

Mast Chain

Mast Chains - Used in various applications, leaf chains are regulated by ANSI. They could be utilized for forklift masts, as balancers between heads and counterweight in some machine devices, and for low-speed pulling and tension linkage. Leaf chains are occasionally even referred to as Balance Chains.

Construction and Features

Made of a simple pin construction and link plate, steel leaf chains is identified by a number that refers to the pitch and the lacing of the links. The chains have specific features like high tensile strength for every section area, which allows the design of smaller mechanisms. There are B- and A+ type chains in this particular series and both the AL6 and BL6 Series include the same pitch as RS60. Lastly, these chains cannot be powered utilizing sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates have higher fatigue resistance because of the compressive stress of press fits, while in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the most allowable tension is low. If handling leaf chains it is essential to consult the manufacturer's guidebook so as to guarantee the safety factor is outlined and utilize safety guards at all times. It is a great idea to exercise extreme caution and use extra safety measures in applications wherein the consequences of chain failure are severe.

Utilizing more plates in the lacing causes the higher tensile strength. In view of the fact that this does not improve the utmost permissible tension directly, the number of plates utilized may be limited. The chains require regular lubrication since the pins link directly on the plates, producing an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled over one thousand times every day or if the chain speed is over 30m for each minute, it would wear very fast, even with constant lubrication. Therefore, in either of these conditions utilizing RS Roller Chains would be much more suitable.

The AL-type of chains should just be utilized under particular situations such as if wear is not a huge problem, when there are no shock loads, the number of cycles does not go beyond one hundred a day. The BL-type will be better suited under other conditions.

The stress load in parts would become higher if a chain using a lower safety factor is selected. If the chain is even utilized among corrosive situations, it could easily fatigue and break extremely quick. Performing frequent maintenance is really vital if operating under these kinds of situations.

The type of end link of the chain, whether it is an outer link or inner link, determines the shape of the clevis. Clevis connectors or likewise called Clevis pins are constructed by manufacturers but normally, the user provides the clevis. A wrongly constructed clevis can reduce the working life of the chain. The strands must be finished to length by the producer. Refer to the ANSI standard or phone the producer.