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CAT-ENERGY2-TCL

Note: In accordance with the policy of Tsubaki of Canada Limited to consistently improve its products, the specifications in this catalogue are subject to change without notice. Please contact Tsubaki for current prices.

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Energy Series™

BY TSUBAKI

POWER AND PERFORMANCE FOR COLD HARSH ENVIRONMENT





Cold Temperature Operation to -40°C

Using liquid nitrogen to maintain a constant low temperature, Energy Series Chain was subjected to a rigorous linear fatigue test - **NO FAILURES WERE EXPERIENCED**. Tsubaki's Energy Series Chain is manufactured using a proprietary combination of materials that are particularly effective in cold temperature applications down to -40°C (-40°F).

Engineered for quality and performance

Tsubaki builds performance into every Energy Series chain. We start with the highest-quality steel, manufacture all parts to stringent tolerances, and provide the most effective heat-treatment processes to maximize tensile strength and shock load resistance.

Pre-stressed for performance out of the box

All chains are pre-stressed to ensure uniform load distribution and to minimize initial elongation. The result is better operation immediately following installation and throughout the life of the chain.

Stronger pins for longer chain life

Energy Series pins are made of special materials, precision-ground to ensure accurate fit, and assembled only after our proprietary heat-treatment. The result is tough, through-hardened pins that increase fatigue strength and allow the chain to better withstand shock loads.

Ballized holes for smoother contact

Fatigue cracks can start from imperfections in the plate holes. Energy Series chains are manufactured to minimize imperfections. After heat-treatment, the pitch holes on the side plates are ball drifted to impart residual compressive stress and create extremely smooth hole surfaces, which maximizes fatigue strength.



Tsubaki offers a wide range of sizes — from 80 through 240 and up to 10 strands wide — manufactured at our Holyoke, Mass. facility. **Our Energy series chain comes with a free of charge cut-to-length service** — that means cost savings of no wasted chain, and drop-in ready to install reducing labour cost and time.

Wider waist stands up to maximum shock loads and extends fatigue life



Ballized holes for tighter tolerances and a smoother fit

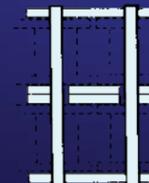


Shot-peened link plates add fatigue resistance



Pitch-compensated link plates maintain maximum strength

Energy Series link plates have wider waists, putting more steel where you need it to handle shock loads. The added plate strength creates a rigid link with less deflection under load. Centre plates are pitch-compensated, creating a contact fit that allows easy cutting and assembly while maximizing chain strength. The plates hold tighter and share the load equally, creating higher fatigue resistance and longer lasting chain.



Building better bushings and rollers that last

Roller and bushing designs play significant parts in chain life. Every Energy Series chain uses solid rollers, which are carefully formed from high-grade steel into optimal roundness and then heat treated and shot-peened for toughness and strength. Energy Series features solid bushings for large sizes and precision-formed bushings for small sizes. Both types of bushings are fabricated to be the roundest in the industry for smooth, long-lasting operations.



Factory-applied hot-dip lube penetrates deeper

The final manufacturing step before chains are shipped is one of the most important. Tsubaki dips each chain in hot lubricant, so it penetrates deeper than typical surface sprays. This special step puts the lube where you need it — deep into the pin and bushing contact area — to extend the working life of the chain.