

## Forklift Mast Chains

Mast Chains - Used in various applications, leaf chains are regulated by ANSI. They can be utilized for forklift masts, as balancers between heads and counterweight in several machine devices, and for tension linkage and low-speed pulling. Leaf chains are at times likewise referred to as Balance Chains.

### Construction and Features

Made 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 certain features such as high tensile strength per section area, which enables the design of smaller mechanisms. There are B- and A+ type chains in this particular series and both the BL6 and AL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered using sprockets.

### Handling and Selection

In roller chains, the link plates maintain a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain only contains two outer press fit plates. On the leaf chain, the maximum acceptable tension is low and the tensile strength is high. If handling leaf chains it is vital to consult the manufacturer's instruction booklet so as to guarantee the safety factor is outlined and utilize safety guards all the time. It is a great idea to carry out utmost care and use extra safety measures in functions wherein the consequences of chain failure are serious.

Using a lot more plates in the lacing leads to the higher tensile strength. Since this does not enhance the most acceptable tension directly, the number of plates used could be restricted. The chains require frequent lubrication as the pins link directly on the plates, generating an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is often advised for most applications. If the chain is cycled more than 1000 times day by day or if the chain speed is over 30m for each minute, it would wear really quick, even with continual lubrication. So, in either of these situations utilizing RS Roller Chains will be more suitable.

AL type chains are just to be utilized under particular conditions such as where there are no shock loads or if wear is not really a big issue. Be certain that the number of cycles does not go beyond one hundred per day. The BL-type would be better suited under other situations.

The stress load in components will become higher if a chain using a lower safety factor is selected. If the chain is even used among corrosive situations, it can easily fatigue and break really quick. Performing frequent maintenance is vital if operating under these kinds of situations.

The inner link or outer link kind of end link on the chain will determine the shape of the clevis. Clevis connectors or Clevis pins are made by manufacturers, but the user usually provides the clevis. A wrongly made clevis can decrease the working life of the chain. The strands should be finished to length by the maker. Refer to the ANSI standard or phone the maker.