .9062                | 1.250               |                     |                    |
| <b>81X XHD</b>     | 2.609      | 4.6      | 4.6                     | 2.625              | 1.062             | .156                    | .312                     | .4375             | .9062                | 1.250               |                     |                    |
| <b>81X ROOFTOP</b> | 2.609      | 4.6      | 6.0                     | 2.000              | 1.062             | .156                    | .156                     | .4375             | .9062                |                     | 1.500               | 1.8125             |
| <b>*3939G4</b>     | 8.000      | 1.5      | 1.62                    | 1.937              | 1.062             | .156                    | .156                     | .4375             | .9062                | 1.125               |                     |                    |

\* 4 holes per side bar 9/32 diameter @ 1.5" and 4" centers - other configurations are also available



| CONNEXUS Chain # | Pitch<br>P | Links/Ft | Approx Weight<br>Lbs/Ft | Width<br>A | Inner Link Width<br>B | Pin Diameter<br>C | Thickness<br>D | Height<br>E | Rooftop Height<br>H |
|------------------|------------|----------|-------------------------|------------|-----------------------|-------------------|----------------|-------------|---------------------|
| <b>H78</b>       | 2.609      | 4.6      | 4.3                     | 3.250      |                       | .500              |                |             |                     |
| <b>H78 A/B</b>   | 2.609      | 4.6      | 5.6/6.2                 | 3.250      |                       | .500              |                |             | 1.690               |
| <b>H130/138</b>  | 4.000      | 3        | 5.3/5.9                 | 3.250      |                       | .500              |                |             | 1.690               |
| <b>C55</b>       | 1.630      | 7.4      | 2.0                     | 2.000      | 1.250                 | .375              | .218           | .750        |                     |
| <b>C188</b>      | 2.609      | 4.6      | 3.5                     | 2.562      | 1.562                 | .500              | .250           | 1.125       |                     |
| <b>C131</b>      | 3.075      | 3.9      | 6.7                     | 3.250      | 3.437                 | .625              | .375           | 1.500       |                     |
| <b>C102B</b>     | 4.000      | 3        | 6.4                     | 4.312      | 2.875                 | .625              | .375           | 1.500       |                     |
| <b>C55A/B</b>    | 1.630      | 7.4      | 2.5                     | 2.000      | 1.218                 | .375              | .218           | .718        | 1.625               |

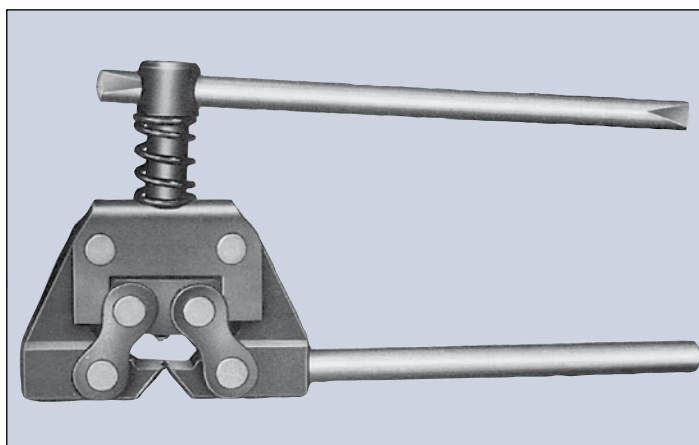




## CHAIN PULLER

The Chain Puller is an additional tool which provides a fast and easy method for endless chain assembly. The two jaws are hooked into the ends of the chain, and the hand screw is turned until the connecting link glides into position.

| Model  | Chain Size |
|--------|------------|
| No. 35 | 35 - 60    |
| No. 60 | 60 - 100   |
| No. 80 | 80 - 240   |



## CHAIN DETACHER

The Chain Detacher is a lightweight hand tool that quickly disassembles roller chain without the need of a hammer, punch or vise. In short, "one tool does all the work". There are three models for use with ANSI Standard Chains. Sizes No. 35 through No. 100.

