Forklift Mast Chain

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

Features and Construction

Leaf chains are actually 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 certain features like for example high tensile strength for every section area, that allows the design of smaller devices. There are B- and A+ type chains in this series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered with sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance because of the compressive stress of press fits, whereas in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the utmost allowable tension is low. Whenever handling leaf chains it is essential to confer with the manufacturer's manual so as to guarantee the safety factor is outlined and use safety guards always. It is a better idea to exercise extreme caution and utilize extra safety guards in applications wherein the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the use of more plates. Since the use of more plates does not enhance the maximum permissible tension directly, the number of plates may be restricted. The chains require frequent lubrication for the reason that the pins link directly on the plates, generating an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled over one thousand times day after day or if the chain speed is more than 30m for each minute, it would wear extremely fast, even with continual lubrication. Thus, in either of these situations utilizing RS Roller Chains will be a lot more suitable.

The AL-type of chains should just be utilized under certain conditions like when wear is not a big problem, if there are no shock loads, the number of cycles does not exceed 100 day by day. The BL-type will be better suited under different conditions.

If a chain using a lower safety factor is chosen then the stress load in parts would become higher. If chains are used with corrosive elements, then they may become fatigued and break quite easily. Doing frequent maintenance is really important when operating under these types of situations.

The inner link or outer link kind of end link on the chain will determine the shape of the clevis. Clevis connectors or likewise known as Clevis pins are constructed by manufacturers, but the user typically supplies the clevis. A wrongly made clevis could lessen the working life of the chain. The strands must be finished to length by the maker. Check the ANSI standard or call the producer.