

TECHNICAL DATA SHEET (TDS)

Knelson Concentrator XD30 – Tailings Launder Lid & Inspection Cover Assembly

Part No.: XD30-100013

Equipment Type: Knelson XD30 Batch Concentrator

Manufacturer: Afrilime Mineral Processing Solutions Limited

Category: Replacement Spare Part – Tailings Launder Assembly

1. Product Overview

The Tailings Launder Lid and Inspection Cover Assembly for the Knelson XD30 Concentrator is an engineered component designed to provide a sealed, durable, and accessible cover over the tailings launder section of the concentrator. This assembly protects the launder from contamination, ensures efficient discharge control, and allows inspection without requiring full disassembly of the concentrator unit.

2. Functional Description

- Provides a protective and sealing cover for the tailings launder section.
- Allows quick access to the inspection port for cleaning and maintenance.
- Prevents slurry spillage and contamination of surrounding components.
- Maintains structural stability under high G-forces during operation.

3. Technical Specifications

Parameter	Specification
Model Compatibility	Knelson XD30 Concentrator
Assembly Composition	Tailings Launder Lid, Inspection Cover, Fasteners, Sealing Gasket, Mounting Hardware
Material of Construction	Stainless Steel 304 / Aluminum Alloy
Surface Finish	Epoxy-coated, corrosion resistant
Assembly Weight	42 kg ± 5%
Sealing Type	Rubber gasket, chemical-resistant NBR
Operating Pressure	Up to 250 kPa
Operating Temperature	0°C to 75°C
Mounting Type	Bolted flange with gasket seal



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Recommended Torque for Fasteners	45 N·m
Replacement Interval	Every 18–24 months depending on duty cycle

4. Installation & Handling

- Clean all mating surfaces before installation.
- Apply a thin film of silicone grease on gaskets to enhance sealing.
- Tighten bolts evenly in a crisscross pattern to prevent stress on the lid.
- Ensure the inspection cover is properly aligned with the launder opening.

5. Maintenance & Inspection

- Inspect gasket and sealing areas weekly for signs of wear.
- Replace gasket or cover if deformation or corrosion is detected.
- Lubricate hinges and handle assemblies monthly.
- Always verify alignment after cleaning operations.

6. Safety & Compliance

- Ensure the concentrator is depressurized before removing the cover.
- Avoid over-tightening bolts to prevent flange distortion.
- Complies with ISO 12100:2010 for mechanical safety and material integrity standards.

7. Packaging & Storage

- Supplied in reinforced wooden crate with protective inner padding.
- Store in dry, shaded area free from corrosive agents.
- Avoid direct contact with moisture or chemical vapors.

8. Reference Drawing

(Drawing No. XD30-LAUNDER-100013, available upon request)

Fabricator Supplier:

Afrilime Mineral Processing Solutions Ltd
P.O. Box 886, Geita Tanzania
Email: info@afirimemining.com
Website: www.afirimemining.com