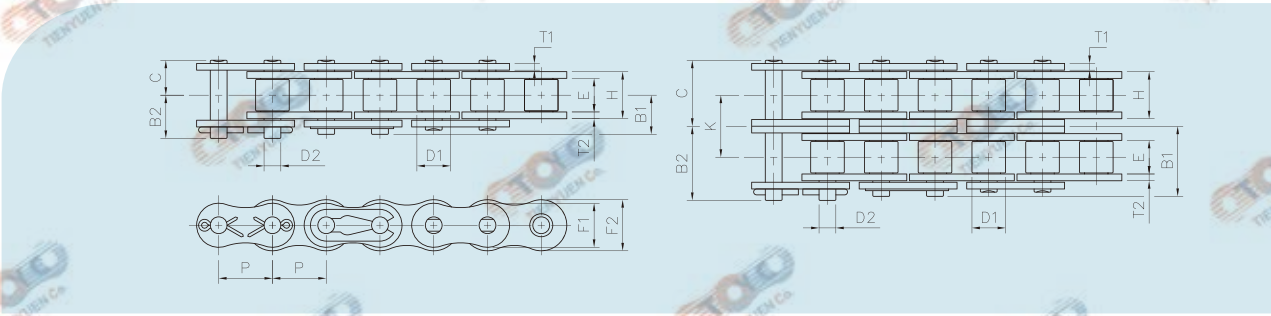


# HEAVY DUTY CHAIN

## ANSI STANDARD



Single Strand

| Chain No. | Pitch x Width   |               | Roller | Pin   |       |       |       | Link  |       |       |       |       | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|-----------------|---------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|----------------|
|           | P x E           |               | D1     | C     | B1    | B2    | D2    | T1    | T2    | H     | F1    | F2    | kgf                         | kg / m         |
|           | inch            | mm            | mm     | mm    | mm    | mm    | mm    | mm    | mm    | mm    | mm    | mm    |                             |                |
| 25H       | 1/4 x 1/8       | 6.35 x 3.18   | 3.30   | 4.41  | 15.31 | -     | 2.31  | 1.02  | 1.02  | 5.26  | 5.01  | 5.81  | 520                         | 0.16           |
| 40H       | 1/2 x 5/16      | 12.70 x 7.92  | 7.92   | 9.17  | 11.57 | 11.57 | 3.98  | 2.03  | 2.03  | 12.20 | 10.41 | 12.06 | 2,450                       | 0.74           |
| 50H       | 5/8 x 3/8       | 15.88 x 9.52  | 10.16  | 11.05 | 12.05 | 13.35 | 5.09  | 2.39  | 2.39  | 14.55 | 13.01 | 15.08 | 3,700                       | 1.14           |
| 60H       | 3/4 x 1/2       | 19.05 x 12.70 | 11.91  | 14.40 | 15.70 | 16.90 | 5.96  | 3.18  | 3.18  | 19.43 | 15.64 | 18.09 | 5,400                       | 1.73           |
| 80H       | 1 x 5/8         | 25.40 x 15.88 | 15.88  | 18.15 | 20.15 | 22.55 | 7.94  | 3.96  | 3.96  | 24.28 | 20.82 | 24.13 | 9,750                       | 2.97           |
| 100H      | 1-1/4 x 3/4     | 31.75 x 19.05 | 19.05  | 21.84 | -     | 25.34 | 9.54  | 4.75  | 4.75  | 29.10 | 26.03 | 30.16 | 13,800                      | 4.49           |
| 120H      | 1-1/2 x 1       | 38.10 x 25.40 | 22.23  | 27.23 |       | 32.13 | 11.11 | 5.56  | 5.56  | 37.18 | 31.24 | 36.19 | 18,800                      | 6.26           |
| 140H      | 1-3/4 x 1       | 44.45 x 25.40 | 25.40  | 29.07 |       | 34.17 | 12.71 | 6.35  | 6.35  | 38.86 | 36.44 | 42.22 | 24,900                      | 8.15           |
| 160H      | 2 x 1-1/4       | 50.80 x 31.75 | 28.58  | 34.01 |       | 39.26 | 14.29 | 7.14  | 7.14  | 46.88 | 41.65 | 48.26 | 31,200                      | 10.58          |
| 180H      | 2-1/4 x 1-13/32 | 57.15 x 35.71 | 35.71  | 38.64 |       | 44.14 | 17.46 | 7.92  | 7.92  | 52.50 | 46.86 | 54.29 | 44,200                      | 13.70          |
| 200H      | 2-1/2 x 1-1/2   | 63.50 x 38.10 | 39.68  | 43.57 |       | 49.12 | 19.85 | 9.53  | 9.53  | 58.29 | 52.07 | 60.32 | 51,600                      | 19.10          |
| 240H      | 3 x 1-7/8       | 76.20 x 47.63 | 47.63  | 54.75 |       | 64.35 | 23.81 | 12.70 | 12.70 | 74.54 | 62.48 | 72.39 | 95,500                      | 29.55          |