| Model   | Chain Size |
|---------|------------|
| No. 50  | 35 - 50    |
| No. 60  | 35 - 60    |
| No. 100 | 60 - 100   |



## STRAIGHT PUNCH TYPE CHAIN CUTTER

The Straight punch type Chain Cutter provides higher efficiency for quick disassembly of chains compared with the conventional chain cutter.

| Model       | Chain Size |
|-------------|------------|
| No. 25      | 25         |
| No. 35 - 40 | 35 - 40    |
| No. 50      | 50         |
| No. 60      | 60         |
| No. 80      | 80         |
| No. 100     | 100        |

## CHAIN DRIVE SELECTION

### Chains can be selected by two methods;

1. General Selection
2. Slow-speed Selection

### 1: General Selection

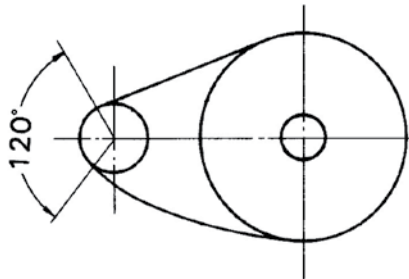
The following information is essential in order to select the appropriate chain and sprocket for roller chain transmission

#### Power to be transmitted = kW

#### Speed of driving shaft and driven shaft per minute

Speed ratio refers to the ratio of the speed of the driving shaft to the speed of the driven shaft. The speed ratio of chains can range up to 7:1 under normal operating conditions.

The take up angle between the smaller sprocket and the chain should be at least 120 degrees to obtain smooth transmission.



#### Center distance between driving shaft and driven shaft

Sprockets can be separated at any distance as long as the teeth do not touch. Optimum distance is 30 to 50 times the pitch of chain used.

### 1) Adjust power to be transmitted (kW)

The actual power to be transmitted is affected by the load of the machine and power source used.

Adjustments must be made according to **Service Factor shown on Table 1**. The power to be transmitted (kW) is multiplied by the corresponding service factor to obtain the design kW value.

### 2) Determine roller chain and number of teeth of the smaller sprocket.

Use the Quick Selection Table (Table V) and select an appropriate chain and the number of teeth for the small sprocket by referring to the number of revolutions of the high speed shaft (i.e., the driving shaft when the speed is reduced; the driven shaft when the speed is increased) and the design kW.

If the capacity of simplex chain is insufficient, select a Multiplex chain. In this case, use the following table to determine the multi-strand factor.

**Table II Multi-Strand Factor**

| No. of Roller Chain Strand | Multi-Strand Factor |
|----------------------------|---------------------|
| 2                          | 1.7                 |
| 3                          | 2.5                 |
| 4                          | 3.3                 |
| 5                          | 3.9                 |
| 6                          | 4.6                 |

### 3) Determine the number of teeth of the large sprocket

After the number of teeth of the small sprocket is determined, multiply it by the speed ratio to determine the number of teeth of the large sprocket. The recommended maximum number of teeth is 114 or less.

**Table 1: Service Factor**

| Type of Impact | Examples of Machines                                                                                       | Type of Impact Power                  |                            |                         |
|----------------|------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|-------------------------|
|                |                                                                                                            | Electric motor or turbine             | Internal Combustion Engine |                         |
|                |                                                                                                            |                                       | With hydraulic drive       | Without hydraulic drive |
| Smooth         | Agitators, Centrifugal Blowers, Textile machines, General machines with small load fluctuation             | KTW1.0NMMXCNNVBCN-MXZMXNCB, CMNBGRNRE | 1.0                        | 1.2                     |
| Moderate       | Centrifugal compressors, Conveyors with moderate load fluctuation, Dryers, General work machines           | 1.3                                   | 1.2                        | 1.4                     |
| Heavy          | Construction or Mining machines, Presses, Vibration machines, General machines with reverse or impact load | 1.5                                   | 1.4                        | 1.7                     |

## 4) Calculate Chain Length

The number of pitches (length of chain) can be obtained by the following formula (Note: Raise the value to a unit to make it an integer.)

