

Forklift Mast Chains

Mast Chains - Leaf Chains comprise several applications and are regulated by ANSI. They are utilized for forklift masts, for low-speed pulling and tension linkage, and as balancers between head and counterweight in some machine gadgets. Leaf chains are at times even called Balance Chains.

Construction and Features

Leaf chains are steel chains utilizing a simple pin construction and link plate. The chain number 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, which enables the design of smaller mechanisms. There are B- and A+ kind chains in this particular series and both the AL6 and BL6 Series have the same pitch as RS60. Lastly, these chains cannot be driven using sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance due to the compressive stress of press fits, while in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the most allowable tension is low. While handling leaf chains it is important to confer with the manufacturer's guidebook in order to guarantee the safety factor is outlined and utilize safety guards always. It is a better idea to apply utmost care and use extra safety measures in functions wherein the consequences of chain failure are severe.

Utilizing much more plates in the lacing causes the higher tensile strength. In view of the fact that this does not improve the maximum permissible tension directly, the number of plates used could be limited. The chains require frequent lubrication for the reason that the pins link directly on the plates, generating a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently advised for nearly all applications. If the chain is cycled over one thousand times day by day or if the chain speed is over 30m for each minute, it would wear really rapidly, even with constant lubrication. So, in either of these conditions the use of RS Roller Chains will be much more suitable.

The AL-type of chains must only be utilized under particular situations like for instance if wear is not a big problem, when there are no shock loads, the number of cycles does not exceed a hundred day by day. The BL-type would be better suited under different conditions.

The stress load in components will become higher if a chain using a lower safety factor is chosen. If the chain is likewise used amongst corrosive situations, it can easily fatigue and break extremely fast. Performing frequent maintenance is really vital if operating under these types of conditions.

The outer link or inner link kind of end link on the chain would determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are made by manufacturers, but the user normally supplies the clevis. An improperly made clevis could decrease the working life of the chain. The strands should be finished to length by the manufacturer. Refer to the ANSI standard or contact the manufacturer.