TSUBAKI

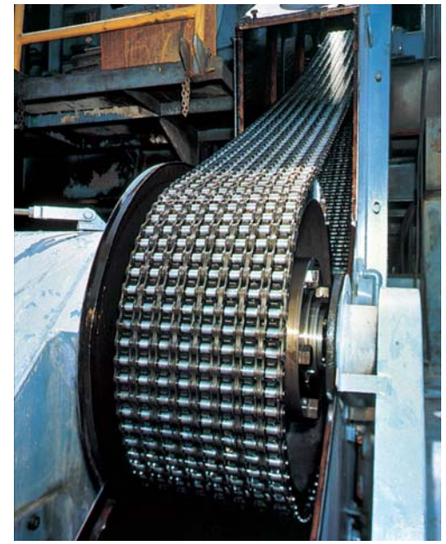
7F-0019

TSUBAKI "V" Class Oil Field Chain

Catalog No.1130

TSUBAKI“V”Class Roller Chain for Oil Well Machinery

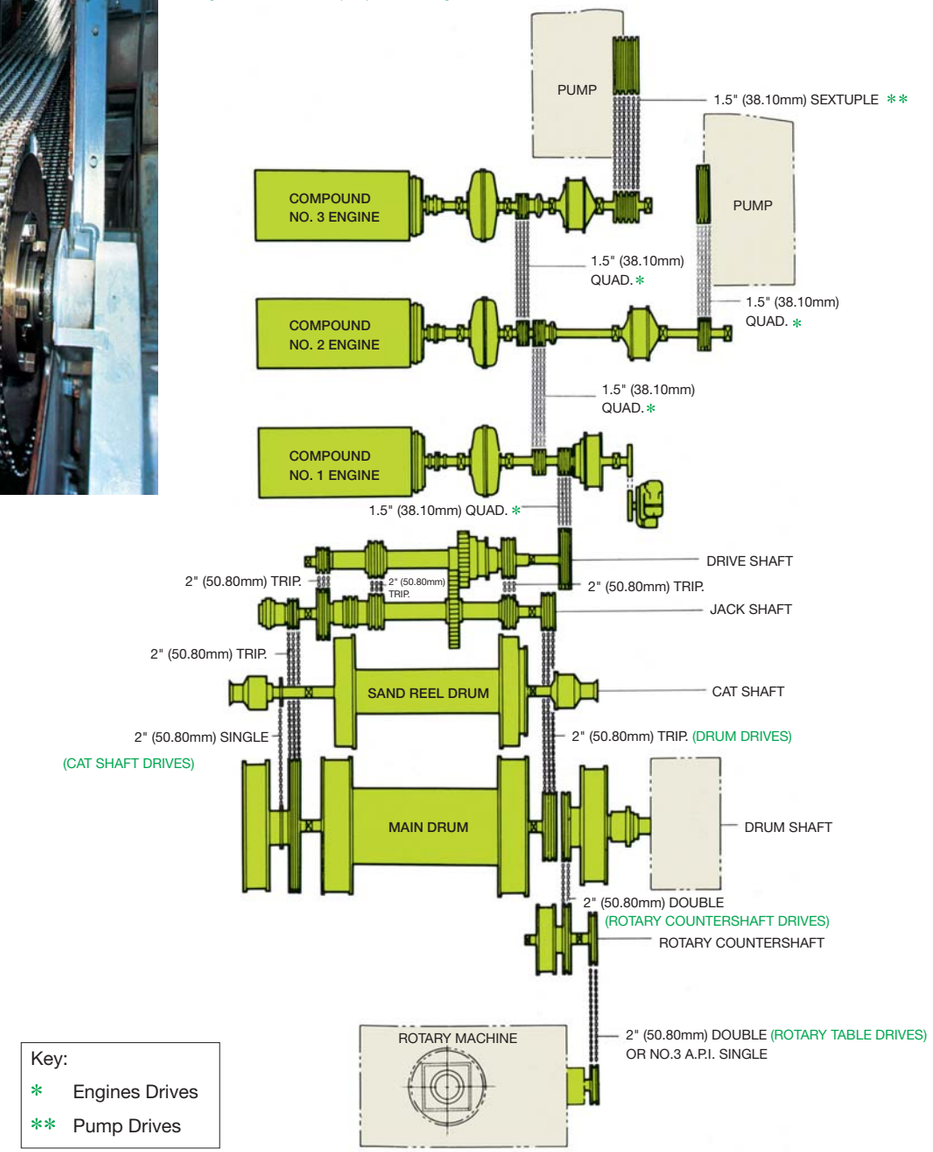
TSUBAKI "V" class roller chain is designed for use in Rig Drives for oil wells where chain must stand up to the most severe conditions. Built to withstand extra-heavy shock load and high velocity, TSUBAKI "V" class roller chain is more than capable of meeting your requirements. TSUBAKI "V" class roller chain is API approved and is interchangeable with ANSI chain (American National Standards Institute).



