

How Are Roller Chains Manufactured?

All parts of Roller Chains are subjected to elaborate machining, heat treatment, grinding and assembling and delivered to the customers.

The parts are manufactured as follows.

● Rollers

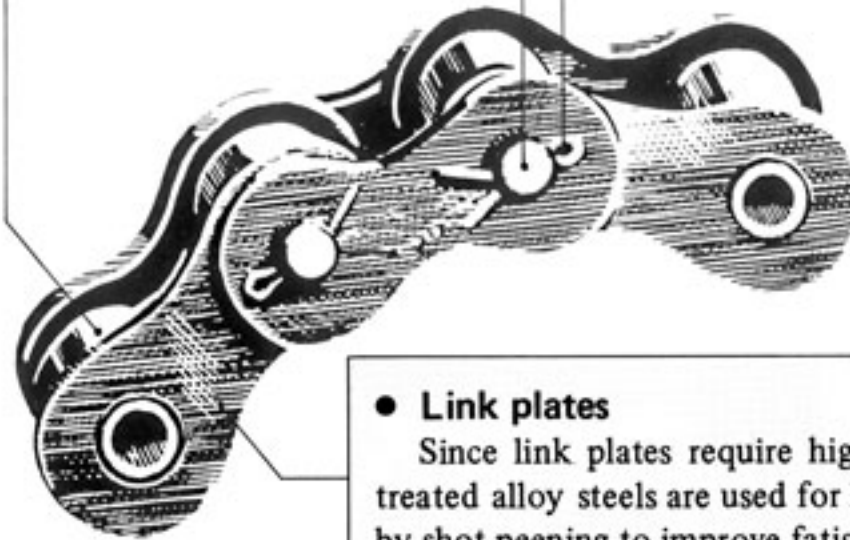
Rollers should not only have excellent wear-resistance but rigidity; therefore, hardened alloy steels are used as the material for rollers. They are subjected to shot peening to improve fatigue-resistance.

● Pins

Since pins require high wear-resistance and toughness, case hardening alloy steels, which are rigorously selected, are used as the material for pins after they are surface-hardened and ground.

● Bushings

Since bushing require wear-resistance, case hardening alloy steels, whose external and internal surfaces are hardened, are used as the material for bushings which are accurately set into the link plates.



● Link plates

Since link plates require high tensile strength, heat-treated alloy steels are used for link plates and processed by shot peening to improve fatigue-resistance.

Connecting Link and Offset Link

1. Connecting links are inserted between sections (10 feet) of the Power Transmission Roller Chains.
2. Offset links are used to adjust the length of the chain.
3. When using the offset links to perform power transmission at high speeds or heavy-duty power transmission, 2-pitch offset links must be used. The fatigue limit of the 1-pitch offset link may be reduced to 65 to 75%.



Single Strand Connecting Link (spring clip type)



Single Strand Connecting Link



Double Strands Connecting Link



Single Strand Offset Link



Double Strands Offset Link



2-Pitch Offset Link

DRIVE CHAINS AMERICAN STANDARD ROLLER CHAINS-SINGLE STRAND

ANSI STANDARD ROLLER CHAINS

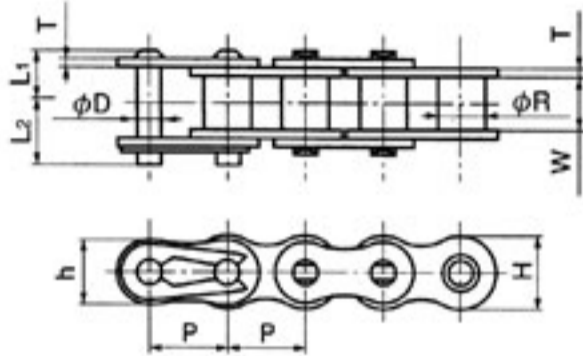
Single and Multiple Strand Standard Roller Chains conform to the ANSI (American National Standards Institute) and are interchangeable with other chains conforming to ANSI Standards.



