Mast Chains

Forklift Mast Chain - Leaf Chains have various functions and are regulated by ANSI. They are meant for low-speed pulling, for tension linkage and lift truck masts, and as balancers between counterweight and head in several machine devices. Leaf chains are sometimes likewise referred to as Balance Chains.

Construction and Features

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

Selection and Handling

In roller chains, the link plates maintain a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain just has two outer press fit plates. On the leaf chain, the maximum allowable tension is low and the tensile strength is high. While handling leaf chains it is important to check with the manufacturer's manual so as to ensure the safety factor is outlined and utilize safety measures at all times. It is a good idea to apply utmost care and utilize extra safety measures in functions where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of more plates. As the utilization of a lot more plates does not enhance the most permissible tension directly, the number of plates may be restricted. The chains need regular lubrication since the pins link directly on the plates, producing a really high bearing pressure. Using a SAE 30 or 40 machine oil is frequently suggested for most applications. If the chain is cycled more than 1000 times day by day or if the chain speed is over 30m per minute, it would wear really rapidly, even with constant lubrication. So, in either of these situations using RS Roller Chains would be a lot more suitable.

AL type chains are just to be used under particular situations like for instance where there are no shock loads or if wear is not a big issue. Make positive that the number of cycles does not exceed a hundred every day. The BL-type would be better suited under different conditions.

The stress load in parts would become higher if a chain using a lower safety factor is selected. If the chain is likewise utilized amongst corrosive situations, it could easily fatigue and break extremely fast. Doing regular maintenance is vital when operating under these types of situations.

The inner link or outer link type of end link on the chain would determine the shape of the clevis. Clevis connectors or also known as Clevis pins are constructed by manufacturers, but the user usually supplies the clevis. A wrongly constructed clevis can reduce the working life of the chain. The strands must be finished to length by the producer. Refer to the ANSI standard or contact the manufacturer.