



MagnumVenusPlastech

CUSTOMER CASE STUDY

O'Brien Watersports Equipment Makes the Switch to MVP Mini Link

In 1962 a new company entered the world of manufacturing products catering to the growing popularity of water sports. That company was O'Brien.

Based in Redmond, Washington, O'Brien has put more people on the water than any other watersports company.

For over forty years manufacturers of towable watersports products have seen many changes and new innovations, and O'Brien was one of the companies introducing those innovations to the market.

O'Brien, with a product line that includes wakeboards, waterskiis, water skates, knee boards and more, has a simple mission; design and build water sports products that enhance the performance of our world class team of athletes and use that technology to create great quality products for the enjoyment of our customers.

It is their commitment to producing a superior product that eventually led them to the Hydraulic Mini Link System from Magnum Venus Plastech.

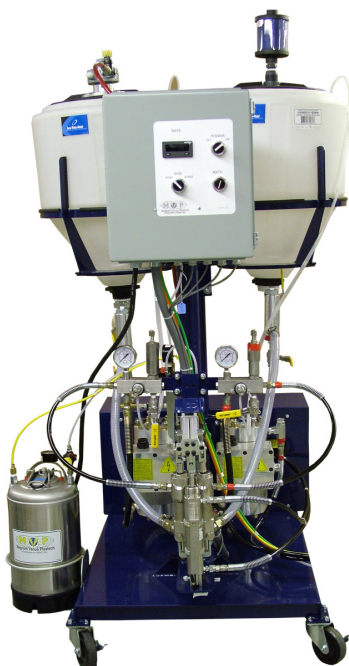
For many years, they used "typical" production methods for manufacturing their products. The products were top of the line, but the bottom line was definitely suffering. With an average waste rate of 30 percent for each product manufactured, they were looking for a way to continue producing a superior product in a more efficient manner.

MVP Sales Representative Bill Rice introduced them to the Hydraulic Mini Link System.

The Mini Link system uses a hydraulic motor and cylinder to drive the metering system, which delivers an extremely consistent mix/meter of materials at low flow rates not possible with a pneumatic drive system.

This is a critical requirement when injecting mixed/metered resin into a pultrusion die, maintaining proper glass to resin ratios with almost no waste. The hydraulic pump reversal is achieved using two magnetic proximity switches for rapid pump reversal change.

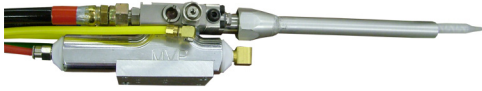
Both material fluid sections are constructed from stainless steel, and the piston rod and fluid cylinders use hardened 440 stainless steel for wear resistance. Both fluid sections are adjustable for ratio variations, though typical



applications only require a 1:1 ratio.

The control panel includes a single turn potentiometer to control the speed of the metering system, and an LCD rate indicator for speed reference.

Two thermoplastic 15 gallon gravity feed containers with angle base bottoms are standard. Each container feed line includes filter housings with 30-mesh screens. The resin tank lid includes an air driven mixer and the Isocyanates tank lid has a desiccant vent dryer.



The MVP Automatic 1:1 Pro Gun is used for mixing/dispensing of the A & B materials using a pneumatic actuator for open/close position. Both A & B materials only come into contact at the static mixer, so the only part to be replaced if the gun is not flushed or purged is an inexpensive static mixer.

A 3-gallon solvent tank with air purge selector valve makes clean-up a breeze on system shut-down.

O'Brien recently put the Hydraulic Mini Link into action in their production line, and have been amazed with the results. Their average waste per product went from an average of 30 percent down to nearly zero. They are very pleased that the efficiency of this system will maximize the return on investment in material savings to quickly offset its cost.

