

For your safety when using the chain



Warnings To avoid danger, observe the following rules.

- Do not use chain or chain accessories for any purpose other than their originally intended use.
- Never perform additional work on chain. Serious injury may occur due to the abrupt disconnection of the chain while operating.
 - Do not anneal any chain parts.
 - Do not clean chain with acids or alkalis. These may cause cracking.
 - Never attempt to electroplate chain or chain parts. This may cause hydrogen embrittlement.
 - Do not weld chain. Heating effects will cause weakening and cracking.
 - When a torch is used to heat or cut chain, remove the links before and behind and do not reuse them.
- When replacing a worn or damaged part, do not replace just the worn or damaged part. Replace all parts with new ones. Serious injury may occur due to the abrupt disconnection of the chain while operating.
- When using chain in a lifting device, set up a safety barrier and do not allow anyone to go under the equipment. Serious injury may occur due to the abrupt falling of the chain and/or suspending objects.
- Strictly observe the general guideline listed in Section 1, Chapter 1, 2nd Edition of the Japanese Occupational Safety and Health Regulations as well as rules and regulations concerning occupational safety and health in your region/country. Always install safety equipment such as safety covers on chain and sprockets. There is a risk of severe injury from the conveyed products or the chain as a result of becoming caught in the chain or from unexpected chain breakage.
- If a material that causes hydrogen embrittlement such as acid, strong alkali or battery fluid comes in contact with the chain, immediately stop using the chain and replace it with new one.
- Observe following instructions when installing, removing, inspecting, maintaining and oiling chain.
 - Perform the work as instructed in the manual, catalog or other documentation that was provided with the product.
 - Be sure to turn off the power switch and to take measure to prevent conveyor from starting accidentally before starting these tasks.
 - Secure the chain and parts to prevent them from moving freely.
 - Use a press tool or other special tools to disconnect or connect chain, following correct procedures.
 - Be sure to wear working clothes and protective gears such as safety glasses, gloves, safety shoes and etc. that are appropriate for the work.
 - Only experienced personnel should perform chain replacement.



Cautions To prevent accidents, observe the following rules.

- Understand the structure and specifications of the chain that you are handling.
- Inspect the chain to make sure no damage had occurred during delivery before installing.
- Inspect and maintain chain and sprockets at regular intervals.
- Chain strength varies by manufacturer. Only Tsubaki products should be used when chain is selected using Tsubaki catalog.
- Start and stop the chain gradually, and do not subject it to sudden impact.
- Do not apply initial tension to the chain.
- Consult with Tsubaki representatives before using the chain in cases where it will be contact with special liquids such as acidic or alkaline chemicals and solvents or using under special environments such as Ultraviolet rays.
- Pin of plastic pin type of chain should never reuse once removed from the chain, since it may not engage properly or it may even come loose.
- When using plastic pin type of chain under wet conditions, make sure that the temperature does not exceed 60°C.
- Return rollers of TP-IR18 and TP-IR60, M-rail of PR520-M and other rails made of SJ-CNO material are exclusively use for dry conditions.
- Plastic chains made of the following materials are exclusively use for dry conditions.
DIA, impact resistant series. MPD, metal detectable series. MF, Middle friction series.
HS, high speed series. KV150, heat resistant/ high speed series.
- It is recommended to use under dry conditions for corner disks with bearing.
- It is recommended to use plastic pin type of chain or KV series, KV180 and 250, in a wet environment. Self-lubricity of the resin will decrease and thus shorten the life of the chain under wet conditions. It is obviously true with the chain using stainless steel pin.
- Accessories, sprockets and idler wheels made of UHMW-PE do not use under the ambient temperature exceeding 60°C or under the steam environment. The ambient temperature range of these products is from -20 to 60°C.
- Do not use Y, chemical resistant series, SY, super chemical resistant series, and DIY, impact resistant series, near open flame or under the ambient temperature exceeding 150°C. Plastic chain is flammable and may generate hazardous gas.
- Do not use plastic chain near open flame or under the ambient temperature over the permissive range. Plastic chain is flammable and may generate hazardous gas.

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