TYC heavy duty roller chains are based on ANSI / ISO standards, but incorporate additional design features, manufacturing steps and process control to provide higher strength and better performance than standard ANSI / ISO chains. TYC heavy duty roller chains are the ideal solution for the most demanding applications because of their superior design and top quality workmanship.

# ROLLER CHAIN

#### Features:



#### Extra link plate thickness

Provides greater shock load resistance and higher ultimate tensile strength



#### Wider waist design of link plates

Ensures greater fatigue strength (maximizes allowable load)



#### Through-hardened pins

Provides greater shock load resistance and higher ultimate tensile strength



#### Solid bushings and rollers

Perfectly cylindrical inside wall reduces stretch and wear during initial operation



#### Heat treatment stability

Heat treatment process control ensures durability and uniformity



#### Shot peened parts

Chain parts are shot peened for greater fatigue strength



#### Ball drifting

Ensures greater fatigue strength (maximizes allowable load)



#### Chain preloading

Ensures durability and reduces initial elongation

TYC heavy duty roller chains are directly interchangeable with standard ANSI / ISO chains and are compatible with standard ANSI / ISO sprockets.



### ANSI/ISO Heavy (H) series

Chains have thicker link plates and throughhardened pins for greater shock resistance. Provides higher tensile and fatigue strength.



#### ANSI Super (S) series

Chains have wider-waist link plates & throughhardened pins for greater shock resistance. Provides higher fatigue strength.



# ANSI Super Heavy (HS) series

Chains have the same features as S series plus thicker link plates. Provides even higher tensile and fatique strength.



#### ANSI API series

Chains have the same features as S & HS series plus ball-drifted link plate apertures. Provides the highest tensile and fatigue strength.



#### ISO Super (S) series

Chains have wider-waist link plates for greater shock resistance. Provides higher fatigue strength.

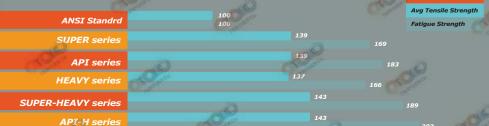


## ISO Super Heavy (HS) series

Chains have thicker link plates and through-hardened pins for greater shock resistance. Provides higher tensile and fatigue strength.



# TYC Heavy Duty Roller Chain Tensile Strength and Fatigue Strength Comparison



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