

Forklift Mast Chain

Forklift Mast Chains - Utilized in various functions, leaf chains are regulated by ANSI. They can be utilized 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 occasionally likewise called Balance Chains.

Features and Construction

Leaf chains are 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 specific features like for instance high tensile strength for each section area, which allows the design of smaller machines. There are A- and B- type chains in this series and both the BL6 and AL6 Series have the same pitch as RS60. Lastly, these chains cannot be driven using sprockets.

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance because of the compressive stress of press fits, yet the leaf chain just contains two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. When handling leaf chains it is essential to confer with the manufacturer's manual so as to ensure the safety factor is outlined and utilize safety guards at all times. It is a great idea to carry out utmost caution and utilize extra safety guards in functions wherein the consequences of chain failure are serious.

Using much more plates in the lacing causes the higher tensile strength. As this does not improve the utmost acceptable tension directly, the number of plates used could be limited. The chains require frequent lubrication because the pins link directly on the plates, producing an extremely high bearing pressure. Using a SAE 30 or 40 machine oil is normally advised for nearly all applications. If the chain is cycled more than 1000 times in a day or if the chain speed is over 30m for every minute, it will wear really fast, even with continuous lubrication. Therefore, in either of these situations utilizing RS Roller Chains will be much more suitable.

AL type chains are just to be used under certain conditions like where there are no shock loads or when wear is not a big concern. Make positive that the number of cycles does not go over a hundred on a daily basis. 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 will become higher. If chains are utilized with corrosive elements, then they could become fatigued and break rather easily. Doing regular maintenance is really vital when operating under these kinds of situations.

The inner link or outer link type of end link on the chain will 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. An improperly made clevis could decrease the working life of the chain. The strands should be finished to length by the manufacturer. Check the ANSI standard or contact the manufacturer.