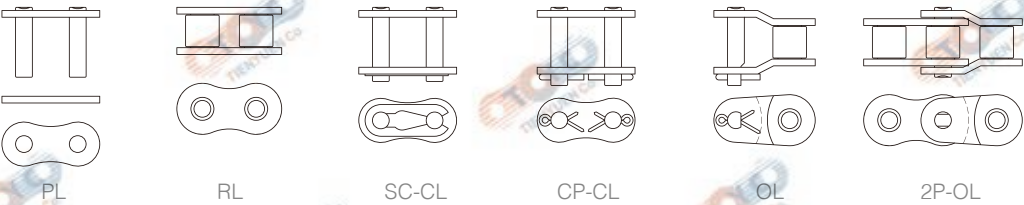
Double Strand

| Chain No. | Pin    |       |        |       | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|--------|-------|--------|-------|----------------|-----------------------------|----------------|
|           | C      | B1    | B2     | D2    | K              | kgf                         | kg / m         |
|           | mm     | mm    | mm     | mm    | mm             |                             |                |
| 60H-2     | 27.55  | 28.75 | 29.75  | 5.96  | 26.11          | 10,800                      | 3.43           |
| 80H-2     | 34.75  | 36.25 | 38.65  | 7.94  | 32.59          | 19,500                      | 5.91           |
| 100H-2    | 41.59  | -     | 44.78  | 9.54  | 39.09          | 27,600                      | 8.75           |
| 120H-2    | 52.03  |       | 56.73  | 11.11 | 48.87          | 37,600                      | 12.50          |
| 140H-2    | 55.17  |       | 60.17  | 12.71 | 52.20          | 49,800                      | 16.20          |
| 160H-2    | 64.96  |       | 70.21  | 14.29 | 61.90          | 62,400                      | 21.09          |
| 180H-2    | 73.19  |       | 84.99  | 17.46 | 69.16          | 88,400                      | 27.10          |
| 200H-2    | 82.72  |       | 88.27  | 19.85 | 78.31          | 103,200                     | 37.90          |
| 240H-2    | 105.36 |       | 114.96 | 23.81 | 101.22         | 191,000                     | 58.15          |

Triple Strand

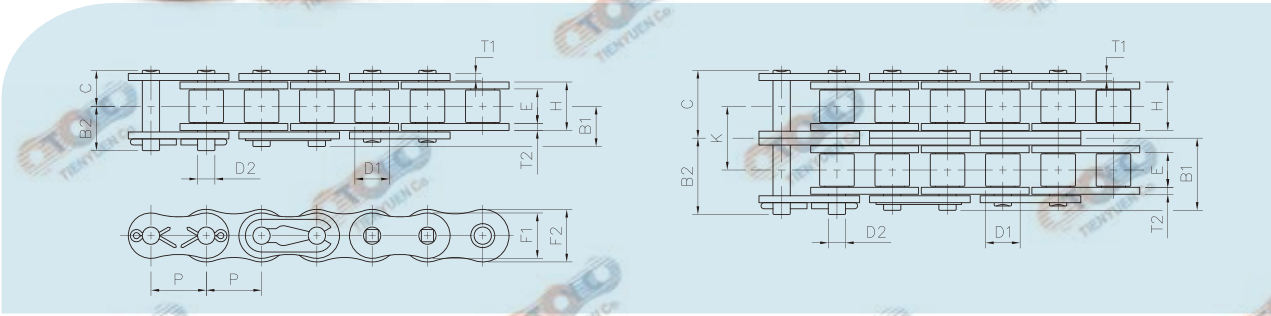
| Chain No. | Pin    |       |        |       | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|--------|-------|--------|-------|----------------|-----------------------------|----------------|
|           | C      | B1    | B2     | D2    | K              | kgf                         | kg / m         |
|           | mm     | mm    | mm     | mm    | mm             |                             |                |
| 60H-3     | 40.60  | 41.80 | 42.80  | 5.96  | 26.11          | 16,200                      | 5.11           |
| 80H-3     | 51.04  | 52.54 | 54.94  | 7.94  | 32.59          | 29,250                      | 8.78           |
| 100H-3    | 61.13  | -     | 64.32  | 9.54  | 39.09          | 41,400                      | 13.01          |
| 120H-3    | 76.46  |       | 81.16  | 11.11 | 48.87          | 56,400                      | 18.74          |
| 140H-3    | 81.27  |       | 86.27  | 12.71 | 52.20          | 74,700                      | 24.25          |
| 160H-3    | 95.91  |       | 101.16 | 14.29 | 61.90          | 93,600                      | 31.39          |
| 180H-3    | 107.77 |       | 119.57 | 17.46 | 69.16          | 132,600                     | 40.50          |
| 200H-3    | 121.88 |       | 127.43 | 19.85 | 78.31          | 154,800                     | 56.70          |
| 240H-3    | 155.97 |       | 165.57 | 23.81 | 101.22         | 286,500                     | 86.65          |

