



USER ARTICLE RANDOM OUTPUT FROM MACHINES



Version 2026.1

SCOTTSDALE

THE TRUSTED STEEL-FRAMING PARTNER

RANDOM OUTPUT FROM MACHINES

Problem/Question

The RF machine begins printing lengths uncontrollably during production, ignoring programmed and tool head commands. The only way to stop the machine is to press the emergency stop button. Attempts to pause via the software or machine panel do not work.

Possible Causes

1. Encoder issue
 - Encoder isn't under spring tension on the steel.
 - Debris, Dust, or Build up on encoder wheel.
 - Encoder bracket loose
2. Chain tension
 - Chain tension in gearbox is loose.
 - Loose chains between roller station.
3. Steel gauge adjustment
 - Machine not calibrated for gauge thickness.
 - Incorrect station pressure settings.

Possible resolution

****NOTE** Always have machine off when checking or adjusting encoder**

- Inspect Encoder and confirm there is spring pressure against material.
- Clean encoder wheel with degreaser.
- Inspect and adjust roller station chains
- Inspect and adjust gearbox chain tension.
- Confirm correct gauge calibration has been performed and adjust if required

Quick Tip

- Always check encoder spring pressure and that roller is clean of any build up
- Verify chain tension before troubleshooting more complex issues

Reference Images



Loose Gearbox chain