Mast Chain

Forklift Mast Chain - Leaf Chains consist of several functions and are regulated by ANSI. They are used for lift truck masts, for low-speed pulling and tension linkage, and as balancers between counterweight and head in some machine tools. Leaf chains are at times also known as Balance Chains.

Construction and Features

Leaf chains are steel chains with 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 high tensile strength for every section area, that allows the design of smaller mechanisms. There are B- and A+ kind chains in this particular series and both the BL6 and AL6 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 have higher fatigue resistance because of the compressive stress of press fits, whereas in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the utmost permissible tension is low. If handling leaf chains it is important to consult the manufacturer's guidebook to be able to guarantee the safety factor is outlined and utilize safety measures always. It is a good idea to carry out extreme care and use extra safety guards in applications where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of a lot more plates. Since the use of a lot more plates does not improve the most permissible tension directly, the number of plates could be restricted. The chains require frequent lubrication because the pins link directly on the plates, producing an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is often suggested for nearly all applications. If the chain is cycled more than one thousand times day by day or if the chain speed is over 30m for each minute, it will wear extremely fast, even with constant lubrication. So, in either of these conditions the use of RS Roller Chains will be more suitable.

The AL-type of chains must only be used under particular conditions such as if wear is really not a huge issue, when there are no shock loads, the number of cycles does not go over 100 day after day. The BL-type would be better suited under different situations.

The stress load in components will become higher if a chain utilizing a lower safety factor is chosen. If the chain is likewise utilized amongst corrosive situations, it could easily fatigue and break extremely fast. Performing regular maintenance is vital if operating under these kinds of situations.

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 also 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 maker. Check the ANSI standard or get in touch with the maker.