

Powerful Performance

+300%

SBAR

**Hitachi Solid
Bushing
&
Roller Chain**

 **Hitachi Metals Techno, Ltd.**

<http://www.hitachi-metals-techno.com/>

Head Office Shingu Building, 4-2, Toyo 2-chome, Koto-ku, Tokyo 135-8363 Japan
Phone: +81-3-3615-5421 Facsimile No.: +81-3-3615-5934

Distributor

Maximum Allowable Load 30% UP!

- Higher safety factor is gained
- Downsizing to smaller chain is possible in many applications
- Total cost savings

Comparison Table of Maximum Allowable Load

ANSI	Competitor (kN)	HITACHI (kN)
35	2.16	2.48
40	3.63	4.17
50	6.37	7.22
60	8.83	10.7
80	14.7	19.1
100	22.6	29.4
120	30.4	39.5
140	40.2	52.3
160	53.0	69.0
180	60.8	79.0
200	71.6	93.0
240	99.0	129.0

BS	Competitor (kN)	HITACHI (kN)
08B	N/A	3.14
10B	N/A	4.9
12B	N/A	7.06
16B	12.6	16.4
20B	19.6	25.5
24B	27.5	35.7
28B	34.3	44.5
32B	39.2	51.0

30% UP!

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Fundamental Structure of Hitachi Solid Bushing & Roller Chain

Outstanding longer wear life

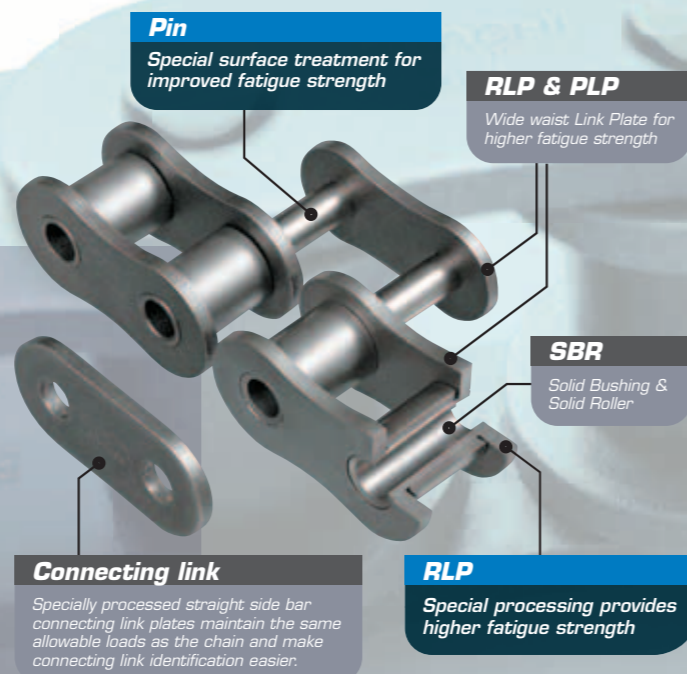
Conventional split bushings deform into a barrel shape when side plates are pressed on, leaving only two-point contact area. SBR (Solid Bushing & Roller) chain has extremely cylindrical inside and outside bushing walls resulting in full contact to disperse bearing pressure. Less pressure ensures excellent wear resistance.

