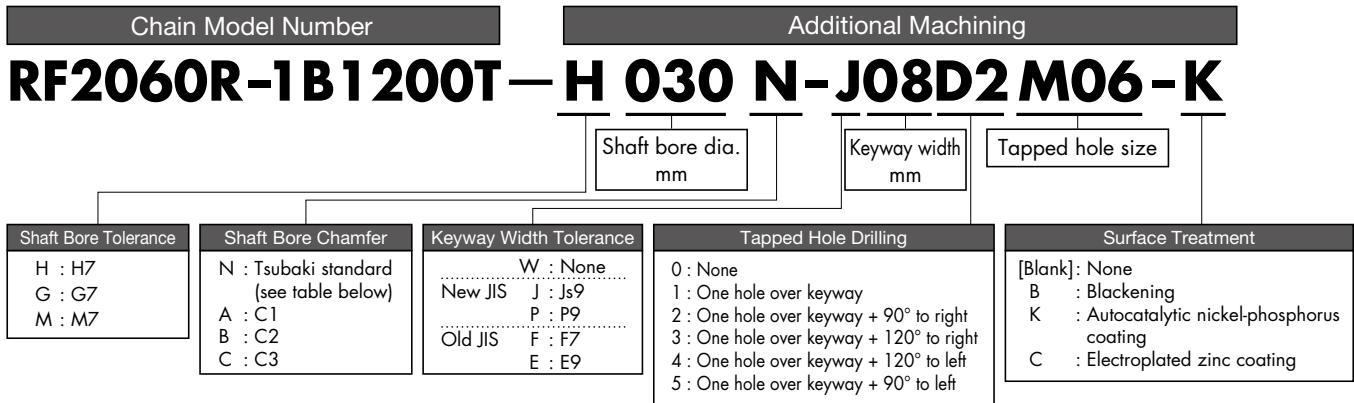


Fit Bore

Model Numbering Example



Chain Model Number (Available Sizes)

RS sprockets	▶ 1-strand RS35 to RS240	▶ 2-strand (2B) RS40 to RS120
	▶ SD RS40 to RS80	▶ 1-strand stainless steel RS35 to RS80
	▶ Sprockets for BS/DIN chain	
Double Pitch sprockets	▶ S rollers/R rollers Set for each steel/stainless steel model.	
Sprockets for Double Plus chain	▶ RF2030VRP to RF2080VRP	

Shaft Bore Machining

① Shaft bore tolerance

Tsubaki standard

G	→ G7	H	→ H7
M	→ M7	Note: Grade 7 only.	



③ Chamfer symbol

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

Applicable shaft bore dia. (mm)	Chamfer amount
10 to 20	C1
21 to 32	C1.2
33 to 50	C1.6
51 to 80	C2.5
81 to 170	C3

Available chamfers

Shaft bore dia.	Available chamfer amounts			
10 to 17	N	A	-	-
18 to 44	N	A	B	-
45 to 170	N	A	B	C

② Shaft bore diameter

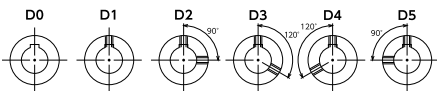
Keyway/tap

④ Keyway width tolerance and grade

Tsubaki standard

J	→ Js9	F	→ F7	P	→ P9	E	→ E9	W	→ No keyway
----------	-------	----------	------	----------	------	----------	------	----------	-------------

⑥ Number of taps and arrangement



⑦ Tapped hole size

Specify using a 2-digit integer.
• With set screw

- For no taps, specify D0 M00.
- 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).

⑤ Keyway width

Specify using a 2-digit integer. (JIS compliant)

- For no keyway, specify W 00.
- Keyway size can be selected only for Js9 and P9 (new JIS). Minimum and maximum keyway size overlap in the applicable shaft bore range can also be selected.

Keyway machining



Tapped hole drilling



For Js9/P9 (new JIS standards)

Applicable shaft bore dia. (mm)	Keyway width (mm)	Tsubaki standard size	Available sizes
10 to 12	4	M4	-
12 to 17	5	M5	M4
17 to 22	6	M6	M5
22 to 30	8	M6	M5, M8
30 to 38	10	M8	M6, M10
38 to 44	12	M8	M6, M10
44 to 50	14	M8	M6, M10
50 to 58	16	M10	M8, M12
58 to 65	18	M10	M8, M12

For F7/E9 (old JIS standards)