Pump Drive

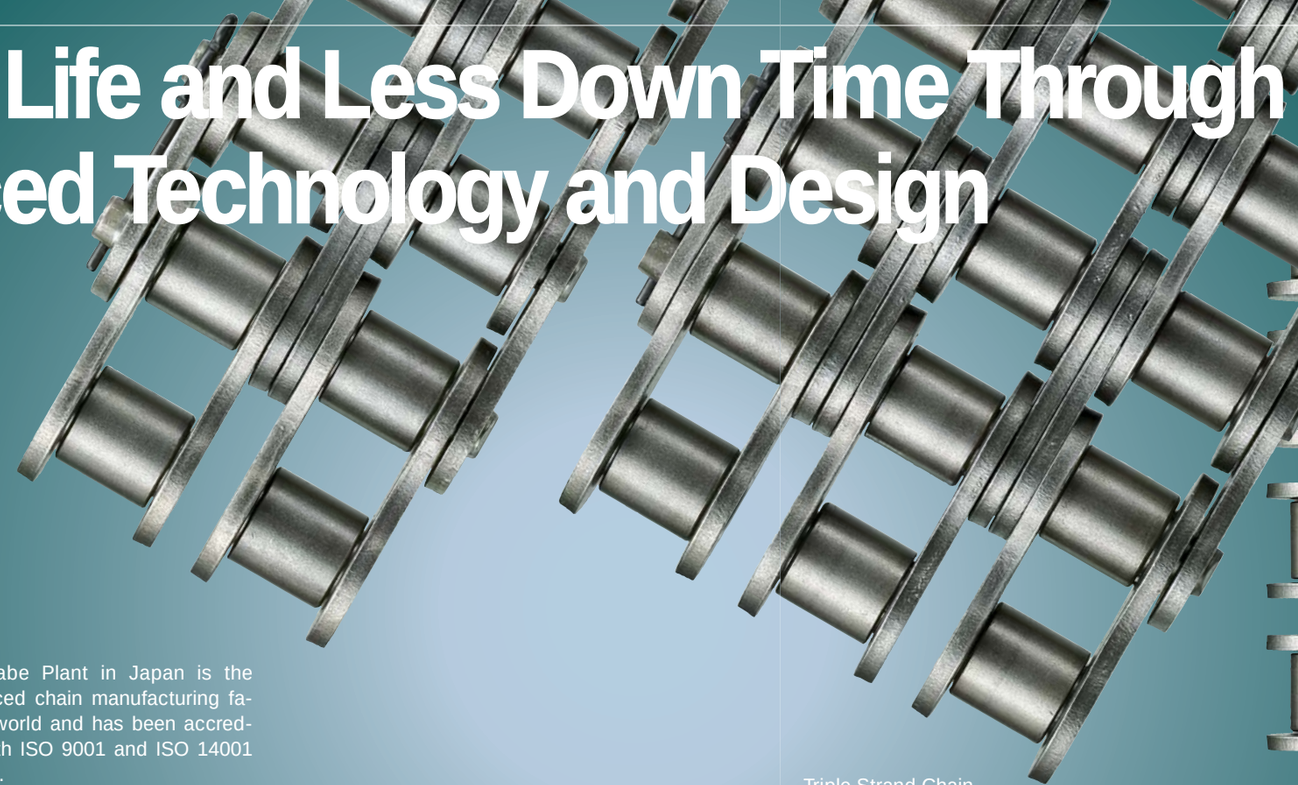
CHAIN DIAGRAM OF DRAWWORKS, COMPOUND AND PUMP

