

# TREGASKISS Robotic Welding System User Guide



## Contents

### 1 A QUICK GUIDE

#### 1.1 TO PREVENTING AND FIXING COMMON ROBOTIC WELDING SYSTEM FAILURES

- 1.1.1 1 BURNBACK AND CONTACT TIP WEAR
- 1.1.2 2 BROKEN REAMER CUTTER BLADES
- 1.1.3 3 LOSS OF TOOL CENTER POINT (TCP)
- 1.1.4 4 BROKEN DISCS ON ROBOTIC GUN
- 1.1.5 5 INCORRECT TOOL PATH

### 2 Documents / Resources

#### 2.1 References

### 3 Related Posts

## A QUICK GUIDE

## TO PREVENTING AND FIXING COMMON ROBOTIC WELDING SYSTEM FAILURES

**Failures in robotic welding systems can lead to lost productivity and poor weld quality. Keep this reference handy to prevent problems**

## **1 BURNBACK AND CONTACT TIP WEAR**

- Trim the gun liner according to the manufacturer's recommendations.
- Use high-quality welding wire that feeds straight.
- Set the drive roll tension properly to prevent wire cast issues.
- Always use the proper welding parameters for the application.

## **2 BROKEN REAMER CUTTER BLADES**

- Be certain the nozzle is concentric to the cutter blade during reaming and the insertion depth on the nozzle goes past the gas holes on the diffuser.
- Apply anti-spatter liquid and /or increase reaming frequency to prevent excessive spatter buildup in the nozzle (which can break cutter blades).
- Securely connect ground cables. Poor grounding can lead to excessive spatter in the nozzle.

## **3 LOSS OF TOOL CENTER POINT (TCP)**

- Avoid cross-threading the contact tip, as this will cause it to be at an angle.
- Tighten consumables to the manufacturer's torque specifications.  
The general rule is one quarter turn past finger tight.
- Inspect the clutch for movement and replace if it's worn.
- Use an inspection fixture to adjust the tolerance of the neck to the TCP after an impact.

## **4 BROKEN DISCS ON ROBOTIC GUN**

- Set the robot path correctly to avoid collisions.
- Follow the manufacturer's torque specifications to ensure the disc screws are tightened in the correct order and to the proper tension.

## **5 INCORRECT TOOL PATH**

- Program the robot so the arm, robotic MIG gun and cable are clear of tooling and the weld cell wall –this prevents worn cables, disc breakage and bent necks.





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Robotic Welding System, Robotic Welding, Welding System, Robotic, Welding

References

- [User Manual](#)

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