Applicable shaft bore dia. (mm)	Keyway width (mm)	Tsubaki standard size	Available sizes
65 to 75	20	M12	M10, M16
75 to 85	22	M12	M10, M16
85 to 95	25	M16	M12, M20
95 to 110	28	M16	M12, M20
110 to 130	32	M20	M16
130 to 150	36	M20	M16
150 to 170	40	M20	M16
170 to (200)	45	M24	M20
10 to 13	4	M4	-
14 to 20	5	M5	M4
21 to 30	7	M6	M5
31 to 40	10	M8	M6, M10
41 to 50	12	M8	M6, M10
51 to 60	15	M8	M6, M10
61 to 70	18	M10	M8, M12
71 to 80	20	M12	M10, M16
81 to 95	24	M12	M10, M16
96 to 110	28	M16	M12, M20
111 to 125	32	M20	M16
126 to 140	35	M20	M16
141 to 160	38	M20	M16
161 to 170	42	M20	M16

⑧ Surface treatment

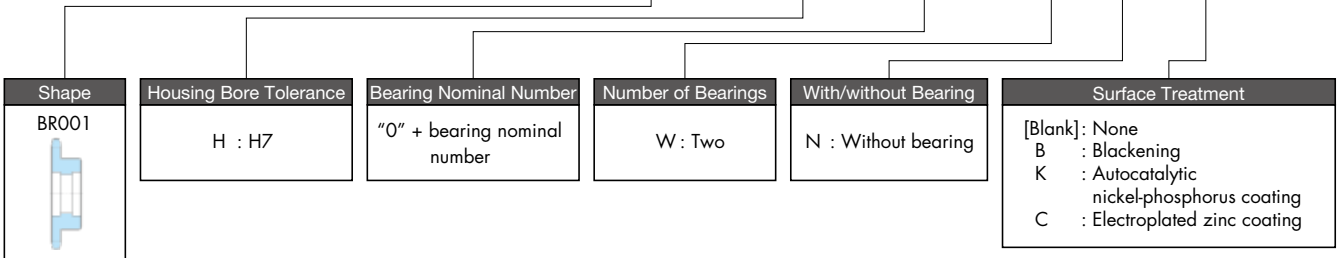
B	→ Blackening	K	→ Autocatalytic nickel-phosphorus coating	C	→ Electroplated zinc coating
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Note: Blackening is also applied to additionally machined portions (bore, keyway, tapped hole).

Fit Bore BR Type

Model Numbering Example

Chain Model Number: **RF2060S-1B1012T** Additional Machining: **BR001-H06007WN-K**



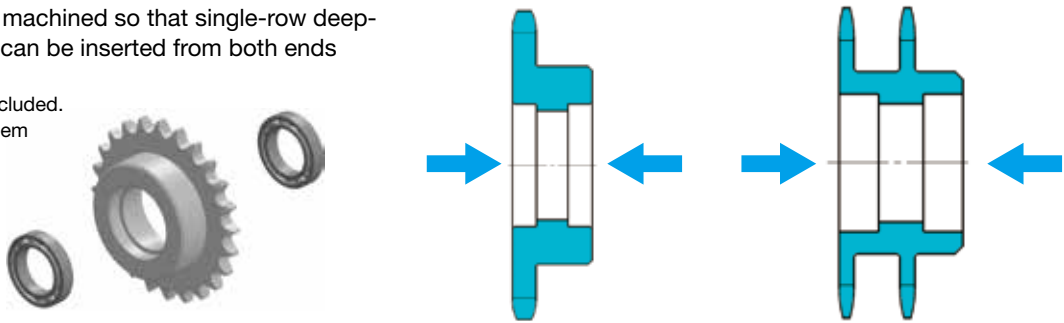
Chain Model Number (Available Sizes)

- RS sprockets ▶ 1-strand **RS35** to **RS160**
- Double Pitch sprockets ▶ **RF2040** to **RF2160** S rollers ▶ **RF2040** to **RF2100** R rollers
- Sprockets for Double Plus chain ▶ **RF2030VRP** to **RF2080VRP**

Machining

The sprocket bore is machined so that single-row deep-groove ball bearings can be inserted from both ends (right diagram).

Note: Bearings are not included.
Please purchase them separately.



