

Mast Chains

Forklift Mast Chain - Leaf Chains comprise several applications and are regulated by ANSI. They are used for tension linkage, lift truck masts and for low-speed pulling, and as balancers between counterweight and head in certain machine tools. Leaf chains are at times likewise referred to as Balance Chains.

Construction and Features

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 like high tensile strength for every section area, that enables the design of smaller devices. There are B- and A+ kind chains in this particular series and both the BL6 and AL6 Series have 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 because of the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the most allowable tension is low and the tensile strength is high. Whenever handling leaf chains it is important to confer with the manufacturer's handbook so as to guarantee the safety factor is outlined and use safety measures always. It is a great idea to exercise utmost caution and utilize extra safety guards in functions wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of a lot more plates. For the reason that the utilization of much more plates does not enhance the maximum permissible tension directly, the number of plates could be limited. The chains require regular lubrication for the reason that 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 suggested for most applications. If the chain is cycled over 1000 times in a day or if the chain speed is over 30m per minute, it would wear very rapidly, even with constant lubrication. So, in either of these situations using RS Roller Chains would be a lot more suitable.

The AL-type of chains should just be utilized under certain situations like for instance if wear is not a huge concern, if there are no shock loads, the number of cycles does not go over one hundred a day. The BL-type would be better suited under other situations.

The stress load in components would become higher if a chain utilizing a lower safety factor is selected. If the chain is also used amongst corrosive conditions, it could easily fatigue and break extremely fast. Doing regular maintenance is essential if operating under these types 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 also called Clevis pins are made by manufacturers but often, the user supplies the clevis. A wrongly made clevis could reduce the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or contact the maker.