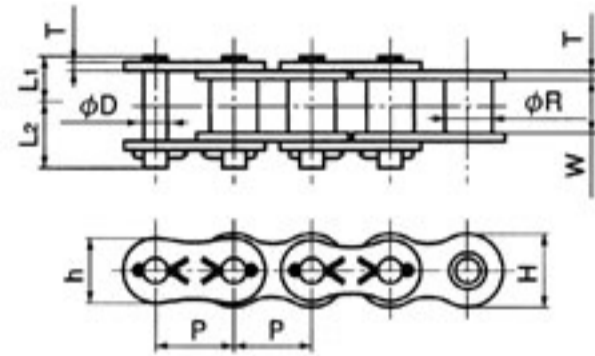
RIVETED TYPE



COTTERED TYPE



RIVETED TYPE



COTTERED TYPE

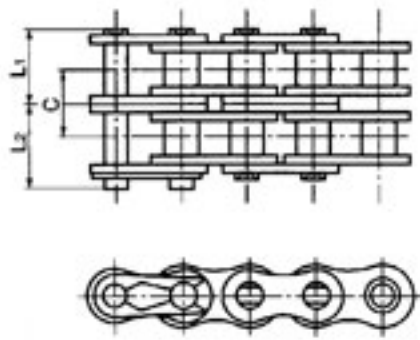
Dimensions-mm

| Chain No. | Ansi No. | Pitch P | Roller Dia. R | Width Between Roller Link Plates W | Link Plate | | | Pin | | | Average Tensile Strength kN(kgf) | Maximum Allowable Load kN(kgf) | Approx Weight kg/m | Number of Links per unit |
|-----------|----------|------------|------------------|---------------------------------------|----------------|-------------|-------------|-----------|-----------------------------|----------------------------|-------------------------------------|-----------------------------------|-----------------------|-----------------------------|
| | | | | | Thickness T | Height H | Height h | Dia. D | From Pin Head to C.L. L1 | From Pin End to C.L. L2 | | | | |
| RS25 | 25 | 6.35 | *3.30 | 3.18 | 0.75 | 5.84 | 5.05 | 2.31 | 3.80 | 4.80 | 4.71 (480) | 0.64 (65) | 0.14 | 160 |
| RS35 | 35 | 9.525 | *5.08 | 4.78 | 1.25 | 9.0 | 7.8 | 3.59 | 5.85 | 6.85 | 11.3 (1,150) | 2.16 (220) | 0.33 | 320 |
| RS41 | 41 | 12.70 | 7.77 | 6.38 | 1.25 | 9.8 | 8.4 | 3.59 | 6.75 | 7.95 | 11.8 (1,200) | 2.26 (230) | 0.41 | 240 |
| RS40 | 40 | 12.70 | 7.92 | 7.95 | 1.5 | 12.0 | 10.4 | 3.97 | 8.25 | 9.95 | 19.1 (1,950) | 3.63 (370) | 0.64 | 240 |
| RS50 | 50 | 15.875 | 10.16 | 9.53 | 2.0 | 15.0 | 13.0 | 5.09 | 10.3 | 11.9 | 31.4 (3,200) | 6.37 (650) | 1.04 | 192 |
| RS60 | 60 | 19.05 | 11.91 | 12.70 | 2.4 | 18.1 | 15.6 | 5.96 | 12.85 | 14.75 | 44.1 (4,500) | 8.83 (900) | 1.53 | 160 |
| RS80 | 80 | 25.40 | 15.88 | 15.88 | 3.2 | 24.1 | 20.8 | 7.94 | 16.25 | 19.25 | 78.5 (8,000) | 14.7 (1,500) | 2.66 | 120 |
| RS100 | 100 | 31.75 | 19.05 | 19.05 | 4.0 | 30.1 | 26.0 | 9.54 | 19.75 | 22.85 | 118.0 (12,000) | 22.6 (2,300) | 3.99 | 96 |
| RS120 | 120 | 38.10 | 22.23 | 25.40 | 4.8 | 36.2 | 31.2 | 11.11 | 24.9 | 28.9 | 167.0 (17,000) | 30.4 (3,100) | 5.93 | 80 |
| RS140 | 140 | 44.45 | 25.40 | 25.40 | 5.6 | 42.2 | 36.4 | 12.71 | 26.9 | 31.7 | 216.0 (22,000) | 40.2 (4,100) | 7.49 | 68 |
| RS160 | 160 | 50.80 | 28.58 | 31.75 | 6.4 | 48.2 | 41.6 | 14.29 | 31.85 | 36.85 | 279.0 (28,500) | 53.0 (5,400) | 10.10 | 60 |
| RS180 | 180 | 57.15 | 35.71 | 35.72 | 7.15 | 54.2 | 46.8 | 17.46 | 35.65 | 42.45 | 370.0 (37,700) | 60.8 (6,200) | 13.45 | 54 |
| RS200 | 200 | 63.50 | 39.68 | 38.10 | 8.0 | 60.3 | 52.0 | 19.85 | 39.0 | 44.8 | 471.0 (48,000) | 71.6 (7,300) | 16.49 | 48 |
| RS240 | 240 | 76.20 | 47.63 | 47.63 | 9.5 | 72.4 | 62.4 | 23.81 | 47.9 | 55.5 | 666.0 (70,000) | 99.0 (10,100) | 24.5 | 40 |

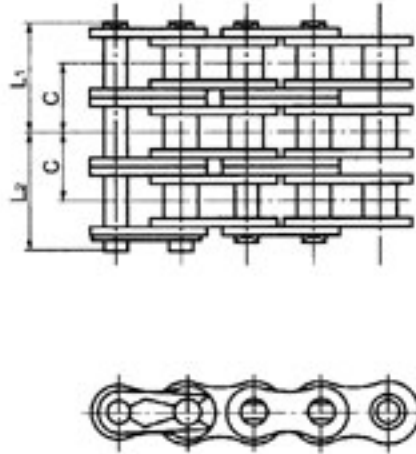
- Notes:
- i) Those marked with * are rollerless. The figure shown is the bushing diameter.
 - ii) Base chains of #25 to #50 are available in riveted type only.
 - iii) Connecting links are clip type for sizes up to #60, and cotter type for sizes #80 and above.
 - iv) Cotter pins are used for the base chain also for sizes #100 and above.

DRIVE CHAINS AMERICAN STANDARD ROLLER CHAINS-MULTIPLE STRAND

RIVETED TYPE

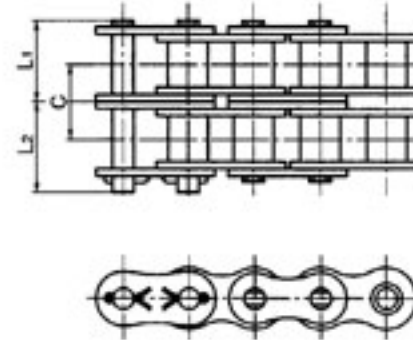


Double Strand

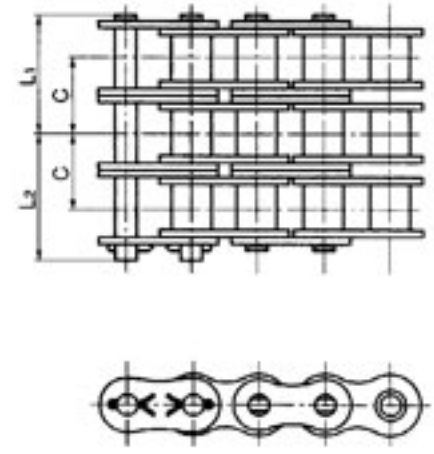


Triple Strand

COTTERED TYPE



Double Strand



Triple Strand

(Dimensions in mm)

