



Torch Cleaning and Wire Cutting Station Safety Guide

Category: Torch Maintenance

Audience: Operators, maintenance, programmers

Badge: Torch Service

Safety guidance for automatic torch cleaning, nozzle reaming, anti-spatter use, wire cutting, and service interactions with the torch maintenance station.

Important limitation: This document is a general planning aid only. It does not replace OSHA requirements, employer safety programs, equipment manuals, SDS review, qualified risk assessment, training, lockout/tagout procedures, PPE selection, or competent safety review.

Station Hazards

- Recognize pinch, cutting, rotating tool, sharp wire, chemical, hot torch, and unexpected robot motion hazards.
- Never place hands in the torch cleaning or wire cutting area unless the system is isolated and the task is authorized.

Production Use

- Verify station position, tool condition, anti-spatter level, wire cut length, and program clearance before automatic operation.
- Keep the station area clear of loose tools, rags, gloves, wire pieces, and spatter buildup.

Maintenance

- Use lockout/tagout for station service where required.
- Wear eye protection and gloves when handling sharp wire ends, nozzles, liners, or spatter debris.

Field Checklist

Item	Verified	Notes
Station area clear		
Tool condition checked		
Wire cutter guarded		
Anti-spatter level checked		
Program clearance verified		
Hands clear before cycle		
Service isolated if required		

Reference Basis

- OSHA 29 CFR 1910 Subpart Q - Welding, Cutting and Brazing.
- OSHA 29 CFR 1910.147 - Control of Hazardous Energy (Lockout/Tagout).
- NIOSH welding fume and manganese exposure resources.
- RAS equipment planning information for robotic arc welding systems using 480V / 60Hz / 3-phase power, RAS-500PR power supply, water-cooled torch packages, torch cleaning, and wire cutting stations.

Revision: RAS Safety Knowledge Base expanded safety resource set. Verify against current site-specific rules before use.