



Industrial Transmission Chains



 **SWAJIT**
CONVEYOR CHAINS & SLATS

www.swajit.com

Transmission Chain

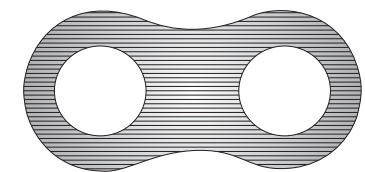
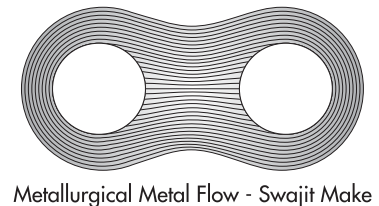
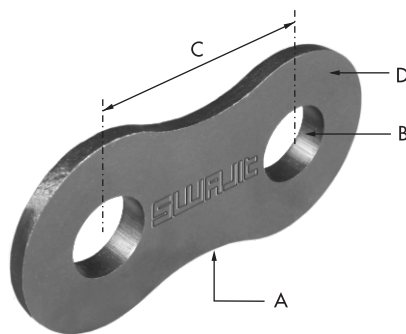
It is great pleasure to introduce ourselves as emerging manufacturer of Transmission Chains as per ISO/BS Standards. These chains are available now in ready stock types Simplex, Duplex & Triplex with the variations of pitch 2", 2.5", 3" & 3.5". Considering the highly precise requirement of application, material selection, manufacturing process is designed & developed in such a way that it is known as unique in this segment of manufacturing.

Press Forged Link

Links are manufactured from press forging which has added advantage of Grain flow to have built in strength of link due to well uniform distributed grain structure. It has thicker waist which has better Load bearing properties. Links are further coined to maintain the link flatness & precisely machined on VMC to maintain holes dimension with high degree of accuracy for extra service life. Chain life increase as the quality of links hole is maintained.

Link heat treatment is done in control atmosphere where the distortion is controlled so precisely. Links shot peening is done to improve impact strength & fatigue resistance thereby.

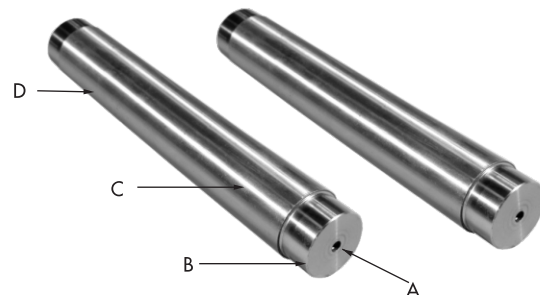
- A - Link made of Press Forging
- B - Precise Machining of Hole
- C - Precise Control of Pitch
- D - Shot Peened



Step Pin

Pins are first volume hardened tempered to increase core hardness & then Armored hardening is done to increase wear resistance by inducing low current with high voltage. Fine Surface finish is maintained to avoid friction with bush ID. Pin ends are kept soft for riveting after fixing into outer links.

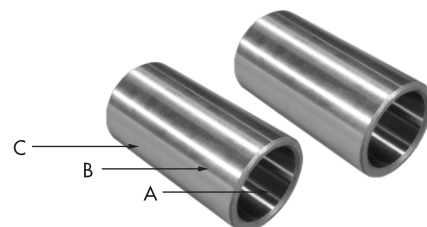
- A - Tough core
- B - Soft End
- C - Super fine Surface finish
- D - Shot Peened



Seamless Bush

Bushes are made up of seamless tube instead of round bars to increase the fatigue strength and shock resistance. Bushes are heat treated in controlled atmosphere furnaces where the distortion is controlled precisely in turn which gives the consistent results in terms of core, surface hardness, case depth & micro structure. Outer diameter of bush is ground with super surface finish & precise size control is exercised to have an interference fit with inner link holes.

- A - Bush from Seamless tube
- B - Heat treated in ultramodern Heat treatment furnaces
- C - With Hardened, Tempered & Carburized properties



Seamless Roller

Rollers are also made from seamless tubes & heat treated to improve the fatigue resistance and shock resistance.