| Chain No. | ANSI No. | Pitch P | Pin | | Transverse Pitch C | Ave. Tensile Strength kN(kgf) | Approx. Weight kg/m | Chain No. | ANSI No. | Pitch P | Pin | | Transverse Pitch C | Ave. Tensile Strength kN(kgf) | Approx. Mass kg/m | |
|------------|----------|------------|-----------------------------|----------------------------|-----------------------|----------------------------------|------------------------|--------------|----------|------------|-----------------------------|----------------------------|-----------------------|----------------------------------|----------------------|----------------|
| | | | From Pin Head To C.L. L1 | From Pin End To C.L. L2 | | | | | | | From Pin Head To C.L. L1 | From Pin End To C.L. L2 | | | | |
| RS25-2 ▲ * | 25-2 | 6.35 | 7.0 | 8.0 | 6.4 | 9.41 (960) | 0.27 | RS120-3 | 120-3 | 38.10 | 70.4 | 74.4 | 45.4 | 500 (51,000) | 17.53 | |
| RS25-3 ▲ * | 25-3 | | 10.2 | 11.2 | | 14.1 (1,440) | 0.42 | RS120-4 | 120-4 | | 93.1 | 97.1 | | 667 (68,000) | 23.36 | |
| RS35-2 ▲ * | 35-2 | 9.525 | 10.9 | 11.9 | 10.1 | 22.6 (2,300) | 0.69 | RS120-5 | 120-5 | | 115.85 | 119.85 | | 834 (85,000) | 29.16 | |
| RS35-3 ▲ * | 35-3 | | 16.0 | 16.9 | | 33.8 (3,450) | 1.05 | RS120-6 | 120-6 | | 138.55 | 142.55 | | 1000 (102,000) | 34.96 | |
| RS40-2 | 40-2 | 12.70 | 15.45 | 17.15 | 14.4 | 38.2 (3,900) | 1.27 | RS140-2 | 140-2 | | 51.35 | 56.15 | | 48.9 | 431 (44,000) | 14.83 |
| RS40-3 | 40-3 | | 22.65 | 24.15 | | 57.4 (5,850) | 1.90 | RS140-3 | 140-3 | | 75.85 | 80.75 | | | 647 (66,000) | 22.20 |
| RS40-4 | 40-4 | | 29.9 | 31.3 | | 76.5 (7,800) | 2.53 | RS140-4 | 140-4 | 100.3 | 105.2 | 863 (88,000) | 28.52 | | | |
| RS40-5 | 40-5 | | 37.1 | 38.6 | | 95.6 (9,750) | 3.16 | RS140-5 | 140-5 | 124.8 | 129.6 | 1080 (110,000) | 36.97 | | | |
| RS40-6 | 40-6 | | 44.3 | 45.8 | | 115 (11,700) | 3.79 | RS140-6 | 140-6 | 149.3 | 154.2 | 1290 (132,000) | 44.30 | | | |
| RS50-2 | 50-2 | | 15.875 | 19.35 | | 21.15 | 18.1 | 62.8 (6,400) | 2.07 | RS160-2 | 160-2 | 61.15 | 66.15 | | 58.5 | 559 (57,000) |
| RS50-3 | 50-3 | 28.4 | | 30.2 | 94.1 (9,600) | 3.09 | | RS160-3 | 160-3 | 90.45 | 95.45 | 838 (85,500) | 30.02 | | | |
| RS50-4 | 50-4 | 37.45 | | 39.25 | 126 (12,800) | 4.11 | | RS160-4 | 160-4 | 119.75 | 124.65 | 1120 (114,000) | 40.06 | | | |
| RS50-5 | 50-5 | 46.5 | | 48.3 | 157 (16,000) | 5.14 | | RS160-5 | 160-5 | 149.05 | 153.95 | 1400 (142,500) | 49.89 | | | |
| RS50-6 | 50-6 | 55.6 | | 57.4 | 188 (19,200) | 6.16 | | RS160-6 | 160-6 | 178.3 | 183.3 | 1680 (171,000) | 59.93 | | | |
| RS60-2 | 60-2 | 19.05 | | 24.25 | 26.25 | 22.8 | | 88.3 (9,000) | 3.04 | RS180-2 | 180-2 | 68.75 | 75.35 | 65.8 | | 739 (75,400) |
| RS60-3 | 60-3 | | 35.65 | 38.15 | 132 (13,500) | | 4.54 | RS180-3 | 180-3 | 101.7 | 108.5 | 1110 (113,100) | 38.22 | | | |
| RS60-4 | 60-4 | | 47.05 | 49.55 | 177 (18,000) | | 6.04 | RS180-4 | 180-4 | 134.65 | 141.45 | 1480 (150,800) | 50.90 | | | |
| RS60-5 | 60-5 | | 58.5 | 61.0 | 221 (22,500) | | 7.54 | RS180-5 | 180-5 | 167.6 | 174.4 | 1850 (188,500) | 63.59 | | | |
| RS30-6 | 60-6 | | 69.9 | 72.5 | 265 (27,000) | | 9.05 | RS180-6 | 180-6 | 200.55 | 207.35 | 2180 (226,200) | 76.27 | | | |
| RS80-2 | 80-2 | | 25.40 | 30.9 | 33.9 | | 29.3 | 157 (16,000) | 5.27 | RS200-2 | 200-2 | 74.85 | 80.65 | | 71.6 | 941 (96,000) |
| RS80-3 | 80-3 | 45.6 | | 48.5 | 235 (24,000) | 7.89 | | RS200-3 | 200-3 | 110.75 | 116.45 | 1410 (144,000) | 49.02 | | | |
| RS80-4 | 80-4 | 60.25 | | 63.25 | 314 (32,000) | 10.50 | | RS200-4 | 200-4 | 146.6 | 152.3 | 1880 (192,000) | 65.16 | | | |
| RS80-5 | 80-5 | 74.95 | | 77.95 | 392 (40,000) | 13.11 | | RS200-5 | 200-5 | 182.4 | 188.2 | 2350 (240,000) | 81.32 | | | |
| RS80-6 | 80-6 | 89.6 | | 92.5 | 471 (48,000) | 15.73 | | RS200-6 | 200-6 | 218.25 | 224.05 | 2820 (288,000) | 97.59 | | | |
| RS100-2 | 100-2 | 31.75 | | 37.7 | 40.8 | 35.8 | | 235 (24,000) | 7.85 | RS240-2 | 240-2 | 91.9 | 99.4 | 87.8 | | 1370 (140,000) |
| RS100-3 | 100-3 | | 55.65 | 58.75 | 353 (36,000) | | 11.77 | RS240-3 | 240-3 | 135.85 | 143.15 | 2060 (210,000) | 71.60 | | | |
| RS100-4 | 100-4 | | 73.55 | 76.65 | 471 (48,000) | | 15.70 | RS240-4 | 240-4 | 179.8 | 187.3 | 2750 (280,000) | 95.10 | | | |
| RS100-5 | 100-5 | | 91.5 | 94.6 | 588 (60,000) | | 19.53 | RS240-5 | 240-5 | 223.75 | 231.25 | 3430 (350,000) | 118.60 | | | |
| RS100-6 | 100-6 | | 109.45 | 112.55 | 706 (72,000) | | 23.48 | RS240-6 | 240-6 | 267.7 | 275.1 | 4120 (420,000) | 142.10 | | | |
| RS120-2 | 120-2 | | 38.10 | 47.6 | 51.6 | | 45.4 | 333 (34,000) | 11.70 | | | | | | | |