Visit the Tsubaki Power Transmission Products Information Site for diagrams and a list of selectable bearings. <https://tt-net.tsubakimoto.co.jp/tecs/top/index.asp>



Product page example

Double Pitch sprocket Fit Bore
BR type main specifications

RS2060S-1B1012T-BR001-H06007WN

Principal dimensions

Base model no.	No. of teeth	No. of actual teeth	Applicable shaft dia. d mm	Pitch dia. DP mm	Outer dia. DO mm	Hub outer dia. DH mm	Hub length L mm
RF2060S-1B912T-BR001-H06007WN	9½	19	20,25,30,35,40	117.34	126	83	40
RF2060S-1B1012T-BR001-H06007WN	10½	21	20,25,30,35,40	129.26	138	83	40

Model no.	Bearing		Housing bore			PDF outline drawing				
	Inner dia. mm	Nominal	Load kN	Speed r/min	L10 life h					
RF2060S-1B1012T-BR001-H06204WN	20	6204	3.14	50	20034	2.1	47	42	14	PDF
RF2060S-1B1012T-BR001-H06205WN	25	6205	3.14	50	24645	2.5	52	47	15	PDF

How to designate a model number

- Select the sprocket model number.
 - Confirm the bearing inner diameter.
 - Select the bearing nominal number.
- RS2060S-1B1012T-BR001-H06007WN-K
Note: Fill in the four-digit bearing nominal number in the blank squares □.

Overview

General Use/
Corrosion Resistant

Lube Free

Special

Special Attachment

High Precision

Free Flow

Sprockets

Engineering Manual

Fit Bore

Fit Bore Items

From among available models, you can specify shaft bore machining, keyway machining, and tapped hole drilling. Some models can also be given a surface treatment.

See the Tsubaki Power Transmission Products Information Site for applicable BR type Fit Bore sprockets.

Double Pitch Sprockets

Roller Type	Steel												Stainless Steel								
	S						R						S			R					
Model/No. of Teeth	RF2040S	RF2050S	RF2060S	RF2080S	RF2100S	RF2120S	RF2160S	RF2040R	RF2050R	RF2060R	RF2080R	RF2100R	RF2120R	RF2160R	RF2040S	RF2050S	RF2060S	RF2080S	RF2040R	RF2050R	RF2060R
912T	○	○	○	○	○	○	○								○	○	○	○			
1000T								○	○	○	○										
1012T	○	○	○	○											○	○	○	○			
1100T								○	○	○	○	○	○	○					○	○	○
1112T	○	○	○	○											○	○	○	○			
1200T	○	○	○	○				○	○	○	○				○	○	○	○	○	○	○
1212T	○	○	○	○											○	○	○	○			
1300T								○	○	○	○								○	○	○
1400T								○	○	○	○										
1500T								○	○	○	○										
1600T								○	○	○	○										

Sprockets for Double Plus Chain

Model/No. of Teeth	Steel				
	RF2030VRP	RF2040VRP	RF2050VRP	RF2060VRP	RF2080VRP
10T	○	○	○	○	△

RS Sprockets (Applicable models other than those listed below are also available.)

Model/No. of Teeth	Steel										Stainless Steel					Model/No. of Teeth
	35	40	50	60	80	100	120	140	160	35	40	50	60	80		
	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B		
9	○	○	○	○	○										9	
10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	10	
11	○	○	○	○	○	○	○	○	○	○	○	○	○	○	11	
12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	12	
13	○	○	○	○	○	○	○	○	○	○	○	○	○	○	13	
14	○	○	○	○	○	○	○	○	○	○	○	○	○	○	14	
15	○	○	○	○	○	○	○	○	○	○	○	○	○	○	15	
16	○	○	○	○	○	○	○	○	○	○	○	○	○	○	16	
17	○	○	○	○	○	○	○	○	○	○	○	○	○	○	17	
18	○	○	○	○	○	○	○	○	○	○	○	○	○	○	18	
19	○	○	○	○	○	○	○	○	○	○	○	○	○	○	19	
20	○	○	○	○	○	○	○	○	○	○	○	○	○	○	20	
21	○	○	○	○	○	○	○	○	○	○	○	○	○	○	21	
22	○	○	○	○	○	○	○	○	○	○	○	○	○	○	22	
23	○	○	○	○	○	○				○	○	○	○	○	23	
24	○	○	○	○	○	○	○	○	○	○	○	○	○	○	24	
25	○	○	○	○	○	○	○	○	○	○	○	○	○	○	25	
26	○	○	○	○	○	○	○	○	○	○	○	○	○		26	
27	○	○	○	○	○	○	○	○	○	○	○	○	○		27	
28	○	○	○	○	○	○	○	○	○	○	○	○	○		28	
30	○	○	○	○	○	○	○	○	○	○	○	○	○		30	
32	○	○	○	○	○	○	○	○			○	○	○		32	
34	○	○	○	○	○	○					○	○	○		34	
35	○	○	○	○	○	○	○	○	○		○	○	○		35	
36	○	○	○	○	○	○	○	○	○		○	○	○		36	
38	○	○	○	○	○	○					○	○	○		38	
40	○	○	○	○	○	○	○	○			○	○	○		40	
42	○	○	○	○	○										42	
45	○	○	○	○	○	○	○	○							45	
48	○	○	○	○	○	○	○	○							48	
50	○	○	○	○	○	○									50	
54	○	○	○	○	○	○									54	
60	○	○	○	○	○	○									60	
65	○	○	○	○	○	○									65	
70	○	○	○	○	○	○									70	
75	○	○	○	○	○	○									75	

