Mast Chain

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

Features and Construction

Leaf chains are actually steel chains using a simple pin construction and link plate. The chain number refers to the pitch and the lacing of the links. The chains have particular features like high tensile strength for each section area, which allows the design of smaller devices. There are B- and A+ kind chains in this series and both the BL6 and AL6 Series have the same pitch as RS60. Lastly, these chains cannot be powered with sprockets.

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance because of the compressive stress of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the most acceptable tension is low and the tensile strength is high. While handling leaf chains it is essential to consult the manufacturer's handbook so as to ensure the safety factor is outlined and utilize safety measures at all times. It is a good idea to apply extreme caution and use extra safety guards in applications where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of a lot more plates. As the use of a lot more plates does not improve the maximum acceptable tension directly, the number of plates can be limited. The chains require frequent lubrication for the reason that the pins link directly on the plates, producing a very high bearing pressure. Making use of a SAE 30 or 40 machine oil is normally suggested for most applications. If the chain is cycled more than 1000 times daily or if the chain speed is over 30m per minute, it will wear really quick, even with constant lubrication. Thus, in either of these situations utilizing RS Roller Chains will be a lot more suitable.

AL type chains are only to be used under particular situations like where there are no shock loads or when wear is not really a huge issue. Be sure that the number of cycles does not go over a hundred on a daily basis. The BL-type will be better suited under other conditions.

If a chain using a lower safety factor is selected then the stress load in components would become higher. If chains are utilized with corrosive elements, then they could become fatigued and break somewhat easily. Doing regular maintenance is 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 made by manufacturers but usually, the user supplies the clevis. A wrongly constructed clevis can decrease the working life of the chain. The strands should be finished to length by the manufacturer. Refer to the ANSI standard or phone the producer.