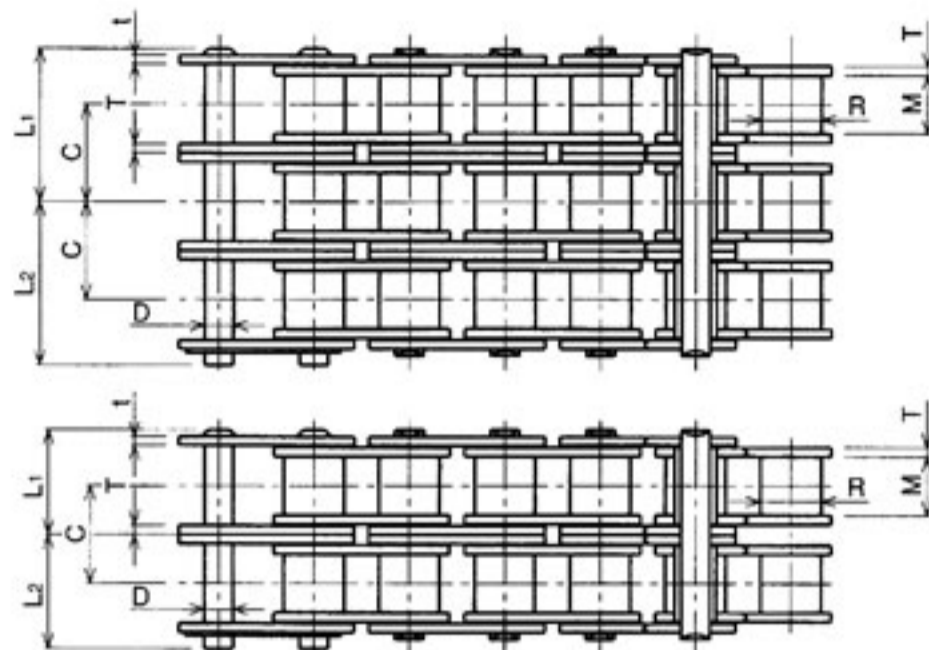
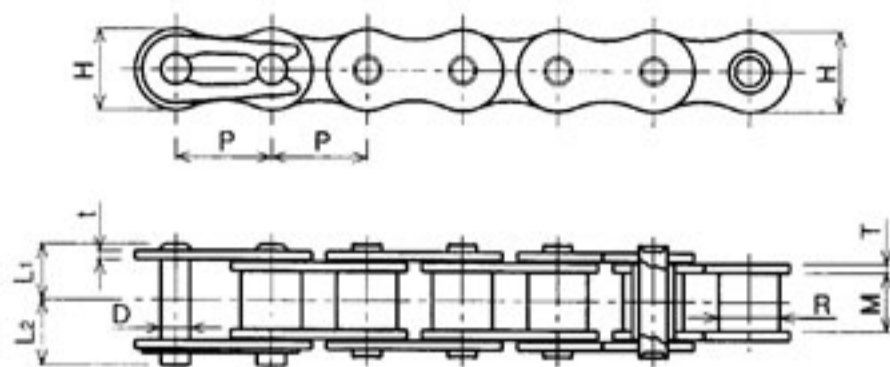
▲ Rollerless

* Riveted only

DRIVE CHAINS **BS/DIN CHAIN SERIES**

■ BRITISH STANDARD ROLLER CHAINS

Single, Double and Triple Strand BS Roller Chains are standardized in accordance with the ISO type "B". The dimensions are fully interchangeable with chains built according to the BS228: 1970 and the DIN8187.



(Dimensions in mm)

