

WRS

WESTERN RUBBER AND SUPPLY, INC.

Dynamic Water Jet Cutting

- *Cut parts 25-400% faster than conventional flat stock waterjet cutting machines.*
- *Improve cut part tolerances and geometry at significantly higher cutting speeds.*
- *Virtually eliminates taper; taper is less than 1 degree in straight-line geometry.*
- *Reduce part cost without hard tooling.*
- *True part stacking ability with consistent tolerance layer to layer.*
- *No secondary finishing required.*
- *Cuts metal, stone, glass, rubber, plastic and composites.*
- *Make parts from a variety of CAD files.*
- *Can cut to tolerances of +/- .003 or better, depending on the material.*
- *WRS can supply CAD services.*

Waterjets are able to cut complex shapes and parts in almost any material – from metal of all sorts, to stone, glass, ceramics, rubber, plastics and composites – all up to 8 inches thick. Since waterjets cut parts with no heat affected zone, secondary finishing is typically unnecessary. Because waterjets put no lateral force and exert very little downward force on parts they are cutting, no elaborate fixturing provisions are required.

Our Dynamic Waterjet with Active Tolerance Control produces more accurate parts at significantly higher cutting speeds than parts cut with a conventional waterjet. The Dynamic Waterjet cutting system uses a newly-developed advanced motion system that incorporates unique mathematical cutting models, which control a small, articulated wrist that is 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.



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