

# Akaliko

Hydraulic Cylinder Replacement Solutions Since 2004

**Servicing & Repair**

**Manufacturing**

**Exchange**



**Akaliko** is a global organization that's purposed to relieve high-cost hydraulic cylinder manufacturing, servicing and repair for clients worldwide. Working primarily in the mining and industrial sectors, Akaliko has operated on over **100,000 mining-sized cylinders**, providing top-quality replacements along with first-class repair and remanufacturing services. Akaliko's 15 years of experience has earned the company honest expertise, versatility, and most importantly the trust of its customers.



**Akaliko**

# Akaliko's Three-Step Repair Process

Akaliko provides world-class services in hydraulic cylinder repair and remanufacturing along with in-house hard chrome plating and surface reconditioning. Through Akaliko's trusted three-step remanufacturing process, customers worldwide have felt the equal benefit to the world's top vehicle makes at a fraction of the price.

## Inspection

- ✓ Disassembly & Inspection
- ✓ Damage Assessment & Failure Analysis

## Rebuild

- ✓ Machining (Lathe / Mill / Drill)
- ✓ Honing
- ✓ Line Boring
- ✓ Grinding and Polishing
- ✓ In-house Hard Chrome Plating
- ✓ Weld repair and fabrication

## Testing & Assembly

- ✓ Penetrant and ultrasonic weld testing
- ✓ Cylinder resealing
- ✓ Pressure testing
- ✓ Assembly
- ✓ Paint & Packaging

## World-Class Materials

### Rods

- ✓ AISI4140 / AISI4340 Quenched & Tempered with 3mm induction hardening on pre-chrome plated surface
- ✓ Automated welding process or an optioned forged-up piston rod

### Barrels

- ✓ ST52-3 as standard stock (Tensile strength of 520 MPa) and 27SiMn on heavy-duty cylinders (Tensile strength of 980 MPa).

### Seals

- ✓ Seal manufacturer supply to upgrade seal performance
- ✓ SKF®, Trelleborg®, Hallite®, Chesterson®, NOK®, Kayaba®



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# Akaliko's Custom Manufacturing

Akaliko is developing to be an industry leader in the production of custom hydraulic cylinders for mining companies worldwide.

The process of manufacturing starts with a thorough analysis of our clients' existing specifications, available working drawing, and existing components. Akaliko communicates with technical staff to verify existing designs. All client input is combined with our expertise to best meet the desired requirements.

## Machining

Akaliko has built a reputation for high-quality machining capability for hydraulic cylinders of all kinds. Our repeatable and consistent machining provides superior quality components to ensure a safe and quality product.



## Welding

At Akaliko, welding is paramount to the successful operation of our cylinders. In order to provide a consistent and high-quality product to our customers, our certified welders utilize a combination of our welding machines and equipment to build the perfect custom cylinder. All our welders and weld processes are certified to AWS standards. With our quality welding capabilities and experienced team, Akaliko is able to meet all hydraulic cylinder application needs.



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## Exchange Your Cylinders with Akaliko

Akaliko stocks a variety of cylinders remanufactured or new to OEM specifications, ready to exchange with customers' damaged cylinder cores. We ship customers remanufactured (or new) cylinders from our shelf to installation. Once the cylinder core is removed, the customer ships the damaged core back to Akaliko. Terms will be based on the time and materials it took to bring the client's cylinder core back to original specifications.

When the cylinder has been completely remanufactured, we put it in our stock warehouse for the next time you need that cylinder in a hurry. If a customer sends a cylinder core that is beyond economical repair, we look at the most economical way to carry out the replacement.



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# Warranty Guarantee

## **New Hydraulic Cylinder**

For a period, the lesser of twelve (12) months from delivery date or installation date or five thousand (5000) operating hours, whichever comes first

## **Re-Chroming**

For a period, the lesser of six (6) months from delivery date or installation date or three thousand (3000) operating hours, whichever comes first

## **Complete Hydraulic Cylinder Rebuild**

For a period, the lesser of six (6) months from delivery date or installation date or three thousand (3000) operating hours, whichever comes first



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# Akaliko Locations Globally

Akaliko has workshops, warehousing and offices in **13** countries across four continents

- Canada
- United States
- Nigeria
- Zambia
- South Africa
- Russia
- Kazakhstan
- Mongolia
- China
- Thailand
- Indonesia
- Papua New Guinea



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OVER 15 YEARS RUNNING, AKALIKO HAS WORKED WITH HUNDREDS OF TRUSTED COMPANIES



**LIEBHERR**

**KOMATSU**



**THIESS**



**BELAZ**