1. For chain size 25H, D1 is bush diameter
2. Riveted and cottered type chains are both available



# SUPER SERIES CHAIN

## ANSI STANDARD



Single Strand

| Chain No. | Pitch x Width   |               | Roller | Pin   |       |       |       | Link |      |       |       |       | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|-----------------|---------------|--------|-------|-------|-------|-------|------|------|-------|-------|-------|-----------------------------|----------------|
|           | P x E           |               | D1     | C     | B1    | B2    | D2    | T1   | T2   | H     | F1    | F2    | kgf                         | kg / m         |
|           | inch            | mm            | mm     | mm    | mm    | mm    | mm    | mm   | mm   | mm    | mm    | mm    |                             |                |
| 40S       | 1/2 x 5/16      | 12.70 x 7.92  | 7.92   | 8.22  | 10.32 | 10.32 | 3.98  | 1.52 | 1.52 | 11.17 | 10.41 | 12.06 | 2,000                       | 0.66           |
| 50S       | 5/8 x 3/8       | 15.88 x 9.52  | 10.16  | 10.15 | 12.40 | 12.40 | 5.09  | 2.03 | 2.03 | 13.84 | 13.01 | 15.08 | 3,200                       | 1.08           |
| 60S       | 3/4 x 1/2       | 19.05 x 12.70 | 11.91  | 12.72 | 15.27 | 15.27 | 5.96  | 2.39 | 2.39 | 17.75 | 15.64 | 18.09 | 4,400                       | 1.55           |
| 80S       | 1 x 5/8         | 25.40 x 15.88 | 15.88  | 16.50 | 20.40 | 20.40 | 7.94  | 3.18 | 3.18 | 22.60 | 20.82 | 24.13 | 8,400                       | 2.71           |
| 100S      | 1-1/4 x 3/4     | 31.75 x 19.05 | 19.05  | 19.84 | -     | 24.14 | 9.54  | 3.96 | 3.96 | 27.45 | 26.03 | 30.16 | 13,300                      | 4.11           |
| 120S      | 1-1/2 x 1       | 38.10 x 25.40 | 22.23  | 25.53 |       | 29.83 | 11.11 | 4.75 | 4.75 | 35.45 | 31.24 | 36.19 | 18,400                      | 5.99           |
| 140S      | 1-3/4 x 1       | 44.45 x 25.40 | 25.40  | 27.27 |       | 32.17 | 12.71 | 5.56 | 5.56 | 37.18 | 36.44 | 42.22 | 24,200                      | 7.70           |
| 160S      | 2 x 1-1/4       | 50.80 x 31.75 | 28.58  | 32.76 |       | 37.06 | 14.29 | 6.35 | 6.35 | 45.21 | 41.65 | 48.26 | 31,500                      | 9.69           |
| 180S      | 2-1/4 x 1-13/32 | 57.15 x 35.71 | 35.71  | 36.64 |       | 42.14 | 17.46 | 7.14 | 7.14 | 50.85 | 46.86 | 54.29 | 38,200                      | 13.30          |
| 200S      | 2-1/2 x 1-1/2   | 63.50 x 38.10 | 39.68  | 40.35 |       | 46.35 | 19.85 | 7.92 | 7.92 | 54.88 | 52.07 | 60.32 | 50,000                      | 16.99          |
| 240S      | 3 x 1-7/8       | 76.20 x 47.63 | 47.63  | 49.35 |       | 55.35 | 23.81 | 9.53 | 9.53 | 67.81 | 62.48 | 72.39 | 74,000                      | 24.40          |

