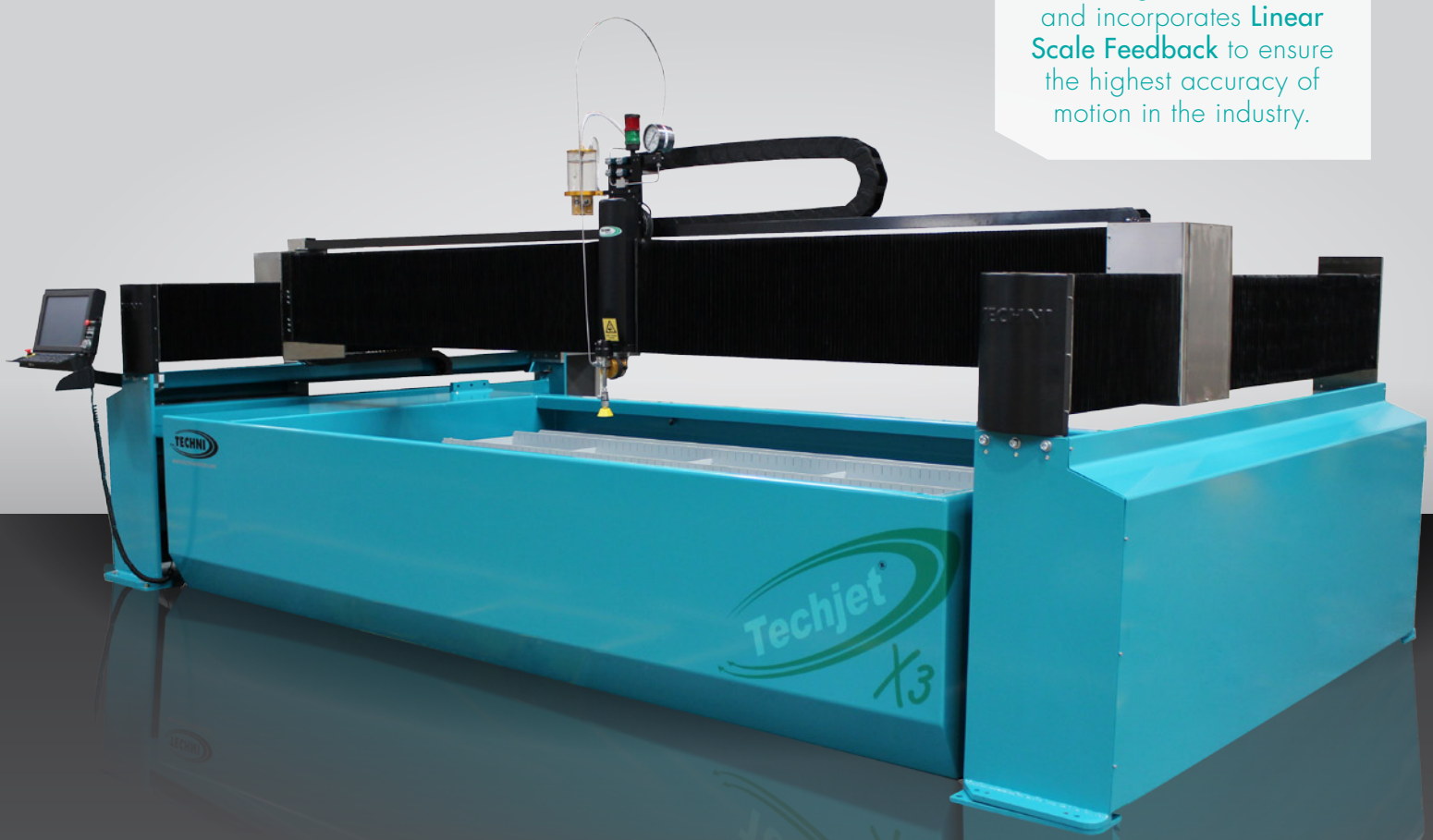
Techjet®

WATERJET CUTTING SYSTEM

The **Techjet-X3®** is built to the highest tolerances and incorporates **Linear Scale Feedback** to ensure the highest accuracy of motion in the industry.