| Chain No. | ISO BS/DIN No. | Pitch P | Roller Diam. R | Width b/w Roller Link Plates W | Pin | | | Link plate | | | Transverse Pitch C | Min. Tensile Strength kN(kgf) | Bearing Area (Nominal) cm ² | Approx. Mass kg/m | No. of Links/Unit (5 mts) |
|----------------------|----------------|-------------------|--------------------------|--|----------|----------------------|----------------------|-------------------------|-------------------------|--------------------------|------------------------------|----------------------------------|---|----------------------|---------------------------|
| | | | | | D | L₁ | L₂ | T_(RL) | t_(PL) | H_(max) | | | | | |
| SINGLE STRAND | | | | | | | | | | | | | | | |
| RS05B | 05B | 8.00 | 5.00 | 3.00 | 2.30 | 3.80 | 4.70 | 0.75 | 0.75 | 7.1 | — | 5.0 (510) | 0.11 | 0.18 | 626 |
| RF06B ★ | 06B | 9.525 | 6.35 | 5.72 | 3.28 | 6.35 | 7.65 | 1.27 | 1.0 | 8.2 | — | 9.0 (920) | 0.28 | 0.39 | 526 |
| RS08B ● | 08B | 12.70 | 8.51 | 7.75 | 4.45 | 8.4 | 10.0 | 1.6 | 1.6 | 11.8 | — | 19.0 (1,930) | 0.50 | 0.70 | 394 |
| RS10B ● | 10B | 15.875 | 10.16 | 9.65 | 5.08 | 9.55 | 11.25 | 1.5 | 1.5 | 14.7 | — | 23.0 (2,340) | 0.67 | 0.95 | 316 |
| RS12B ● | 12B | 19.05 | 12.07 | 11.68 | 5.72 | 11.2 | 13.1 | 1.8 | 1.8 | 16.1 | — | 31.0 (3,160) | 0.89 | 1.25 | 264 |
| RS16B ● | 16B | 25.40 | 15.88 | 17.02 | 8.28 | 17.75 | 19.95 | 4.0 | 3.2 | 21.0 | — | 70.0 (7,100) | 2.10 | 2.70 | 198 |
| RS20B | 20B | 31.75 | 19.05 | 19.56 | 10.19 | 19.9 | 23.1 | 4.4 | 3.4 | 26.0 | — | 98.1(10,000) | 2.95 | 3.85 | 158 |
| RS24B | 24B | 38.10 | 25.40 | 25.40 | 14.63 | 26.65 | 31.85 | 6.0 | 5.6 | 33.4 | — | 167 (17,000) | 5.54 | 7.45 | 132 |
| RS28B | 28B | 44.45 | 27.94 | 30.99 | 15.90 | 32.45 | 37.45 | 7.5 | 6.3 | 36.4 | — | 200 (20,400) | 7.40 | 9.45 | 114 |
| RS32B | 32B | 50.80 | 29.21 | 30.99 | 17.81 | 32.1 | 37.7 | 7.0 | 6.3 | 42.2 | — | 255 (26,000) | 8.11 | 10.25 | 100 |
| RS40B | 40B | 63.50 | 39.37 | 38.10 | 22.89 | 39.25 | 45.05 | 8.5 | 8.0 | 52.9 | — | 373 (38,000) | 12.76 | 16.35 | 80 |
| DOUBLE STRAND | | | | | | | | | | | | | | | |
| RF06B-2 ★ ▲ | 06B-2 | 9.525 | 6.35 | 5.72 | 3.28 | 11.43 | 12.57 | 1.27 | 1.0 | 8.2 | 10.24 | 17.0 (1,730) | 0.56 | 0.75 | 526 |
| RS08B-2 ▲ | 08B-2 | 12.70 | 8.51 | 7.75 | 4.45 | 15.3 | 16.9 | 1.6 | 1.6 | 11.8 | 13.92 | 32.0 (3,260) | 1.00 | 1.35 | 394 |
| RS10B-2 | 10B-2 | 15.875 | 10.16 | 9.65 | 5.08 | 17.85 | 19.55 | 1.5 | 1.5 | 14.7 | 16.59 | 44.5 (4,540) | 1.34 | 1.85 | 316 |
| RS12B-2 | 12B-2 | 19.05 | 12.07 | 11.68 | 5.72 | 20.85 | 22.75 | 1.8 | 1.8 | 16.1 | 19.46 | 61.0 (6,220) | 1.78 | 2.50 | 264 |
| RS16B-2 | 16B-2 | 25.40 | 15.88 | 17.02 | 8.28 | 33.55 | 35.75 | 4.0 | 3.2 | 21.0 | 31.88 | 128 (13,000) | 4.20 | 5.40 | 198 |
| RS20B-2 | 20B-2 | 31.75 | 19.05 | 19.56 | 10.19 | 38.25 | 41.45 | 4.4 | 3.4 | 26.0 | 36.45 | 197 (20,100) | 5.91 | 7.65 | 158 |
| RS24B-2 | 24B-2 | 38.10 | 25.40 | 25.40 | 14.63 | 50.8 | 56.0 | 6.0 | 5.6 | 33.4 | 48.36 | 335 (34,100) | 11.09 | 14.65 | 132 |
| RS28B-2 | 28B-2 | 44.45 | 27.94 | 30.99 | 15.90 | 62.15 | 67.15 | 7.5 | 6.3 | 36.4 | 59.56 | 374 (38,100) | 14.81 | 18.80 | 114 |
| RS32B-2 | 32B-2 | 50.80 | 29.21 | 30.99 | 17.81 | 61.25 | 66.85 | 7.0 | 6.3 | 42.2 | 58.55 | 485 (49,500) | 16.23 | 20.10 | 100 |
| RS40B-2 | 40B-2 | 63.50 | 39.37 | 38.10 | 22.89 | 75.4 | 81.2 | 8.5 | 8.0 | 52.9 | 72.29 | 716 (73,000) | 25.52 | 32.00 | 80 |
| TRIPLE STRAND | | | | | | | | | | | | | | | |
| RF06B-3 ★ ▲ | 06B-3 | 9.525 | 6.35 | 5.72 | 3.28 | 16.9 | 17.5 | 1.27 | 1.0 | 8.2 | 10.24 | 24.9 (2,540) | 0.84 | 1.11 | 526 |
| RS08B-3 ▲ | 08B-3 | 12.70 | 8.51 | 7.75 | 4.45 | 22.25 | 23.85 | 1.6 | 1.6 | 11.8 | 13.92 | 47.5 (4,840) | 1.50 | 2.00 | 394 |
| RS10B-3 | 10B-3 | 15.875 | 10.16 | 9.65 | 5.08 | 26.15 | 27.85 | 1.5 | 1.5 | 14.7 | 16.59 | 66.8 (6,810) | 2.01 | 2.80 | 316 |
| RS12B-3 | 12B-3 | 19.05 | 12.07 | 11.68 | 5.72 | 30.6 | 32.5 | 1.8 | 1.8 | 16.1 | 19.46 | 92 (9,400) | 2.67 | 3.80 | 264 |
| RS16B-3 | 16B-3 | 25.40 | 15.88 | 17.02 | 8.28 | 49.5 | 51.7 | 4.0 | 3.2 | 21.0 | 31.88 | 192 (19,600) | 6.30 | 8.00 | 198 |
| RS20B-3 | 20B-3 | 31.75 | 19.05 | 19.56 | 10.19 | 56.5 | 59.7 | 4.4 | 3.4 | 26.0 | 36.45 | 295 (30,100) | 8.86 | 11.45 | 158 |
| RS24B-3 | 24B-3 | 38.10 | 25.40 | 25.40 | 14.63 | 75.1 | 80.2 | 6.0 | 5.6 | 33.4 | 48.36 | 500 (51,000) | 16.64 | 21.75 | 132 |
| RS28B-3 | 28B-3 | 44.45 | 27.94 | 30.99 | 15.90 | 91.95 | 96.95 | 7.5 | 6.3 | 36.4 | 59.56 | 560 (57,100) | 22.21 | 28.20 | 114 |
| RS32B-3 | 32B-3 | 50.80 | 29.21 | 30.99 | 17.81 | 90.5 | 96.10 | 7.0 | 6.3 | 42.2 | 58.55 | 729 (74,300) | 24.34 | 29.90 | 100 |
| RS40B-3 | 40B-3 | 63.50 | 39.37 | 38.10 | 22.89 | 111.5 | 117.3 | 8.5 | 8.0 | 52.9 | 72.29 | 1,080 (110,000) | 38.28 | 47.75 | 80 |

Notes: ★ Flat shape link plate

▲ Middle link plate has one solid plate.

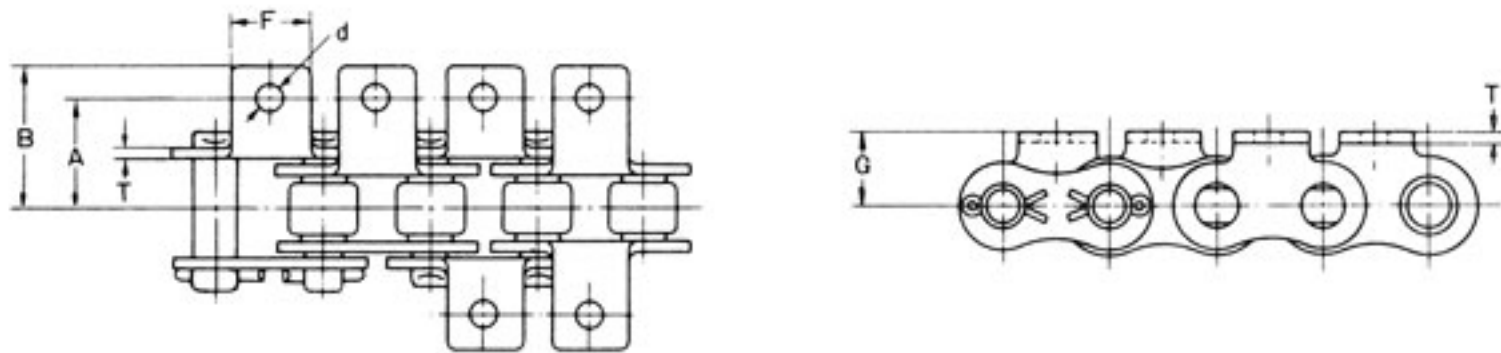
Riveted type chain will be supplied unless otherwise specified.

● Center sink riveting is applied (Shown in single strand drawing above).

Double stake riveting is applied to all other sizes including multi-strand chain.

These are various attachments for well-known roller chains, and are particularly recommended for light load applications and where accuracy is also required, such as in fruit sorters, confectionery-making equipment, wood-working machinery, foodstuff conveyors and the like.

