Mast Chains

Mast Chain - Utilized in different applications, leaf chains are regulated by ANSI. They can be utilized for forklift masts, as balancers between counterweight and heads in several machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are occasionally also referred to as Balance Chains.

Features and Construction

Leaf chains are steel chains with a simple pin construction and link plate. The chain number 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 machines. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series include the same pitch as RS60. Finally, these chains cannot be driven utilizing sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance because of the compressive stress of press fits, yet the leaf chain just contains two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. Whenever handling leaf chains it is important to confer with the manufacturer's manual to be able to ensure the safety factor is outlined and use safety measures at all times. It is a better idea to carry out extreme caution and use extra safety measures in applications where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of more plates. As the use of more plates does not enhance the maximum allowable tension directly, the number of plates may be limited. The chains require regular lubrication in view of the fact that the pins link directly on the plates, producing a very high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently advised for the majority of applications. If the chain is cycled over one thousand times on a daily basis or if the chain speed is over 30m for every minute, it would wear really fast, even with constant lubrication. Therefore, in either of these situations the use of RS Roller Chains will be a lot more suitable.

The AL-type of chains should just be utilized under certain situations like for instance when wear is not a big issue, if there are no shock loads, the number of cycles does not exceed a hundred day after day. The BL-type will be better suited under other conditions.

If a chain with a lower safety factor is selected then the stress load in components will become higher. If chains are utilized with corrosive elements, then they can become fatigued and break somewhat easily. Performing frequent maintenance is really important if operating under these kinds of conditions.

The inner link or outer link type of end link on the chain would determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are made by manufacturers, but the user normally supplies the clevis. An improperly constructed clevis can lessen the working life of the chain. The strands should be finished to length by the manufacturer. Check the ANSI standard or phone the maker.