

CAT® UNDERCARRIAGE FOR PRODUCTIVITY CLASS HYDRAULIC MINING SHOVELS (HMS)

CAT® ABRASION TRACKS

THE INDUSTRY'S FIRST OIL-LUBRICATED TRACK JOINT FOR PRODUCTIVITY CLASS HMS



ABRASION TRACK: INNOVATIVE TRACK JOINT TECHNOLOGY

BOOST UNDERCARRIAGE UPTIME

Experience a new track group engineered to take on medium-to-high abrasive conditions. It delivers industry-leading low cost-per-hour performance.

Cat® Abrasion undercarriage track group takes the same dynamic Cat Heavy Duty Extended Life (HDXL) pad design and pairs it with cutting-edge Cat cartridge technology. The result: the world's first sealed and oil-lubricated track joint on a productivity class hydraulic mining shovel (HMS). Eliminate pitch extension and extend track life up to 3x longer compared to traditional pin and bushings.



KEY FEATURES:

CAT CARTRIDGE TECHNOLOGY

Built on proven Cat rotating bushing technology to extend undercarriage wear life, engineered for durability in demanding, high-abrasive applications.

RETROFIT DESIGN

Abrasion track groups are interchangeable with HD and HDXL at the track group level. Abrasion and HDXL Pads can not be mixed within the same chain.

DURABLE PERFORMANCE

Robust pin retention with bolt, nut, and hardened spacer system.

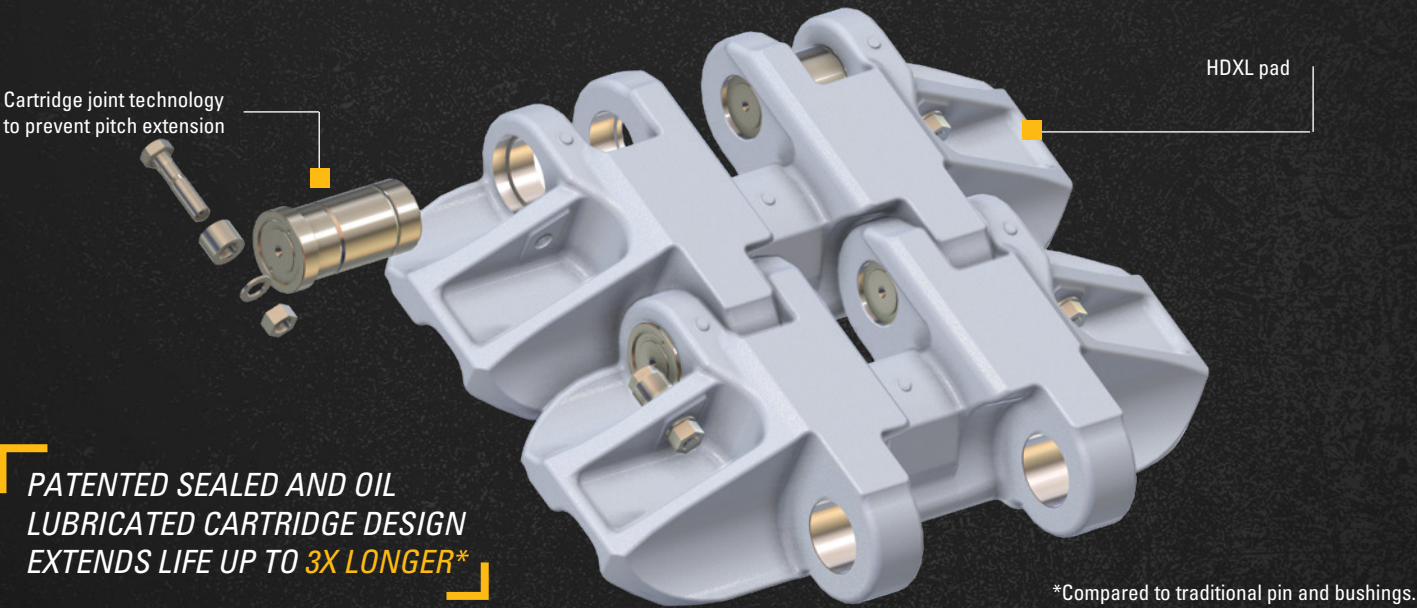
EASIER MAINTENANCE

Oil-lubricated joints and better ability to seal eliminates the need for pin-and-bushing replacements, which means less maintenance and more productivity.

FIRST-TO-MARKET CARTRIDGE DESIGN

The Cat HDXL track is structurally designed to meet the latest load needs throughout its wear life. Reinforced, thicker wings prevent breakage and improve track pad structural life.

Building on the HDXL track design, the Cat Abrasion undercarriage adds oil lubrication technology to the track joint to prevent track pitch wear, delivering durable undercarriage performance with a low cost per hour.



YOU CAN EXPECT:

BETTER PERFORMANCE

Sealed and oil-lubricated cartridge helps to eliminate track joint wear, exclusive to Caterpillar.

REDUCED OPERATING STRESS

Increased wing thickness, added ribs, clipped corners, and improved roll path edge geometry reduce stress and prevent spalling.

