

Maintenance Manual

Introduction

This Maintenance Manual provides detailed information on the proper care and maintenance of MSW Stone Crusher equipment, including Jaw Crushers, Cone Crushers, Impact Crushers, Hammer Crushers, Fine Crushers, and Mobile Crushers. Proper maintenance is essential for ensuring optimal performance, prolonging equipment life, and minimizing downtime.

Table of Contents

1. General Safety Precautions
2. Maintenance Schedule
3. Jaw Crusher Maintenance
4. Cone Crusher Maintenance
5. Impact Crusher Maintenance
6. Hammer Crusher Maintenance
7. Fine Crusher Maintenance
8. Mobile Crusher Maintenance
9. Troubleshooting Guide
10. Spare Parts Management

1. General Safety Precautions

- **Always turn off and disconnect power before performing any maintenance.**
- **Wear appropriate personal protective equipment (PPE)**, such as gloves, hard hats, and safety glasses.
- **Ensure that all moving parts are fully stopped** before servicing.
- **Follow lockout/tagout (LOTO) procedures** to ensure safety during maintenance.
- Keep the work area **clean and free of debris**.
- **Use only approved tools and equipment** for repairs and maintenance.

2. Maintenance Schedule

Equipment Type	Daily Maintenance	Weekly Maintenance	Monthly Maintenance	Annual Maintenance
Jaw Crusher	Check lubrication levels	Inspect wear on jaw plates	Tighten loose bolts	Replace jaw plates if needed
Cone Crusher	Check for blockages	Inspect oil levels	Check liner wear	Replace liners if needed
Impact Crusher	Clear accumulated material	Check blow bars and side liners	Inspect rotor for damage	Balance rotor if necessary
Hammer Crusher	Check hammers for wear	Inspect rotor and bearings	Check all bolts and fasteners	Replace worn hammers

Fine Crusher	Inspect rotor and blades	Check bearings and couplings	Inspect for excessive vibrations	Replace worn blades
Mobile Crusher	Check hydraulic systems	Inspect chassis and track shoes	Test electrical controls	Full inspection of all systems

3. Jaw Crusher Maintenance

Daily Maintenance:

- Inspect and adjust the tension of the jaw plates.
- Lubricate moving parts according to the manufacturer's guidelines.
- Check for any abnormal noises during operation.

Weekly Maintenance:

- Inspect the jaw plates for signs of wear and replace them if necessary.
- Check the flywheel for cracks or damage.

Monthly Maintenance:

- Tighten all bolts, especially those on the jaw plates.
 - Inspect the toggle plate for wear and replace if needed.
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4. Cone Crusher Maintenance

Daily Maintenance:

- Check for any material buildup around the crushing cavity.
- Ensure the feed opening is free from blockages.

Weekly Maintenance:

- Inspect oil levels in the lubrication system.
- Check for signs of oil leaks and address them immediately.

Monthly Maintenance:

- Inspect wear on the mantle and concave and replace them if necessary.
 - Clean or replace the filter in the lubrication system.
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5. Impact Crusher Maintenance

Daily Maintenance:

- Remove any accumulated material from the rotor and crushing cavity.
- Check for unusual vibrations during operation.

Weekly Maintenance:

- Inspect blow bars for wear and replace as needed.
- Check side liners for damage.

Monthly Maintenance:

- Inspect the rotor for wear and balance it if required.
 - Tighten all fasteners to ensure secure assembly.
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6. Hammer Crusher Maintenance

Daily Maintenance:

- Check hammers for wear and replace them if necessary.
- Lubricate bearings and moving parts.

Weekly Maintenance:

- Inspect the rotor for signs of wear and tear.
- Check the condition of the bearings and seals.

Monthly Maintenance:

- Check all fasteners and connections for tightness.
 - Replace worn or damaged hammers.
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7. Fine Crusher Maintenance**Daily Maintenance:**

- Inspect the rotor and blades for wear.
- Lubricate bearings and ensure smooth operation.

Weekly Maintenance:

- Check the couplings and seals for damage.
- Inspect the bearing housing for any signs of wear.

Monthly Maintenance:

- Tighten all bolts and connections.
 - Replace worn or damaged blades.
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8. Mobile Crusher Maintenance**Daily Maintenance:**

- Check hydraulic oil levels and refill if necessary.
- Inspect tracks and track shoes for wear.

Weekly Maintenance:

- Inspect the chassis for damage or wear.
- Test the electrical controls for proper function.

Monthly Maintenance:

- Check all hydraulic lines and connections for leaks.
 - Test all moving components for smooth operation.
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9. Troubleshooting Guide

Symptom	Possible Cause	Solution
Unusual vibration or noise	Loose bolts, worn bearings, or imbalanced rotor	Inspect and tighten bolts; balance rotor
Reduced crushing efficiency	Worn plates, blow bars, or hammers	Replace worn parts
Overheating	Insufficient lubrication or blockages	Check lubrication system; clear blockages
Hydraulic system failure	Low oil levels or damaged hydraulic lines	Refill oil; replace damaged lines

10. Spare Parts Management

- Maintain an up-to-date inventory of essential spare parts.
- Ensure that parts such as jaw plates, blow bars, mantles, and hammers are stocked for quick replacement.

- Refer to the Spare Parts Catalogue for part numbers and specifications.
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For more information or assistance with maintenance, please contact us:

- **Email:** support@stone-crushers.com
- **Website:** www.stone-crushers.com