

Simplest solutions often best

In the very harsh and challenging environment of an abrasive waterjet cutting machine, it becomes a real challenge to come up with a drive system that can produce the extreme accuracy required, but not become a maintenance nightmare.

This was the challenge facing Techjet engineers. The answer was a high-precision, polished stainless steel belt under high tension, driven with a polyurethane-lagged drive pulley. This extremely simple and innovative technology is of the highest accuracy due to a friction drive having zero backlash, and not subject to any wear. It is also by far the most suitable drive system for the extremely harsh abrasive waterjet environment.

With traditional drive systems, accuracy is continually deteriorating as the system wears, and when (not if) you suffer a hole in your drive protecting covers or bellows, traditional drive systems are doomed and the down-time and expense can be huge.

The Techjet drive system will continue to run accurately even with water and abrasive present,



and in a worst-case scenario it is relatively inexpensive and simple to replace any of the drive components.

To ensure these extremely high tolerances,

each Techjet machine is calibrated with a laser interferometer which is capable of measuring to 0.0001mm (0.000001")

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