



SAFETY AND TECHNICAL DATA SHEET GUIDE

MINING CORE SAW

PRODUCT INFO

PRODUCT NAME
MINING CORE SAW

PRODUCT REF
SAMP - 301

PRODUCT DESCRIPTION
ROCK CUTTING SAW

PRODUCT CATEGORIES
MINING

QUICK GUIDE

This core saw model features a diamond blade and is built for mining operations worldwide. Made from corrosion-resistant stainless steel, it delivers high-speed cutting for large-volume production. Its manual, electronics-free design ensures maximum reliability and easy maintenance, even in remote sites.



BUILT IN STAINLESS STEEL FOR LONG-TERM DURABILITY AND RELIABLE PERFORMANCE

The Mining Core Saw is built from 100% stainless steel for maximum corrosion resistance and powered by a 12.5 HP motor. Equipped with a removable core holder, it ensures stable and efficient cutting of fractured cores up to PQ size. With a cutting speed of approximately 0.8 seconds per cm (reference measured on granite), it delivers high productivity while maintaining safe operation.

Designed for ease of use, the machine is fully plug-and-play, allowing quick installation and immediate operation on site. The integrated decantation tank ensures efficient water recirculation and easy cleaning. Performance is optimized by selecting the appropriate blade diameter and specification according to the rock type, ensuring consistent cutting quality and extended blade life.

SAFETY FEATURES

✓ OPERATOR PROTECTION

- Impact-resistant polycarbonate screen protects the operator,
- Lateral operator position keeps hands away from the blade,
- Anti-fall mechanism prevents screen drop.

✓ MACHINE CONTROL AND EMERGENCY SYSTEMS

- Guard opening automatically stops the machine,
- Equipped with a motor brake system for rapid blade stop and enhanced operator safety,
- General isolator and emergency button cut power instantly,
- Easily accessible IP66 push buttons control motor and pump at 24 V safety voltage.

✓ OPERATIONAL STABILITY AND CUTTING SAFETY

- Tray locking system holds the tray in position,
- Anti-tilt tray system stabilizes the tray,
- Multi-position supports lock the sample securely.

✓ ELECTRICAL AND SYSTEM PROTECTION

- Copper grounding point and rod ensure safe earth connection,
- Overheat protection system safeguards motor and pump.

✓ INSPECTION AND MAINTENANCE SAFETY

- QR code links to the daily inspection checklist,
- The decantation tank is equipped with a bypass system, allowing easy draining and efficient cleaning.



TECHNICAL DATA SPECIFICATION

DIMENSIONS (LxWxH)	MAXIMUM DEPTH	CUTTING LENGTH	WEIGHT	BLADE SIZE	MATERIAL
2310x1400x1500 mm 7.7x4.67x5.00 FT	PQ Ø=85 mm 3.35 in	600 mm 1.97 ft	240 Kg 529 lbs	350 mm / 14" Ø 40 mm / 1.57"	Stainless Steel
POWER	MOTOR CAPACITY	RPM	FLUID SYSTEM	PUMP	TANK CAPACITY
3 phases 380-400 VaC/50Hz	12.5 HP	2 900	Recirculating with a pump	400 W - 8000 L/H	Decanting Tank 300 L

ACCESORIES OPTIONAL ITEMS

SILICA DUST PROTECTION

Use a certified respiratory mask with fine particle and silica filters for regular and daily operations, protecting operators from hazardous dust exposure and ensuring long-term health and safety.



REMOVABLE CORE HOLDER

Designed to securely stabilize drill core samples during cutting operations. It minimizes vibrations and prevents unwanted movement, ensuring precise, clean, and safe cuts, even with fractured or unstable cores. Easily removable, it allows fast loading, unloading, and cleaning. Two versions are available: one for core diameters from AQ to HQ, and another dedicated exclusively to PQ cores.

