

# Premium Standard Roller Chain

ANSI | Single Pitch | Standard | SBR

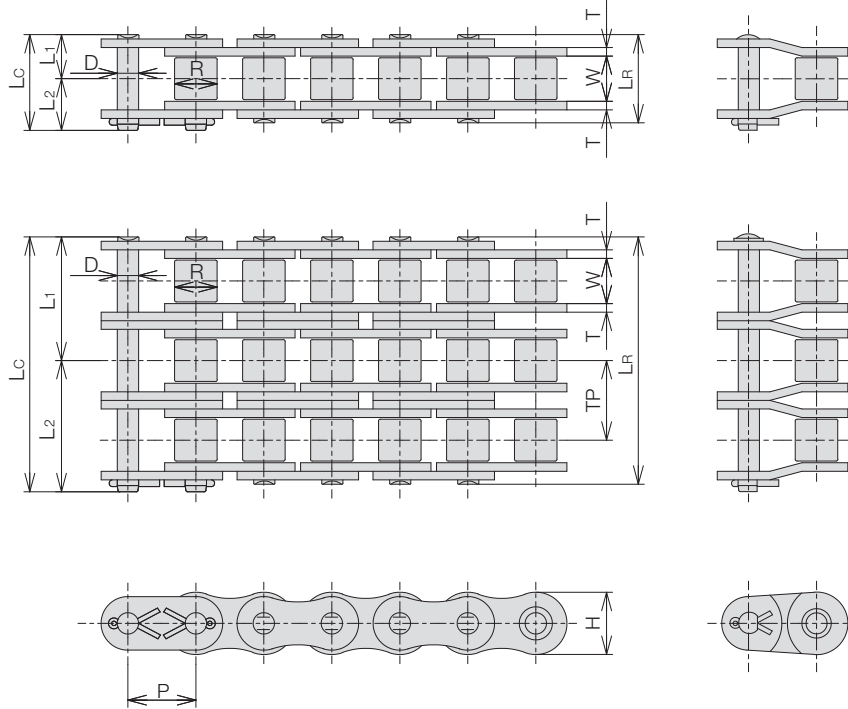
BS Single Pitch

ANSI Single Pitch

ANSI Double Pitch

ENGI. 81X

Technical Information



| SY Chain No. | Pitch P | Dimension - mm |        |        |       |       |       |       |          |             |                    | Average Tensile Strength<br>κN | Maximum Allowable Load<br>κN | Average Chain Weight<br>kg/m |
|--------------|---------|----------------|--------|--------|-------|-------|-------|-------|----------|-------------|--------------------|--------------------------------|------------------------------|------------------------------|
|              |         | Roller         |        | Dia. D | Pin   |       |       |       | Plate    |             | Trans. Pitch<br>TP |                                |                              |                              |
|              |         | Width W        | Dia. R |        | LR    | Lc    | L1    | L2    | Height H | Thickness T |                    |                                |                              |                              |
| SY 80-1      |         |                |        |        | 33.0  | 35.5  | 16.4  | 19.1  |          |             | -                  | 78.50                          | 19.10                        | 2.52                         |
| SY 80-2      |         |                |        |        | 61.6  | 64.5  | 30.8  | 33.7  |          |             |                    | 157.00                         | 25.00                        | 5.10                         |
| SY 80-3      |         |                |        |        | 90.9  | 94.1  | 45.5  | 48.6  |          |             |                    | 236.00                         | 36.80                        | 7.68                         |
| SY 80-4      | 25.40   | 15.88          | 15.88  | 7.93   | 120.4 | 123.5 | 60.2  | 63.3  | 23.4     | 3.2         | 29.3               | 314.00                         | 48.50                        | 10.25                        |
| SY 80-5      |         |                |        |        | 149.8 | 152.8 | 74.9  | 77.9  |          |             |                    | 393.00                         | 57.30                        | 12.84                        |
| SY 80-6      |         |                |        |        | 179.1 | 182.1 | 89.6  | 92.5  |          |             |                    | 471.00                         | 67.60                        | 15.42                        |
| SY 80-8      |         |                |        |        | 237.6 | 240.6 | 118.8 | 121.8 |          |             |                    | 628.00                         | 91.10                        | 20.58                        |
| SY 100-1     |         |                |        |        | 39.6  | 43.0  | 19.7  | 23.3  |          |             | -                  | 118.00                         | 29.40                        | 3.91                         |
| SY 100-2     |         |                |        |        | 75.1  | 78.8  | 37.6  | 41.2  |          |             |                    | 236.00                         | 38.40                        | 7.74                         |
| SY 100-3     |         |                |        |        | 110.9 | 114.6 | 55.5  | 59.1  |          |             |                    | 354.00                         | 56.50                        | 11.58                        |
| SY 100-4     | 31.75   | 19.05          | 19.05  | 9.53   | 147.4 | 150.8 | 73.7  | 77.1  | 29.3     | 4.0         | 35.8               | 472.00                         | 74.60                        | 15.40                        |
