Solid Bushing & Roller Chain

ZEXUS
JAPAN INDUSTRIAL CHAINS



ZEXUS CHAIN Co., Ltd.

Powerful Performance

+30% Maximum Allowa

- 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)	ZEXUS (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

30% UP!

BS	Competitor (kN)	ZEXUS (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

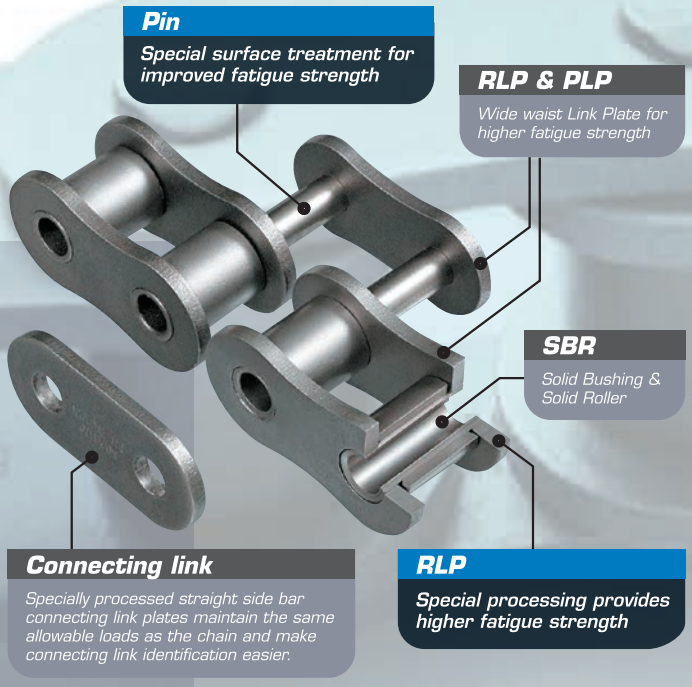
30% UP!

Fundamental Structure of 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, SBR chain improves performance of transmission with minimizing elongation for long period of time.



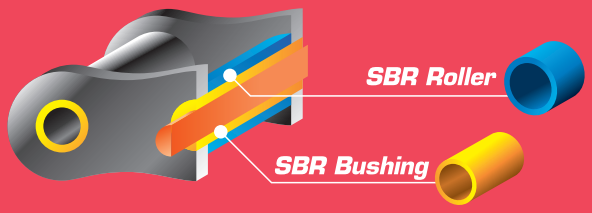
Solid Bushing & Roller Chain

SBR

ble Load 30%UP!

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

SBR (Solid Bushing & Roller Chain)



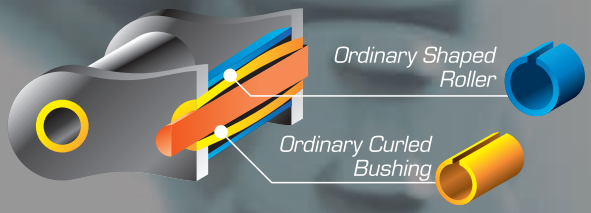


Before Assembly | After Assembly

Solid bushings with tapered ends assure near perfectly straight ID surface after assembly. The ends collapse due to press fit resulting in ultra straight bearing surfaces.



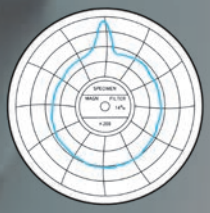
CONVENTIONAL CHAIN





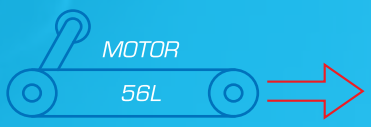
Before Assembly | After Assembly

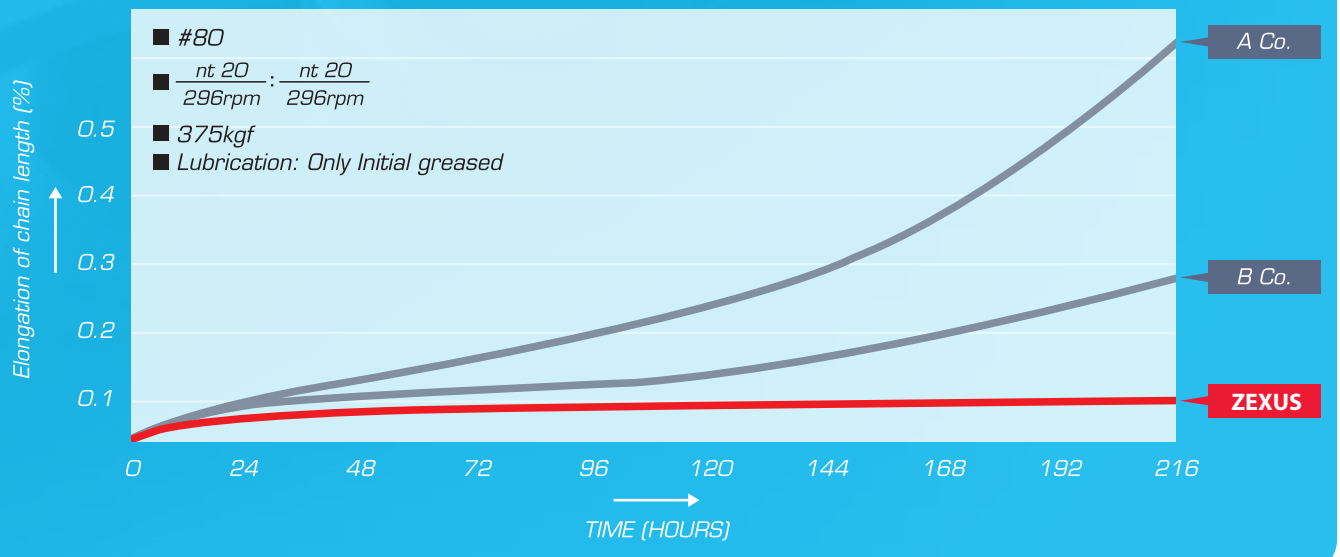
Bushing ID becomes barrel shaped as a result of press fit and makes uneven contact between pin and bushing.



WEAR RESISTANCE

Solid Bushing & Roller Chain shows HIGHER wear resistance





ZEXUS CHAIN Co., Ltd.

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