

Mast Chains

Mast Chains - Utilized in various functions, leaf chains are regulated by ANSI. They can be used for lift truck masts, as balancers between counterweight and heads in some machine devices, and for tension linkage and low-speed pulling. Leaf chains are at times likewise referred to as Balance Chains.

Features and Construction

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

Handling and Selection

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 utmost acceptable tension is low. While handling leaf chains it is essential to confer with the manufacturer's handbook so as to ensure the safety factor is outlined and use safety measures at all times. It is a better idea to carry out utmost caution and use extra safety measures in applications wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the use of much more plates. For the reason that the use of more plates does not improve the maximum allowable tension directly, the number of plates could be limited. The chains need frequent lubrication as the pins link directly on the plates, producing a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is often suggested for most applications. If the chain is cycled over one thousand times on a daily basis or if the chain speed is over 30m per minute, it would wear extremely quick, even with continuous lubrication. So, in either of these conditions the use of RS Roller Chains would be much more suitable.

AL type chains are only to be utilized under particular conditions like for instance where there are no shock loads or if wear is not a big problem. Make sure that the number of cycles does not go beyond a hundred every day. The BL-type would be better suited under various conditions.

If a chain with a lower safety factor is selected then the stress load in parts will become higher. If chains are used with corrosive elements, then they can become fatigued and break quite easily. Doing regular maintenance is really vital when operating under these types of conditions.

The kind 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 normally, the user supplies the clevis. An improperly made clevis can lessen the working life of the chain. The strands must be finished to length by the manufacturer. Refer to the ANSI standard or phone the maker.