



# Certified Coating Specialists Inc.

Professionalism in painting, safety, environmental stewardship – realizable value

## Ultra High Pressure Water Jetting



### BEST USES FOR UHP WJ

- Structural steel in corrosive environments.
- Marine, ship hauls, voids, ballast tanks, x loading ramps, pilings.
- Tanks, vessels, mechanical systems.
- Concrete cutting, surface preparation.
- Spark free environments, gas plants.
- Remote location deployments.
- Pipe yards, removes rust, varnish, drill muds.
- Dam gates, penstocks, asbestos, lead coatings.
- Refractors, heat exchangers, coke, bauxite.

If its dirty, UHP WJ will clean it. If it has a profile under the existing coating, UHPWJ will prepare it.

### ENVIRONMENTAL IMPACT

1. Deployment of UHP WJ will result in **zero blast media waste** management.
2. **Less carbon production**, due to reduced equipment requirements, and less fuel required for transportation of abrasive and waste.
3. Surface tolerant coatings generally contain **lower VOC's** and more acceptable chemical component make up.

Deployment of UHP WJ is one of the few occasions today where you can act environmentally responsible, save money and achieve a longer lasting and better result.

**U**HP WJ is a well known, tried, tested and true technology deployed for the cleaning and preparation of surfaces for receipt of surface tolerant coatings.

Technologically, UHP WJ is as simple as technology comes; a water supply to the pump equivalent to the pumps draw capacity of 3-6 GPM, a high pressure/low volume water pump, UHP water line to a task specific discharge gun.

Developed in Europe 30+ years ago, deployed today throughout the world, UHP WJ has found its optimal position within industrial and marine market sectors as an environmentally friendly, cost effective, acceptable alternative to abrasive blasting when a profile is already in existence due to the original surface preparation procedure or corrosion. Coatings, paints adhere best when they have something to grab and anchor onto.

Due to the high pressures demanded to achieve positive results for surface preparation, there are two essential things to always be aware of when deploying a UHP WJ crew. First, is safety initiated through effective training and constant monitoring. Second, is 30k to 40k pressures are extremely wearing on equipment, demanding daily, if not hourly, maintenance practices to maintain production schedules.

**CERTIFIED COATING SPECIALISTS CONTINUES TO BACK UP ITS CLAIM OF COMMITMENT TO ENVIRONMENTAL STEWARDSHIP THROUGH INVESTMENT IN TECHNOLOGY AND TRAINING**



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Four CCS owned UHP WJ pumps capable of deploying 6 guns and removing 240-1200 sq.ft. of coating per hour

## DEPLOYMENT CONSIDERATIONS

- Access to clean water or the ability to transport clean water in.
- The ability to capture and dispose of all waste water.
- The desire and commitment of the client to protect our environment.
- The capacity to trust and the desire to preserve working capital.

### Joint Surface Preparation Standard – SSPC-SP12/NACE NO.5 Surface Preparation and Cleaning of Metals by Waterjetting Prior to Recoating

#### Section 1: General

- 1.1.1 This standard describes the use of Waterjetting to achieve a defined degree of cleaning of surfaces prior to the application of a protective coating or lining.
- 1.4 Visual Reference Photographs: SSPC-VIZ 4 / NACE VIZ 7 “Guide and Reference Photographs for Steel Surfaces Prepared by Waterjetting” provides color photographs for the various grades of surface preparation as a function of the initial condition of the steel.

#### Section 2: Definitions

- 2.1 This section provides basic Waterjetting definitions.
- 2.1.7 Ultra High Pressure Waterjetting (UHP WJ): Waterjetting performed at pressures above 210 MPa (30,000 psig).

#### Section 3: Surface Cleanliness Requirements

- 3.1 Table one lists four definitions of surface cleanliness in terms of visible contaminants.

#### Section 4: Flash Rusted Surface Requirements

- 4.1 Table 2 lists four definitions of flash rusted surface requirements.

**FOR A COPY OF THIS STANDARD SIMPLY REQUEST IT FROM YOUR CCS REPRESENTATIVE**

CCS is proud to be able to offer the deployment of these units to our customers in furtherance of our commitment to exceed customer expectations in effectively addressing and minimizing the environmental impact our trade can have on our communities.

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