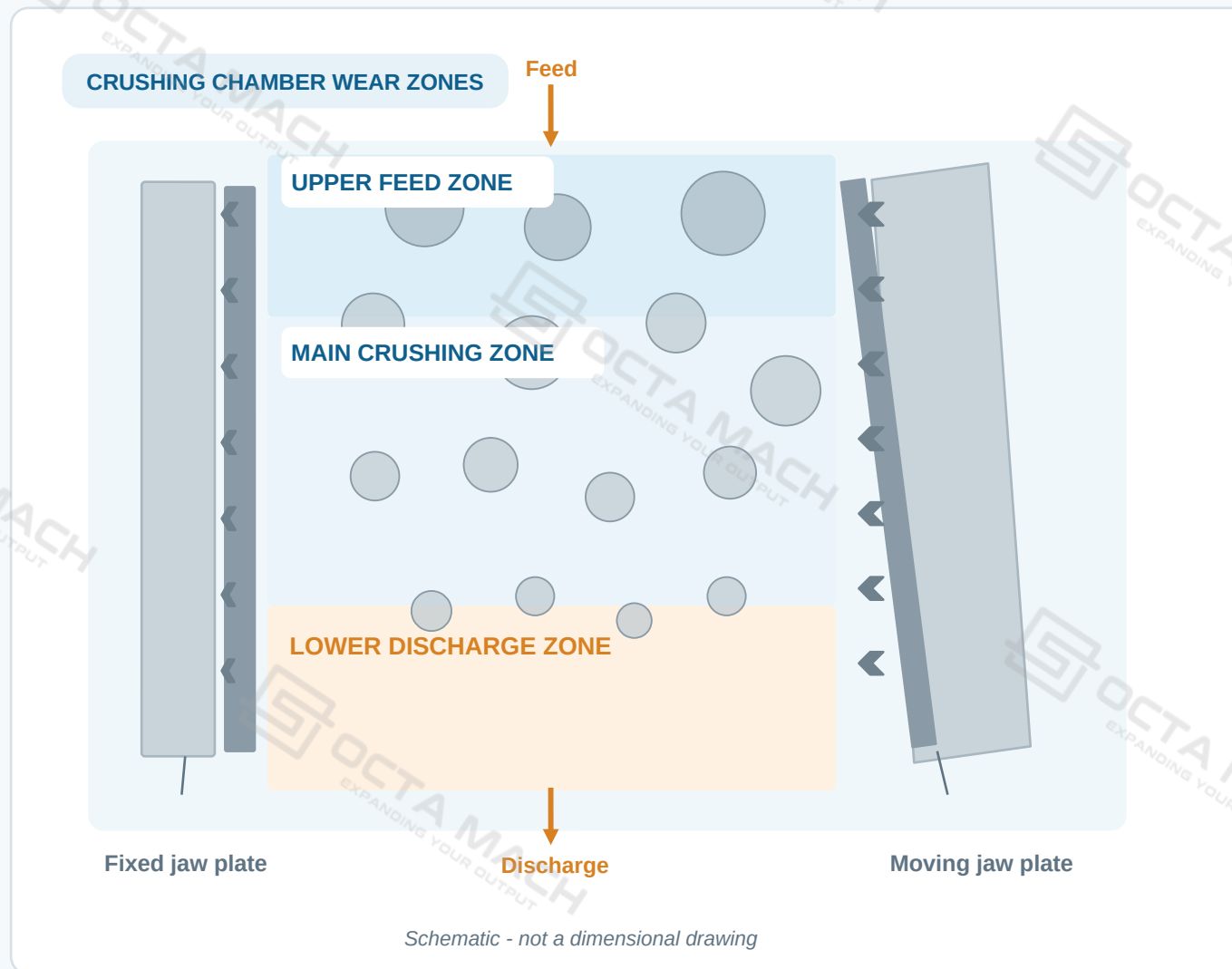


Jaw Plate Wear Inspection and Replacement Guide

A practical diagnostic resource for fixed and moving jaw plates



CONDITION-BASED DECISION

Evaluate these together

- Wear distribution across the chamber
- Remaining tooth profile
- Plate thickness at defined points
- Closed-side-setting adjustment history
- Throughput and product-size stability
- Cracks, looseness or seating damage

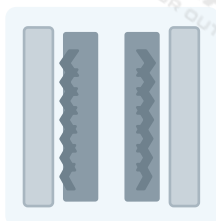
Do not use a universal replacement thickness.

The allowable limit depends on the crusher model, plate design and retention system.

Common Jaw Plate Wear Patterns

Use the pattern as a diagnostic clue, then verify feed, CSS, profile and fastening condition.

Normal Progressive Wear



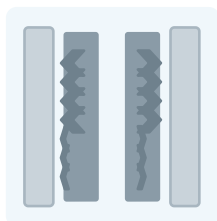
LIKELY DRIVER

Gradual loss of tooth height through the active crushing zone.

CHECK FIRST

Trend tooth height, thickness and output.

Heavy Lower-Zone Wear



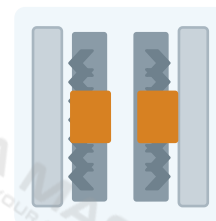
LIKELY DRIVER

Tight CSS, excessive fines or crushing concentrated near discharge.

CHECK FIRST

Verify CSS and feed gradation.