Techjet®-X3

TJ4100

The premium series

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Scan the QR code to add TECHNI Waterjet's contact details to your smartphone.

TECHNI Waterjet™

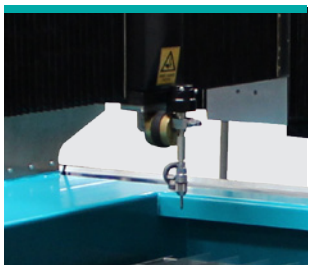
Innovation Through Passion

Techjet®-X3 The premium series

FEATURES

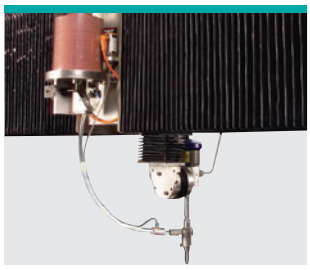
REMOTE CONTROL PENDENT (M.P.G)

The Remote Control Pendent makes setting up your waterjet machine fast, simple and accurate.



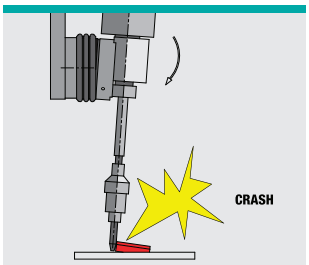
SERVO Z AXIS

A programmable Z axis with auto height position recall, laser terrain mapping and edge location optics.



TECH-SENSE™

To monitor the cutting head and pause the program prior to any blockage, making "Lights Out" operation a reality.



BREAK AWAY HEAD

Eliminates the risk of damaging the cutting head and scraping material in the event of a crash.

MORE FEATURES

H.P Gauge

The High Pressure Gauge provides water pressure readings to the user.

Water Raise/Lower for Submerged Cutting

By raising the water level and submerging the material, "the operating noise level" is reduced below safety limits.

Linear Scale Feedback

This unique feature makes the Techjet X3 range the most accurate waterjet cutting machine on the market.

Diamond Orifice

A diamond will typically give about 1000 hours of trouble free operation compared to a sapphire of approximately 50 hours.

PAC60™

60 Degree Bevel Cutting

The PAC 60™ is capable of producing parts with a true angle up to ± 60 deg with continuous rotation. That means regardless of the geometry of the part to be cut, the PAC 60™ will produce it without having to reposition the cutting head, saving time and producing higher quality parts.

Capable of producing parts to tolerances of ±0.1 degrees.

ELECTRIC SERVO PUMP

Core Technology - Proven & Reliable

Quantum NXT™ - 55,000 or 66,000 PSI
The TECHNI Waterjet™ Quantum NXT™ incorporates core "direct servo" technology that was first applied by NASA for the Space Shuttle Program.

Quantum NXT™ Dual - 55,000 or 66,000 PSI
TECHNI Waterjet™ is the first waterjet manufacturer to develop an Electric Servo pump for the waterjet cutting industry.

TJ4100-X3 SPECIFICATIONS

Machine Size (L, W, H) (Does not include pumps or control cabinet)	5800 x 3400 x 2100 mm (19′ x 11′ 2″ x 6′ 10″)
Machine Weight (empty)	4100 kg (9040 lb)
Machine Weight (with water)	13600 kg (30000 lb)
Cutting Table Size†	2020 x 4400 mm (7′ 10″ x 14′ 5″)
Cutting Area†	2100 x 4100 mm (7′ x 13′)
Accuracy of Motion*	± 0.025 mm (0.001″)
Repeatability of Motion*	± 0.015 mm (0.0005″)
Max Air Speed	17.5m/min (700 ipm)
Max Cutting Speed	17.5m/min (700 ipm)
Max Material Thickness	200 mm (8″)

Important Note: Due to a constant endeavour to improve the machine, the specifications may change without prior notice. All the above accuracy tolerances are correct at the calibration temperature of 20° ± 1° C.

† Cutting Area and Cutting Table size can be limited by tank selection.

*Linear/Axis/Meter.