Mast Chain

Mast Chains - Utilized in different functions, leaf chains are regulated by ANSI. They can be used for lift truck masts, as balancers between heads and counterweight in several machine gadgets, and for low-speed pulling and tension linkage. Leaf chains are at times also known 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 lacing of the links and the pitch. The chains have particular features such as high tensile strength for each section area, which allows the design of smaller devices. There are A- and B- type chains in this series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be driven utilizing sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates have higher fatigue resistance due to 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 permissible tension is low. If handling leaf chains it is vital to check with the manufacturer's catalogue so as to guarantee the safety factor is outlined and utilize safety measures always. It is a good idea to carry out utmost caution and utilize extra safety measures in functions where the consequences of chain failure are severe.

Using a lot more plates in the lacing causes the higher tensile strength. Because this does not enhance the utmost allowable tension directly, the number of plates utilized could be restricted. The chains require frequent lubrication because the pins link directly on the plates, generating a really high bearing pressure. Using a SAE 30 or 40 machine oil is frequently suggested for most applications. If the chain is cycled over 1000 times daily or if the chain speed is more than 30m for each minute, it would wear really fast, even with continuous lubrication. So, in either of these situations using RS Roller Chains will be more suitable.

The AL-type of chains must only be utilized under certain conditions such as when wear is not a big concern, 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 other conditions.

If a chain utilizing a lower safety factor is chosen then the stress load in parts would become higher. If chains are used with corrosive elements, then they could become fatigued and break quite easily. Performing frequent maintenance is really important if operating under these types of situations.

The outer link or inner link kind of end link on the chain would determine the shape of the clevis. Clevis connectors or likewise known as Clevis pins are constructed by manufacturers, but the user typically supplies the clevis. A wrongly made clevis can decrease the working life of the chain. The strands should be finished to length by the producer. Check the ANSI standard or contact the manufacturer.