

Mast Chain

Mast Chain - Used in different applications, leaf chains are regulated by ANSI. They could be used for lift truck masts, as balancers between heads and counterweight in some machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes likewise called Balance Chains.

Features and Construction

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

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain just contains two outer press fit plates. On the leaf chain, the most allowable tension is low and the tensile strength is high. When handling leaf chains it is vital to check with the manufacturer's catalogue so as to ensure the safety factor is outlined and use safety guards all the time. It is a great idea to apply utmost caution and use extra safety guards in functions where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the use of more plates. In view of the fact that the utilization of a lot more plates does not enhance 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 very high bearing pressure. Making use of a SAE 30 or 40 machine oil is normally advised for nearly all applications. If the chain is cycled more than 1000 times every day or if the chain speed is more than 30m per minute, it would wear extremely quick, even with constant lubrication. Therefore, in either of these conditions the use of RS Roller Chains would be much more suitable.

AL type chains are only to be used under certain situations like where there are no shock loads or if wear is not a big problem. Make sure that the number of cycles does not exceed 100 daily. The BL-type will be better suited under different conditions.

The stress load in parts will become higher if a chain using a lower safety factor is selected. If the chain is likewise used among corrosive conditions, it could easily fatigue and break very quick. Doing frequent maintenance is really vital if operating under these types of conditions.

The inner link or outer link kind of end link on the chain would determine the shape of the clevis. Clevis connectors or Clevis pins are made by manufacturers, but the user usually supplies the clevis. A wrongly constructed clevis could reduce the working life of the chain. The strands should be finished to length by the producer. Check the ANSI standard or get in touch with the producer.