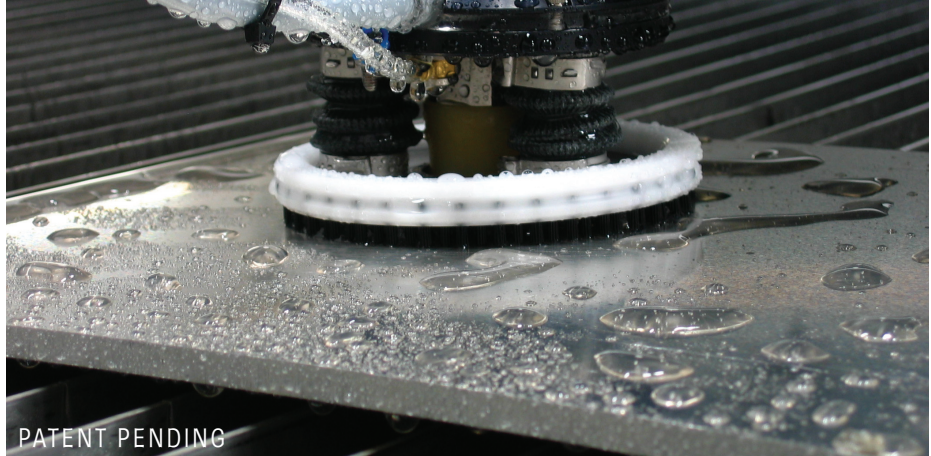


### Improve Part Accuracy & Quality

#### BENEFITS

- Automatically set and maintain perfect nozzle standoff
- Easily cut warped materials
- Safely cut materials which may stress relieve
- Produce more accurate parts
- Protect cutting head from crashes
- Reduce accidental mixing tube breakage
- Improve operator productivity
- Compatible with both Dynamic Waterjet® and conventional waterjet cutting systems



#### Optimize the Performance of Your Waterjet System

Maintaining a constant distance between a waterjet nozzle tip and the material surface (standoff) is an essential factor in cutting accurate parts. While the correct, constant standoff distance is important when cutting with conventional waterjet technology, it is even more critical when using Flow's Dynamic Waterjet technology.

Dynamic Waterjet produces more accurate parts at significantly higher cutting speeds than parts cut with a conventional waterjet. This patented advanced motion system incorporates unique cutting models, which control a small, articulated wrist attached to the cutting head. The wrist allows the cutting head to tilt in any direction, compensating for the stream lag and taper experienced with conventional waterjet cutting machines.

Flow's patent-pending Dynamic Contour Follower (DCF) optimizes Dynamic Waterjet's precision as well as conventional waterjet cutting as it automatically sets and tracks the standoff distance between the mixing tube tip and the material being cut, regardless of material thickness (within allowable operating limits of Z travel). The DCF compensates for standoff distance variations when cutting materials that are prone to stress relieve, warped, or otherwise non-flat.

The Dynamic Contour Follower works by sensing the distance between the surface of the material and the tip of the mixing tube. This information is sent to the control system, which adjusts the mixing tube standoff automatically while the cutting head moves across the material. Due to its pivoting design, the DCF can work when the cutting head is in a vertical orientation or in a non-vertical orientation as with the Dynamic Waterjet.

The DCF can also prevent mixing tube breakage and eliminate the need for manual intervention of Z axis adjustment when cutting materials such as those mentioned above.

#### Maximum Flexibility

Flow designed the Dynamic Contour Follower to offer the user maximum flexibility in any application. It works with either a conventional waterjet system, such as the PASER® ECL Plus Abrasive Waterjet Cutting System, or a Dynamic Waterjet System.

The DCF has four operational modes which range from, "Always on during cutting and traverse," to "On only during cutting." The user can choose the most appropriate mode for any given application. When desired, the Dynamic Contour Follower can be used with an optional Collision Sensor to reduce the incidence of accidental mixing tube breakage due to crashes with tipped parts, fixtures, or clamps.

## Specifications

- Size: 5 x 5 x 5 in (127 x 127 x 127 mm)
- Weight : 0.75 lb (0.34 kg)
- Power Supply: 24 volts
- Speed Range: < 70 in/min (1778 mm/min)
- Material Tilt : 4° max, 1 in/14 in (70 mm/1000 mm)

## Part Numbers

- Dynamic Contour Follower: 714140
- 4 Inch Collision Sensor: 015286-1
- 5 Inch Collision Sensor : 015286-2

## Easy to Use & Maintain

The Dynamic Contour Follower is easily configured and controlled with the click of a mouse using FlowMaster®, Flow's intelligent, Windows®-based waterjet control system. All the user has to do is decide which mode to run and set the desired standoff distance. FlowMaster automatically does the rest.

Maintenance is just as simple with just a few easily replaceable wear components and very few moving parts. Those that do move are easily replaceable as complete assemblies.

As useful as the Dynamic Contour Follower is, there are applications where it is not necessary. Its quick-change design makes it easy to remove from your waterjet system and install the Touch Down Probe, which comes standard on every Dynamic Waterjet System.

Flow knows you only make money when your waterjet is in operation, which is why we designed the Dynamic Contour Follower to be reliable and maximize your uptime. With it, you will be able to produce more precise parts, even when cutting warped, non-flat and materials that are prone to stress relieve. The Dynamic Contour Follower also reduces the chance of mixing tube breakage and costly cutting head collisions.

## Dynamic Contour Follower Collision Sensors

The Dynamic Contour Follower has an optional Collision Sensor designed to detect and prevent collisions with obstructions that could damage the cutting head or Dynamic Contour Follower. When a collision is about to occur, both the waterjet stream and cutting head motion will stop.

## Choosing the Right Collision Sensor

The Collision Sensor is available in two sizes based on application needs:

### 4 Inch Collision Sensor

- Designed to be close to the material
- Used for precision parts
- Small footprint is desired
- Increase sensitivity to tipped up parts or obstructions while cutting
- Part #: 015286-1

### 5 Inch Collision Sensor

- Designed to be used farther from the material
- Able to ride up over obstructions while maintaining correct standoff
- Tipped up parts are common for the material or job
- Larger footprint is not an issue
- Used for less sensitive parts
- Part #: 015286-2

## INNOVATION | EXPERTISE | COMMITMENT

### Get It All with Flow

For over three decades, Flow has set the standard for excellence in waterjet technology. We are the only waterjet company in the world that offers total solutions and support from a single source, both before and after your waterjet system is installed. We learn your business requirements. We help you select and implement the right solution. We train your staff and we are there for you for the entire lifecycle of our products.

### When you partner with Flow, you get more than a product:

Our **INNOVATION** ensures that you will always have the latest and highest quality technology.

Our **EXPERTISE** ensures that you will always have the right technology for your individual business needs.

Our **COMMITMENT** to customer service ensures that you will always receive the support you need to stay productive.

For your complimentary needs analysis or a product demonstration, please call one of our waterjet experts at **1-800-446-3569**.

We look forward to partnering with you in your success.

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