● A1·K1 Attachment

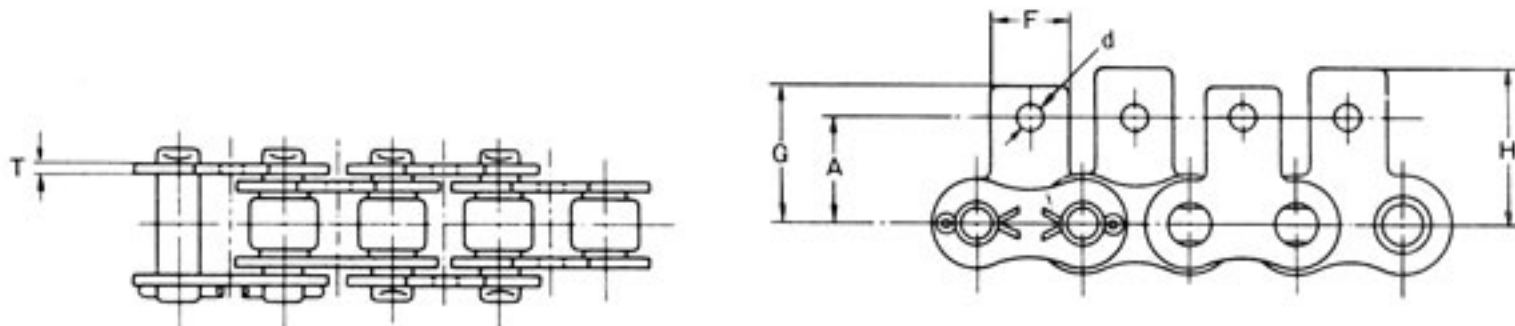


Dimension Diagram of A1 · K1 Attachment

● Dimensions of A1 · K1 Attachment

| Chain No. | Dimensions (mm) | | | | | | Additional Weight (kg/pc) | |
|-----------|-----------------|------|------|------|------|-----|---------------------------|--------|
| | A | B | d | F | G | T | A1 | K1 |
| 40 | 12.7 | 17.5 | 3.6 | 9.5 | 8.0 | 1.5 | 0.0013 | 0.0026 |
| 50 | 15.9 | 23.0 | 5.2 | 12.7 | 10.3 | 2.0 | 0.0032 | 0.0064 |
| 60 | 19.1 | 27.8 | 5.2 | 15.9 | 11.9 | 2.4 | 0.0059 | 0.0118 |
| 80 | 25.4 | 35.7 | 6.8 | 19.0 | 15.8 | 3.2 | 0.0135 | 0.027 |
| 100 | 31.8 | 44.5 | 8.8 | 25.2 | 19.8 | 4.0 | 0.0195 | 0.039 |
| 120 | 38.1 | 55.0 | 10.5 | 28.3 | 23.0 | 4.8 | 0.061 | 0.062 |
| 140 | 44.5 | 63.1 | 12.0 | 34.9 | 28.6 | 5.6 | 0.065 | 0.130 |
| 160 | 50.8 | 71.7 | 14.0 | 38.1 | 31.8 | 6.4 | 0.088 | 0.176 |

● SA1·SK1 Attachment

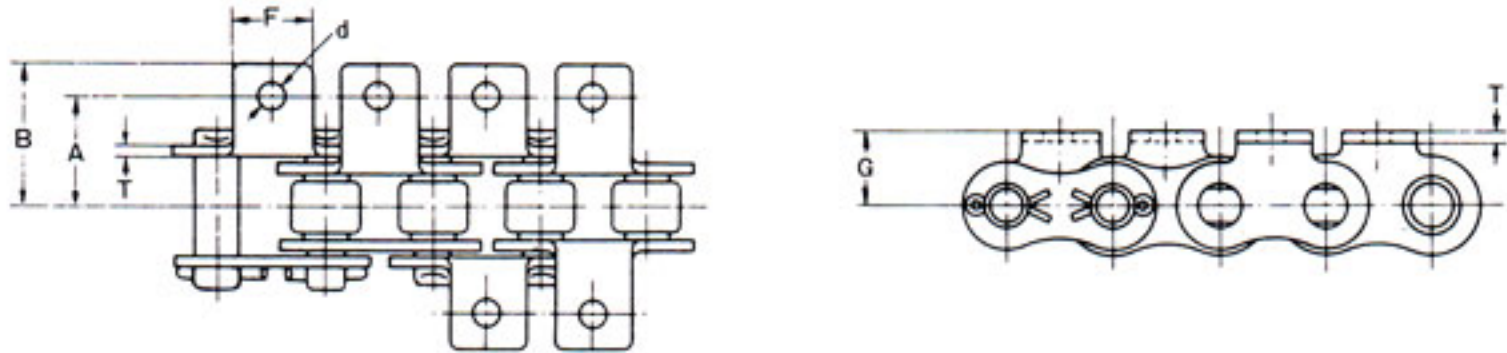


Dimension Diagram of SA1 · SK1 Attachment

● Dimensions of SA1 · SK1 Attachment

| Chain No. | Dimensions (mm) | | | | | | Additional Weight (kg/pc) | |
|-----------|-----------------|------|------|------|------|-----|---------------------------|--------|
| | A | d | F | G | H | T | SA1 | SK1 |
| 40 | 12.7 | 3.6 | 9.5 | 17.5 | 18.8 | 1.5 | 0.0013 | 0.0026 |
| 50 | 15.9 | 5.2 | 12.7 | 22.7 | 25.0 | 2.0 | 0.0032 | 0.0064 |
| 60 | 18.3 | 5.2 | 15.9 | 26.6 | 29.4 | 2.4 | 0.0059 | 0.0118 |
| 80 | 24.6 | 6.8 | 19.0 | 34.9 | 38.1 | 3.2 | 0.0135 | 0.027 |
| 100 | 31.8 | 8.8 | 25.2 | 43.0 | 43.0 | 4.0 | 0.0195 | 0.039 |
| 120 | 36.5 | 10.5 | 28.3 | 51.4 | 51.4 | 4.8 | 0.0310 | 0.062 |
| 140 | 44.5 | 12.0 | 34.9 | 63.1 | 63.1 | 5.6 | 0.065 | 0.130 |
| 160 | 50.8 | 14.0 | 38.1 | 69.5 | 69.5 | 6.4 | 0.088 | 0.176 |