$$L_p = \frac{N_1 + N_2 + 2 C_p + \{ (N_2 - N_1) \} / 2 \}}{2}$$

- L: Number of pitches chain  
 N 1: Number of teeth of small sprocket  
 N 2: Number of teeth of large sprocket  
 C: Center distance of two sprockets/Chain Pitch

If the number of pitches is already given, the center distance between the sprockets can be obtained by the following formula:

$$C_p = \frac{1}{4} \left\{ L_p - \frac{N_1 + N_2}{2} + \frac{(L_p \sqrt{N_1 + N_2})^2 - 2 \frac{(N_2 - N_1)^2}{2}}{2} \right\}$$

## 2. Slow Speed Selection

This is one of the economical selection methods based on fatigue strength of chain for conditions where;

- (i) the operational speed of chain is 50 meters / minute or less, and
- (ii) there is no concern of wear elongation and shock fracture of rollers and bushings. However, a chain selected by this method may be subject to severe conditions and, thus, special care should be taken on the chain selection. The slow speed selection is not applicable to the connecting and offset link.

### 1) Calculate Chain Tension

If the chain tension is unknown, it can be obtained by using the following formula with kW of the input power to be transmitted.

$$F = \frac{60 \times kW}{V} \text{ (kN)}$$

- F: Chain Tension  
 V: Chain Speed (m/mm)

### 2) Determine Corrected Chain Tension

Chain tension needs to be corrected as per the conditions of use, in the same way as described in General Selection section. Use Service Factor (Table I ) and then Sprocket Tooth Factor (Table III) and Speed Factor (Table IV) to take into consideration increase of tension caused by vibration, centrifugal force, inertia force, etc.

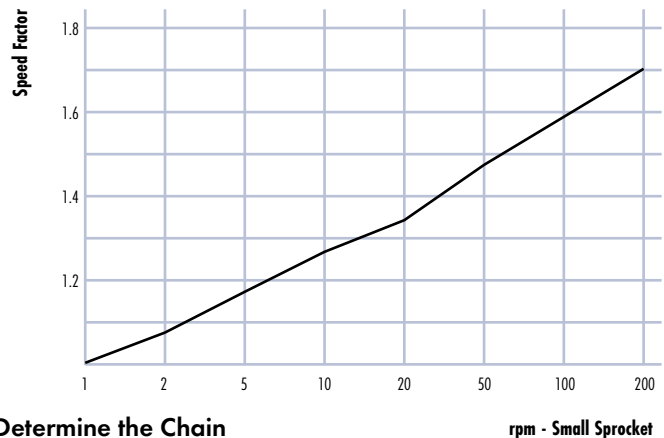
The corrected Chain Tension can be obtained using the following formula:

$$\text{Corrected Chain Tension} = \text{Chain Tension} \times \text{Service Factor} \times \text{Sprocket Teeth Factor} \times \text{Speed Factor}$$

**Table III: Sprocket Tooth Factor**

| Number of Teeth on Small Sprocket | Sprocket Tooth | Number of Teeth on Small Sprocket | Sprocket Tooth |
|-----------------------------------|----------------|-----------------------------------|----------------|
| 9                                 | 1.085          | 19                                | 1.022          |
| 11                                | 1.068          | 21                                | 1.014          |
| 13                                | 1.054          | 23                                | 1.007          |
| 15                                | 1.042          | 25 or over                        | 1.000          |
| 17                                | 1.031          |                                   |                |

**Table IV: Speed Factor**



### 3) Determine the Chain

If the maximum allowable tension stated in the table of each chain dimensions is larger than the corrected chain tension, the chain is selected correctly.

