

## Fusion Machine Maintenance Checklist

| Check  | Acceptable | Action Required |
|--|------------|-----------------|
| Warning and instructional labels are in place and legible  |            |                 |
| Frame is not damaged or bent in any way  |            |                 |
| Check for damage to the gripping area of the clamps. No sharp burrs or gouges should be present.   |            |                 |
| Lifting rings are not damaged  |            |                 |
| Machine is clean   |            |                 |
| All nuts and bolts are tight   |            |                 |
| All pins and retainer rings are in place   |            |                 |
| Electrical cords and plugs are in good condition<br>-No fraying, cuts or cracks in cord are allowed  |            |                 |
| Grounding prong is in place on electrical plugs  |            |                 |
| Use a ground fault detector or an appropriate volt/ohm meter to confirm that the grounding system is functioning properly and that there are no electrical shorts in the system. This must include the heater. |            |                 |
| Check for hydraulic leaks  |            |                 |
| Confirm that the hydraulic oil is clean and free of contaminants   |            |                 |
| Hydraulic oil reservoir is full  |            |                 |
| Change hydraulic oil filter, if needed.  |            |                 |
| Hydraulic oil pressure gauge reads zero without pressure   |            |                 |
| Hydraulic system valves operate smoothly   |            |                 |
| Hydraulic cylinder rods have no damage (no pits, gouges, scratches or scoring)   |            |                 |
| Check all hydraulic hoses for damage or wear and tear  |            |                 |

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| Top clamps swing and align properly  |  |  |
| Clamp ears are not cracked or broken   |  |  |
| Swing bolts and knobs operate properly   |  |  |
| Swing bolt threads are lubricated  |  |  |
| Electrical controls & switches operate properly  |  |  |
| Heater surface is clean and undamaged  |  |  |
| Confirm that the thermometer works properly  |  |  |
| Check the heater handle for damage   |  |  |
| Facer blades are clean, undamaged and tight  |  |  |
| Facer chain is lubricated  |  |  |
| Facer latch functions properly   |  |  |
| Facer stops are undamaged and tight  |  |  |
| Confirm the facer slide rod is free of dirt, corrosion, or damage (no pits, gouges, scratches or scoring).   |  |  |
| Confirm that the facer slides freely on the slide rod and the facer slide bearing is lubricated  |  |  |
| Inspect tow bar and tow bar attach point for damage or wear.   |  |  |
| Wheels and tires – a) inspect tire pressure, b) no damage to tires or rims, c) spindle nuts are secure with cotter pin installed, d) wheel bearings are lubricated and wheels turn freely. |  |  |
| Inspect steering linkage for damage and make sure it is secure and wheel alignment is straight.  |  |  |
| Be sure hand brake functions properly on carriage and securely locks wheel.  |  |  |
| Insure heater shields are in good condition.   |  |  |
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| Confirm that there are no sharp edges or projections that can damage the heater shield fabric.  |  |  |
| Be sure hydraulic hoses and electrical cords are secured in a manner to prevent pinching, crushing or rubbing during movement of the clamps, hydraulic carriage, heater or facer. |  |  |
| Pipe lifter rollers should be clean, undamaged and roll freely.   |  |  |
| Check the fit and function of any inserts with the machine and confirm that all attachment pins are present.  |  |  |

## On Models With Gasoline Engines

| Check   | Acceptable | Action Required |
|---|------------|-----------------|
| Confirm that the gasoline supply hose ends are tight and check for damage or wear and tear on the hose.     |            |                 |
| Check engine oil level and confirm that the air intake filter is clean                                      |            |                 |
| Check the muffler spark arrestor and clean, if needed, and confirm that the muffler is tight on the engine. |            |                 |
| Change engine oil filter, if needed.  |            |                 |
| Generator should be clean and electrical connections clean and tight  |            |                 |
| Check the battery and battery connections   |            |                 |
| Check the condition and tightness on all drive belts and pulleys  |            |                 |
| Confirm that all protective guards are in place and attached correctly                                      |            |                 |