○····Models to which a surface treatment can be applied ○····Models for which shaft bores can be machined (no surface treatments)

△····Models for which shaft bores can be machined (limited machining options apply)

■ Models with hardened teeth □ Models without hardened teeth (and not suitable for teeth to be hardened)

□ Models without hardened teeth (but optional teeth hardening can be applied)

On the Tsubaki Power Transmission Products Information Site, you'll find a model number generator and downloadable schematic diagrams for Fit Bore.

<https://tt-net.tsubakimoto.co.jp> HOME > Download drawings > Sprocket / Pin gear drive > RS sprocket Fit bore

Drawing Library Fit Bore Sprocket

※ Selection of each condition to be from top to bottom.
 ※ After set all the search conditions, the model number is displayed.

Type	<input type="radio"/> RS sprocket (Material: Steel) <input type="radio"/> RS sprocket (Material: Stainless steel) <input type="radio"/> Sprockets for BS/DIN Chains (Material: Steel) <input checked="" type="radio"/> Sprockets for Double Pitch Chains (Material: Steel) <input type="radio"/> Sprockets for Double Pitch Chains (Material: Stainless steel) <input type="radio"/> Sprockets for Double Plus Free Flow Chains <input type="radio"/> Sprockets
1 Chain size	RF2060
Roller type	<input type="radio"/> S <input checked="" type="radio"/> R
2 Hub Type	-1B
3 Number of teeth	1200T
4 Tooth hardening	<input checked="" type="radio"/> Non-heat treated <input type="radio"/> Tooth hardening(Q)
Finishing Category	III : Bore+keyway+tap hole finishing
5 Shaft Bore Diameter	30
6 Shaft bore tolerance	<input checked="" type="radio"/> H7 (Standard) <input type="radio"/> G7 <input type="radio"/> M7
7 Chamfer dimensions	C1.2(Standard)
8 Keyway tolerance	<input checked="" type="radio"/> Js9 (New JIS) (Standard) <input type="radio"/> P9 (New JIS) <input type="radio"/> F7 (Old JIS) <input type="radio"/> E9 (Old JIS)
9 10 Keyway Width	8(Standard) ※Keyway depth is SUBAKI Star
11 Tap pattern	2:On the Keyway and 90°Right Side(Standard) ※with set
12 Tap size	M6(Standard)
13 Surface treatment	<input type="radio"/> NO <input type="radio"/> B : Coated black <input checked="" type="radio"/> K : Electroless nickel phosphorus plating <input type="radio"/> C : Zinc Electroplated Coating

Selected model No. : **RF2060R-1B1200T-H030N-J08D2M06-K** Display the

Model No. : RF2060R-1B1200T-H030N-J08D2M06-K

[PDF Outline Drawing \(Japanese\)](#)

Model No. : RF2060R-1B1200T-H030N-J08D2M06-K

対応するチェーンの仕様		歯の特性	
チェーン番号	RF2060-R	歯形	JIS S
ピッチ	38.10	歯数	12
ローラ外径	22.23	ピッチ円直径	147.21
内リンク内幅	12.70	歯底円直径	124.98
横ピッチ	-	歯底距離	-
		硬化処理	なし

注記
 1.止めねじは挿入済み。
 2.表面処理：無電解ニッケル-りんめっき（軸穴部除く）ELp-Fe/Ni-P5

概略質量	2.58 kg
2 穴径穴付き止めねじ	くほみ先 M6×6 ステンレス鋼 2
1 本体	機械構造用炭素鋼 1

符号	年月日	図面未歴	印	品番	部品名	図番	材質	単位数
お客様名				品名				
注番				バイピッチsprocket				
承認				数量				
点検				RF2060R-1B1200T-H030N-J08D2M06-K				
設計				図名				
図面作成日				外形図				
Tsubaki				投影法				
株式会社 椿本スプロケット				三角法				
				図番				
				KBD12H030NJE2CK0				



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