### 4) Check Chain Speed

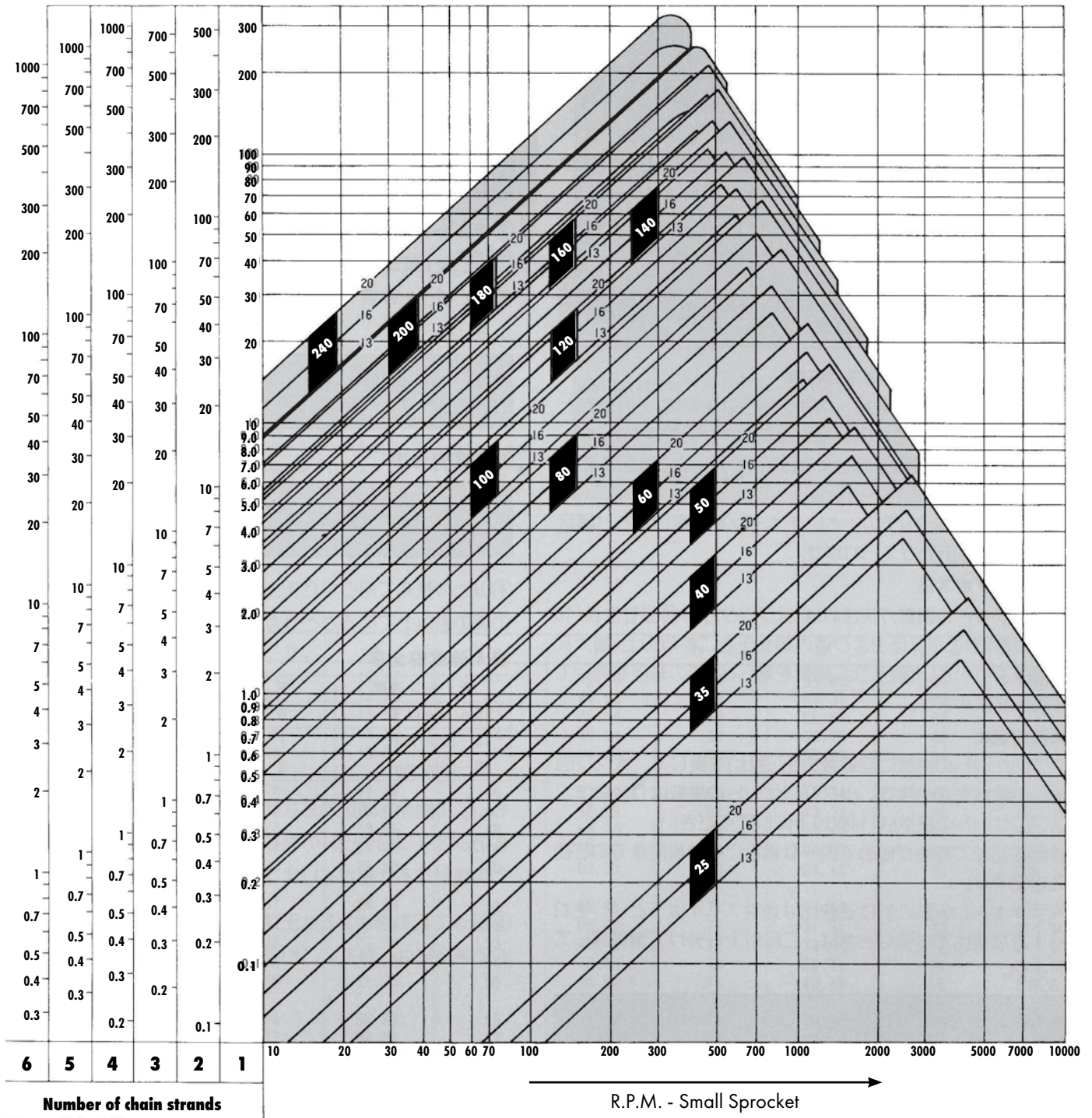
The chain speed can be calculated using the formula below. If the chain speed exceeds 50m/min., choose General Selection instead of Slow-speed Selection.

$$V = \frac{P \times N_1 \times r_1}{1000}$$

- V : Chain Speed (m/min)  
 P : Chain Pitch (mm)  
 N1: Teeth of small sprocket  
 r1: Revolution of Small Sprocket (RPM)

The method for determining the number of teeth of large sprocket and calculation of chain length is the same as those described at General Selection section.

Consult with Connexus service center for chain for use on  
 (i) transmission of frequent go & stop, and (2) inversion with impact load.