| SY 100-5     |         |                |        |        | 183.0 | 186.6 | 91.5  | 95.1  |          |             |                    | 590.00                         | 88.10                        | 19.26                        |
| SY 100-6     |         |                |        |        | 218.8 | 222.4 | 109.4 | 113.0 |          |             |                    | 708.00                         | 104.00                       | 23.10                        |
| SY 100-8     |         |                |        |        | 290.4 | 294.1 | 145.2 | 148.9 |          |             |                    | 944.00                         | 140.00                       | 30.81                        |
| SY 120-1     |         |                |        |        | 49.7  | 53.4  | 24.8  | 28.6  |          |             | -                  | 167.00                         | 39.50                        | 5.76                         |
| SY 120-2     |         |                |        |        | 94.9  | 98.8  | 47.5  | 51.3  |          |             |                    | 334.00                         | 51.70                        | 11.49                        |
| SY 120-3     |         |                |        |        | 140.3 | 144.2 | 70.2  | 74.0  |          |             |                    | 501.00                         | 76.00                        | 17.20                        |
| SY 120-4     | 38.10   | 25.40          | 22.23  | 11.10  | 186.1 | 190.0 | 93.1  | 96.9  | 35.1     | 4.8         | 45.4               | 668.00                         | 100.00                       | 22.92                        |
| SY 120-5     |         |                |        |        | 231.5 | 235.4 | 115.8 | 119.6 |          |             |                    | 835.00                         | 119.00                       | 28.65                        |
| SY 120-6     |         |                |        |        | 276.9 | 280.8 | 138.5 | 142.3 |          |             |                    | 1,002.00                       | 140.00                       | 34.36                        |
| SY 120-8     |         |                |        |        | 367.5 | 371.7 | 183.8 | 187.9 |          |             |                    | 1,336.00                       | 188.00                       | 45.81                        |
| SY 140-1     |         |                |        |        | 54.0  | 58.3  | 27.0  | 31.3  |          |             | -                  | 216.00                         | 52.30                        | 7.41                         |
| SY 140-2     |         |                |        |        | 102.9 | 107.2 | 51.5  | 55.7  |          |             |                    | 432.00                         | 68.30                        | 14.63                        |
| SY 140-3     |         |                |        |        | 151.7 | 156.3 | 75.9  | 80.4  |          |             |                    | 648.00                         | 101.00                       | 21.91                        |
| SY 140-4     | 44.45   | 25.40          | 25.40  | 12.70  | 201.2 | 205.5 | 100.6 | 104.9 | 40.9     | 5.6         | 48.9               | 864.00                         | 133.00                       | 29.17                        |
| SY 140-5     |         |                |        |        | 250.1 | 254.4 | 125.1 | 129.3 |          |             |                    | 1,080.00                       | 157.00                       | 36.45                        |
| SY 140-6     |         |                |        |        | 299.0 | 303.3 | 149.5 | 153.8 |          |             |                    | 1,296.00                       | 185.00                       | 43.72                        |

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