[Chain Pitch in Inch (mm) and Strand]

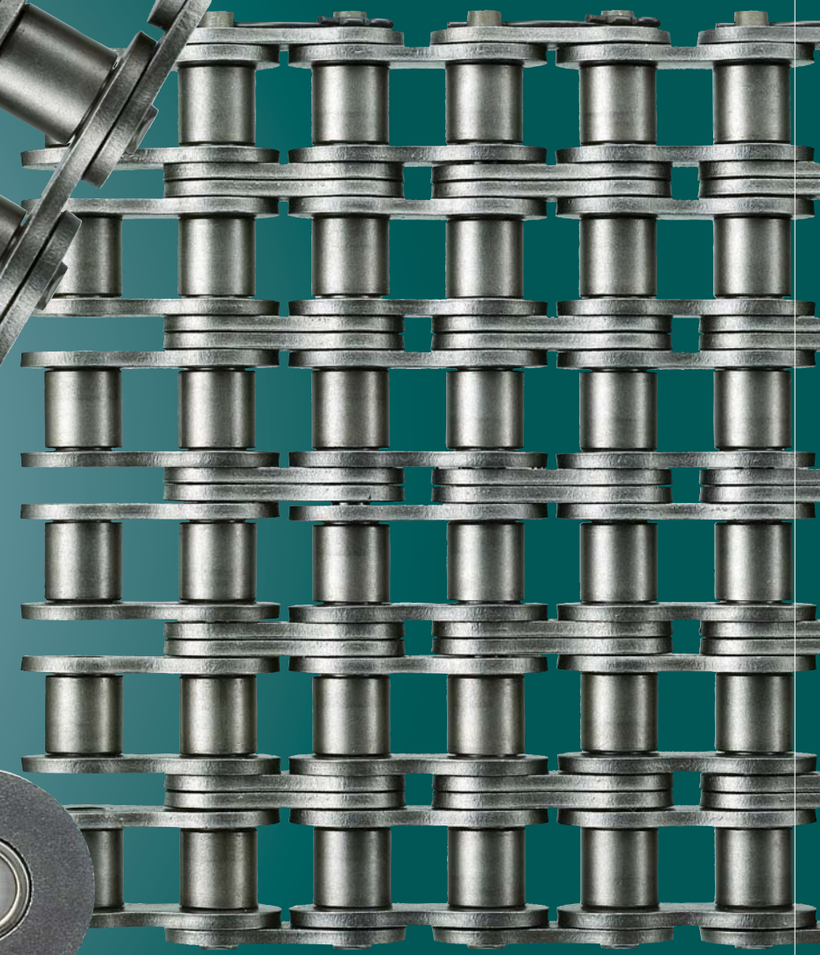


Key:
* Engines Drives
** Pump Drives

Longer Life and Less Down Time Through Advanced Technology and Design



Double Strand Chain



Triple Strand Chain

JQA-0911
Chain Division

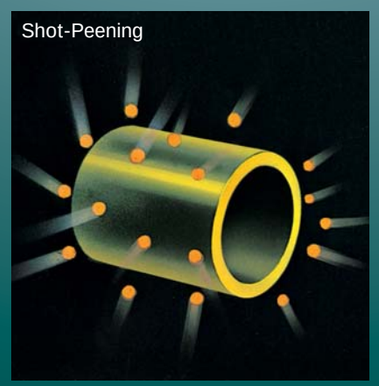
JQA-EM3392
Kyotanabe Plant

Our Kyotanabe Plant in Japan is the most advanced chain manufacturing facility in the world and has been accredited with both ISO 9001 and ISO 14001 certifications.