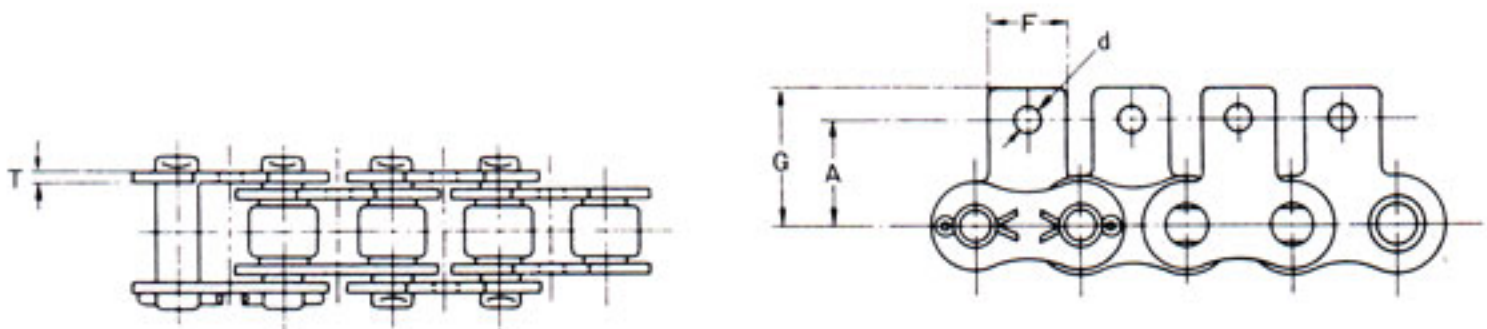
● Stainless Roller Chain Attachments



Dimension Diagram of A1 · K1 Attachment

● Dimensions of A1 · K1 Attachment

| Chain No. | Dimensions (mm) | | | | | | Additional Weight (kg/pc) | |
|-----------|-----------------|------|------|------|------|------|---------------------------|--------|
| | A | B | d | F | G | T | A1 | K1 |
| 35SS | 9.5 | 14.5 | 2.7 | 7.9 | 6.4 | 1.25 | 0.0009 | 0.0018 |
| 40SS | 12.7 | 17.5 | 3.6 | 9.5 | 8.0 | 1.5 | 0.0013 | 0.0026 |
| 50SS | 15.9 | 23.5 | 5.2 | 12.7 | 10.3 | 2.0 | 0.0032 | 0.0064 |
| 60SS | 19.1 | 28.2 | 5.2 | 15.9 | 11.9 | 2.4 | 0.0059 | 0.0118 |
| 80SS | 25.4 | 36.0 | 6.8 | 19.1 | 15.9 | 3.2 | 0.0135 | 0.027 |
| 100SS | 31.8 | 44.5 | 8.8 | 25.2 | 19.8 | 4.0 | 0.0195 | 0.039 |
| 120SS | 38.1 | 55.0 | 10.5 | 28.3 | 23.0 | 4.8 | 0.031 | 0.062 |
| 140SS | 44.5 | 63.5 | 12.0 | 34.9 | 28.6 | 5.6 | 0.065 | 0.130 |
| 160SS | 50.8 | 72.8 | 14.0 | 38.1 | 31.8 | 6.4 | 0.088 | 0.176 |



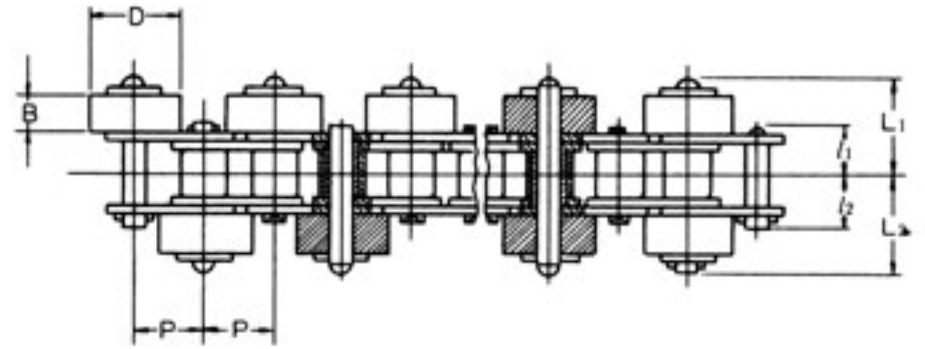
Dimension Diagram of SA1 · SK1 Attachment

● Dimensions of SA1 · SK1 Attachment

| Chain No. | Dimensions (mm) | | | | | Additional Weight (kg/pc) | |
|-----------|-----------------|------|------|------|------|---------------------------|--------|
| | A | d | F | G | T | SA1 | SK1 |
| 35SS | 9.5 | 2.7 | 7.9 | 14.7 | 1.25 | 0.0009 | 0.0018 |
| 40SS | 12.7 | 3.6 | 9.5 | 18.8 | 1.5 | 0.0013 | 0.0026 |
| 50SS | 15.9 | 5.2 | 12.7 | 23.0 | 2.0 | 0.0032 | 0.0064 |
| 60SS | 18.3 | 5.2 | 15.9 | 26.7 | 2.4 | 0.0059 | 0.0118 |
| 80SS | 24.6 | 6.8 | 19.1 | 34.5 | 3.2 | 0.0135 | 0.027 |
| 100SS | 31.8 | 8.8 | 25.2 | 43.0 | 4.0 | 0.0195 | 0.039 |
| 120SS | 36.5 | 10.5 | 28.3 | 51.4 | 4.8 | 0.031 | 0.062 |
| 140SS | 45.6 | 12.0 | 34.9 | 63.4 | 5.6 | 0.065 | 0.130 |
| 160SS | 51.2 | 14.0 | 38.1 | 70.4 | 6.4 | 0.088 | 0.176 |

● Side Roller Chain

- These chains are provided with rollers on one or both sides of the chain. The side rollers can be fitted either zigzag or parallel to one another, at any given interval. These side rollers ensure extremely stable chain travel.
- Moreover, the use of plastic side rollers will reduce noise, for quiet operation.



Dimension Diagram of Roller Chains with Side Roller

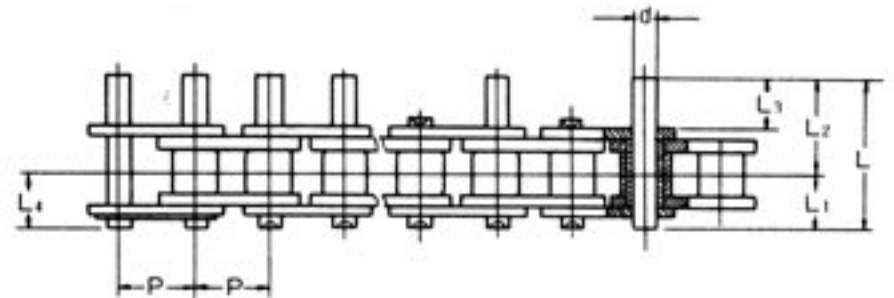
● Dimensions of Roller Chains with Side Rollers

