Mast Chains

Mast Chains - Utilized in various applications, leaf chains are regulated by ANSI. They could be utilized for lift truck masts, as balancers between heads and counterweight in several machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes likewise known as Balance Chains.

Construction and Features

Leaf chains are steel chains using a simple link plate and pin construction. The chain number refers to the lacing of the links and the pitch. The chains have certain features like high tensile strength for every section area, that allows the design of smaller machines. There are A- and B- kind chains in this series and both the AL6 and BL6 Series contain the same pitch as RS60. Finally, these chains cannot be driven with sprockets.

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance due to the compressive stress of press fits, yet the leaf chain just has two outer press fit plates. On the leaf chain, the most acceptable tension is low and the tensile strength is high. Whenever handling leaf chains it is vital to check with the manufacturer's guidebook so as to ensure the safety factor is outlined and use safety guards always. It is a good idea to exercise utmost caution and utilize extra safety guards in functions wherein the consequences of chain failure are severe.

Using much more plates in the lacing leads to the higher tensile strength. In view of the fact that this does not improve the utmost acceptable tension directly, the number of plates used could be limited. The chains require frequent lubrication for the reason that the pins link directly on the plates, producing a very high bearing pressure. Utilizing a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled over one thousand times each day or if the chain speed is over 30m per minute, it will wear really quick, even with continual lubrication. Therefore, in either of these conditions utilizing RS Roller Chains will be more suitable.

AL type chains are just to be used under particular conditions such as where there are no shock loads or if wear is not really a big issue. Make sure that the number of cycles does not go beyond one hundred on a daily basis. The BL-type will be better suited under different situations.

If a chain utilizing a lower safety factor is selected then the stress load in parts would become higher. If chains are used with corrosive elements, then they may become fatigued and break quite easily. Doing regular maintenance is really important if operating under these kinds of conditions.

The outer link or inner link kind of end link on the chain will determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are constructed by manufacturers, but the user normally supplies the clevis. A wrongly made clevis can lessen the working life of the chain. The strands must be finished to length by the producer. Refer to the ANSI standard or call the maker.