- A - Rollers from seamless tube
- B - Clean Ends
- C - Hardened and tempered to achieve excellent shock resistance properties





Inner Link Assembly



Outer Link



Exploded view of Swajit roller chain components

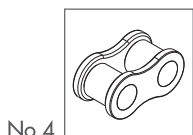
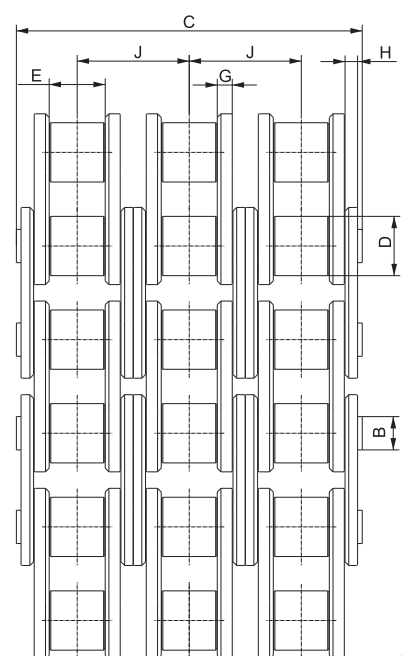
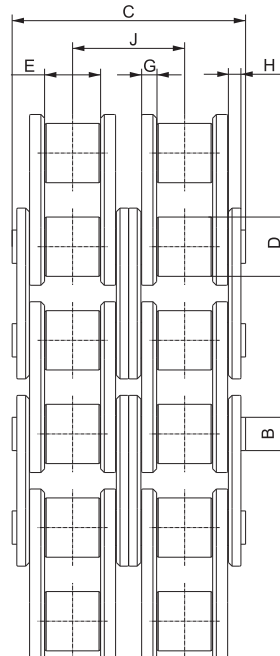
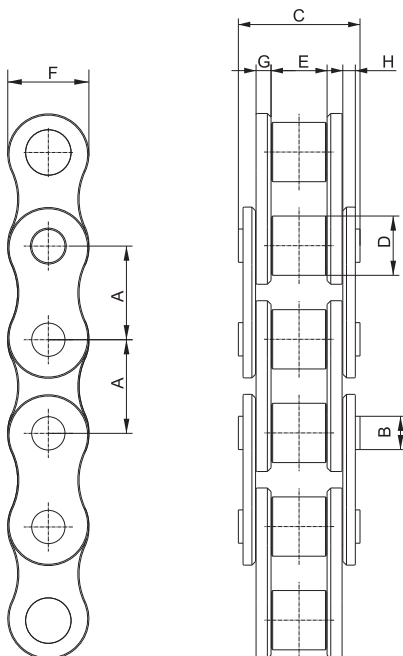
| Swajit Model Number | ISO No. | Pitch Inch | Pitch mm | Pin Dia Max | Pin Length Max | Roller Dia Max | Inside Width Min | Plate Width Max | Plate Thk. Inner Max | Plate Thk. Outer Max | Trans Pitch Nom | Con Link Extra Max | ISO606 Tensile Strength Min | Weight Kg/m | No 4 | No 107 | No 11 | No 26 | No 12 |
|---------------------|---------|------------|----------|-------------|----------------|----------------|------------------|-----------------|----------------------|----------------------|-----------------|--------------------|-----------------------------|-------------|------|--------|-------|-------|-------|
| | | A | A | B | C | D | E | F | G | H | J | K | N | | | | | | |
| Simplex | | | | | | | | | | | | | | | | | | | |
| SWAJIT 120 | 32B-1 | 2.00 | 50.80 | 17.81 | 63.40 | 29.21 | 30.99 | 42.29 | 7.11 | 6.35 | - | 8.00 | 250,000 | 10.10 | * | * | * | | * |
| SWAJIT 125 | 40B-1 | 2.50 | 63.50 | 22.89 | 78.20 | 39.37 | 39.30 | 52.96 | 8.13 | 8.13 | - | 9.50 | 355,000 | 16.50 | * | * | * | | * |
| SWAJIT 130 | - | 3.00 | 76.20 | 29.20 | 99.00 | 48.26 | 45.72 | 66.04 | 12.20 | 10.20 | - | 10.50 | 560,000 | 25.80 | * | * | * | | |
| SWAJIT 135 | - | 3.50 | 88.90 | 34.30 | 114.60 | 53.98 | 53.34 | 80.52 | 13.72 | 12.70 | - | 11.70 | 778,435 | 35.20 | * | * | * | | |
| Duplex | | | | | | | | | | | | | | | | | | | |
| SWAJIT 220 | 32B-2 | 2.00 | 50.80 | 17.81 | 126.00 | 29.21 | 30.99 | 42.29 | 7.11 | 6.35 | 58.55 | 7.90 | 450,000 | 20.10 | * | * | * | | * |
| SWAJIT 225 | 40B-2 | 2.50 | 63.50 | 22.89 | 155.00 | 39.37 | 39.30 | 52.96 | 8.13 | 8.13 | 72.29 | 10.20 | 630,000 | 32.80 | * | * | * | | * |
| SWAJIT 230 | - | 3.00 | 76.20 | 29.20 | 190.00 | 48.26 | 45.72 | 66.04 | 12.20 | 10.20 | 91.21 | 10.50 | 1,000,000 | 51.00 | * | * | * | | |
| SWAJIT 235 | - | 3.50 | 88.90 | 34.30 | 221.20 | 53.98 | 53.34 | 80.52 | 12.45 | 13.72 | 106.60 | 11.70 | 1,557,000 | 69.70 | * | * | * | * | |
| Triplex | | | | | | | | | | | | | | | | | | | |
| SWAJIT 320 | 32B-3 | 2.00 | 50.80 | 17.81 | 184.50 | 29.21 | 30.99 | 42.29 | 7.11 | 6.35 | 58.55 | 7.90 | 670,000 | 30.00 | * | * | * | | * |
| SWAJIT 325 | 40-B3 | 2.50 | 63.50 | 22.90 | 227.00 | 39.37 | 38.10 | 52.96 | 8.64 | 8.13 | 72.29 | 10.20 | 950,000 | 48.90 | * | * | * | | * |
| SWAJIT 330 | - | 3.00 | 76.20 | 29.24 | 281.60 | 48.26 | 45.72 | 66.04 | 12.19 | 10.16 | 91.21 | 10.50 | 1,500,000 | 76.20 | * | * | * | | |

