

Forklift Mast Chains

Mast Chains - Used in various functions, leaf chains are regulated by ANSI. They can be utilized for lift truck masts, as balancers between heads and counterweight in several machine devices, and for low-speed pulling and tension linkage. Leaf chains are occasionally likewise referred to as Balance Chains.

Construction and Features

Constructed of a simple link plate and pin construction, steel leaf chains is identified by a number which refers to the lacing of the links and the pitch. The chains have particular features like for instance high tensile strength per section area, which allows the design of smaller mechanisms. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series contain the same pitch as RS60. Lastly, these chains cannot be driven utilizing sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance because of the compressive stress 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. If handling leaf chains it is essential to consult the manufacturer's catalogue to be able to ensure the safety factor is outlined and use safety measures all the time. It is a better idea to apply utmost care and use extra safety guards in applications where the consequences of chain failure are severe.

Utilizing a lot more plates in the lacing results in the higher tensile strength. As this does not enhance the maximum permissible tension directly, the number of plates used may be restricted. The chains need frequent lubrication in view of the fact that the pins link directly on the plates, generating a very high bearing pressure. Using a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled more than one thousand times daily or if the chain speed is over 30m for each minute, it will wear very quick, even with continual lubrication. So, in either of these situations utilizing RS Roller Chains would be much more suitable.

AL type chains are only to be used under certain situations like for instance where there are no shock loads or when wear is not really a huge issue. Make positive that the number of cycles does not go over 100 each day. The BL-type will be better suited under various conditions.

If a chain using a lower safety factor is chosen then the stress load in components would become higher. If chains are utilized with corrosive elements, then they can become fatigued and break somewhat easily. Doing regular maintenance is vital if operating under these types 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 likewise called Clevis pins are constructed by manufacturers but often, the user supplies the clevis. A wrongly constructed clevis can reduce the working life of the chain. The strands should be finished to length by the manufacturer. Check the ANSI standard or call the producer.