



## PRESS RELEASE

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### **Wire Forming : A Market Within Reach for Spring Manufacturers**

Boundaries between wire forming and spring manufacturing markets are razor thin. Yet how is it possible to address the wire forming market when your equipment consists exclusively of spring machines?

In either markets, prototyping is usually an investment and a must-do to land a deal. Small and medium series are generally bound to larger series market commitment from a major customer. Both are costly in set-up time, engineering and tooling development. Hence, in an even tougher market, it is more and more difficult to justify these production runs as their profitability is hazardous.

The challenge is to find a machine whose affordable toolings will allow production of complex parts. Development costs will be kept down if the same toolings can be used for different prototypes and pre-series. The engineering costs can be kept low with the use of easy programming and teaching pendant. Lastly, tooling and wire size change-overs time needs to be kept as little as possible.

To address those challenges Numalliance R&D team went back to the drawing table to enhance the FRX04. The results are shown in innovative memory straighteners, reduced weight, and easier programming with the "Touch and Form" software. Consequently, the overall speed performance is increased by 25%. Also, the company's famous hybrid bending is available on that machine whereby the bends can be performed on the mandrel and on the nose at the same time allowing the creation of a positive and a negative bend in one movement. These one-of-a-kind features help to reduce cycle time and the whipping of the parts.

A closer look at this machine will give a clear feeling that its capabilities are only limited by one's imagination.

### **Muffler Hanger : The Market Drift**

Tube is more than a wire with a hole in it. As obvious as it sounds weight gain and N.V.H. –Noise Vibration and Harshness- characteristics of tube makes wire less appealing to the muffler hanger industry and O.E.M. have recently started to shift from wire to stainless steel tube.

The increased complexity and weight of the exhaust line and the limited space allowed for them makes the design of muffler hanger more and more challenging. At the same time pressure on pricing continues. Optimizing wire and tube bending investment becomes the only option to meet those requirements.

Available as a stand-alone unit as well as a full fledge working cell the Numacell allows its users to address both wire and tube market at the same time. Fed from cut-to-length cold-headed parts or from coiled material that equipment can improve cycle time by up to 55% from a standard feed and form machine. This amazing productivity result comes from years of expertise developed at Numalliance for optimizing performance at each step of the process: chamfering, upsetting, transferring, bending.

Based on the Numabend T 815 as the tube and wire bender, the 8 servos on this machine is not only capable of bending left and right but also of using the bending pin as a mandrel increasing the number of available radii.

With an increased interest in more automation in the U.S. market, Numalliance who has integrated robots for the past ten years in European is leading the pack for wire and tube work cell solution design.