

Hydraulic Press And Heavy Machinery Maintenance Checklist 2026

Pre-Operational Safety Inspection

Verification of emergency stop buttons, safety guards, light curtains, and perimeter fencing integrity before startup.

Emergency Stop Button Functionality

- ☐ Operational
- ☐ Malfunctioning
- ☐ Not Applicable

Safety Guard and Shield Integrity

- ☐ Secure and Intact
- ☐ Damaged/Missing

Light Curtain/Sensor Detection

- ☐ Active/Working
- ☐ Bypassed/Inactive
- ☐ Requires Repair

Perimeter Safety Checklist

- ☐ Warning Lights Functional
- ☐ Audible Alarms Functional
- ☐ Floor Markings Visible
- ☐ Safety Barriers Secure

Safety Deficiencies Noted

Write something...

Inspector Verification

Hydraulic System Integrity Check

Inspection of hydraulic fluid levels, pressure gauges, hoses, fittings, and detection of any visible leaks or aeration.

Hydraulic Fluid Level Status

- ☐ Adequate
- ☐ Low
- ☐ Critical - Refill Required

Visible Leakage Detected

- ☐ No Leaks Detected
- ☐ Minor Seepage
- ☐ Active Leak Detected

Operating Hydraulic Pressure (PSI)

Enter a number...

Inspected Components

- ☐ Hydraulic Hoses
- ☐ Main Pressure Gauge
- ☐ Fluid Reservoir
- ☐ System Filters
- ☐ Control Valves

Observations and Leak Details

Write something...

Photo Evidence of Leak or Component Condition

 Upload File

Structural and Frame Assessment

Examination of the press frame, bolster plates, and tie rods for signs of stress fractures, deformation, or loose bolts.

Frame Condition Status

- ☐ Excellent
- ☐ Good
- ☐ Fair (Requires Monitoring)
- ☐ Poor (Immediate Repair Needed)

Identified Structural Issues

- ☐ Visible Cracks
- ☐ Loose Bolts/Fasteners
- ☐ Deformation/Bending
- ☐ Corrosion/Rust
- ☐ None

Detailed Findings Report

Write something...

Structural Damage Photos

 Upload File

Inspector Verification

Cylinder and Ram Inspection

Checking the piston rod for scoring, overheating, or leakage, and ensuring smooth vertical movement within the guideways.

Piston Rod Condition

☐ Excellent (No visible damage)
☐ Fair (Minor scoring/wear)
☐ Poor (Significant damage - Requires Repair)

Detailed Observations of Cylinder Surface

Write something...

Current Hydraulic Pressure (PSI/Bar)

Enter a number...

Identified Leak Points

☐ Cylinder Seal
☐ Piston Rod Grommet
☐ Hydraulic Fitting
☐ None

Photos of Inspection Findings

 Upload File

Inspector Verification

Hydraulic Fluid and Filtration Management

Monitoring fluid viscosity, checking filter elements for contamination, and verifying the functionality of the cooling system.

Inspection Date

Current Hydraulic Fluid Level (Liters/Gallons)

Fluid Viscosity/Condition Status

- ☐ Optimal
- ☐ Contaminated
- ☐ Low Level
- ☐ Needs Immediate Replacement

Filter Components Inspected

- ☐ Suction Strainer
- ☐ Return Line Filter
- ☐ Pressure Filter
- ☐ Breather Cap

Observations of Fluid Contamination or Discoloration

Write something...

Upload Oil Analysis Report

 Upload File

Technician Verification

Mechanical Components and Lubrication

Lubrication of all moving parts, checking guide bushings, and inspecting bearings and gears for proper lubrication and wear.

Lubrication Status

- ☐ Adequate
- ☐ Low/Needs Refill
- ☐ Critical/Empty

Last Lubrication Interval (Days)

Enter a number...

Components Inspected

- ☐ Guide Bushings
- ☐ Main Bearings
- ☐ Drive Gears
- ☐ Slide Ways
- ☐ Pivot Pins

Observations of Wear or Friction

Write something...

Lubricant Specification Sheet

 Upload File

Technician Verification

Electrical and Control System Audit

Testing the PLC (Programmable Logic Controller) inputs/outputs, inspecting wiring insulation, and verifying sensor accuracy.

Inspection Date

PLC Status

- ☐ Operational
- ☐ Error Code Detected
- ☐ Critical Failure

Components Inspected

- ☐ Emergency Stop Buttons
- ☐ Limit Switches
- ☐ Pressure Sensors
- ☐ Control Panel Wiring
- ☐ HMI Display Screen

Voltage Reading (Volts)

Enter a number...

Description of Electrical Anomalies or Fault Codes

Write something...

Technician Signature

Pneumatic and Auxiliary Systems

Inspection of air lines, regulators, lubricators, and any pneumatic clamping or ejector mechanisms.

Air Compressor Operational Status

- ☐ Operational
- ☐ Needs Repair
- ☐ Critical Failure

System Operating Pressure (PSI)

Enter a number...

Inspected Components

- ☐ Air Regulators
- ☐ Moisture Traps/Drain Valves
- ☐ Pneumatic Cylinders
- ☐ Air Lines and Tubing
- ☐ Lubricators

Leak Detection Notes

Write something...

Last Filter Replacement Date

Enter date...

Technician Verification

Tooling and Die Inspection

Checking dies, punches, and molds for cracks, misalignment, or surface degradation that could impact production quality.

Inspection Checklist Items

- ☐ Check for visible cracks or fractures
- ☐ Inspect for surface wear or pitting
- ☐ Verify alignment and centering
- ☐ Check for debris or residue buildup
- ☐ Inspect for lubrication or coating integrity

Tooling/Die ID Number

Write something...

Condition Status

- ☐ Operational
- ☐ Requires Maintenance
- ☐ Critical Failure - Replace Immediately

Defect Details and Observations

Write something...

Upload Inspection Photos

 Upload File

Inspector Digital Signature

Post-Maintenance Documentation

Logging all completed tasks, recording fluid changes, noting any identified defects, and updating the 2026 maintenance log.

Completion Date

Technician Signature

Maintenance Type

- ☐ Preventive
- ☐ Corrective
- ☐ Emergency

Observations and Defect Notes

Upload Inspection Photos/Reports



Upload File

Hours of Operation Post-Maintenance

Enter a number...

< Previous

> Next

✓ Finish

🔧 Generate Sample Report