



Industrial Transmission Chains



 **SWAJIT**
CONVEYOR CHAINS & SLATS

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Transmission Chain

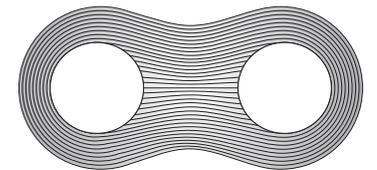
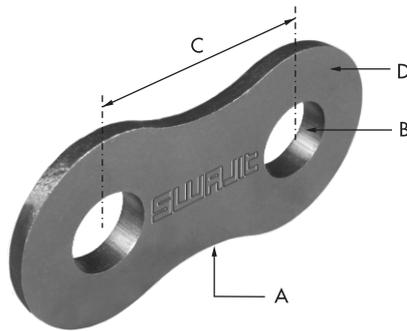
It is a great pleasure to introduce ourselves as an emerging manufacturer of Transmission Chains as per ISO/BS Standards. These chains are available now in ready stock types Simplex, Duplex & Triplex with the variations of pitch 2", 2.5", 3" & 3.5". Considering the highly precise requirements of application, 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

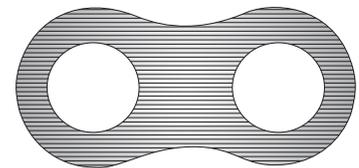
Links are manufactured from press forging which has added advantage of Grain flow to have built-in strength of link due to well uniform distributed grain structure. It has a thicker waist which has better load-bearing properties. Links are further coined to maintain the link flatness & precisely machined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

Link heat treatment is done in a controlled atmosphere where the distortion is controlled so precisely. Link 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



Metallurgical Metal Flow - Swajit Make

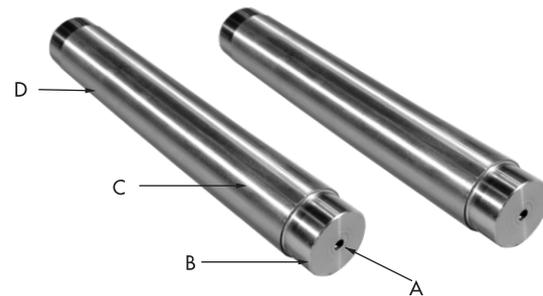


Metallurgical Metal Flow - Other Manufacturer

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.

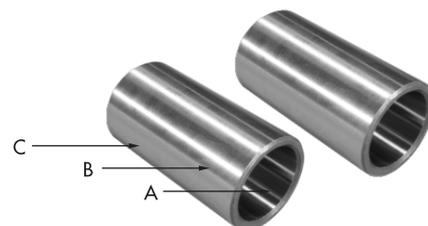
- A - Tough core
- B - Soft End
- C - Super fine Surface finish
- D - Shot Peened



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 a controlled atmosphere furnace 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



