Forklift Mast Chains

Forklift Mast Chain - Used in different applications, leaf chains are regulated by ANSI. They can be utilized for forklift masts, as balancers between counterweight and heads in some machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes even referred to as Balance Chains.

Construction and Features

Made of a simple pin construction and link plate, steel leaf chains is identified by a number that refers to the lacing of the links and the pitch. The chains have certain features like for instance high tensile strength for every section area, that enables the design of smaller mechanisms. There are A- and B- type chains in this particular series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be driven with sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the maximum allowable tension is low and the tensile strength is high. If handling leaf chains it is vital to check with the manufacturer's guidebook in order to ensure the safety factor is outlined and use safety measures all the time. It is a good idea to exercise utmost care and utilize extra safety measures in applications where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the utilization of more plates. Because the utilization of a lot more plates does not enhance the maximum allowable tension directly, the number of plates may be restricted. The chains need frequent lubrication as the pins link directly on the plates, generating an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled more than 1000 times on a daily basis or if the chain speed is more than 30m for every minute, it would wear really fast, even with continual lubrication. Hence, in either of these situations utilizing RS Roller Chains would be more suitable.

AL type chains are just to be utilized under particular conditions like for example where there are no shock loads or if wear is not a big concern. Make sure that the number of cycles does not go beyond a hundred day after day. The BL-type will be better suited under various conditions.

The stress load in components will become higher if a chain using a lower safety factor is selected. If the chain is even utilized amongst corrosive conditions, it can easily fatigue and break really quick. Doing frequent 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 likewise called Clevis pins are constructed by manufacturers but often, the user supplies the clevis. A wrongly constructed clevis can decrease the working life of the chain. The strands must be finished to length by the manufacturer. Refer to the ANSI standard or call the manufacturer.