Forklift Mast Chains

Mast Chains - Used in various functions, leaf chains are regulated by ANSI. They could be used for forklift masts, as balancers between counterweight and heads in some machine tools, and for tension linkage and low-speed pulling. Leaf chains are at times likewise called Balance Chains.

Construction and Features

Leaf chains are steel chains using a simple pin construction and link plate. The chain number refers to the lacing of the links and the pitch. The chains have certain features like for instance high tensile strength for every section area, that enables the design of smaller devices. There are B- and A+ kind chains in this particular series and both the BL6 and AL6 Series comprise the same pitch as RS60. Lastly, these chains cannot be powered utilizing sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates have higher fatigue resistance due to 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 permissible tension is low. Whenever handling leaf chains it is important to check with the manufacturer's instruction manual in order to ensure the safety factor is outlined and use safety measures always. It is a better idea to exercise extreme care and utilize extra safety measures in applications where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of more plates. For the reason that the use of much more plates does not enhance the utmost allowable tension directly, the number of plates may be limited. The chains require frequent lubrication because the pins link directly on the plates, producing a very high bearing pressure. Utilizing a SAE 30 or 40 machine oil is often advised for the majority of applications. If the chain is cycled over one thousand times in a day or if the chain speed is more than 30m for every minute, it would wear really fast, even with continuous lubrication. Hence, in either of these conditions utilizing RS Roller Chains will be a lot more suitable.

The AL-type of chains should only be used under certain conditions like for example if wear is not a huge problem, if there are no shock loads, the number of cycles does not go beyond a hundred daily. The BL-type will be better suited under various situations.

The stress load in components 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 very quick. Performing frequent maintenance is really essential when 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 made by manufacturers but often, the user provides 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 get in touch with the maker.