

## Forklift Mast Chains

Mast Chains - Utilized in various applications, leaf chains are regulated by ANSI. They can be used for forklift masts, as balancers between counterweight and heads in some machine tools, and for low-speed pulling and tension linkage. Leaf chains are occasionally even referred to as Balance Chains.

### Features and Construction

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

### Handling and Selection

In roller chains, the link plates have a higher fatigue resistance because of the compressive stress of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the most permissible tension is low and the tensile strength is high. If handling leaf chains it is essential to consult the manufacturer's instruction manual in order to guarantee the safety factor is outlined and utilize safety guards always. It is a better idea to carry out extreme caution and use extra safety guards in applications wherein the consequences of chain failure are serious.

Using more plates in the lacing results in the higher tensile strength. Because this does not enhance the maximum allowable tension directly, the number of plates used could be limited. The chains require regular lubrication for the reason that the pins link directly on the plates, generating an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is often suggested for the majority of applications. If the chain is cycled over 1000 times day after day or if the chain speed is more than 30m per minute, it would wear really quick, even with constant lubrication. So, in either of these situations utilizing RS Roller Chains would be a lot more suitable.

AL type chains are just to be used under certain conditions like for example where there are no shock loads or if wear is not really a big problem. Be positive that the number of cycles does not go beyond a hundred day by 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 likewise used amongst corrosive situations, it could easily fatigue and break extremely quick. Doing regular maintenance is essential if operating under these kinds of situations.

The kind of end link of the chain, whether it is an outer link or inner link, determines the shape of the clevis. Clevis connectors or also called Clevis pins are constructed by manufacturers but usually, the user provides the clevis. An improperly constructed clevis could decrease the working life of the chain. The strands must be finished to length by the maker. Refer to the ANSI standard or call the manufacturer.