

Forklift Mast Chain

Mast Chains - Used in various applications, leaf chains are regulated by ANSI. They could be used for lift truck masts, as balancers between heads and counterweight in some machine devices, and for tension linkage and low-speed pulling. Leaf chains are at times even called Balance Chains.

Features and Construction

Made of a simple link plate and pin construction, steel leaf chains is identified by a number that refers to the pitch and the lacing of the links. The chains have certain features such as high tensile strength for every section area, that enables the design of smaller mechanisms. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered with sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance due to the compressive tension 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. If handling leaf chains it is essential to confer with the manufacturer's instruction booklet to be able to guarantee the safety factor is outlined and utilize safety guards always. It is a great idea to apply extreme care and utilize extra safety measures in functions wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the use of more plates. For the reason that the use of more plates does not enhance the utmost 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, generating a really high bearing pressure. Using a SAE 30 or 40 machine oil is frequently advised for most applications. If the chain is cycled more than one thousand times each day or if the chain speed is more than 30m for every minute, it would wear very quick, even with continual lubrication. Thus, in either of these conditions utilizing RS Roller Chains will be more suitable.

AL type chains are only to be used under certain conditions like for example where there are no shock loads or when wear is not a huge issue. Make sure that the number of cycles does not go over one hundred every day. The BL-type would be better suited under various situations.

If a chain utilizing 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 frequent maintenance is vital when operating under these kinds of conditions.

The kind of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or likewise called Clevis pins are made by manufacturers but often, the user provides the clevis. An improperly made 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 maker.