

DRIVE GEOMETRY FOR SI CHAIN TENSIONERS

SI chain tensioners are a great solution to provide a constant amount of tension to a chain drive. They are easy to install, maintenance free, and significantly increase the life your chain drive. They also offer one of the best solutions to tensioning REVERSING drives. It is important that the proper steps are taken to insure the drive geometry is suitable. Following these basic parameters will ensure good performance and life.

STANDARD SELECTION CRITERIA

$R_1 = D/d =$ Sprocket Ratio

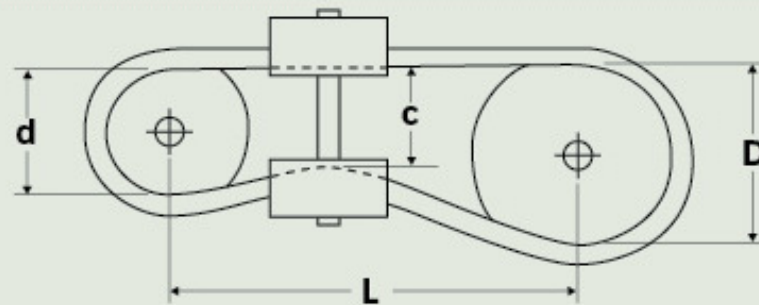
$R_2 = D/L =$ Drive Aspect Ratio

$R_3 = c/d =$ Constant Ratio

R_1 must be less than 4

R_2 should be less than or equal to 0.5

R_3 should be less than or equal to 0.85



It is also important to know the rate or speed of the chain. SI tensioners are constructed from UHMW thermoplastics for maximum abrasion resistance and life. If the chain is moving faster than 800 F.P.M (linear velocity) it will affect the performance and reduce the life of the tensioner. For marginal conditions we can suggest modifications that will work. Call us.

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