(mm)

| Chain No. | Pitch P | D | B | L ₁ | L ₂ | r ₁ | r ₂ |
|-----------|---------|-------|------|----------------|----------------|----------------|----------------|
| No. 40 | 12.70 | 15.88 | 7.6 | 17.30 | 19.25 | 8.15 | 10.05 |
| No. 50 | 15.875 | 19.05 | 9.2 | 21.0 | 22.75 | 10.25 | 11.95 |
| No. 60 | 19.05 | 22.23 | 12.5 | 27.25 | 30.35 | 12.75 | 15.80 |
| No. 80 | 25.40 | 28.58 | 15.6 | 33.95 | 37.15 | 16.20 | 19.40 |
| C2040 | 25.40 | 15.88 | 7.6 | 17.30 | 19.25 | 8.15 | 10.05 |
| C2050 | 31.75 | 19.05 | 9.2 | 21.0 | 22.75 | 10.25 | 11.95 |
| C2060 | 38.10 | 22.23 | 12.5 | 27.85 | 30.95 | 14.35 | 17.40 |
| C2080 | 50.80 | 28.58 | 15.6 | 35.55 | 38.75 | 17.80 | 21.00 |

● Chains with D Pins

- These chains have extended pins on one or both sides of the chain. These pins, called D pins, permit the installation of special attachments.
- The D pins can be provided at every link or at any given interval. They are manufactured in the diameter and length specified by purchasers.



Dimension Diagram of Roller Chains with D-pin

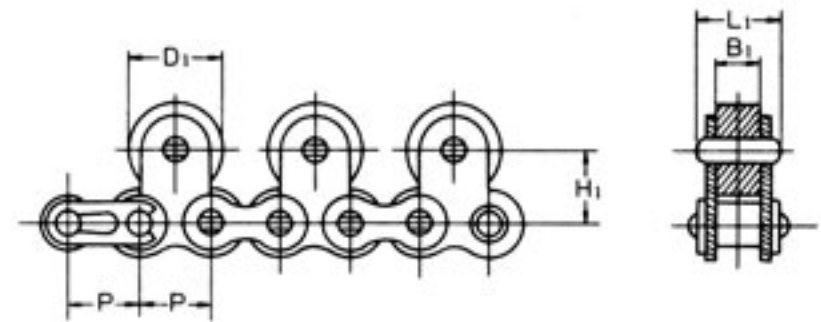
● Dimensions of Roller Chains with D-Pins

(mm)

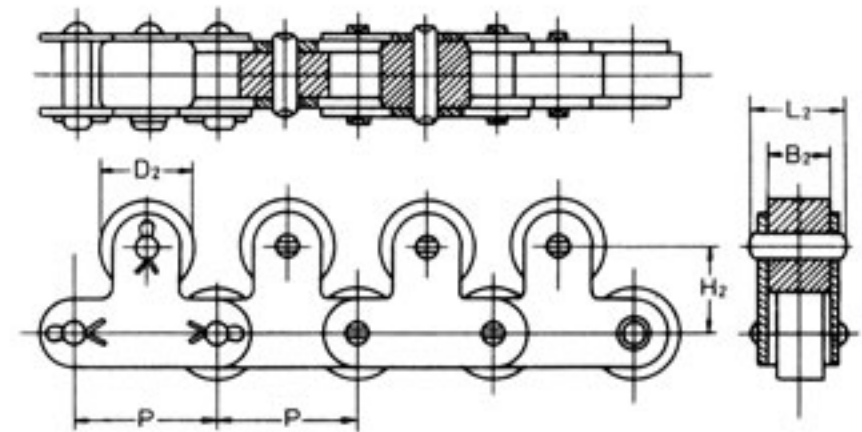
| Chain No. | Pitch P | d | L | L ₁ | L ₂ | L ₃ | L ₄ |
|-------------|---------|------|-------|----------------|----------------|----------------|----------------|
| No. 35 | 9.525 | 3.58 | 20.35 | 5.75 | 14.60 | 9.50 | 7.40 |
| No. 40 | 12.70 | 3.96 | 24.80 | 8.10 | 16.70 | 9.50 | 9.60 |
| No. 50 | 15.875 | 5.08 | 31.20 | 10.20 | 21.00 | 11.90 | 11.45 |
| No. 60 | 19.05 | 5.95 | 38.40 | 12.70 | 25.70 | 14.30 | 14.10 |
| No. 80 | 25.40 | 7.93 | 50.0 | 16.20 | 33.80 | 19.10 | 19.40 |
| No. 100 | 31.75 | 9.53 | 62.15 | 20.35 | 41.80 | 23.80 | 23.35 |
| C2040-C2042 | 25.40 | 3.96 | 24.80 | 8.10 | 16.70 | 9.50 | 12.45 |
| C2050-C2052 | 31.75 | 5.08 | 31.20 | 10.20 | 21.00 | 11.90 | 14.10 |
| C2060-C2062 | 38.10 | 5.95 | 41.60 | 14.30 | 27.30 | 14.30 | 17.45 |
| C2080-C2082 | 50.80 | 7.93 | 53.20 | 17.80 | 35.40 | 19.10 | 21.00 |

● Top Roller Chains

- These chains are equipped with rollers on which goods can be directly carried. Items can be loaded on, taken off, or temporarily stopped without the need to interrupt chain operation.
- Please note that top rollers for standard roller chains can be mounted on every even-numbered link. For double-pitch roller chains, top rollers can be installed at any given interval.
- Top rollers made of plastic can also be supplied on request.



Dimension Diagram of Roller Chains with Top Roller



Dimension Diagram of Double Pitch Roller Chains with Top Roller

● Dimensions of Roller Chains with Top Rollers

(mm)

| Chain No. | Pitch P | H_1 | D_1 | B_1 | L_1 | H_2 | D_2 | B_2 | L_2 |
|-------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. 40 | 12.70 | 12.70 | 15.88 | 7.60 | 12.85 | — | — | — | — |
| No. 50 | 15.875 | 15.60 | 19.05 | 9.20 | 16.00 | — | — | — | — |
| No. 60 | 19.05 | 18.30 | 22.23 | 12.50 | 20.25 | — | — | — | — |
| No. 80 | 25.40 | 24.60 | 28.58 | 15.60 | 25.50 | — | — | — | — |
| C2040-C2042 | 25.40 | — | — | 7.60 | 12.85 | 15.00 | 15.88 | 11.20 | 16.25 |
| C2050-C2052 | 31.75 | — | — | 9.20 | 16.00 | 19.00 | 19.05 | 13.90 | 20.45 |
| C2060-C2062 | 38.10 | — | — | 12.50 | 21.85 | 23.0 | 22.23 | 19.30 | 28.65 |
| C2080-C2082 | 50.80 | — | — | 15.60 | 27.10 | 29.0 | 28.58 | 24.10 | 35.60 |