

Forklift Mast Chains

Forklift Mast Chains - Leaf Chains comprise several functions and are regulated by ANSI. They are meant for lift truck masts, for low-speed pulling and tension linkage, and as balancers between counterweight and head in certain machine tools. Leaf chains are sometimes even called Balance Chains.

Features and Construction

Constructed of a simple pin construction and link plate, steel leaf chains is identified by a number which refers to the lacing of the links and the pitch. The chains have particular features such as high tensile strength for every section area, that enables the design of smaller machines. There are A- and B- kind chains in this series and both the AL6 and BL6 Series have the same pitch as RS60. Finally, these chains cannot be driven utilizing 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 maximum permissible tension is low. When handling leaf chains it is essential to confer with the manufacturer's manual to be able to guarantee the safety factor is outlined and use safety measures at all times. It is a great idea to exercise extreme caution and use extra safety guards in functions where the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the utilization of much more plates. As the use of much more plates does not improve the most acceptable tension directly, the number of plates may be limited. The chains require regular lubrication as the pins link directly on the plates, generating an extremely high bearing pressure. Utilizing a SAE 30 or 40 machine oil is often advised for the majority of applications. If the chain is cycled over one thousand times on a daily basis or if the chain speed is more than 30m for every minute, it will wear very fast, even with continual lubrication. Hence, in either of these conditions using RS Roller Chains would be a lot more suitable.

AL type chains are just to be used under certain conditions such as where there are no shock loads or if wear is not really a huge concern. Make certain that the number of cycles does not go beyond a hundred daily. The BL-type will be better suited under various conditions.

The stress load in components will become higher if a chain utilizing a lower safety factor is chosen. If the chain is likewise utilized among corrosive situations, it could easily fatigue and break extremely quick. Doing frequent maintenance is vital when operating under these kinds of situations.

The outer link or inner link type of end link on the chain would determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are constructed by manufacturers, but the user usually supplies the clevis. An improperly constructed clevis could lessen the working life of the chain. The strands should be finished to length by the producer. Check the ANSI standard or phone the manufacturer.