

Forklift Mast Chain

Mast Chains - Leaf Chains comprise various applications and are regulated by ANSI. They are designed for low-speed pulling, for tension linkage and forklift masts, and as balancers between counterweight and head in some machine gadgets. Leaf chains are sometimes even referred to as Balance Chains.

Features and Construction

Made 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 certain features like for example high tensile strength for every section area, which allows the design of smaller devices. There are A- and B- kind chains in this series and both the AL6 and BL6 Series include the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

Handling and Selection

In roller chains, the link plates have 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 most permissible tension is low and the tensile strength is high. Whenever handling leaf chains it is important to confer with the manufacturer's instruction manual in order to ensure the safety factor is outlined and use safety measures always. It is a great idea to carry out utmost care and utilize extra safety guards in functions where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of a lot more plates. Since the utilization of a lot more plates does not enhance the utmost permissible tension directly, the number of plates may be restricted. The chains require frequent lubrication as the pins link directly on the plates, producing an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently suggested for nearly all applications. If the chain is cycled over 1000 times day by day or if the chain speed is over 30m for each minute, it would wear really rapidly, even with constant lubrication. Thus, in either of these conditions the use of RS Roller Chains would be much more suitable.

AL type chains are only to be used under particular situations like where there are no shock loads or when wear is not a big problem. Be positive that the number of cycles does not exceed one hundred daily. The BL-type would be better suited under various situations.

If a chain using a lower safety factor is selected then the stress load in components will become higher. If chains are utilized with corrosive elements, then they could become fatigued and break rather easily. Performing regular maintenance is essential if operating under these types of situations.

The outer link or inner link kind of end link on the chain would determine the shape of the clevis. Clevis connectors or also known as Clevis pins are made by manufacturers, but the user typically supplies the clevis. An improperly made clevis could reduce the working life of the chain. The strands should be finished to length by the producer. Check the ANSI standard or phone the producer.