Forklift Mast Chain

Mast Chains - Utilized in various applications, leaf chains are regulated by ANSI. They could be used for lift truck masts, as balancers between heads and counterweight in some machine tools, and for low-speed pulling and tension linkage. Leaf chains are at times even called Balance Chains.

Construction and Features

Leaf chains are steel chains using a simple pin construction and link plate. The chain number refers to the pitch and the lacing of the links. The chains have specific features such as high tensile strength for each section area, which allows the design of smaller devices. There are A- and B- kind chains in this series and both the BL6 and AL6 Series have the same pitch as RS60. Lastly, these chains cannot be powered utilizing 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 has two outer press fit plates. On the leaf chain, the maximum acceptable tension is low and the tensile strength is high. When handling leaf chains it is essential to check with the manufacturer's guidebook so as to guarantee the safety factor is outlined and use safety measures always. It is a great idea to exercise extreme caution and use extra safety guards in applications wherein the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of much more plates. Since the utilization of more plates does not enhance the maximum acceptable tension directly, the number of plates can be limited. The chains need regular lubrication for the reason that the pins link directly on the plates, generating a really high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently advised for most applications. If the chain is cycled more than one thousand times daily or if the chain speed is more than 30m for each minute, it will wear extremely quick, even with continuous lubrication. Therefore, in either of these situations the use of RS Roller Chains will be a lot more suitable.

AL type chains are only to be utilized under particular conditions like where there are no shock loads or if wear is not a huge issue. Make certain that the number of cycles does not go beyond one hundred per day. The BL-type will be better suited under various situations.

If a chain utilizing a lower safety factor is selected then the stress load in components would become higher. If chains are utilized with corrosive elements, then they may become fatigued and break somewhat easily. Performing frequent maintenance is essential if operating under these kinds of situations.

The type of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or Clevis pins are made by manufacturers but normally, the user provides the clevis. An improperly made clevis can 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.