

Harvestore® Raptor Series Premium Unloader Cutter & Conveyor Chains Technical Data Sheet

CST



Smooth bearing surfaces to reduce friction – helps ensure long life and proper articulation around the sprockets.

Induction heating during bending to help maintain proper geometry and prevent cracking.

High quality proprietary steel alloys for high-strength and abrasion resistance. High-strength helps ensure that the chain doesn't fracture. Abrasion resistance helps ensure a long running life.

Case hardened pins and bushings for excellent abrasion resistance, strength and ductility.

Manufactured with automated processes in factory.

Pre-lubricated joints.

Shot peened sidebars for improved fatigue resistance. Not seen elsewhere in the industry.

Laser-cut and finished pitch holes for uniform press fit of pins and bushings provide superior fatigue resistance.

Properly and uniformly heat treated sidebars – provides consistent strength and shock resistance to help prevent fractures.

Harvestore® Raptor Series Premium Unloader Cutter and Conveyor Chains are designed to outperform and outlast the competitors' chains, even stainless steel. Based on extensive experience, Harvestore presents this innovative chain technology combining both economical and ecological production advantages for our customers. Expertise gained from close cooperation with various field operations worldwide has led to the development of these advanced and innovative chains.

CST's proprietary third party lab tests have shown that industry standard stainless steel chains were consistently outperformed.

Harvestore Raptor Series Premium Unloader Cutter and Conveyor Chains utilize alloy bushings. Alloy bushings can be hardened nearly 25% more than stainless steel for an extended life, are less vulnerable to cracking and are competitively priced.



Each Chain Is Quality Certified
with Precision Performance



Using high-strength materials and high levels of manufacturing precision, the Harvestore Raptor Series Premium Unloader Cutter and Conveyor Chains provide the greatest wear resistance.

	Harvestore XL™ 200	Harvestore XL™ 400	Alliance®
Cutter Chain Ultimate Strength	70,000 lbf (310 kN)	90,000 lbf (400 kN)	45,000 lbf (200 kN)
Conveyor Chain Ultimate Strength	45,000 lbf (200 kN)	90,000 lbf (400 kN)	30,000 lbf (134 kN)
Cutter Arm Force	325 lbf (1,450 N)	425 lbf (1,900 N)	185 lbf (800 N)

Laser-cutting

Laser-cutting technology is used in production to ensure extreme precision. Laser cuts are made without the stresses and imperfections normally left by punching holes, increasing the service life of the chain.

Heat Treatment

State-of-the-art heat treatment processes are used for the components of our chains and sprockets: quench and tempering, case-hardening and induction hardening. These processes enable the chain to be created with greater friction resistance. Induction hardening of the sprockets reduces wear in the tooth gaps, thus ensuring optimum interaction of chains and sprockets over longer periods.

Mechanical Processing

Only the latest CNC technology in mechanical processing is used. Precision machining for all bushings and pins is used to achieve very tight tolerances to ensure the best fit.

Metal-forming

To bend attachment sidebars or angles, the bending zones of the work piece are initially heated through induction. This prevents bending cracks and considerably increases the service life of the link plates.

Final Assembly

Each individual component of the chain is assembled by hydraulically operated presses. After final inspection, chains are shipped to the customer.

Harvestore Unloader Cutter and Conveyor Chains are supplied through a dealer network with a full line of parts, services and the best warranty in the market.

Contact your local dealer for more information or call 815-756-1551.

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Call 815-756-1551 or visit us online at harvestore.com to find an authorized dealer near you.



» State-of-the-art equipment utilized in chain production



» Laser-cutting technology utilized for extreme precision

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