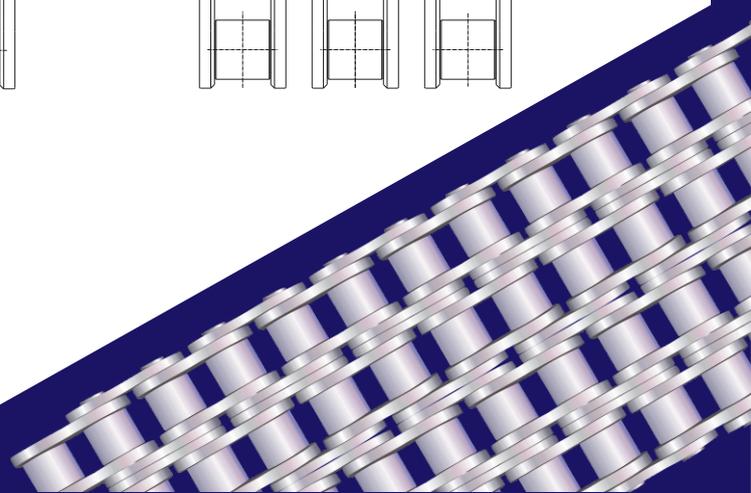
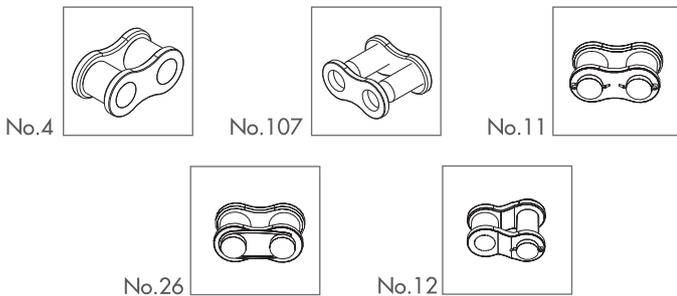
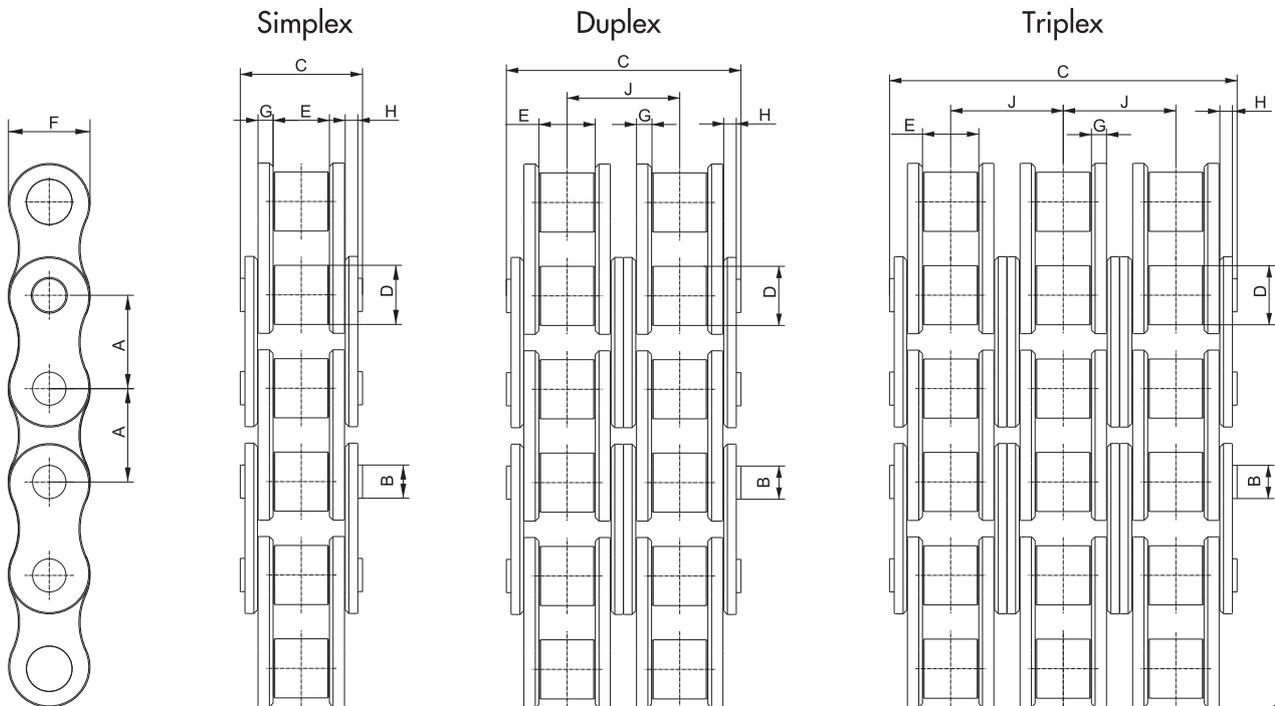
Outer Link



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)



Strengthen the power for smooth action.....

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