

Mast Chains

Mast Chains - Utilized in different functions, leaf chains are regulated by ANSI. They can be utilized for lift truck masts, as balancers between heads and counterweight in several machine devices, and for tension linkage and low-speed pulling. Leaf chains are occasionally likewise called Balance Chains.

Features and Construction

Leaf chains are actually 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 particular features like high tensile strength for each section area, that allows the design of smaller machines. There are B- and A+ type chains in this particular series and both the BL6 and AL6 Series include the same pitch as RS60. Lastly, these chains cannot be powered using sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance due to the compressive stress of press fits, while in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the utmost permissible tension is low. While handling leaf chains it is essential to check with the manufacturer's catalogue so as to guarantee the safety factor is outlined and use safety guards all the time. It is a good idea to exercise utmost care and utilize extra safety measures in functions where the consequences of chain failure are severe.

Utilizing a lot more plates in the lacing causes the higher tensile strength. In view of the fact that this does not improve the maximum allowable tension directly, the number of plates used can be limited. The chains require regular lubrication for the reason that the pins link directly on the plates, producing a really high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently advised for nearly all applications. If the chain is cycled over one thousand times day after day or if the chain speed is over 30m for each minute, it will wear really rapidly, even with continual lubrication. So, in either of these conditions the use of RS Roller Chains will be much more suitable.

The AL-type of chains must just be used under certain conditions like for example if wear is not a big problem, if there are no shock loads, the number of cycles does not exceed one hundred every day. The BL-type will be better suited under different situations.

The stress load in components would become higher if a chain with a lower safety factor is selected. If the chain is also used among corrosive situations, it could easily fatigue and break extremely quick. Doing regular maintenance is really essential if operating under these types of conditions.

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 constructed by manufacturers but normally, the user provides the clevis. An improperly constructed 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 get in touch with the producer.