

## Forklift Mast Chain

Mast Chains - Leaf Chains have different functions and are regulated by ANSI. They are meant for tension linkage, forklift masts and for low-speed pulling, and as balancers between head and counterweight in some machine devices. Leaf chains are sometimes even known as Balance Chains.

### Construction and Features

Leaf chains are steel chains utilizing a simple pin construction and link plate. The chain number refers to the pitch and the lacing of the links. The chains have certain features like for example high tensile strength for each section area, that enables the design of smaller mechanisms. There are B- and A+ kind chains in this particular series and both the AL6 and BL6 Series have the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

### Handling and Selection

In roller chains, the link plates maintain a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. When handling leaf chains it is vital to consult the manufacturer's handbook in order to ensure the safety factor is outlined and use safety measures always. It is a great idea to apply 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 utilization of much more plates. In view of the fact that the utilization of a lot more plates does not improve the most allowable tension directly, the number of plates can be restricted. The chains need regular lubrication because the pins link directly on the plates, generating a very high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently suggested for nearly all applications. If the chain is cycled over one thousand times daily or if the chain speed is over 30m for every minute, it would wear very quick, even with continual lubrication. So, in either of these situations the use of RS Roller Chains would be more suitable.

AL type chains are just to be utilized under particular situations like for instance where there are no shock loads or when wear is not a big issue. Make certain that the number of cycles does not exceed a hundred every day. The BL-type would be better suited under various conditions.

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 can become fatigued and break quite easily. Performing frequent maintenance is really important when operating under these kinds of conditions.

The type of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or likewise called Clevis pins are made by manufacturers but normally, the user provides the clevis. An improperly made clevis could decrease the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or get in touch with the producer.