Fit Bore

Fit Bore Model Number and Machining Designations

Chain model number					Shaft bore machining			Keyway/tap				Others (options)		
RF17200	S	12T	-BW1	Q	-H	090	N	-J	25	D3	M16	-L2	-E	-H1
❶	❷	❸	❹	❺	❻	❼	❽	❾	❿	⓫	⓬	⓭	⓮	⓯

Chain model number (available sizes)

❶ Size ❷ Roller type ❸ Number of teeth ❹ Hub type ❺ Teeth hardening

- **Q** Hardened
- **N** Non-hardened

Metric size ▶ RF03075 – RF17300

Inch size ▶ RF430 – RF205 RF6205 – RF212

Shaft bore machining

❻ Shaft bore tolerance

- **H** H8

❼ Shaft bore diameter mm

Pilot bore dia. + 1 mm
– Max. shaft bore dia.

❽ Shaft bore chamfer

- **N** Tsubaki standard (see right table)
- **A** C1
- **B** C2
- **C** C3

Applicable shaft bore dia. (mm)	Chamfer
– 50	C0.6
51 – 80	C1
81 – 120	C1.6
121 – 175	C2

Keyway/tap

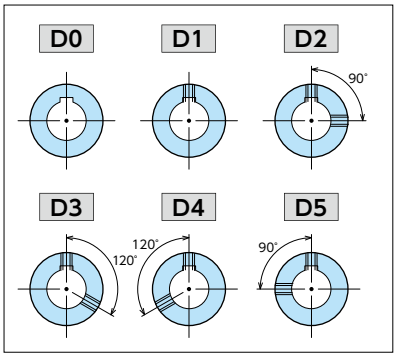
❾ Keyway width tolerance

- **J** Js9
- **P** P9
- **E** E9
- **W** No keyway

❿ Keyway width mm

Specify using a 2-digit integer.
(See "⓬Tapped hole size" table)
• For no keyway, specify W00.

⓫ Tapped hole
(number of taps and arrangement)



Note: When selecting H1 or H3 for parallel use, the tapped holes will be arranged half assembled in mirror image, so D4 and D5 cannot be selected. (Refer to ⓯ parallel codes.)

⓬ Tapped hole size

Specify using a 2-digit integer (standard size).
• Steel cup point set screw with hexagonal hole • For no taps, specify D0M00.
• Tapped hole sizes larger or smaller than Tsubaki standard size are available. However, for size M4 or larger, make sure not to exceed keyway width (details below).

■ For Js9/P9 (new JIS standards)

Applicable shaft bore dia. (mm)	Keyway width (mm)	Tapped hole size (Tsubaki standard)	Available sizes
19 – 22	6	M6	M5
22 – 30	8	M6	M5, M8
30 – 38	10	M8	M6, M10
38 – 44	12	M8	M6, M10
44 – 50	14	M8	M6, M10
50 – 58	16	M10	M8, M12
58 – 65	18	M10	M8, M12
65 – 75	20	M12	M10, M16
75 – 85	22	M12	M10, M16
85 – 95	25	M16	M12, M20
95 – 110	28	M16	M12, M20
110 – 130	32	M20	M16
130 – 150	36	M20	M16
150 – 170	40	M20	M16
170 – 175	45	M24	M20

■ For E9 (old JIS standards)

Applicable shaft bore dia. (mm)	Keyway width (mm)	Tapped hole size (Tsubaki standard)	Available sizes
19 – 20	5	M5	M4
21 – 30	7	M6	M5
31 – 40	10	M8	M6, M10
41 – 50	12	M8	M6, M10
51 – 60	15	M8	M6, M10
61 – 70	18	M10	M8, M12
71 – 80	20	M12	M10, M16
81 – 95	24	M12	M10, M16
96 – 110	28	M16	M12, M20
110 – 125	32	M20	M16
126 – 140	35	M20	M16
141 – 160	38	M20	M16
161 – 175	42	M20	M16

Others (options)

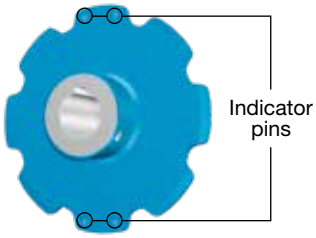
⓭ Coating code

L0	No coating (anti-rust oil)
L1	Lacquered (standard-product color)
L2	Lacquered (indicator pin color)

⓮ Indicator pins

E	Indicator pins
Blank	None

See p.55 for indicator pins



■ Embedded brass pin

■ Embedded in two places on both sides of the sprocket tooth at 0° and 180°. When keyways have been machined, indicator pins will be embedded in the tooth above the keyway.

