

Mast Chains

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

Features and Construction

Constructed 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 like for instance high tensile strength per section area, that allows the design of smaller machines. There are A- and B- kind chains in this series and both the AL6 and BL6 Series contain the same pitch as RS60. Finally, these chains cannot be driven utilizing sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates have higher fatigue resistance because of the compressive stress of press fits, while in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the most allowable tension is low. When handling leaf chains it is vital to check with the manufacturer's instruction manual to be able to guarantee the safety factor is outlined and use safety guards always. It is a good idea to carry out extreme care and utilize extra safety guards in applications where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the utilization of more plates. Because the utilization of much more plates does not enhance the most acceptable tension directly, the number of plates could be limited. The chains need regular lubrication since the pins link directly on the plates, generating an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently 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 will wear really rapidly, even with continuous lubrication. Therefore, in either of these conditions utilizing RS Roller Chains would be more suitable.

The AL-type of chains must just be used under particular conditions like for example if wear is really not a big concern, if there are no shock loads, the number of cycles does not exceed one hundred a day. The BL-type will be better suited under different conditions.

The stress load in parts will become higher if a chain using a lower safety factor is chosen. If the chain is likewise utilized among corrosive situations, it could easily fatigue and break really fast. Doing regular maintenance is vital when operating under these types of situations.

The inner link or outer link kind of end link on the chain would determine the shape of the clevis. Clevis connectors or also known as Clevis pins are constructed by manufacturers, but the user usually supplies the clevis. An improperly made clevis can reduce the working life of the chain. The strands must be finished to length by the maker. Refer to the ANSI standard or contact the manufacturer.