INNOVATIVE TECHNOLOGY

Cat Abrasion pads are the only oil-lubricated track joint offering on the market for a productivity class hydraulic mining shovel, increasing pitch extension resistance.

CAT UNDERCARRIAGE FOR PRODUCTIVITY CLASS HMS

HIGH LEVELS OF DIGGING POWER

Cat HMS are engineered to be more productive, efficient, safer, and easier to operate, offering:

+ NEXT-GENERATION TECHNOLOGIES

Hydraulic optimization helps reduce fuel consumption and improve efficiency.

+ EXTENDED WEAR LIFE

Innovative features like the independent oil cooling system help maintain oil temperature and extend overall service life.

+ SAFETY-INFUSED DESIGN

Cat HMS support safer operation and maintenance, prioritizing visibility, safe access/egress, and hydraulic hose routing with protected electric wiring.

HEAVY LOADS. HIGH ABRASION. ZERO COMPROMISE.

WITH LONGER WEAR LIFE & LOWER OWNERSHIP COST.

The Cat Abrasion oil-filled cartridge incorporates three Cat proprietary technologies that work together to eliminate pitch extension wear:

+ MEDIUM DOZER: ROTATING BUSHINGS

+ LARGE WHEEL LOADERS: HINGE PINS

+ LARGE DOZERS: TRACK JOINT SEALABILITY

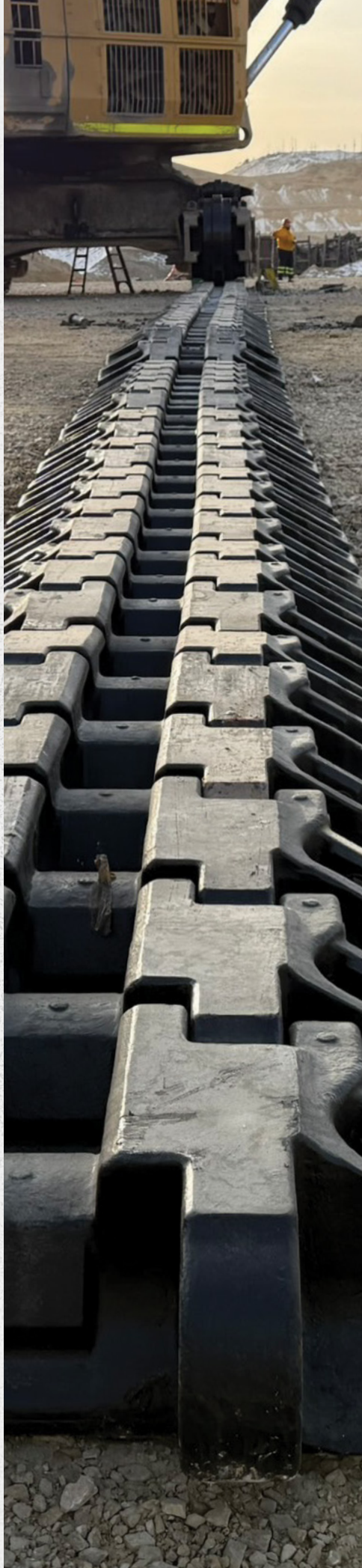
Together, you get longer undercarriage life to keep uptime high and maintenance costs low.

CAT UNDERCARRIAGE FOR PRODUCTIVITY CLASS HMS

THE BENEFITS FOR YOUR MINE SITE

- + Extend undercarriage life with cartridge joint technology that prevents pitch extension in abrasive conditions.
- + Increase uptime with up to 10x improved fatigue life against wing breakage.*
- + Enable seamless integration with no frame changes and only minimal guard modifications required.
- + Reduce maintenance and lifecycle costs through improved sealing performance.

*Based on Finite Element Analysis with standard track loading vs. HD pad.



CAT UNDERCARRIAGE FOR PRODUCTIVITY CLASS HMS

SOLUTIONS DESIGNED FOR LONG-TERM CONFIDENCE

UNDERCARRIAGE CUSTOMER VALUE AGREEMENTS (CVAs)

From replacement kits to dealer labor to total undercarriage management, discover flexible CVAs built to protect your equipment health and peace of mind.

UNDERCARRIAGE ASSURANCE PROGRAMS

Cover major moving undercarriage components on a variety of machines with solutions that go beyond the standard warranty.

CUSTOM TRACK SERVICE (CTS) PRO

Get the most life out of your undercarriage, while saving time and money with a CTS Pro management program. All HDXL/Abrasion track pads are designed to be CTS-friendly, with corresponding measurements to help determine roller path wear.



CAT UNDERCARRIAGE FOR PRODUCTIVITY CLASS HMS

CONSULT WITH YOUR CAT DEALER

Cat dealers are trained undercarriage experts, ready to help you make the best decisions for your machine, application, and ownership needs.



CAT UNDERCARRIAGE FOR PRODUCTIVITY CLASS HMS

CONTACT YOUR DEALER

Talk to your Cat dealer for more details around Cat Abrasion tracks and other Cat undercarriage solutions.



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