Up to 2-3 times longer wear life over curled bushings

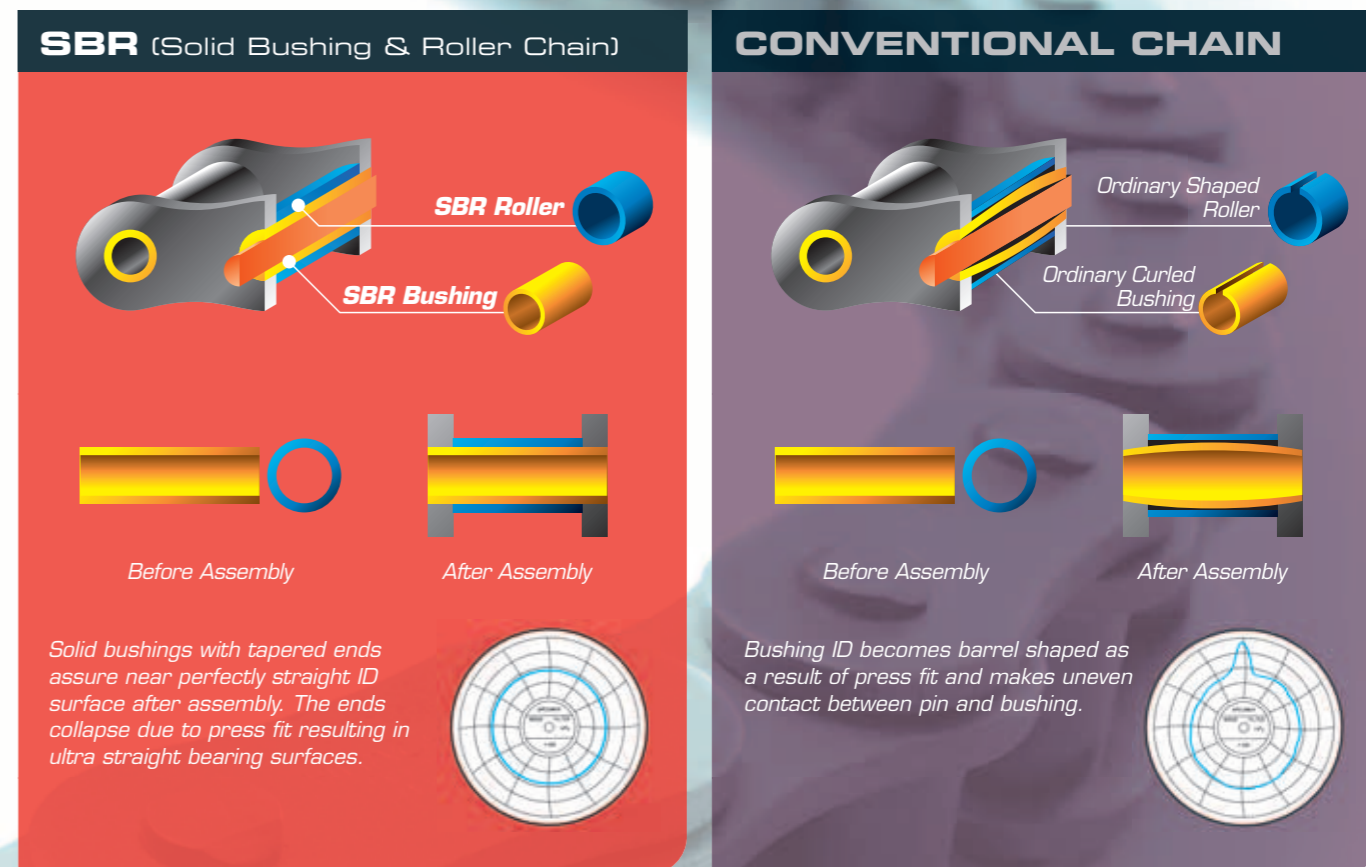
The curled, split bushings have a seam where tiny space allows lubricant leakage resulting in shorter wear life. SBR has no seam resulting in lower bearing pressure allowing the bushings to retain lubrication resulting in much longer wear life.

Reliable performance

SBR is cold-forged from steel rod. Cold-forming process also works with the molecular structure (grain) of the steel running lengthwise in the bushings thereby increasing fatigue strength as well as preventing bushings from breakage. Hitachi SBR chain improves performance of transmission with minimizing elongation for long period of time.



Mechanism of how SBR supersedes other competitors for more than 20 years



WEAR RESISTANCE

Hitachi Solid Bushing & Roller Chain shows HIGHER wear resistance