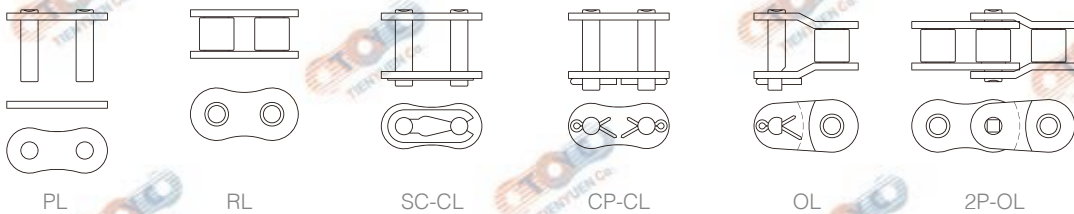
Double Strand

| Chain No. | Pin   |       |       | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|-------|-------|-------|----------------|-----------------------------|----------------|
|           | C     | B1    | B2    | K              | kgf                         | kg/m           |
|           | mm    | mm    | mm    | mm             |                             |                |
| 40S-2     | 15.41 | 17.51 | 17.51 | 14.38          | 4,000                       | 1.22           |
| 50S-2     | 19.21 | 21.46 | 21.46 | 18.11          | 6,400                       | 2.14           |
| 60S-2     | 24.11 | 26.66 | 26.66 | 22.78          | 8,800                       | 3.09           |
| 80S-2     | 31.15 | 35.05 | 35.05 | 29.29          | 16,800                      | 5.40           |
| 100S-2    | 37.72 | -     | 42.02 | 35.76          | 26,600                      | 8.15           |
| 120S-2    | 48.25 |       | 52.55 | 45.44          | 36,800                      | 11.91          |
| 140S-2    | 51.71 |       | 56.61 | 48.87          | 48,400                      | 15.35          |
| 160S-2    | 62.04 |       | 66.34 | 58.55          | 63,000                      | 19.23          |
| 180S-2    | 69.56 |       | 75.06 | 65.84          | 76,400                      | 26.41          |
| 200S-2    | 76.13 |       | 82.13 | 71.55          | 100,000                     | 33.94          |
| 240S-2    | 93.27 |       | 99.27 | 87.83          | 148,000                     | 48.40          |

Triple Strand

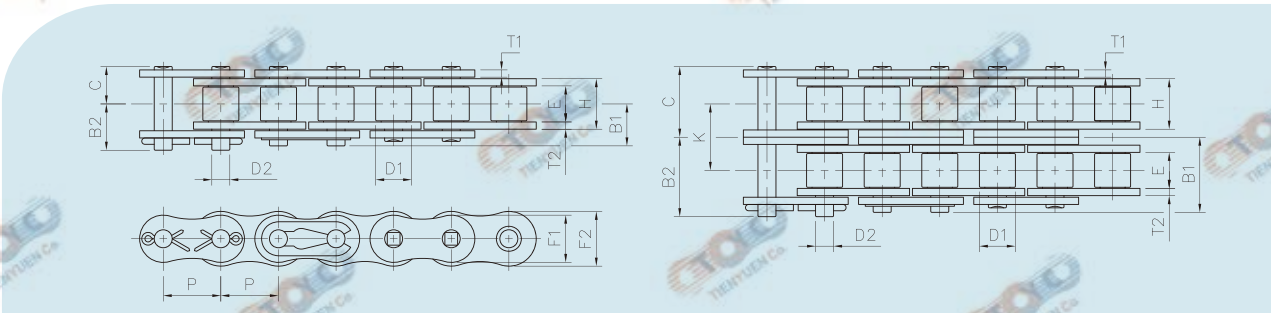
| Chain No. | Pin    |       |        | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|--------|-------|--------|----------------|-----------------------------|----------------|
|           | C      | B1    | B2     | K              | kgf                         | kg / m         |
|           | mm     | mm    | mm     | mm             |                             |                |
| 40S-3     | 22.60  | 24.70 | 24.70  | 14.38          | 6,000                       | 1.87           |
| 50S-3     | 28.26  | 30.51 | 30.51  | 18.11          | 9,600                       | 3.22           |
| 60S-3     | 35.50  | 38.05 | 38.05  | 22.78          | 13,200                      | 4.62           |
| 80S-3     | 45.79  | 49.69 | 49.69  | 29.29          | 25,200                      | 8.08           |
| 100S-3    | 55.60  | -     | 59.90  | 35.76          | 39,900                      | 12.21          |
| 120S-3    | 70.97  |       | 75.27  | 45.44          | 55,200                      | 17.81          |
| 140S-3    | 76.14  |       | 81.04  | 48.87          | 72,600                      | 23.03          |
| 160S-3    | 91.31  |       | 95.61  | 58.55          | 94,500                      | 28.79          |
| 180S-3    | 102.48 |       | 107.98 | 65.84          | 114,600                     | 39.48          |
| 200S-3    | 111.90 |       | 117.90 | 71.55          | 150,000                     | 50.91          |
| 240S-3    | 137.18 |       | 143.18 | 87.83          | 222,000                     | 72.40          |

1. Riveted type and cottered type chains are both available
2. Super series are designed for heavy duty applications. Press-fit connecting links are recommended to be used for better performance
3. Offset links are not recommended to be used



