

Forklift Mast Chain

Forklift Mast Chains - Used in different functions, leaf chains are regulated by ANSI. They could be used for lift truck masts, as balancers between heads and counterweight in some machine tools, and for low-speed pulling and tension linkage. Leaf chains are sometimes also referred to as Balance Chains.

Features and Construction

Leaf chains are actually steel chains using a simple pin construction and link plate. The chain number refers to the pitch and the lacing of the links. The chains have certain features like for instance high tensile strength for every section area, which allows the design of smaller mechanisms. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series have the same pitch as RS60. Lastly, these chains cannot be powered with 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 acceptable tension is low. While handling leaf chains it is essential to confer with the manufacturer's handbook to be able to ensure the safety factor is outlined and utilize safety measures all the time. It is a better idea to apply utmost caution and use extra safety guards in functions wherein the consequences of chain failure are serious.

Utilizing a lot more plates in the lacing causes the higher tensile strength. In view of the fact that this does not enhance the utmost allowable tension directly, the number of plates utilized can be restricted. The chains require frequent lubrication since the pins link directly on the plates, producing a very high bearing pressure. Using a SAE 30 or 40 machine oil is normally suggested for the majority of applications. If the chain is cycled more than one thousand times in a day or if the chain speed is over 30m for every minute, it would wear extremely fast, even with continuous lubrication. Hence, in either of these conditions the use of RS Roller Chains would be more suitable.

AL type chains are only to be utilized under certain conditions like for instance where there are no shock loads or when wear is not a big problem. Be sure that the number of cycles does not go beyond 100 on a daily basis. The BL-type will be better suited under various situations.

If a chain using a lower safety factor is chosen then the stress load in components would become higher. If chains are utilized with corrosive elements, then they could become fatigued and break somewhat easily. Performing regular maintenance is really important if operating under these types of conditions.

The inner link or outer link type of end link on the chain would determine the shape of the clevis. Clevis connectors or likewise known as Clevis pins are made by manufacturers, but the user normally provides the clevis. An improperly made clevis could decrease the working life of the chain. The strands must be finished to length by the producer. Refer to the ANSI standard or get in touch with the manufacturer.