



28 September 2012

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**For immediate release**

## **Techni Waterjet's Quantum NXT sets new industry standard**

The new Quantum NXT electric servo pump (ESP) by Techni Waterjet is technically superior, delivers even better performance and reliability and meets the increasing demands for improved cutting speeds and compatibility," company director Darren Reukers reports.

"We have increased the pump's power output by 20 percent, so the Quantum NXT cuts any suitable material faster, while the improved lubrication and cooling systems guarantee durability, reliability and low maintenance costs.

"I believe the Quantum NXT raises the bar on waterjet cutting technology and sets a new industry standard which includes a two-year/4000-hour warranty."

Mr Reukers added that the cost benefit of upgrading aging intensifier pumps or direct drive pumps with the Quantum NXT ESP is outstanding.

"The extremely high wear and tear on waterjet pumps means that the running costs of aging machines increases dramatically from year four, as many high pressure and hydraulic components have a design life of between 6,000 and 10,000 hours.

"Upgrading to a Quantum NXT makes good financial sense because it can effectively pay for itself within four years through lower electricity, water and maintenance costs, while creating a cleaner and quieter working environment.

The Quantum NXT is available in four models and offers a range of pressures and flow rate capacities to suit any waterjet cutting application. It is also 20 percent quieter and comes with multiple head capability and quick and easy connectivity to any waterjet machine.

Mr Reukers said, "The maximum noise level is 68 decibels, which is more than 800 percent quieter than most intensifier pumps, and it has a limited cooling requirement of around one gallon per minute (5 l/m) at 72° Fahrenheit (22°C), about one third of an equivalent Intensifier."

Quantum NXT can cut a wide range of materials, such as stainless steel, aluminium, glass, stone, rubber and titanium.

Mr Reukers said, "The Quantum NXT is the culmination of three years of field experience and customer feedback from more than 200 Installations across four continents". More information can be found on our website: [www.techniwaterjet.com](http://www.techniwaterjet.com)."

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## About Techni Waterjet and Electric Servo Pumps

Techni Waterjet is a leading international manufacturing and exporter of waterjet cutting systems.

Techni Waterjet launched its revolutionary ultra-high pressure electric servo pumps during 2009, winning the prestigious Innovation Award at EuroBlech 2010 in Hannover Germany.

The Quantum Electric Servo Pump (ESP) from Techni Waterjet combines the advantages of the two most prevalent ultra-high pressure pump (UHP) types (direct drive and intensifier) while avoiding their drawbacks.

Quantum NXT uses an electric servomotor to drive plungers that are directly attached to a reciprocating ballscrew, and is the subject of numerous technology patents. The ballscrew directly houses the ceramic plungers, which reciprocate back and forth to create the pumping action, in much the same way as a hydraulic cylinder works on an intensifier pump.

The infinite control of the servomotor and precision of the ballscrew, enable extremely accurate control over the output pressure and volume of the water displaced, and eliminates pressure spikes when deadheading. This design can generally match or surpass the performance of both direct-drive and intensifier models in efficiency, maintenance and footprint.

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