## How to use this table:

For easy selection of chain and sprocket, check the intersection of revolution per minute (RPM) of design **kW (vertical axis)** and the small sprocket (horizontal axis).

### Example:

Assume design kW is **5kW** and the RPM of the small sprocket is **100**.

By taking the intersection point of this design kW value of 5kW and RPM value is 100, one can derive **# 80 ANSI chain and a sprocket of 16 Teeth** from the chart.

## 4) Calculate Chain Length

The number of pitches (length of chain) can be obtained by the following formula (Note: Raise the value to a unit to make it an integer.)

$$L_p = \frac{N_1 + N_2}{2} + 2 C_p + \left\{ \frac{(N_2 - N_1)^2}{4} \right\}$$

- L: Number of pitches chain  
 N 1: Number of teeth of small sprocket  
 N 2: Number of teeth of large sprocket  
 C: Center distance of two sprockets/Chain Pitch

If the number of pitches is already given, the center distance between the sprockets can be obtained by the following formula:

$$C_p = \frac{1}{4} \left\{ L_p - \frac{N_1 + N_2}{2} + \sqrt{\left( L_p - \frac{N_1 + N_2}{2} \right)^2 - \frac{(N_2 - N_1)^2}{4}} \right\}$$

## 2. Slow Speed Selection

This is one of the economical selection methods based on fatigue strength of chain for conditions where;

- (i) the operational speed of chain is 50 meters / minute or less, and
- (ii) there is no concern of wear elongation and shock fracture of rollers and bushings. However, a chain selected by this method may be subject to severe conditions and, thus, special care should be taken on the chain selection. The slow speed selection is not applicable to the connecting and offset link.

### 1) Calculate Chain Tension

If the chain tension is unknown, it can be obtained by using the following formula with kW of the input power to be transmitted.

$$F = \frac{60 \times kW}{V} \quad (\text{kN})$$

- F: Chain Tension  
 V: Chain Speed (m/min)

### 2) Determine Corrected Chain Tension

Chain tension needs to be corrected as per the conditions of use, in the same way as described in General Selection section. Use Service Factor (Table I) and then Sprocket Tooth Factor (Table III) and Speed Factor (Table IV) to take into consideration increase of tension caused by vibration, centrifugal force, inertia force, etc.

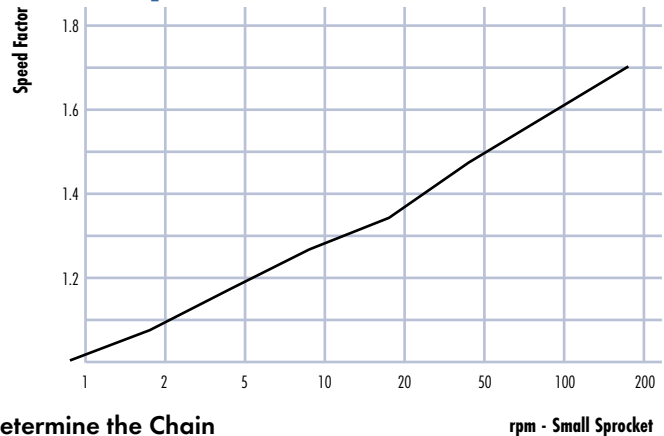
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| 15                                | 1.042          | 25 or over                        | 1.000          |
| 17                                | 1.031          |                                   |                |

**Table IV: Speed Factor**



### 3) Determine the Chain

If the maximum allowable tension stated in the table of each chain dimensions is larger than the corrected chain tension, the chain is selected correctly.

### 4) Check Chain Speed

The chain speed can be calculated using the formula below. If the chain speed exceeds 50m/min., choose General Selection instead of Slow-speed Selection.

$$V = \frac{P \times N_1 \times r_1}{1000}$$

- V: Chain Speed (m/min)  
 P: Chain Pitch (mm)  
 N1: Teeth of small sprocket  
 r1: Revolution of Small Sprocket (RPM)

The method for determining the number of teeth of large sprocket and calculation of chain length is the same as those described at General Selection section.