# SUPER HEAVY DUTY CHAIN

## ANSI STANDARD



Single Strand

| Chain No. | Pitch x Width   |               | Roller | Pin   |       |       |       | Link  |       |       |       |       | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|-----------------|---------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|----------------|
|           | P x E           |               | D1     | C     | B1    | B2    | D2    | T1    | T2    | H     | F1    | F2    |                             |                |
|           | inch            | mm            | mm     | mm    | mm    | mm    | mm    | mm    | mm    | mm    | mm    | mm    | kgf                         | kg / m         |
| 50HS      | 5/8 x 3/8       | 15.88 x 9.52  | 10.16  | 11.05 | 12.05 | 13.35 | 5.09  | 2.39  | 2.39  | 14.55 | 13.01 | 15.08 | 4,000                       | 1.17           |
| 60HS      | 3/4 x 1/2       | 19.05 x 12.70 | 11.91  | 14.40 | 15.70 | 16.90 | 5.96  | 3.18  | 3.18  | 19.43 | 15.64 | 18.09 | 5,500                       | 1.75           |
| 80HS      | 1 x 5/8         | 25.40 x 15.88 | 15.88  | 18.15 | 20.15 | 22.55 | 7.94  | 3.96  | 3.96  | 24.28 | 20.82 | 24.13 | 9,900                       | 3.10           |
| 100HS     | 1-1/4 x 3/4     | 31.75 x 19.05 | 19.05  | 21.84 | -     | 25.34 | 9.54  | 4.75  | 4.75  | 29.10 | 26.03 | 30.16 | 14,000                      | 4.58           |
| 120HS     | 1-1/2 x 1       | 38.10 x 25.40 | 22.23  | 27.23 |       | 32.13 | 11.11 | 5.56  | 5.56  | 37.18 | 31.24 | 36.19 | 19,100                      | 6.68           |
| 140HS     | 1-3/4 x 1       | 44.45 x 25.40 | 25.40  | 29.07 |       | 34.17 | 12.71 | 6.35  | 6.35  | 38.86 | 36.44 | 42.22 | 24,900                      | 8.50           |
| 160HS     | 2 x 1-1/4       | 50.80 x 31.75 | 28.58  | 34.01 |       | 39.26 | 14.29 | 7.14  | 7.14  | 46.88 | 41.65 | 48.26 | 32,500                      | 10.58          |
| 180HS     | 2-1/4 x 1-13/32 | 57.15 x 35.71 | 35.71  | 38.64 |       | 44.14 | 17.46 | 7.92  | 7.92  | 52.50 | 46.86 | 54.29 | 44,200                      | 14.39          |
| 200HS     | 2-1/2 x 1-1/2   | 63.50 x 38.10 | 39.68  | 43.57 | -     | 49.12 | 19.85 | 9.53  | 9.53  | 58.29 | 52.07 | 60.32 | 51,600                      | 19.27          |
| 240HS     | 3 x 1-7/8       | 76.20 x 47.63 | 47.63  | 54.75 |       | 64.35 | 23.81 | 12.70 | 12.70 | 74.54 | 62.48 | 72.39 | 95,500                      | 29.55          |

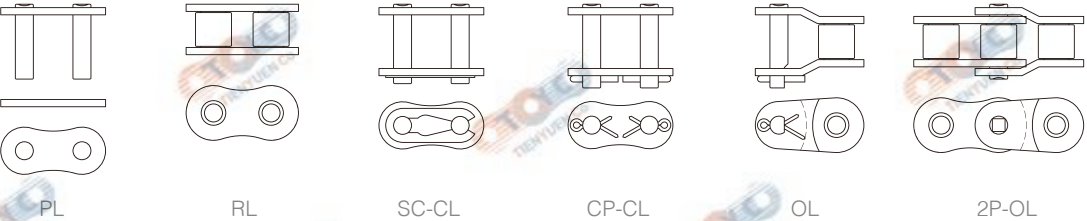
Double Strand

| Chain No. | Pin    |       |        | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|--------|-------|--------|----------------|-----------------------------|----------------|
|           | C      | B1    | B2     | K              |                             |                |
|           | mm     | mm    | mm     | mm             |                             |                |
| 60HS-2    | 27.45  | 28.75 | 29.95  | 26.11          | 11,000                      | 3.45           |
| 80HS-2    | 34.44  | 36.44 | 38.84  | 32.59          | 19,800                      | 6.06           |
| 100HS-2   | 41.38  | -     | 44.88  | 39.09          | 28,000                      | 8.88           |
| 120HS-2   | 51.66  |       | 56.56  | 48.87          | 38,200                      | 12.91          |
| 140HS-2   | 55.17  |       | 60.27  | 52.20          | 49,800                      | 16.55          |
| 160HS-2   | 64.96  |       | 70.21  | 61.90          | 65,000                      | 21.09          |
| 180HS-2   | 73.22  |       | 78.72  | 69.16          | 88,400                      | 28.86          |
| 200HS-2   | 82.73  |       | 88.28  | 78.31          | 103,200                     | 38.21          |
| 240HS-2   | 105.36 |       | 114.96 | 101.22         | 191,000                     | 58.15          |

