Forklift Mast Chain

Forklift Mast Chain - Utilized in various functions, leaf chains are regulated by ANSI. They can be used for lift truck masts, as balancers between counterweight and heads in some machine devices, and for low-speed pulling and tension linkage. Leaf chains are at times likewise referred to as Balance Chains.

Features and Construction

Constructed of a simple pin construction and link plate, steel leaf chains is identified by a number which refers to the lacing of the links and the pitch. The chains have particular features such as high tensile strength for every section area, which allows the design of smaller machines. There are A- and B- type chains in this particular series and both the BL6 and AL6 Series have the same pitch as RS60. Lastly, these chains cannot be powered using sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance due to the compressive stress of press fits, yet the leaf chain just has two outer press fit plates. On the leaf chain, the most acceptable tension is low and the tensile strength is high. If handling leaf chains it is vital to confer with the manufacturer's catalogue in order to ensure the safety factor is outlined and utilize safety measures always. It is a better idea to carry out extreme caution 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 much more plates. In view of the fact that the use of more plates does not enhance the maximum permissible tension directly, the number of plates can be restricted. The chains need frequent lubrication as the pins link directly on the plates, generating an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently advised for nearly all applications. If the chain is cycled more than 1000 times day after day or if the chain speed is over 30m for every minute, it would wear really fast, even with continuous lubrication. So, in either of these situations using RS Roller Chains will be more suitable.

AL type chains are only to be utilized under certain situations like for instance where there are no shock loads or if wear is not a big concern. Be sure that the number of cycles does not go over one hundred on a daily basis. The BL-type would be better suited under various situations.

If a chain utilizing a lower safety factor is selected then the stress load in parts would become higher. If chains are used with corrosive elements, then they can become fatigued and break quite easily. Performing frequent maintenance is essential if operating under these kinds of situations.

The inner link or outer link kind of end link on the chain will determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are constructed by manufacturers, but the user typically supplies the clevis. A wrongly made clevis could lessen the working life of the chain. The strands must be finished to length by the producer. Check the ANSI standard or call the maker.