



SOP-FAB-02 – RMS 411 Hydraulic Rebar Shear Operation

RMS 411 Hydraulic Rebar Shear Operation Procedure

Viking Reinforcing Ltd. – Fabrication Yard Operational Procedure
Applicable to Rebar Cutting Operations at Parksville, British Columbia

Document Control

Document Number	SOP-FAB-02
Equipment	RMS 411 Hydraulic Rebar Shear
Standards	ISO 45001:2018 Operational Control
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Revision	1.0
Effective Date	2026-03-06

1. Purpose

This procedure defines the safe operating requirements for the RMS 411 Hydraulic Rebar Shear used in Viking Reinforcing fabrication yard operations. The procedure ensures reinforcing steel cutting activities are performed safely and efficiently while complying with ISO 45001 occupational health and safety requirements and WorkSafeBC regulations.

2. Scope

This procedure applies to all workers authorized to operate or maintain the RMS 411 Hydraulic Rebar Shear within the Viking Reinforcing fabrication yard in Parksville, BC.

3. Equipment Description

The RMS 411 Hydraulic Rebar Shear is designed for cutting reinforcing steel bars used in fabrication processes. The machine uses hydraulic pressure to drive hardened blades capable of cutting multiple bar sizes depending on manufacturer specifications.



SOP-FAB-02 – RMS 411 Hydraulic Rebar Shear Operation

4. Responsibilities

Director of Maintenance – Sean Vetra

- Responsible for mechanical maintenance and equipment integrity.

Chief Safety Officer – Dan Ansell

- Ensures safety controls and procedures are implemented.

Yard Foreman – Matt Warawa

- Supervises operators and ensures safe working conditions.

Operators

- Follow this procedure and report any hazards or equipment defects.

5. Training and Competency Requirements

Operators must:

- Receive documented training on the RMS 411 shear
- Understand emergency stop and machine controls
- Be trained in hazard awareness and machine guarding
- Understand lockout/tagout procedures before servicing equipment

Training must be documented using FORM-OHS-11 – Worker Training Record.

6. Required Personal Protective Equipment

Operators and nearby workers must wear:

- Hard hat
- Safety glasses with side shields
- Cut-resistant gloves
- High-visibility clothing
- CSA-approved safety boots
- Hearing protection when noise levels require it.

7. Hazards Associated with Operation

Potential hazards include:

- Crushing or pinch point injuries
- Flying metal fragments
- Sharp edges on rebar
- Hydraulic pressure release
- Noise exposure
- Manual handling injuries.



SOP-FAB-02 – RMS 411 Hydraulic Rebar Shear Operation

8. Pre-Use Inspection

Prior to operating the machine, the operator must inspect:

- Hydraulic hoses and fittings
- Blade condition and alignment
- Machine guards and protective shields
- Emergency stop button functionality
- Foot pedals or control levers
- Surrounding work area.

Inspections must be documented using FORM-OHS-12 – Equipment Pre-Use Inspection Form.

9. Safe Operating Procedure

1. Complete the pre-use inspection.
2. Ensure guards and shields are in place.
3. Confirm work area is clear of unnecessary personnel.
4. Place rebar into cutting area using proper hand placement.
5. Activate cutting mechanism using control pedal or switch.
6. Keep hands clear of the blade area at all times.
7. Allow blade to fully retract before removing material.
8. Place cut bars into designated storage or bundling area.

10. Prohibited Actions

Operators must not:

- Bypass machine guards
- Reach into cutting area during operation
- Operate damaged equipment
- Allow untrained personnel to operate the machine.

11. Emergency Procedures

In case of equipment malfunction or injury:

1. Press the emergency stop button immediately.
2. Notify the supervisor.
3. Provide first aid if required.
4. Complete FORM-OHS-02 – Incident Report Form.

12. Maintenance and Blade Replacement

Maintenance must be performed by qualified personnel only. The machine must be fully isolated using the Lockout/Tagout procedure before blade replacement or mechanical servicing.



SOP-FAB-02 – RMS 411 Hydraulic Rebar Shear Operation

13. Records and Documentation

FORM-OHS-12 – Equipment Pre-Use Inspection

FORM-OHS-02 – Incident Report

LOG-OHS-05 – Equipment Maintenance Log

REGISTER-OHS-02 – Corrective Action Register

14. Continuous Improvement

Operational incidents, inspection findings, and worker feedback will be reviewed to improve safety practices associated with rebar cutting operations.