Mast Chain

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

Construction and Features

Constructed of a simple pin construction and link plate, steel leaf chains is identified by a number which refers to the pitch and the lacing of the links. The chains have certain features like for example high tensile strength for every section area, which enables the design of smaller devices. There are A- and B- type chains in this series and both the BL6 and AL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered using 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, whereas in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the most acceptable tension is low. Whenever handling leaf chains it is vital to confer with the manufacturer's instruction manual so as to ensure the safety factor is outlined and utilize safety guards all the time. It is a better idea to apply utmost care and use extra safety measures in applications wherein the consequences of chain failure are serious.

Using a lot more plates in the lacing causes the higher tensile strength. Since this does not improve the most permissible tension directly, the number of plates utilized could be limited. The chains need frequent 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 often suggested for most applications. If the chain is cycled more than one thousand times every day or if the chain speed is more than 30m for every minute, it would wear extremely fast, even with constant lubrication. Therefore, in either of these situations using RS Roller Chains would be more suitable.

The AL-type of chains should just be used under particular situations like for example if wear is really not a big issue, if there are no shock loads, the number of cycles does not go beyond a hundred day after day. The BL-type would be better suited under various conditions.

The stress load in parts would become higher if a chain utilizing a lower safety factor is selected. If the chain is even used amongst corrosive conditions, it could easily fatigue and break very fast. Doing regular maintenance is important when operating under these kinds of situations.

The type of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or also called Clevis pins are constructed by manufacturers but often, the user provides the clevis. An improperly made clevis can lessen the working life of the chain. The strands must be finished to length by the manufacturer. Check the ANSI standard or get in touch with the maker.