Sextuple Strand Chain

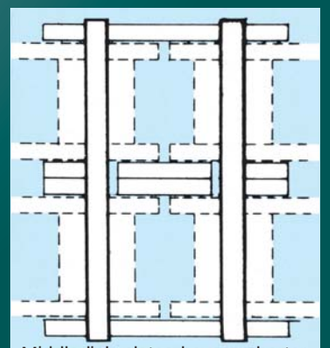
Greater Fatigue Resistance

Pin holes in link plates are ball drifted after heat-treatment for greater fatigue resistance. A 30% increase in chain life compared with ANSI standard chains is the net result of this procedure.



High Speed Durability

Rollers, precisely manufactured, are shot-peened after heat-treatment to give them superior fatigue life and high speed durability.



Middle link plates have a shorter pitch than the pin link plates creating a contact fit. This allows for easier cutting and assembly of the chain without sacrificing its horsepower rating.

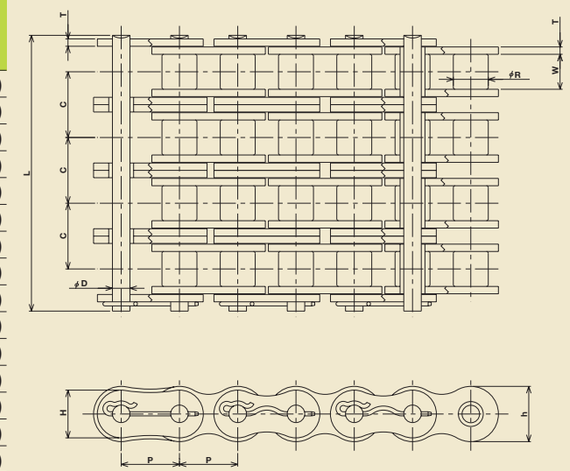
Dimensions of Single and Multiple Strand Chains

TSUBAKI "V" Class Roller Chains are made in six standard pitches 1.25 "(31.75mm) to 3" (76.20mm) in single strand and multiple strand for any power transmission requirement.

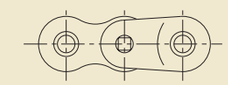
Dimensions:inch (metric unit)

