

TAKTICS

A publication of
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TAK Now Offers New MEG Pick and Place Product Line

At TAK Enterprises we are always on the look-out for new products that can offer North American manufacturers the potential to be more competitive. To that end we are introducing the MEG line of mechanical pick and place units.

To be competitive in today's market dictates that manufacturers employ every avenue possible to reduce product costs. One effective solution for cost reduction is the elimination of labor content. Once the labor has been removed from the cost equation, we, as North American manufacturers, can level out the playing field a bit with our off-shore competitors.

The use of pick and place robotics has been a very effective means for reducing labor content. Depending upon the level of complexity required, CNC controlled programmable robots are often a viable choice. However, for simple, repetitive applications that do not require multiple movements, there

are **now available "off the shelf" electro-mechanical pick and place systems that are very low cost.** These devices are generally much less expensive than designing and constructing a custom mechanical pick and place unit in-house.

The standard 2 axis devices offered by MEG are cam actuated and driven with an electric motor. The compact design allows for mounting in tight spaces, and there are a wide variety of standard grippers, escapements, indexers, alignment units and part turning devices offered. Center, side and overhead carriage configurations are available.

Starting at list prices as low as \$2,850 makes these standard pick and place units a low cost solution for many light duty part moving applications.

If you have an interest in a compact, economical pick and place device, contact us for details and specifications. And keep an eye on our website, as more information and videos on the MEG products will be uploaded soon.



Cam Actuated Air Valve for Gripper Control



Center Carriage Unit



Part Rotating Effector



2 Axis Cam Actuation

Promotions Announced at TAK Enterprises



Patricia "Patti" Gianatti
V.P./Executive Manager

Thomas A Kunkler, President/CEO of TAK Enterprises, is pleased to announce the promotion of Patti Gianatti to the position of Vice President/Executive Manager, and Woody Griffing to Vice President/Business Development.

Patti began with TAK Enterprises as Accounting Manager 8 years ago, and has 15 years experience in human resource, finance and business management. Patti will now be responsible for all human resource, planning and financial operations.

Woody joined the TAK Team 3 years ago as Product Development Manager, and has a 28 year background in the wire and strip metal

forming and fabrication industry.

Woody is tasked with the identification of new markets for existing products, and the development of new products and markets for TAK Enterprises going forward.

Thomas expressed that "The addition of Patti and Woody as partners in the corporation will insure future stability and promote growth for our company. I am very confident that our team now has the depth and experience to meet the challenges presented in today's global business climate."

Congratulations to Patti and Woody!



Sherwood "Woody" Griffing
V.P./Business Development

TAK Introduces the Colombi "EVO" In-Line Spring Coiling System



EVO In-Line Coiling System

The most efficient and flexible method to assemble springs involves the integration of spring feeding and production into one system. The Colombi concept of in-line spring coiling is based on this premise, and can result in a reduction of logistics cost and serves to make the production process more flexible.

With the ever increasing pressure to offer systems with increased capabilities at lower cost, our business partner, Techno-Detaljer of Sweden has introduced the Colombi EVO CNC Coiling System for in-line production, inspection

and testing of coil springs.

Designed for assembly line applications, the EVO System can be integrated directly into a production line, and arranged to pull wire from a spool, wind a spring, heat treat, check the length and load values, and deliver it to the product automatically.

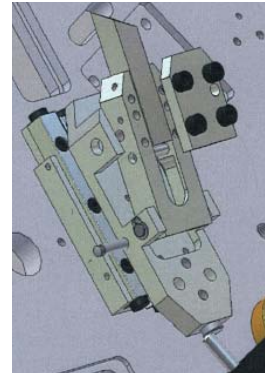
Designed as a modular system, the EVO is a cost effective solution for applications that are suited for the "C Series" fully CNC coilers, but do not require the level of control over spring characteristics that the fully CNC coilers can deliver. The EVO is equipped with 2 standard CNC axis for the wire feed and pitch functions, and can be fitted with diameter and/or cutter axis if required.

A new generation of tooling has been integrated into the EVO design. The modular tooling concept facilitates adjustments, reduces worn tool replacement downtime and minimizes the skill level required to make tool changes.

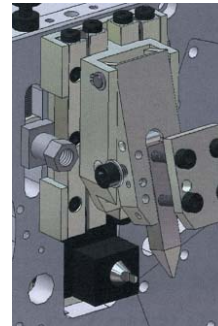
For more information on the new Colombi EVO please contact us.



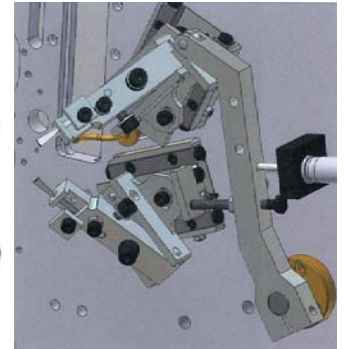
The EVO System can be equipped to stress relieve and load test springs in-line prior to delivery to an assembly station



EVO Pitch Tool Module



EVO Cutter Tool Module



EVO Dual Coiling Point Modules

TAKniques : • Case History •

High Volume Cut-To-Length and Batch Segregation Solution

Objective

Develop a standard system for high volume automated production of straight cut wire lengths from bulk spools in segregated batches.

Case Specifications

Cut Length: 8.625" +/- .003
Wire Diameter: .025" SS Annealed
Batch Size: 256 Pieces
Rate: 13,000 per hour

Solution

The TAK #2 Servo Feed System with its standard software package was selected as the base module, and was integrated with other standard and custom products as a solution for this application. The high speed feed and cut capability, and programmable I/O available allowed us to control the entire production and batching process via the standard touch screen interface.

Incorporating our standard #3 quill-on-quill cutter head delivered the burr free cut quality required, and a standard, continuous conveyor with molded lugs on the belt was selected to provide compartments for the 256 piece segregated batch size.

Sensors were utilized to detect positioning of the molded lugs on the

conveyor belt so it could be accurately located to accept the cut lengths as they exited the cutting quills. When the 256 count is satisfied, the servo feed pauses, and the conveyor motor is actuated until a sensor sees the next belt lug. The servo feed then commences to fill the next batch compartment.

The conveyor arrangement with 23 individual batch compartments allows the system to operate unattended for approximately 1/2 hour. When all compartments are full, the system pauses and a signal light illuminates along with an audible alarm. The compartments are emptied manually and the system is then re-started.

To accommodate the high wire feed rate (33"/sec.) a new, high speed fine wire payoff was developed. It incorporates a lanyard type speed potentiometer to insure smooth acceleration while maintaining constant tension on the wire for best results with the TAK #1 PWS Precision Wire Straightener employed to keep the cut lengths straight.

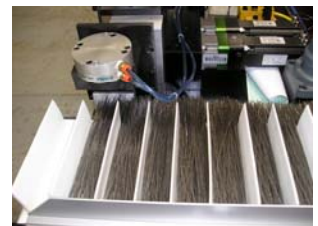
For additional information on the full system capabilities offered by TAK Enterprises, visit our website at www.takenterprises.com or contact us at 860-583-0517.



#2 Servo Linear Feed System with Touch Screen Interface, #3 Quill-On-Quill Cutter Head, Batching Conveyor and High Speed Payoff



Conveyor with Molded Lugs



Cutter Head / Conveyor Belt Batch Compartments



High Speed Fine Wire Payoff with Lanyard Speed Potentiometer

**Comments or Questions Concerning the TAKtics Publication? Please contact Sherwood Griffing
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