

Mast Chains

Forklift Mast Chain - Utilized in different functions, leaf chains are regulated by ANSI. They could be utilized for lift truck masts, as balancers between heads and counterweight in some 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 utilizing 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 for example high tensile strength per section area, which allows the design of smaller devices. There are A- and B- kind chains in this series and both the AL6 and BL6 Series contain the same pitch as RS60. Lastly, these chains cannot be powered using sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance because of the compressive stress of press fits, while in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the most acceptable tension is low. When handling leaf chains it is important to confer with the manufacturer's instruction manual in order to guarantee the safety factor is outlined and utilize safety guards all the time. It is a good idea to exercise utmost care and use extra safety measures in applications where the consequences of chain failure are serious.

Using a lot more plates in the lacing causes the higher tensile strength. In view of the fact that this does not enhance the maximum permissible tension directly, the number of plates utilized can be limited. The chains need regular lubrication in view of the fact that the pins link directly on the plates, generating an extremely high bearing pressure. Using a SAE 30 or 40 machine oil is often advised for nearly all applications. If the chain is cycled more than 1000 times each day or if the chain speed is more than 30m for each minute, it would wear very fast, even with continual lubrication. Therefore, in either of these situations utilizing RS Roller Chains would be a lot more suitable.

AL type chains are only to be utilized under particular situations such as where there are no shock loads or if wear is not really a huge concern. Make certain that the number of cycles does not exceed one hundred day after day. The BL-type would be better suited under various situations.

If a chain using a lower safety factor is chosen then the stress load in components would become higher. If chains are utilized with corrosive elements, then they may become fatigued and break quite easily. Performing frequent maintenance is really vital if operating under these types of conditions.

The outer link or inner link type of end link on the chain will determine the shape of the clevis. Clevis connectors or also known as Clevis pins are constructed by manufacturers, but the user typically provides the clevis. An improperly constructed clevis can reduce the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or contact the producer.