



SAFETY AND TECHNICAL DATA SHEET GUIDE

SLABBING SAW 500

PRODUCT INFO

PRODUCT NAME
SLABBING SAW 500

PRODUCT REF
SAMP - 501

PRODUCT DESCRIPTION
ROCK CUTTING SAW

PRODUCT CATEGORIES
OIL & GAS, MINING (HALITE)

QUICK GUIDE

The Slabbing Saw 500 is a robust geological core cutting machine designed for precise and safe slab preparation. It cuts cores up to 165 mm diameter and 1010 mm length, featuring a fully enclosed stainless-steel structure, integrated safety systems, and an efficient recirculating water cooling system.



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

Engineered for geological laboratories in the Oil & Gas sector, the Slabbing Saw 500 delivers precise longitudinal cuts of core samples. Its semi-automated system ensures clean, consistent slabbing at selectable speeds. Built in stainless steel and compatible with wet or dry cutting, it's the ideal solution for accurate, high-quality sample preparation in demanding core analysis workflows.

The Slabbing Saw 500 is perfect for slabbing (1/2-1/2) core drill samples and preparing biscuit slices (1/4-3/4). It ensures precise cuts above geological formations or inner tubes made of aluminum or fiberglass, commonly used in Oil & Gas analysis.

SAFETY FEATURES

✓ OPERATOR PROTECTION

- Polycarbonate shield protect the operator from moving components and cutting debris.
- Front-access operation reduces exposure to blade movement areas.

✓ MACHINE CONTROL AND EMERGENCY SYSTEMS

- Emergency Stop button instantly stops machine operation.
- Machine operation is automatically disabled when guards are raised.
- LED indicators provide clear operational and fault status monitoring.
- Integrated overload protection helps prevent motor overheating.
- Easily accessible IP66 push buttons control motor, pump and tray.

✓ CUTTING AND MOVEMENT SAFETY

- Semi-automated core tray system ensures controlled sample movement.
- Igus® linear guide technology improves tray stability and positioning.
- Core tray return warning system includes visual and audible alerts.

✓ 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.
- Quick-access protective guards simplify inspection and blade replacement.
- Decantation tank system allows safe fluid drainage and cleaning operations.



TECHNICAL DATA SPECIFICATION

DIMENSIONS (LxWxH)	MAXIMUM DEPTH	CUTTING LENGTH	WEIGHT	BLADE SIZE	MATERIAL
3000x1250x1900 mm 9.84x4.10x6.23 FT	165 mm	1010 mm	595 Kg 1312 lbs	350-400-500 mm / 14"-16"-20" 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 9.5 kW	2 900 2 450 2 070	Recirculating with a HV pump	HV Pump 300 L/min	Decanting Tank 300 L

ACCESORIES OPTIONAL ITEMS

DUST EXTRACTION SYSTEM (For dry cutting)

ensures safe, efficient dust collection during geological dry cutting. Compact and powerful, it captures fine particles effectively, keeping the workspace clean and meeting high environmental.

