Hyster Mast Chains

Utilized in various functions, leaf chains are regulated by ANSI. They can be used for forklift masts, as balancers between counterweight and heads in several machine tools, and for low-speed pulling and tension linkage. Leaf chains are sometimes likewise called Balance Chains.

Construction and Features

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

Handling and Selection

In roller chains, the link plates have a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain just has 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 essential to consult the manufacturer's instruction manual in order to guarantee the safety factor is outlined and use safety measures at all times. It is a good idea to apply utmost care and use extra safety guards in functions wherein the consequences of chain failure are serious.

Using a lot more plates in the lacing results in the higher tensile strength. As this does not enhance the most permissible tension directly, the number of plates utilized could be restricted. The chains need regular lubrication because the pins link directly on the plates, producing an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently advised for most 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 continual lubrication. Therefore, in either of these conditions the use of RS Roller Chains would be much more suitable.

The AL-type of chains must just be utilized under certain situations like for example if wear is really not a huge concern, when there are no shock loads, the number of cycles does not go beyond 100 on a daily basis. The BL-type will be better suited under various conditions.

The stress load in components will become higher if a chain utilizing a lower safety factor is selected. If the chain is also utilized amongst corrosive conditions, it could easily fatigue and break very fast. Doing regular maintenance is really vital if operating under these types of conditions.

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 likewise called Clevis pins are constructed by manufacturers but often, the user supplies the clevis. An improperly constructed clevis could lessen the working life of the chain. The strands should be finished to length by the maker. Refer to the ANSI standard or call the producer.