TSUBAKI Chain No.	No. of Strands	Pitch P	Roller Diam. R	Width Between Roller Link Plates W	Link Plate T	Link Plate H	Link Plate h	Pin Diam. D	Pin Length L	Transverse Pitch C	Average Tensile Strength lbs (kN)	Approx. Weight lbs/ft (kg/m)
RS100V	1	1.25 (31.75)	.750 (19.05)	.750 (19.05)	.156 (4.0)	1.185 (30.1)	1.024 (26.0)	.375 (9.54)	1.678 (42.6)	1.408 (35.8)	26,400 (118)	2.68 (3.99)
	2								3.090 (78.5)		52,800 (235)	5.27 (7.85)
	3								4.504 (114.4)		79,200 (353)	7.91 (11.77)
	4								5.914 (150.2)		105,600 (471)	10.55 (15.70)
	5								7.326 (186.1)		132,000 (588)	13.12 (19.53)
	6								8.740 (222.0)		158,400 (706)	15.78 (23.48)
	7								10.150 (257.8)		184,800 (824)	18.43 (27.42)
	8								11.563 (293.7)		211,200 (941)	21.06 (31.34)
RS120V	1	1.5 (38.10)	.875 (22.23)	1.0 (25.40)	.187 (4.8)	1.425 (36.2)	1.228 (31.2)	.437 (11.11)	2.118 (53.8)	1.789 (45.4)	37,400 (167)	3.98 (5.93)
	2								3.905 (99.2)		74,800 (333)	7.86 (11.70)
	3								5.701 (144.8)		112,200 (500)	11.78 (17.53)
	4								7.488 (190.2)		149,600 (667)	15.70 (23.36)
	5								9.280 (235.7)		187,000 (834)	19.59 (29.16)
	6								11.067 (281.1)		224,400 (1,000)	23.49 (34.96)
	7								12.858 (326.6)		261,800 (1,170)	26.54 (39.49)
	8								14.646 (372.0)		299,200 (1,330)	30.32 (45.12)
RS140V	1	1.75 (44.45)	1.000 (25.40)	1.0 (25.40)	.219 (5.6)	1.661 (42.2)	1.433 (36.4)	.500 (12.71)	2.307 (58.6)	1.924 (48.9)	48,400 (216)	5.03 (7.49)
	2								4.233 (107.5)		96,800 (431)	9.97 (14.83)
	3								6.165 (156.6)		145,200 (647)	14.92 (22.20)
	4								8.091 (205.5)		193,600 (863)	19.16 (28.52)
	5								10.015 (254.4)		242,000 (1,080)	24.84 (36.97)
	6								11.949 (303.5)		290,400 (1,290)	29.77 (44.30)
	7								13.874 (352.4)		338,800 (1,510)	35.04 (52.14)
	8								15.799 (401.3)		387,200 (1,730)	40.04 (59.58)
RS160V	1	2.0 (50.80)	1.125 (28.58)	1.25 (31.75)	.250 (6.4)	1.898 (48.2)	1.638 (41.6)	.562 (14.29)	2.705 (68.7)	2.305 (58.5)	60,600 (270)	6.79 (10.10)
	2								5.011 (127.3)		119,000 (530)	13.47 (20.04)
	3								7.319 (185.9)		178,500 (794)	20.17 (30.02)
	4								9.622 (244.4)		238,000 (1,060)	26.92 (40.06)
	5								11.929 (303.0)		297,500 (1,320)	33.52 (49.89)
	6								14.237 (361.6)		357,000 (1,590)	40.27 (59.93)
	7								16.543 (420.2)		416,000 (1,850)	46.58 (69.31)
	8								18.850 (478.8)		475,000 (2,120)	53.22 (79.19)
RS200V	1	2.5 (63.50)	1.562 (39.68)	1.5 (38.10)	.312 (8.0)	2.374 (60.3)	2.047 (52.0)	.781 (19.85)	3.299 (83.8)	2.817 (71.6)	103,600 (461)	11.04 (16.49)
	2								6.122 (155.5)		207,200 (922)	21.93 (32.63)
	3								8.945 (227.2)		310,800 (1,380)	32.94 (49.02)
	4								11.768 (298.9)		414,400 (1,840)	43.79 (65.16)
	5								14.590 (370.6)		518,000 (2,300)	54.64 (81.32)
	6								17.414 (442.3)		621,600 (2,770)	58.65 (97.59)
	7								20.232 (513.9)		724,000 (3,230)	76.47 (113.79)
	8								23.051 (585.5)		827,000 (3,690)	87.37 (130.01)
RS240V	1	3.0 (76.20)	1.875 (47.63)	1.875 (47.63)	.375 (9.5)	2.850 (72.4)	2.457 (62.4)	.937 (23.81)	4.071 (103.4)	3.458 (87.8)	152,100 (677)	16.46 (24.50)
	2								7.531 (191.3)		304,200 (1,350)	32.32 (48.10)
	3								10.984 (279.0)		456,300 (2,030)	48.11 (71.60)
	4								14.453 (367.1)		608,400 (2,710)	63.90 (95.10)
	5								17.913 (455.0)		760,500 (3,380)	79.70 (118.60)
	6								21.370 (542.8)		912,600 (4,060)	95.49 (142.10)

Note : Cotter type chain (shepherd's crook type cotter) will be supplied for all chains unless otherwise specified. Riveted type chain will be supplied upon request.



Multiple Strand



Two-pitch Offset Link

Note:
Shepherd crook type cotter ( ) will be supplied unless otherwise specified.

Connecting Links and Two-pitch Offset Link

Shepherd crook and cotter pin type connecting links with pin link plates press-fitted.

BCL (bushed) type connecting link) is employed for multiple strand chain.
The cover plate is designed for a snug press-fit on the pins for use on drives that are subjected to high speeds and heavy shock loads.
Removal of the press-fitted pin may be less convenient than that of ordinary connecting links, but better fatigue resistance is provided.

Two-pitch Offset Link
The pin is press-fitted onto the offset linkplates. It is recommended that offset links should be used only when a chain length of an odd number of links cannot be avoided.
Four-pitch type offset link is also available.