

Forklift Mast Chains

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

Features and Construction

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

Handling and Selection

Comparably, in roller chains, all of the link plates have higher fatigue resistance because of the compressive stress of press fits, whereas in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the maximum permissible tension is low. While handling leaf chains it is important to confer with the manufacturer's instruction manual so as to guarantee the safety factor is outlined and utilize safety measures all the time. It is a better idea to apply extreme care and utilize extra safety measures in functions where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the utilization of a lot more plates. In view of the fact that the use of a lot more plates does not enhance the maximum allowable tension directly, the number of plates can be restricted. The chains require frequent lubrication in view of the fact that the pins link directly on the plates, producing 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 more than one thousand times in a day or if the chain speed is more than 30m for every minute, it will wear extremely rapidly, even with continuous lubrication. Hence, in either of these situations utilizing RS Roller Chains would be much more suitable.

The AL-type of chains should only be used under certain situations like if wear is really not a big problem, when there are no shock loads, the number of cycles does not exceed 100 daily. The BL-type will be better suited under different situations.

The stress load in components would become higher if a chain with a lower safety factor is chosen. If the chain is also used among corrosive conditions, it could easily fatigue and break really quick. Performing frequent maintenance is important when operating under these types 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 often, the user provides the clevis. A wrongly 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 phone the maker.