Forklift Mast Chain

Mast Chains - Used in different applications, leaf chains are regulated by ANSI. They could be utilized for forklift masts, as balancers between heads and counterweight in several machine devices, and for low-speed pulling and tension linkage. Leaf chains are occasionally likewise referred to as Balance Chains.

Features and Construction

Constructed of a simple link plate and pin construction, steel leaf chains is identified by a number that refers to the lacing of the links and the pitch. The chains have certain features such as high tensile strength for every section area, that allows the design of smaller machines. There are B- and A+ type chains in this series and both the BL6 and AL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered with sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance because of the compressive stress of press fits, while in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the utmost acceptable tension is low. Whenever handling leaf chains it is vital to confer with the manufacturer's catalogue so as to guarantee the safety factor is outlined and utilize safety guards at all times. It is a good idea to exercise extreme care and utilize extra safety guards in applications where the consequences of chain failure are serious.

Utilizing a lot more plates in the lacing leads to the higher tensile strength. For the reason that this does not improve the utmost allowable tension directly, the number of plates used could be limited. The chains need 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 advised for the majority of applications. If the chain is cycled more than one thousand times on a daily basis or if the chain speed is over 30m for each minute, it will wear very quick, even with continual lubrication. Thus, in either of these conditions utilizing RS Roller Chains will be more suitable.

The AL-type of chains must only be used under certain conditions like if wear is not a big concern, when there are no shock loads, the number of cycles does not go beyond one hundred each day. The BL-type will be better suited under other situations.

If a chain with a lower safety factor is selected then the stress load in parts would become higher. If chains are utilized with corrosive elements, then they can become fatigued and break rather easily. Doing frequent maintenance is really essential when operating under these types of situations.

The outer link or inner link type of end link on the chain would determine the shape of the clevis. Clevis connectors or likewise known as Clevis pins are constructed by manufacturers, but the user typically supplies the clevis. An improperly made clevis can reduce the working life of the chain. The strands must be finished to length by the producer. Check the ANSI standard or contact the producer.