

SY Double Capacity roller chains possess

Twice the number of link plates and provide almost twice the ultimate strength of standard single strand roller chains. They are primarily designed for high load hoist, pull down, or other tension linkage applications, and operate on standard ASME/ANSI single strand sprockets with hardened teeth.

Good for ecology: Lesser number of component parts

Operates in smaller space

Lighter weight

(in comparison with double strand roller chain)



Available for
ANSI / BS Type
&
Double Pitch
Roller Chain

	Double Capacity	Double Strand
Pitch	Same	
Sprocket	Single	Double
Space	Small	Large
Weight	Light	Heavy

Double Capacity Roller Chain



SUGIYAMA

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All 33 men trapped 2,060 ft below ground were winched to the surface by the rescue capsule.

Drilled hole 2,060 ft down to rescue the miners.



A drilling machine installed with SY 180 Double Capacity chain was utilized to drill 6" holes dia the 2,060 ft. or so down that found the 33 miners in Chile.



SY Double Capacity Roller Chain(#180)

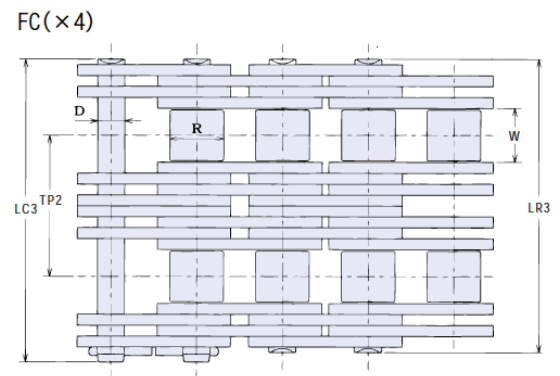
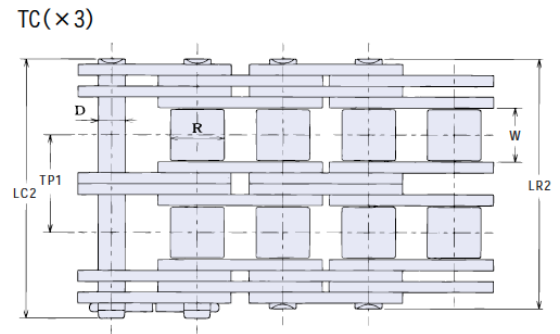
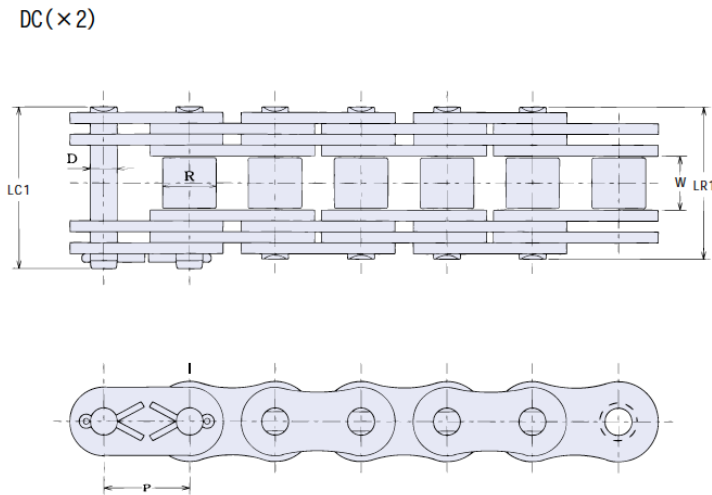
BOOK 1: ROLLER CHAIN AND SPROCKETS

1.1 SY CHAINS

Double Capacity Roller Chain

Double Capacity Chain is a single strand chain that offers the same ultimate tensile strength as a double strand chain with a saving of 50%.

Double Capacity Chain consists of twice the amount of side plates as single strand chain.



$$\begin{aligned} LR2 &= LR1 + TP1 \\ LC2 &= LC1 + TP1 \\ LR3 &= LR1 + TP2 \\ LC3 &= LC1 + TP2 \end{aligned}$$

SY Chain No. (ANSI)	Dimensions - mm								Average Ultimate Strength (kN)			Maximum Allowable Load (kN)
	Pitch	Roller		Pin			Transverse Pitch		DC	TC	FC	DC
		Width	Dia.	Dia	Length		TP1	TP2				
P	W	R	D	LR1	LC1	TP1	TP2	DC	TC	FC	DC	
100 DC.TC.FC	31.75	19.05	19.05	9.53	55.8	59.5	35.8	51.8	235	352	470	33.5
120 DC.TC.FC	38.1	25.40	22.23	11.10	69.0	73.3	45.4	64.2	343	514	685	49
140 DC.TC.FC	44.45	25.40	25.40	12.70	76.4	81.1	48.9	71.3	451	676	902	64.4
160 DC.TC.FC	50.8	31.70	28.58	14.28	90.0	95.1	58.5	84.1	559	838	1118	79.8
180 DC.TC.FC	57.15	35.70	35.70	17.45	101.6	107.7	65.8	94.6	726	1089	1452	103