Mast Chain

Forklift Mast Chains - Used in different functions, 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 tension linkage and low-speed pulling. Leaf chains are at times also referred to as Balance Chains.

Construction and Features

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 specific features like high tensile strength per section area, that enables the design of smaller devices. There are B- and A+ kind chains in this particular series and both the AL6 and BL6 Series include the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates have 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 most permissible tension is low. If handling leaf chains it is important to consult the manufacturer's instruction booklet so as to guarantee the safety factor is outlined and utilize safety guards at all times. It is a good idea to apply utmost care and use extra safety measures in functions wherein the consequences of chain failure are severe.

Using a lot more plates in the lacing results in the higher tensile strength. In view of the fact that this does not enhance the utmost permissible tension directly, the number of plates utilized can be restricted. The chains need regular lubrication for the reason that the pins link directly on the plates, generating a very high bearing pressure. Using a SAE 30 or 40 machine oil is often suggested for the majority of applications. If the chain is cycled over one thousand times every day or if the chain speed is over 30m per minute, it will wear extremely rapidly, even with continuous lubrication. Thus, in either of these situations utilizing RS Roller Chains will be a lot more suitable.

The AL-type of chains should only be used under certain situations like for instance when wear is not a big concern, if there are no shock loads, the number of cycles does not exceed 100 each day. The BL-type will be better suited under different conditions.

The stress load in parts would become higher if a chain utilizing a lower safety factor is chosen. If the chain is even utilized amongst corrosive situations, it could easily fatigue and break very fast. Performing regular maintenance is essential when operating under these kinds of conditions.

The type of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or otherwise called Clevis pins are made by manufacturers but often, the user provides the clevis. A wrongly constructed clevis could reduce the working life of the chain. The strands should be finished to length by the manufacturer. Refer to the ANSI standard or contact the producer.