

What is accumulator in water jet machining?

An accumulator is a tank that stores high-pressure water used for machining. It supplies water whenever there is a pressure drop and more high-pressure water is needed. The accumulator is an important element as it helps in the smooth running of the water jet machining process. There are two valves used in the process of water jet machining.

How long does a waterjet accumulator last?

The pressure accumulator has a lifespan of 10,000 hours. Even if you maintain the water jet in the best way possible, you will still need to replace these parts since they will undergo wear and tear during usage. For details on when to replace a particular component, you should check the waterjet manufacturer's specifications.

How do you remove abrasives from a waterjet machine?

If your abrasive waterjet machine comes with an abrasive removal system, run the cutting head with the tank filled with only water. This will stir up any settled abrasives in the catch tank. The chemical processes inside the waterjet, such as the build-up of high-pressure water vapor, can lead to accumulating gasses.

How does a water jet cutter work?

In essence, the water jet cutter operates by transforming mechanical energy from a prime mover (typically an electric motor or hydraulic power unit) into pressure energy through a specialized intensifier or high-pressure pump. This process can generate water pressures ranging from 60,000 to 90,000 psi (414 to 620 MPa) for industrial applications.

How does a water jet machining setup work?

The hydraulic pump is provided with a pressure gauge to measure the pressure of water being passed. Hydraulic intensifier is the main part of a water jet machining setup. This is responsible for increasing the pressure of water from 5 bars to 3000-5000 bars.

What is waterjet cutting?

Waterjet cutting, also known as "water as the knife," is an advanced machining technology that utilizes ultra-high-pressure water for precision cutting. This innovative technique originated in the United States, initially finding applications in aerospace and military industries due to its unique capabilities.

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There are several platforms (or subsystems) in a waterjet system. Figure 1 shows a schematic of a typical abrasive waterjet (AWJ) system . The waterjet system platforms can be divided as follows: Ultrahigh-pressure (UHP) ...

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Water jet machining is one of the modern machining processes which is used to machine different types of workpieces ranging from plastics to metals. As the name suggests in water jet machining, the force created by a ...

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This intensifier is connected to the accumulator. It accepts water under low pressure and exhales it through an accumulator at high pressure. ... After the removal of the material, the water that ...

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