Mast Chain

Mast Chains - Used in different functions, leaf chains are regulated by ANSI. They can be used for forklift masts, as balancers between heads and counterweight in several machine tools, and for low-speed pulling and tension linkage. Leaf chains are occasionally also referred to as Balance Chains.

Features and Construction

Constructed of a simple link plate and pin construction, 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 each section area, that enables the design of smaller devices. There are A- and B- kind chains in this particular series and both the BL6 and AL6 Series comprise the same pitch as RS60. Lastly, these chains cannot be powered utilizing 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 maximum permissible tension is low and the tensile strength is high. While handling leaf chains it is essential to confer with the manufacturer's guidebook to be able to ensure the safety factor is outlined and utilize safety measures always. It is a better idea to carry out utmost care and utilize extra safety measures in functions wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of more plates. For the reason that the utilization of much more plates does not enhance the utmost acceptable tension directly, the number of plates can be restricted. The chains need frequent lubrication since the pins link directly on the plates, generating a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is normally suggested for nearly all applications. If the chain is cycled more than one thousand times in a day or if the chain speed is over 30m per minute, it would wear really quick, even with continual lubrication. Therefore, in either of these conditions using RS Roller Chains would be a lot more suitable.

AL type chains are only to be utilized under certain situations such as where there are no shock loads or when wear is not really a huge concern. Make certain that the number of cycles does not go beyond a hundred every day. The BL-type would 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 also used amongst corrosive situations, it could easily fatigue and break very quick. Performing regular maintenance is essential when operating under these kinds of situations.

The outer link or inner 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 provides the clevis. A wrongly constructed clevis could lessen the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or contact the producer.