⓯ Parallel codes
(two pieces as one set)

H1	Hub mounting direction: Inward–inward
H2	Hub mounting direction: Same direction
H3	Hub mounting direction: Outward–outward
Blank	None

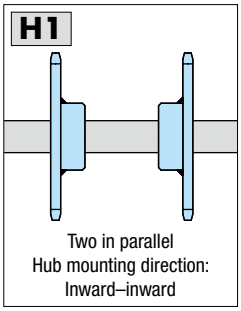
For parallel use, when two sprockets are used on the same axis, the keyway is aligned and machined according to the specified mounting direction. Select the hub mounting direction from the three options shown in the diagrams below.

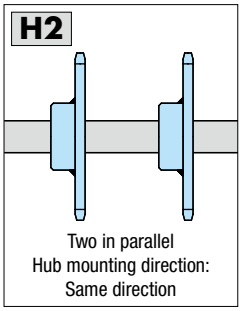
■ Parallel use and tooth center accuracy

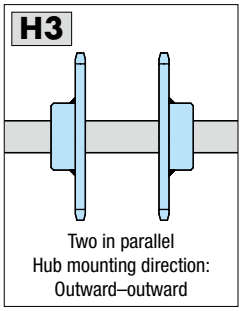
Outer dia. (mm)	Off-center (mm)
Up to 400	Max. 3.0
More than 400, up to 800	Max. 4.0
More than 800	Max. 6.0

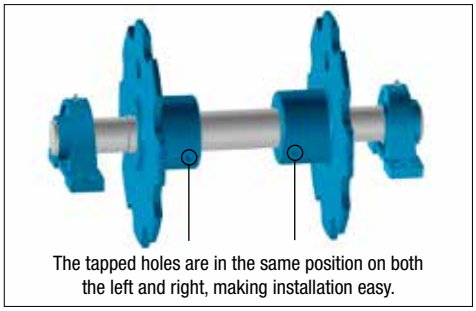
Can be used for parallel chain strands as is without changes. However, if higher accuracy is required, contact a Tsubaki representative.

■ Hub mounting directions









Note: If you wish to use three or more chain strands in parallel, we will respond on a made-to-order basis. If you select H1 or H3, the tapped holes will be arranged half assembled in mirror image.

Half assembled in mirror image

A set of sprockets used in parallel will have their tapped holes machined in a symmetrical position.

Example: □□□J25D3M16-L2-E-H1

One at D3 (above key and 120° right), another at D4 (above key and 120° left)

Applicable Products

■ Metric Pitches

Size	R Roller				F Roller				S Roller			
	Number of Teeth				Number of Teeth				Number of Teeth			
	6	8	10	12	6	8	10	12	6	8	10	12
RF03075	●	●	●	●	●	●	●	●	●	●	●	●
RF03100	●	●	●	●	●	●	●	●	●	●	●	●
RF05075	—	—	—	—	—	—	—	—	—	●	●	●
RF05100	●	●	●	●	●	●	●	●	●	●	●	●
RF05125	●	●	●	●	●	●	●	●	●	●	●	●
RF05150	●	●	●	●	●	●	●	●	●	●	●	●
RF08125	●	●	●	●	●	●	●	●	●	●	●	●
RF08150	●	●	●	●	●	●	●	●	●	●	●	●
RF10100	●	●	●	●	—	—	—	—	●	●	●	●
RF10125	●	●	●	●	●	●	●	●	●	●	●	●
RF10150	●	●	●	●	●	●	●	●	●	●	●	●
RF12200	●	●	●	●	●	●	●	●	●	●	●	●
RF12250	●	●	●	●	●	●	●	●	●	●	●	●
RF17200	●	●	●	●	●	●	●	●	●	●	●	●
RF17250	●	●	●	●	●	●	●	●	●	●	●	●
RF17300	●	●	●	●	●	●	●	●	●	●	●	●

■ Inch Pitches

Size	R Roller				F Roller				S Roller			
	Number of Teeth				Number of Teeth				Number of Teeth			
	6	8	10	12	6	8	10	12	6	8	10	12
RF430	●	●	●	●	—	—	—	—	●	●	●	●
RF204	—	—	—	—	—	—	—	—	—	●	●	●
RF450	●	●	●	●	●	●	●	●	●	●	●	●
RF650	●	●	●	●	●	●	●	●	●	●	●	●
RF214	●	●	●	●	—	—	—	—	●	●	●	●
RF205	—	—	—	—	—	—	—	—	—	●	●	●
RF6205	●	●	●	●	●	●	●	●	●	●	●	●
RF212	●	●	●	●	—	—	—	—	●	●	●	●

For sprocket dimensions see the pages for each size of sprocket.

Visit Our Website

3D CAD data can be found on the

Tsubaki Power Transmission Products Information Site.

Home > Download drawings < Large size conveyor chain

https://tt-net.tsubakimoto.co.jp

Innovation in Motion

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