

Forklift Mast Chains

Forklift Mast Chain - Leaf Chains comprise different applications and are regulated by ANSI. They are used for tension linkage, lift truck masts and for low-speed pulling, and as balancers between head and counterweight in several machine gadgets. Leaf chains are sometimes also called Balance Chains.

Construction and Features

Made of a simple link plate and pin construction, steel leaf chains is identified by a number which refers to the pitch and the lacing of the links. The chains have particular features like for example high tensile strength for each section area, that allows the design of smaller machines. There are A- and B- type chains in this particular series and both the BL6 and AL6 Series have the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain only contains two outer press fit plates. On the leaf chain, the most allowable tension is low and the tensile strength is high. Whenever handling leaf chains it is vital to consult the manufacturer's guidebook so as 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 applications wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of more plates. Since the utilization of a lot more plates does not improve the most permissible tension directly, the number of plates could be limited. The chains need regular lubrication for the reason that the pins link directly on the plates, producing an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is often suggested for the majority of applications. If the chain is cycled more than one thousand times day after day or if the chain speed is over 30m for each minute, it will wear really rapidly, even with continual lubrication. So, in either of these conditions utilizing RS Roller Chains will be more suitable.

The AL-type of chains must just be utilized under certain situations like for example if wear is really not a huge issue, if there are no shock loads, the number of cycles does not go beyond 100 each day. The BL-type will be better suited under different situations.

The stress load in components would become higher if a chain using a lower safety factor is selected. If the chain is even used amongst corrosive conditions, it could easily fatigue and break very fast. Performing regular maintenance is important when operating under these types of situations.

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 otherwise called Clevis pins are made by manufacturers but usually, the user supplies the clevis. A wrongly made clevis could decrease the working life of the chain. The strands should be finished to length by the producer. Refer to the ANSI standard or call the producer.