

## Mast Chain

Forklift Mast Chains - Utilized in different applications, leaf chains are regulated by ANSI. They can be utilized for forklift masts, as balancers between heads and counterweight in several machine gadgets, and for low-speed pulling and tension linkage. Leaf chains are sometimes also called Balance Chains.

### Features and Construction

Constructed 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 specific features such as high tensile strength for each section area, that allows the design of smaller machines. There are A- and B- kind chains in this series and both the BL6 and AL6 Series have the same pitch as RS60. Finally, these chains cannot be driven utilizing sprockets.

### Handling and Selection

Comparably, in roller chains, all of the link plates have higher fatigue resistance due to the compressive stress of press fits, while in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the maximum acceptable tension is low. If handling leaf chains it is important to consult the manufacturer's guidebook so as to ensure the safety factor is outlined and use safety measures at all times. It is a good idea to carry out extreme care and utilize extra safety measures in applications wherein the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of a lot more plates. Since the use of a lot more plates does not improve the most acceptable tension directly, the number of plates could be restricted. The chains need frequent lubrication because the pins link directly on the plates, producing a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is often advised for the majority of applications. If the chain is cycled more than one thousand times every day or if the chain speed is over 30m for each minute, it will wear really fast, even with constant lubrication. So, in either of these situations the use of RS Roller Chains will be much more suitable.

The AL-type of chains should just be utilized under certain situations such as if wear is not a huge issue, if there are no shock loads, the number of cycles does not exceed a hundred each day. The BL-type would be better suited under different conditions.

If a chain using a lower safety factor is selected then the stress load in components would become higher. If chains are used with corrosive elements, then they can become fatigued and break rather easily. Doing regular maintenance is important when operating under these kinds of conditions.

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 often, the user supplies the clevis. An improperly made clevis can decrease the working life of the chain. The strands should be finished to length by the manufacturer. Refer to the ANSI standard or phone the maker.