

Forklift Mast Chain

Mast Chain - Leaf Chains consist of different functions and are regulated by ANSI. They are utilized for tension linkage, lift truck masts and for low-speed pulling, and as balancers between counterweight and head in several machine tools. Leaf chains are at times even referred to as Balance Chains.

Construction and Features

Leaf chains are actually 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 such as high tensile strength for every section area, which enables the design of smaller devices. There are B- and A+ kind chains in this particular series and both the AL6 and BL6 Series have the same pitch as RS60. Lastly, these chains cannot be driven with sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain just has two outer press fit plates. On the leaf chain, the most permissible tension is low and the tensile strength is high. When handling leaf chains it is essential to consult the manufacturer's catalogue so as to ensure the safety factor is outlined and use safety measures always. It is a great idea to exercise extreme care and utilize extra safety guards in functions wherein the consequences of chain failure are serious.

Utilizing much more plates in the lacing results in the higher tensile strength. Because this does not enhance the most allowable tension directly, the number of plates utilized could be limited. The chains need regular lubrication because the pins link directly on the plates, producing an extremely high bearing pressure. Using a SAE 30 or 40 machine oil is often advised for most applications. If the chain is cycled over 1000 times each day or if the chain speed is more than 30m per minute, it will wear extremely fast, even with constant lubrication. Hence, in either of these conditions using RS Roller Chains will be more suitable.

The AL-type of chains should just be utilized under certain conditions like for instance if wear is not a huge issue, if there are no shock loads, the number of cycles does not exceed a hundred on a daily basis. The BL-type will be better suited under different situations.

If a chain utilizing a lower safety factor is selected then the stress load in parts will become higher. If chains are utilized with corrosive elements, then they could become fatigued and break somewhat easily. Doing regular maintenance is important if operating under these types of situations.

The kind of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or likewise called Clevis pins are made by manufacturers but normally, the user supplies the clevis. An improperly constructed clevis could reduce the working life of the chain. The strands must be finished to length by the manufacturer. Check the ANSI standard or get in touch with the manufacturer.