Triple Strand

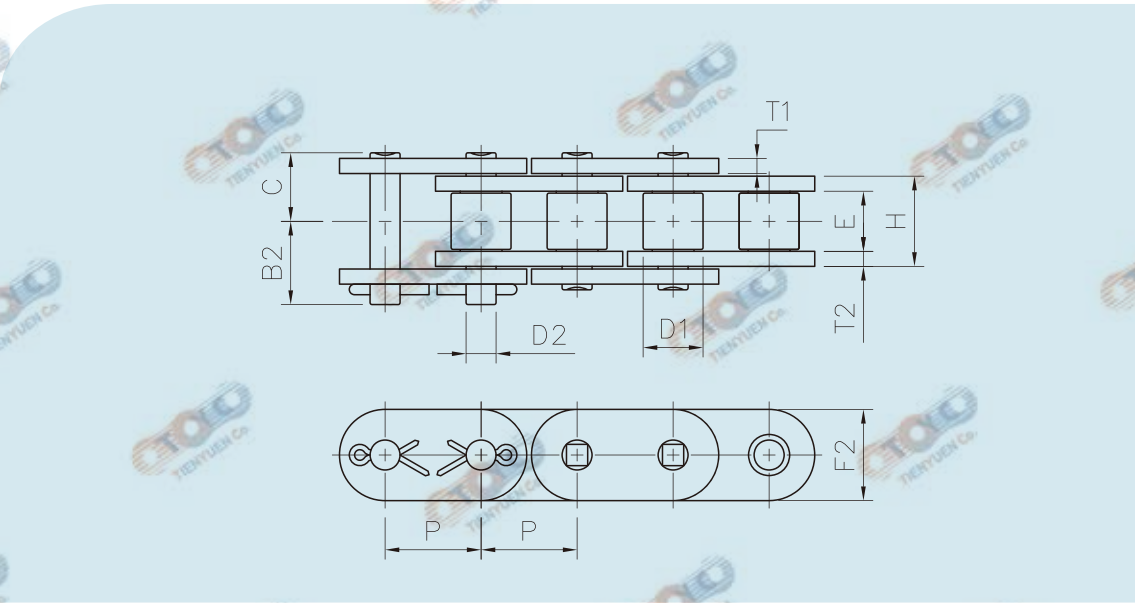
| Chain No. | Pin    |       |        | Traverse Pitch | Avg. Ulti. Tensile Strength | Approx. Weight |
|-----------|--------|-------|--------|----------------|-----------------------------|----------------|
|           | C      | B1    | B2     | K              |                             |                |
|           | mm     | mm    | mm     | mm             |                             |                |
| 60HS-3    | 40.51  | 41.81 | 43.01  | 26.11          | 16,500                      | 5.15           |
| 80HS-3    | 50.74  | 52.74 | 55.14  | 32.59          | 29,700                      | 9.18           |
| 100HS-3   | 60.93  | -     | 64.43  | 39.09          | 42,000                      | 13.18          |
| 120HS-3   | 76.10  |       | 81.00  | 48.87          | 57,300                      | 18.90          |
| 140HS-3   | 81.27  |       | 86.37  | 52.20          | 74,700                      | 24.78          |
| 160HS-3   | 95.91  |       | 101.16 | 61.90          | 97,500                      | 31.39          |
| 180HS-3   | 107.80 |       | 113.30 | 69.16          | 132,600                     | 43.43          |
| 200HS-3   | 121.88 |       | 127.43 | 78.31          | 154,800                     | 57.26          |
| 240HS-3   | 155.97 |       | 165.57 | 101.22         | 286,500                     | 86.65          |

1. Riveted type and cottered type chains are both available
2. Super series are designed for heavy duty applications. Press-fit connecting links are recommended to be used for better performance
3. Offset links are not recommended to be used



# SUPER HEAVY DUTY CHAIN

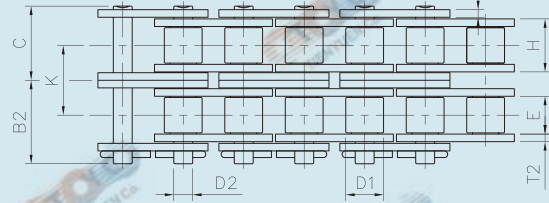
## C-TYPE



| Chain No. | Pitch x Width |               | Roller | Pin   |       |       | Link |      |       |       | Avg. Ult. Tensile Strength | Approx. Weight |
|-----------|---------------|---------------|--------|-------|-------|-------|------|------|-------|-------|----------------------------|----------------|
|           | P x E         |               | D1     | C     | B2    | D2    | T1   | T2   | H     | F2    |                            |                |
|           | inch          | mm            | mm     | mm    | mm    | mm    | mm   | mm   | mm    | mm    | kgf                        | kg / m         |
| C60HS     | 3/4 x 1/2     | 19.05 x 12.70 | 11.91  | 14.40 | 16.90 | 5.96  | 3.18 | 3.18 | 19.43 | 18.09 | 5,700                      | 2.02           |
| C80HS     | 1 x 5/8       | 25.40 x 15.88 | 15.88  | 18.15 | 22.55 | 7.94  | 3.96 | 3.96 | 24.28 | 24.13 | 10,200                     | 3.23           |
| C100HS    | 1-1/4 x 3/4   | 31.75 x 19.05 | 19.05  | 21.84 | 25.34 | 9.54  | 4.75 | 4.75 | 29.10 | 30.16 | 14,800                     | 4.78           |
| C120HS    | 1-1/2 x 1     | 38.10 x 25.40 | 22.23  | 27.23 | 32.13 | 11.11 | 5.56 | 5.56 | 37.18 | 36.19 | 20,000                     | 6.97           |
| C140HS    | 1-3/4 x 1     | 44.45 x 25.40 | 25.40  | 29.07 | 34.17 | 12.71 | 6.35 | 6.35 | 38.86 | 42.22 | 26,100                     | 8.92           |
| C160HS    | 2 x 1-1/4     | 50.80 x 31.75 | 28.58  | 34.01 | 39.26 | 14.29 | 7.14 | 7.14 | 46.88 | 48.26 | 33,000                     | 11.03          |