(All Dimensions are in mm)

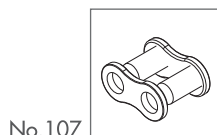
Simplex

Duplex

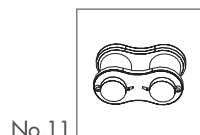
Triplex



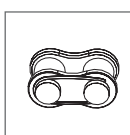
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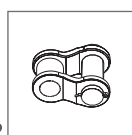
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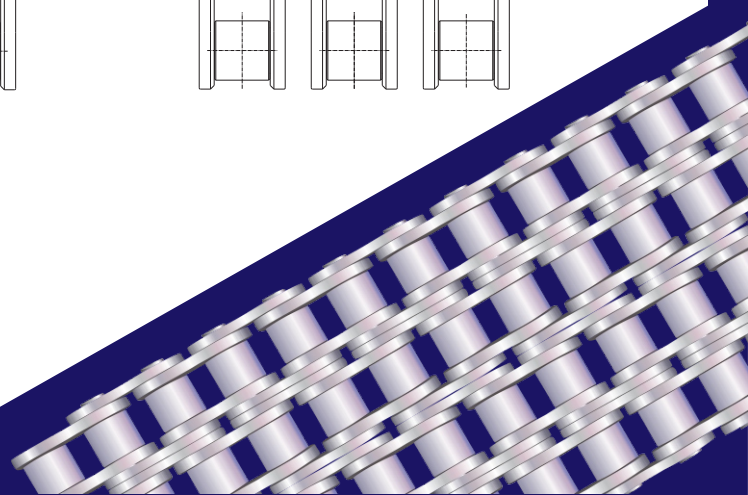
No.11



No.26



No.12



Strengthen the power for smooth action.....



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