Consult with CONNEXUS service center for chain for use on (i) transmission of frequent go & stop, and (2) inversion with impact load.



## WARNING

### **Safety Precautions in installing, removing, lubricating or servicing a chain system:**

- There should be guards provided on all chain and sprocket installations in accordance with existing applicable safety standards.
- Take care that power is turned off before installing, removing, lubricating or servicing a chain system.
- Always wear safety glasses to prevent injury to eyes.
- Wear appropriate protective clothing; i.e., hats, gloves and safety shoes.
- Always be sure to have properly working tools and follow directions for their proper use.
- Always loosen tensioning devices.
- Always support the chain to prevent uncontrolled movement of the chain and/or parts.
- Discard damaged chain or parts and do not attempt to re-use chain or parts or their individual components.
- Failure to use these safety instructions may result in serious injury or death.

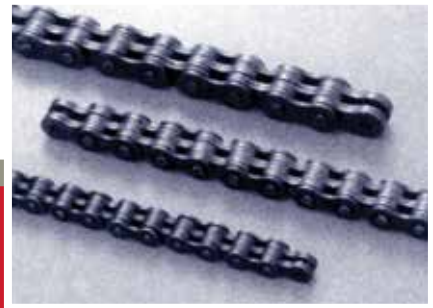
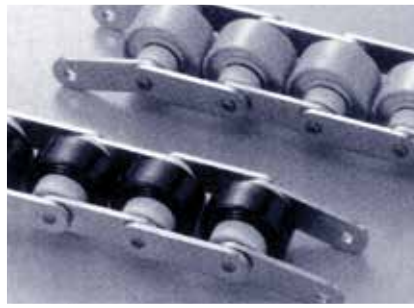
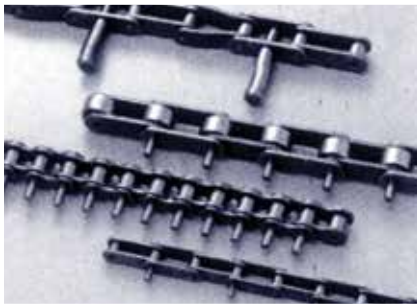
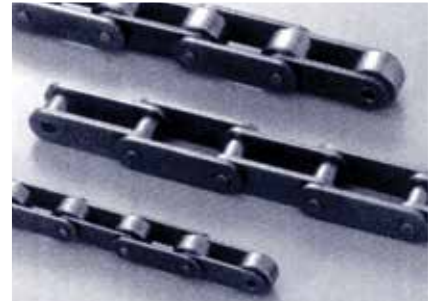
### **Limited Warranty Disclaimer and Exclusions**

The seller warrants that the Goods and/or Service will be free from defects in material workmanship for a period of three months from date of delivery, or an agreed upon established time period at time of order.

The sole obligation of CONNEXUS INDUSTRIES INC. or any associated companies here after called "The Company", under this Limited Warranty shall be to repair or replace or have it's Authorized Distributor repair or replace any defective products within 45 business days of a complaint communicated in writing to "The Company". Except as expressly provided herein, "The Company" shall not liable for the breach of any warranty, express or implied, including without liability arising out of merchantability of fitness for a particular purpose, or for any damages or other liability arising out of or in connection with customers' use of supplier products or "The Company" or the authorized distributor designing, manufacturing or selling supplied products. In no event shall "The Company" be liable for direct, special, incidental or consequential damages, including without limitation lost sales or profit, lost production or output, injury to property or reputation, or any other damages whether arising in contract or tort or otherwise (whether or not attributable to the fault or negligence of "The Company"). Under no circumstances shall any recovery of any kind against "The Company" be greater in amount than the price of the products and/or service to end user.

**NOTE:** Products that have been modified and/or altered from their original state without expressed written consent of "The Companies" Representative shall void this and any other warranty written or expressed. All returned materials shall be evaluated by "The Companies" engineering and sales staff prior to credit and rework. Product being returned for evaluation must include a valid "Returned Goods Authorization" number (RGA#) RGA Number added as a procedure with ISO 9001.2008 Certification Oct 19, 2015.

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