1. Chains are available in both riveted and cottered style
2. Super series are designed for heavy duty applications. Press-fit connecting links are recommended to be used for better performance
3. Offset links are not recommended to be used

## API SERIES CHAIN



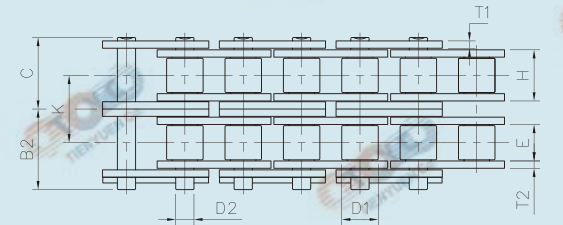
Chains are available in both riveted and cottered style



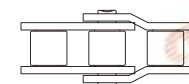
2P-OL



## 53

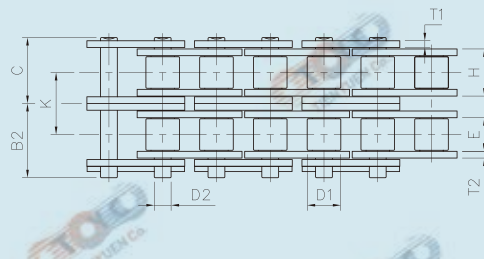
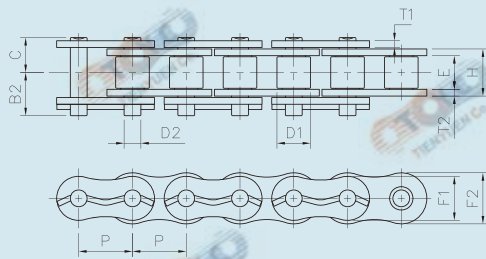


1. Chains are available in both riveted and cottered style
2. 264 is not API 7F standard size, it follows factory standard



