Forklift Mast Chains

Mast Chains - Leaf Chains comprise different applications and are regulated by ANSI. They are intended for forklift masts, for low-speed pulling and tension linkage, and as balancers between head and counterweight in certain machine gadgets. Leaf chains are sometimes likewise called Balance Chains.

Construction and Features

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

Handling and Selection

In roller chains, the link plates have a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the most acceptable tension is low and the tensile strength is high. When handling leaf chains it is important to check with the manufacturer's manual so as to guarantee the safety factor is outlined and use safety measures all the time. It is a better idea to exercise utmost caution and use extra safety guards in functions where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the use of a lot more plates. Since the use of a lot more plates does not enhance the most allowable tension directly, the number of plates can be limited. The chains require regular lubrication because the pins link directly on the plates, producing an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently suggested for nearly all applications. If the chain is cycled over 1000 times on a daily basis or if the chain speed is more than 30m for every minute, it will wear really quick, even with continuous lubrication. Therefore, in either of these situations utilizing RS Roller Chains would be a lot more suitable.

AL type chains are just to be used under particular situations like where there are no shock loads or if wear is not a big concern. Make certain that the number of cycles does not go beyond a hundred on a daily basis. The BL-type would be better suited under different conditions.

The stress load in parts will become higher if a chain using a lower safety factor is chosen. If the chain is also utilized among corrosive conditions, it could easily fatigue and break really fast. Performing regular maintenance is vital when operating under these kinds of conditions.

The outer link or inner link kind of end link on the chain will determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are constructed by manufacturers, but the user normally provides the clevis. A wrongly made clevis can lessen the working life of the chain. The strands must be finished to length by the manufacturer. Refer to the ANSI standard or call the manufacturer.