

Mast Chain

Forklift Mast Chains - Used in different functions, leaf chains are regulated by ANSI. They could be utilized for lift truck masts, as balancers between heads and counterweight in several machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes even referred to as Balance Chains.

Construction and Features

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- kind chains in this series and both the AL6 and BL6 Series comprise the same pitch as RS60. Lastly, these chains cannot be driven using sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance because of the compressive stress of press fits, whereas in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the maximum permissible tension is low. Whenever handling leaf chains it is important to consult the manufacturer's manual to be able to ensure the safety factor is outlined and use safety measures at all times. It is a better idea to apply extreme caution and use extra safety measures in applications where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of a lot more plates. As the use of much more plates does not improve the maximum acceptable tension directly, the number of plates can be restricted. The chains require frequent lubrication because the pins link directly on the plates, generating a very high bearing pressure. Using a SAE 30 or 40 machine oil is frequently suggested for the majority of applications. If the chain is cycled more than one thousand times in a day or if the chain speed is more than 30m per minute, it will wear extremely rapidly, even with continual lubrication. Therefore, in either of these conditions using RS Roller Chains would be much more suitable.

AL type chains are only to be used under certain situations like for example where there are no shock loads or if wear is not really a big problem. Be sure that the number of cycles does not go over 100 every day. The BL-type would be better suited under various situations.

The stress load in components would become higher if a chain with a lower safety factor is selected. If the chain is also utilized among corrosive conditions, it could easily fatigue and break very fast. Doing frequent maintenance is essential when operating under these kinds of situations.

The type of end link of the chain, whether it is an outer link or inner link, determines the shape of the clevis. Clevis connectors or otherwise called Clevis pins are made by manufacturers but usually, the user supplies the clevis. A wrongly made clevis could decrease the working life of the chain. The strands must be finished to length by the manufacturer. Check the ANSI standard or call the producer.