2P-OL

# API SERIES HEAVY DUTY CHAIN

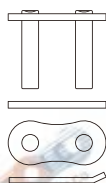


| Chain No.  | Pitch x Width   |               | Roller  | Pin         |               |         | Link  |       |       |       |       | Average Pitch | Avg. Ult. Tensile Strength | Approx. Weight |          |
|------------|-----------------|---------------|---------|-------------|---------------|---------|-------|-------|-------|-------|-------|---------------|----------------------------|----------------|----------|
|            | P x E           |               |         | C           | B2            | D2      | T1    | T2    | H     | F1    | F2    |               |                            |                |          |
|            | inch            | mm            |         |             |               |         |       |       |       |       |       |               |                            |                | D1<br>mm |
| 80H-API-1  | 1 x 5/8         | 25.40 x 15.88 | 15.88   | 18.15       | 22.55         | 7.94    | 3.96  | 3.96  | 24.28 | 20.82 | 24.13 | 32.59         | -                          | 9,900          | 3.10     |
| 80H-API-2  |                 |               |         | 34.75       | 38.65         |         |       |       |       |       |       |               | 19,800                     | 6.06           |          |
| 80H-API-3  |                 |               |         | 51.05       | 54.95         |         |       |       |       |       |       |               | 29,700                     | 9.18           |          |
| 80H-API-4  |                 |               |         | 60.75       | 77.85         |         |       |       |       |       |       |               | 39,600                     | 12.24          |          |
| 80H-API-5  |                 |               |         | 83.65       | 87.55         |         |       |       |       |       |       |               | 49,500                     | 15.31          |          |
| 80H-API-6  |                 |               |         | 99.95       | 103.85        |         |       |       |       |       |       |               | 59,400                     | 18.36          |          |
| 80H-API-8  |                 |               |         | 132.55      | 136.45        |         |       |       |       |       |       |               | 79,200                     | 24.48          |          |
| 100H-API-1 |                 |               |         | 1-1/4 x 3/4 | 31.75 x 19.05 |         |       |       |       |       |       |               | 19.05                      | 21.84          | 25.34    |
| 100H-API-2 | 41.59           | 44.78         | 28,000  |             |               | 8.88    |       |       |       |       |       |               |                            |                |          |
| 100H-API-3 | 60.87           | 64.61         | 42,000  |             |               | 13.18   |       |       |       |       |       |               |                            |                |          |
| 100H-API-4 | 80.41           | 84.16         | 56,000  |             |               | 17.48   |       |       |       |       |       |               |                            |                |          |
| 100H-API-5 | 99.81           | 103.86        | 70,000  |             |               | 21.78   |       |       |       |       |       |               |                            |                |          |
| 100H-API-6 | 119.36          | 112.88        | 84,000  |             |               | 26.08   |       |       |       |       |       |               |                            |                |          |
| 100H-API-8 | 158.46          | 162.51        | 112,000 |             |               | 34.68   |       |       |       |       |       |               |                            |                |          |
| 120H-API-1 | 1-1/2 x 1       | 38.10 x 25.40 | 22.23   |             |               | 27.23   | 32.13 | 11.11 | 5.56  | 5.56  | 37.18 | 31.24         |                            | 36.19          | 48.87    |
| 120H-API-2 |                 |               |         | 51.93       | 54.38         | 38,200  | 12.91 |       |       |       |       |               |                            |                |          |
| 120H-API-3 |                 |               |         | 76.36       | 81.26         | 57,300  | 18.90 |       |       |       |       |               |                            |                |          |
| 120H-API-4 |                 |               |         | 100.80      | 105.70        | 76,400  | 24.89 |       |       |       |       |               |                            |                |          |
| 120H-API-5 |                 |               |         | 125.23      | 130.13        | 95,500  | 30.88 |       |       |       |       |               |                            |                |          |
| 120H-API-6 |                 |               |         | 149.67      | 154.57        | 114,600 | 36.87 |       |       |       |       |               |                            |                |          |
| 120H-API-8 |                 |               |         | 198.54      | 203.44        | 152,800 | 48.85 |       |       |       |       |               |                            |                |          |
| 140H-API-1 |                 |               |         | 1-3/4 X 1   | 44.45 X 25.40 | 25.40   | 29.07 |       |       |       |       |               | 34.17                      |                |          |
| 140H-API-2 | 55.17           | 60.17         | 49,800  |             |               |         | 16.55 |       |       |       |       |               |                            |                |          |
| 140H-API-3 | 81.27           | 86.37         | 74,700  |             |               |         | 24.78 |       |       |       |       |               |                            |                |          |
| 140H-API-4 | 107.37          | 112.47        | 99,600  |             |               |         | 33.02 |       |       |       |       |               |                            |                |          |
| 140H-API-5 | 133.32          | 143.55        | 124,500 |             |               |         | 41.24 |       |       |       |       |               |                            |                |          |
| 140H-API-6 | 159.42          | 174.64        | 149,400 |             |               |         | 49.47 |       |       |       |       |               |                            |                |          |
| 140H-API-8 | 211.62          | 217.02        | 199,200 |             |               |         | 65.95 |       |       |       |       |               |                            |                |          |
| 160H-API-1 | 2 x 1-1/4       | 50.80 x 31.75 | 28.58   |             |               |         | 34.01 | 39.26 | 14.29 | 7.14  | 7.14  | 46.88         | 41.65                      | 48.26          | 61.90    |
| 160H-API-2 |                 |               |         | 64.96       | 70.21         | 65,000  | 21.09 |       |       |       |       |               |                            |                |          |
| 160H-API-3 |                 |               |         | 95.91       | 101.16        | 97,500  | 31.39 |       |       |       |       |               |                            |                |          |
| 160H-API-4 |                 |               |         | 126.86      | 132.11        | 130,000 | 41.69 |       |       |       |       |               |                            |                |          |
| 160H-API-5 |                 |               |         | 157.81      | 163.06        | 162,500 | 51.99 |       |       |       |       |               |                            |                |          |
| 160H-API-6 |                 |               |         | 188.76      | 194.01        | 195,000 | 62.29 |       |       |       |       |               |                            |                |          |
| 180H-API-1 | 2-1/2 x 1-13/32 | 57.15 x 35.71 | 35.71   | 38.64       | 44.14         | 17.46   | 7.92  | 7.92  | 52.50 | 46.86 | 54.29 | 69.16         | -                          | 44,200         | 14.39    |
| 180H-API-2 |                 |               |         | 73.19       | 78.69         |         |       |       |       |       |       |               | 88,400                     | 28.86          |          |
| 180H-API-3 |                 |               |         | 107.77      | 113.27        |         |       |       |       |       |       |               | 132,600                    | 43.43          |          |
| 180H-API-4 |                 |               |         | 142.35      | 147.88        |         |       |       |       |       |       |               | 176,800                    | 57.78          |          |
| 200H-API-1 | 2-1/2 x 1-1/2   | 63.50 x 38.10 | 39.68   | 43.57       | 49.12         | 19.85   | 9.53  | 9.53  | 58.29 | 52.07 | 60.32 | 78.31         | -                          | 51,600         | 19.27    |
| 200H-API-2 |                 |               |         | 82.72       | 88.27         |         |       |       |       |       |       |               | 103,200                    | 38.21          |          |
| 200H-API-3 |                 |               |         | 121.87      | 127.42        |         |       |       |       |       |       |               | 154,800                    | 57.26          |          |
| 200H-API-4 |                 |               |         | 161.00      | 166.60        |         |       |       |       |       |       |               | 206,400                    | 76.31          |          |

Chains are available in both riveted and cottered style



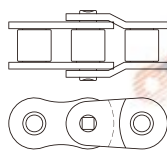
RL



CP-CL



OL



2P-OL