Forklift Mast Chain

Forklift Mast Chains - Leaf Chains have several functions and are regulated by ANSI. They are designed for lift truck masts, for low-speed pulling and tension linkage, and as balancers between head and counterweight in some machine gadgets. Leaf chains are sometimes likewise called Balance Chains.

Construction and Features

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

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain just contains two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. Whenever handling leaf chains it is essential to consult the manufacturer's manual to be able to guarantee the safety factor is outlined and utilize safety measures always. It is a great idea to carry out extreme care and utilize extra safety guards in functions wherein the consequences of chain failure are severe.

Using more plates in the lacing causes the higher tensile strength. Since this does not improve the utmost permissible tension directly, the number of plates utilized can be restricted. The chains require frequent lubrication because the pins link directly on the plates, producing a really high bearing pressure. Using a SAE 30 or 40 machine oil is often 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 each minute, it will wear extremely rapidly, even with continuous lubrication. Therefore, in either of these conditions utilizing RS Roller Chains will be a lot more suitable.

AL type chains are just to be utilized under certain conditions like for instance where there are no shock loads or if wear is not really a huge concern. Be positive that the number of cycles does not go beyond one hundred per day. The BL-type will be better suited under different conditions.

If a chain using a lower safety factor is selected then the stress load in parts would become higher. If chains are used with corrosive elements, then they may become fatigued and break quite easily. Doing frequent maintenance is really vital if operating under these types of situations.

The type of end link of the chain, whether it is an outer link or inner link, determines the shape of the clevis. Clevis connectors or otherwise called Clevis pins are made by manufacturers but usually, the user supplies the clevis. A wrongly constructed clevis could decrease the working life of the chain. The strands should be finished to length by the manufacturer. Check the ANSI standard or get in touch with the manufacturer.