

Mast Chain

Forklift Mast Chain - Leaf Chains consist of several applications and are regulated by ANSI. They are intended for tension linkage, forklift masts and for low-speed pulling, and as balancers between head and counterweight in several machine tools. Leaf chains are at times also known as Balance Chains.

Construction and Features

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

Selection and Handling

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, just two outer plates are press fit. The tensile strength of leaf chains is high and the utmost permissible tension is low. When handling leaf chains it is vital to check with the manufacturer's catalogue in order to ensure the safety factor is outlined and use safety guards all the time. It is a good idea to exercise extreme care and utilize extra safety guards in functions where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of a lot more plates. For the reason that the use of more plates does not improve the maximum permissible tension directly, the number of plates could be limited. The chains require regular lubrication since the pins link directly on the plates, generating a very high bearing pressure. Using a SAE 30 or 40 machine oil is often suggested for nearly all applications. If the chain is cycled over 1000 times day by day or if the chain speed is more than 30m for every minute, it would wear very rapidly, even with continuous lubrication. Thus, in either of these conditions the use of RS Roller Chains will be a lot more suitable.

The AL-type of chains should only be utilized under certain situations like for example when wear is really not a huge problem, if there are no shock loads, the number of cycles does not exceed 100 on a daily basis. The BL-type will 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 even utilized among corrosive conditions, it can easily fatigue and break extremely fast. Performing regular maintenance is vital when operating under these types of conditions.

The kind of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or also called Clevis pins are made by manufacturers but usually, the user provides the clevis. A wrongly constructed clevis can lessen the working life of the chain. The strands should be finished to length by the producer. Check the ANSI standard or contact the maker.