Forklift Mast Chains

Mast Chains - Utilized in various applications, leaf chains are regulated by ANSI. They can be used for lift truck masts, as balancers between counterweight and heads in some machine devices, and for tension linkage and low-speed pulling. Leaf chains are at times likewise referred to as Balance Chains.

Construction and Features

Leaf chains are steel chains utilizing a simple pin construction and link plate. The chain number refers to the pitch and the lacing of the links. The chains have particular features like for instance high tensile strength per section area, which allows the design of smaller mechanisms. There are B- and A+ kind chains in this particular series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

Selection and Handling

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance due to the compressive stress of press fits, whereas 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. If handling leaf chains it is vital to consult the manufacturer's manual in order to ensure the safety factor is outlined and use safety guards at all times. It is a better idea to apply extreme care and utilize 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. In view of the fact that the use of more plates does not enhance the most allowable tension directly, the number of plates can be limited. The chains require regular lubrication in view of the fact 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 normally advised for nearly all applications. If the chain is cycled over one thousand times day after day or if the chain speed is more than 30m per minute, it would wear extremely quick, even with continual lubrication. So, in either of these conditions utilizing RS Roller Chains would be a lot more suitable.

AL type chains are only to be used under particular situations like for instance where there are no shock loads or when wear is not really a big concern. Be positive that the number of cycles does not exceed one hundred day after day. The BL-type would be better suited under various situations.

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

The inner link or outer link type of end link on the chain will determine the shape of the clevis. Clevis connectors or Clevis pins are constructed by manufacturers, but the user typically 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 call the producer.