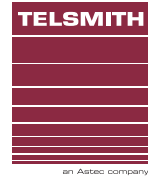


Lubrication and Maintenance Schedule Horizontal Shaft Impact Crusher

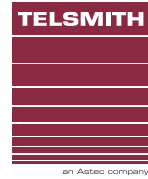


Maintenance	Daily Start-up	Daily Shutdown	Weekly	Monthly	Annually	As Req'd	Notes:
CHECK THAT CRUSHING CHAMBER IS FREE OF OBSTRUCTIONS.	•						
CHECK DISCHARGE SETTING. ADJUST APRON(S) AS REQUIRED.	•						
CHECK THAT ALL ACCESS COVERS AND PLATES ARE TIGHTLY SECURED.	•						
CHECK THAT HINGED UPPER FRAME IS CLOSED AND TIGHTLY SECURED.	•						
CHECK FOR ANY UNUSUAL SOUNDS, NOISES OR VIBRATION AFTER STARTING CRUSHER.	•						
VERIFY THAT THE MATERIAL FEED IS EVENLY DISTRIBUTED INTO THE CRUSHER FEED CHUTE.	•						
VERIFY THAT CRUSHED MATERIAL IS FREELY DISCHARGED (NO MATERIAL BACKUPS).	•						
REMOVE SPILLAGE FROM AROUND CRUSHER AND SUPPORT STRUCTURE.		•					

Warning: Lockout/tagout power to crusher drive before performing any lubrication, maintenance, adjustment or repair procedures! Install rotor locking bolt to prevent rotor from turning. Shut-off fuel supply if crusher is powered by a diesel engine.

Lubrication and Maintenance Schedule

Horizontal Shaft Impact Crusher

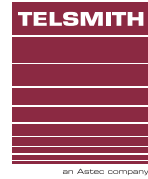


Maintenance	Daily Start-up	Daily Shutdown	Weekly	Monthly	Annually	As Req'd	Notes:
REMOVE DUST AND DIRT FROM BEARING HOUSINGS.		•					
REMOVE ANY MATERIAL LODGED BETWEEN THE CRUSHER FRAME WALLS AND THE BEARING HOUSINGS.		•					
REMOVE ANY MATERIAL LODGED BETWEEN THE CRUSHER FRAME WALLS AND THE ROTOR.		•					
CHECK BEARING HOUSINGS FOR EXCESSIVE HEAT.*		•					
CHECK NUTS AND BOLTS FOR TIGHTNESS.			•				
INSPECT HAMMER BARS FOR CRACKS OR EXCESSIVE WEAR. CHECK WEAR PATTERNS. REVERSE OR REPLACE BARS AS REQUIRED.			•				PERFORM DAILY IF REQUIRED.
INSPECT APRON LINERS FOR EXCESSIVE WEAR, CRACKS OR LOOSENESS.			•				

*Note: Typical bearing temperature is about 140° to 150°F. Bearing temperatures of 165 to 185°F are considered higher than normal. Bearing temperature should never exceed 190°F.

Warning: Lockout/tagout power to crusher drive before performing any lubrication, maintenance, adjustment or repair procedures! Install rotor locking bolt to prevent rotor from turning. Shut-off fuel supply if crusher is powered by a diesel engine.

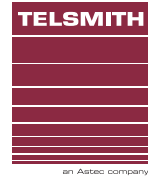
Lubrication and Maintenance Schedule Horizontal Shaft Impact Crusher



Maintenance	Daily Start-up	Daily Shutdown	Weekly	Monthly	Annually	As Req'd	Notes:
INSPECT FRAME LINERS FOR EXCESSIVE WEAR, CRACKS OR LOOSENESS.			•				
CHECK CRUSHER FRAME FOR CRACKS, BROKEN WELDS, OR OTHER DAMAGE.			•				
INSPECT FELT SHAFT SEALS FOR WEAR.			•				
CHECK HYDRAULIC FEED PLATE OPERATION. (CRUSHERS EQUIPPED WITH HYDRAULIC FEED PLATE ONLY)			•				
CHECK V-BELT TENSION. INSPECT V-BELTS FOR WEAR OR DAMAGE.			•				
CHECK THAT SHEAVES ARE TIGHT AND PROPERLY ALIGNED.			•				
CHECK DRIVE GUARD FOR TIGHTNESS AND PROPER INSTALLATION.			•				
CHECK SUPPORT STRUCTURE FOR DAMAGE OR LOOSE MEMBERS.				•			

Warning: Lockout/tagout power to crusher drive before performing any lubrication, maintenance, adjustment or repair procedures! Install rotor locking bolt to prevent rotor from turning. Shut-off fuel supply if crusher is powered by a diesel engine.

Lubrication and Maintenance Schedule Horizontal Shaft Impact Crusher



Maintenance	Daily Start-up	Daily Shutdown	Weekly	Monthly	Annually	As Req'd	Notes:
INSPECT CRUSHER FEED CHUTE. REPLACE LINERS, CHAINS, OR RUBBER STRIPS AS REQUIRED (IF EQUIPPED).				•			
CHECK CHUTES AND HOPPERS FOR WEAR.				•			
CLEAN OUT ALL CHUTES, HOPPERS AND ROCK BOXES.					•		
CHECK ROTOR SPEED AT FLYWHEEL.						•	CHECK IF MOTOR OR SHEAVES ARE REPLACED.
LUBRICATE ROTOR BEARINGS. (1.0 TO 1.5 OUNCES OF GREASE – EACH FITTING)						•	LUBRICATE EVERY 60 HOURS.*
LUBRICATE ELECTRIC MOTOR.						•	REFER TO MOTOR MFG'R FOR INTERVAL.

* Note: Actual lubrication interval and grease quantity may vary, depending on environmental conditions, crusher size, shaft speed and other factors.

Warning: Lockout/tagout power to crusher drive before performing any lubrication, maintenance, adjustment or repair procedures! Install rotor locking bolt to prevent rotor from turning. Shut-off fuel supply if crusher is powered by a diesel engine.