Forklift Mast Chains

Mast Chains - Leaf Chains have various applications and are regulated by ANSI. They are intended for forklift masts, for low-speed pulling and tension linkage, and as balancers between head and counterweight in certain machine gadgets. Leaf chains are sometimes likewise referred to as Balance Chains.

Features and Construction

Constructed of a simple pin construction and link plate, steel leaf chains is identified by a number which refers to the lacing of the links and the pitch. The chains have specific features like high tensile strength for each section area, that enables the design of smaller mechanisms. There are A- and B- kind chains in this particular series and both the BL6 and AL6 Series contain the same pitch as RS60. Lastly, these chains cannot be driven using sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain just contains two outer press fit plates. On the leaf chain, the most permissible tension is low and the tensile strength is high. If handling leaf chains it is essential to consult the manufacturer's handbook in order to guarantee the safety factor is outlined and use safety guards at all times. It is a great idea to exercise utmost care and utilize extra safety guards in functions where the consequences of chain failure are serious.

Utilizing much more plates in the lacing leads to the higher tensile strength. Since this does not improve the most acceptable tension directly, the number of plates utilized may be restricted. The chains need regular lubrication because the pins link directly on the plates, generating a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is often advised for the majority of applications. If the chain is cycled more than one thousand times every day or if the chain speed is over 30m for every minute, it would wear extremely fast, even with continuous lubrication. Therefore, in either of these conditions utilizing RS Roller Chains would be a lot more suitable.

The AL-type of chains must only be utilized under certain situations like if wear is not a big issue, if there are no shock loads, the number of cycles does not exceed a hundred day by day. The BL-type will 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 rather easily. Performing regular maintenance is vital if operating under these kinds of conditions.

The type 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 normally, the user provides the clevis. An improperly made clevis can decrease the working life of the chain. The strands must be finished to length by the manufacturer. Refer to the ANSI standard or call the maker.