

Forklift Mast Chains

Mast Chains - Used in different applications, leaf chains are regulated by ANSI. They could be utilized for lift truck masts, as balancers between heads and counterweight in several machine gadgets, and for low-speed pulling and tension linkage. Leaf chains are at times even referred to as Balance Chains.

Construction and Features

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 for example high tensile strength for every section area, which enables the design of smaller devices. 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 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 maximum acceptable tension is low and the tensile strength is high. When handling leaf chains it is important to confer with the manufacturer's catalogue so as to guarantee the safety factor is outlined and use safety guards all the time. It is a great idea to apply utmost caution and use extra safety guards in functions wherein the consequences of chain failure are severe.

Using much more plates in the lacing leads to the higher tensile strength. Because this does not improve the most allowable tension directly, the number of plates utilized can be limited. The chains require frequent 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 frequently suggested for nearly all applications. If the chain is cycled over one thousand times every day or if the chain speed is over 30m per minute, it will wear extremely fast, even with continuous lubrication. So, in either of these situations utilizing RS Roller Chains would be more suitable.

The AL-type of chains should only be utilized under particular conditions like for example if wear is really not a huge concern, if there are no shock loads, the number of cycles does not go over a hundred daily. The BL-type will be better suited under different situations.

If a chain utilizing a lower safety factor is selected then the stress load in parts would become higher. If chains are utilized with corrosive elements, then they can become fatigued and break rather easily. Doing frequent maintenance is really essential if operating under these kinds 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 constructed by manufacturers but usually, the user provides the clevis. An improperly constructed clevis could decrease the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or get in touch with the manufacturer.