Mast Chains

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

Construction and Features

Leaf chains are steel chains using a simple link plate and pin construction. The chain number refers to the pitch and the lacing of the links. The chains have certain features such as high tensile strength for every section area, which allows the design of smaller devices. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series include the same pitch as RS60. Finally, these chains cannot be powered 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, whereas in leaf chains, only 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 vital to consult the manufacturer's handbook in order to guarantee the safety factor is outlined and utilize safety guards at all times. It is a better idea to apply utmost care and use extra safety measures in applications wherein the consequences of chain failure are severe.

Utilizing more plates in the lacing leads to the higher tensile strength. Because this does not improve the maximum acceptable tension directly, the number of plates utilized may be limited. The chains need 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 often suggested for the majority of applications. If the chain is cycled over 1000 times each day or if the chain speed is more than 30m for each minute, it would wear extremely rapidly, even with continual lubrication. Therefore, in either of these conditions using RS Roller Chains will be a lot more suitable.

The AL-type of chains must only be utilized under certain conditions such as if wear is not a big issue, if there are no shock loads, the number of cycles does not go beyond one hundred day after day. The BL-type would 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 also utilized among corrosive situations, it can easily fatigue and break extremely fast. Doing regular maintenance is vital if operating under these types of situations.

The inner link or outer link type of end link on the chain will determine the shape of the clevis. Clevis connectors or otherwise known as Clevis pins are made by manufacturers, but the user normally provides the clevis. A wrongly made clevis could lessen the working life of the chain. The strands must be finished to length by the manufacturer. Check the ANSI standard or get in touch with the producer.