



CHROME**GUARD**

Saving Millions in Downtime Every Day

For Mining, Quarrying & Earthmoving Globally

PATENT PROTECTED

BULLDOZER

**LIFT & TILT
CYLINDER
PROTECTION
SYSTEM**

chromeguard.com



**WITHOUT ChromeGuard
(Pitted Cylinder Damage)**



**WITH ChromeGuard
(Protected Cylinder)**

One Strike Or One Incident Can Mean One Costly Standstill

Bulldozers work in the most abrasive and high-impact conditions in mining, quarrying and earthmoving.

Without proper protection:

- **Lift cylinders** are blasted by silica-laden dust from the fan side. Over time, pitting develops on the chrome surface. This not only damages the cylinder rod, but also pushes abrasive particles into the hydraulic oil, contaminating filters, pumps, and valves. The result? Costly strip-downs and full system clean-outs.
- **Tilt cylinders** are exposed to continuous rock abrasion as material slides off the blade and grinds along the cylinder body. This wear may be gradual, but it causes premature seal failure and contamination issues — leading to expensive downtime.

Chromeguard™ heavy-duty protection systems stop both problems before they start, preventing the chain reaction from minor surface wear to full hydraulic system damage.

DID YOU KNOW?

Hydraulic contamination is the #1 cause of premature cylinder and pump failure in heavy equipment.



Full Protection.

Minimum

Maintenance.

ChromeGuard™ Lift & Tilt Cylinder Guards are built to **withstand direct impacts, abrasive dust, and constant rock flow** while still allowing your maintenance team to carry out inspections **without removing the guard**.

The lift cylinder guards also feature **fan-side blast shielding**, preventing the sandblasting effect that leads to pitting and hydraulic contamination. For tilt cylinders, our wrap-around design stops rock from contacting the rod surface, protecting seals and preventing the entry of fine particles into the oil system.

Key Benefits:

- Prevents pitting, abrasion, and contamination damage to Lift & Tilt cylinders.
- Reduces risk of costly hydraulic oil contamination and full system strip-downs.
- **Inspection-friendly design** — no need to remove guards for checks or servicing.
- Fan-side shielding to prevent silica blast and chrome surface pitting.
- Extends component and hydraulic system life.
- Replace only the **outer guard** — not the cylinder — for low-cost repairs.
- Proven in high-abrasion, high-impact dozing operations.
- Designed to absorb impact and **return to shape** after heavy hits.

Trusted By Mines, Quarries & Earthmoving Worldwide.

- Installed on bulldozers in mines and quarries across the world
- Built to handle extreme abrasion, heat, and impact
- Maintains accessibility for daily checks and service routines
- Supported by **in-country stock** for fast turnaround

Short Case Study:

Coal Mine, Queensland – After fitting Chromeguard™ Lift & Tilt cylinder guards to their D11 fleet, the site eliminated all fan-side pitting incidents, avoided multiple full hydraulic system clean-outs, and **reduced downtime by 78% over 12 months.**



The guards have completely stopped the contamination issue from pitting. We're saving thousands in avoided system strip-downs.

— Maintenance Supervisor, Open-Cut Mine

Lift Cylinder Guards

Stop the blast. Stop the contamination.

360° protection with integrated fan-side blast shield to prevent pitting and oil contamination, while allowing full inspection access without removal.

Tilt Cylinder Guards

Shield your tilt. Protect your hydraulics.

Heavy-duty wrap-around design that deflects rock and material flow, preventing abrasion damage and contamination over time.

Custom Solutions

If it can get damaged, we can guard it.

Custom-fabricated protection systems to suit unique site hazards and fleet specs.

Compatible with Caterpillar, Komatsu, Liebherr, and other major OEM bulldozers. In-country stock available for rapid delivery.



KOMATSU

LIEBHERR

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