Centre-Line Wear



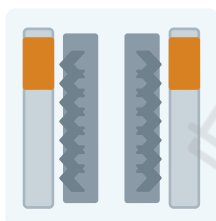
LIKELY DRIVER

Feed stream concentrated in a narrow central band.

CHECK FIRST

Inspect feeder width and chute alignment.

One-Sided Wear



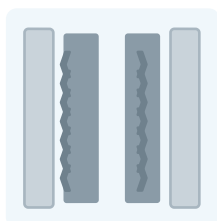
LIKELY DRIVER

Off-centre feeding or coarse/fine segregation before the chamber.

CHECK FIRST

Check feed direction across chamber width.

Flat Tooth Profile



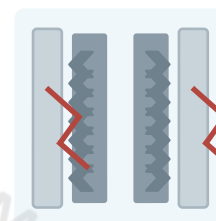
LIKELY DRIVER

Extended service or delayed plate rotation where rotation is permitted.

CHECK FIRST

Review grip, throughput and adjustment history.

Cracks or Broken Teeth



LIKELY DRIVER

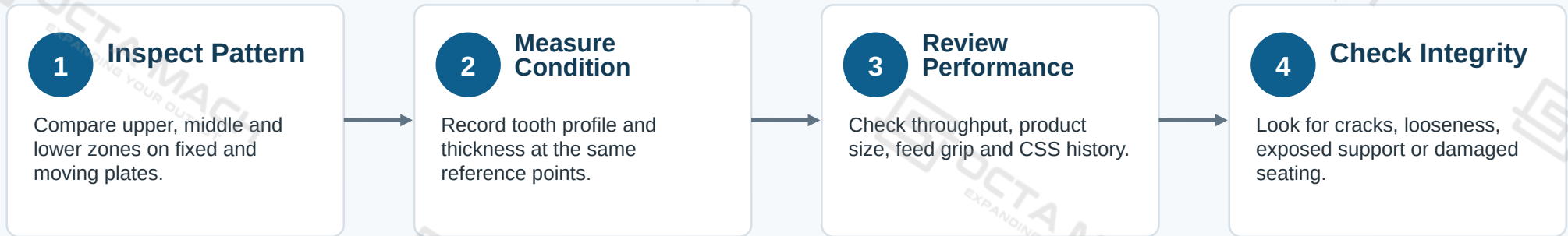
Tramp metal, impact overload, looseness or unsuitable plate grade.

CHECK FIRST

Stop and inspect plate, wedges and jaw seat.

Continue, Rotate or Replace?

A repeatable decision process separates acceptable wear from a feed, setting or component problem.



CONTINUE

Continue Operating

- Wear remains even
- Teeth still grip feed
- Output and product size are stable
- Thickness remains above the specified limit

ROTATE / INVESTIGATE

Rotate or Correct the Cause

- Plate design permits repositioning
- Usable tooth profile remains
- Feed, CSS or profile issue is identified
- Seating and fastening remain serviceable

REPLACE / STOP

Replace or Stop for Inspection

- Specified wear limit is reached
- Teeth are flat and grip is poor
- Cracks, broken teeth or looseness appear
- Jaw seat or support protection is at risk

Rotation is permitted only when the jaw plate design and maintenance instructions approve it.

Jaw Plate Inspection Record

Record the same reference points at each inspection. Trend processed tonnage, not calendar time alone.

A. EQUIPMENT AND OPERATING DATA

Crusher model		Fixed jaw part no.	
Equipment / serial no.		Moving jaw part no.	
Inspection date		Installation date	
Operating hours		Maximum feed size	
Processed tonnage		Current CSS	
Feed material		Feed notes	

B. WEAR MEASUREMENTS

Plate	Upper Tooth	Middle Tooth	Lower Tooth	Upper Thick.	Middle Thick.	Lower Thick.
Fixed Jaw						
Moving Jaw						

Use the equipment documentation to define measurement points and units.

C. CONDITION AND ACTION

- ☐ Even wear
 ☐ Localised wear
 ☐ Flat teeth
 ☐ Crack / broken tooth
 ☐ Loose plate
 ☐ Continue
 ☐ Rotate if approved
 ☐ Investigate cause
- ☐ Replace
 ☐ Stop for inspection

Replacement and Restart Checklist

Use this checklist to protect the jaw seats, retention system and new wear parts during planned maintenance.

01

Before Replacement

- ☐ Confirm crusher model and jaw plate part numbers
- ☐ Empty, isolate and secure the crushing chamber
- ☐ Apply the site lockout and access procedure
- ☐ Confirm approved lifting points and rated tools
- ☐ Check plate orientation before removal

02

During Inspection

- ☐ Clean fixed and moving jaw contact surfaces
- ☐ Inspect wedges, bolts and retention components
- ☐ Check backing plates and jaw-seat protection
- ☐ Inspect cheek plates and adjacent wear surfaces
- ☐ Reject damaged or incompatible fastening parts

03

Before Restart

- ☐ Verify plate orientation and full seating
- ☐ Secure the retention system to equipment requirements
- ☐ Measure and reset the closed-side setting
- ☐ Start under controlled feed and observe operation
- ☐ Reinspect fasteners and record baseline measurements

Safety and accuracy note

Lifting, isolation, torque, plate orientation and wear limits are model-specific. Follow the equipment manual, approved lifting plan and site procedure.

Related product: www.octamach.com/jaw-crusher/