

## PRODUCTS

### Zinc-calcium phosphate process offers users one-pass ease

Germany-based Staku—Anlagenbau GmbH and U.S.-based Wire Machine Systems announced the development of Staku-Ephos-technology, a continuous electrolytic zinc-calcium phosphating process used for coating of cold heading and steel wire material.

A press release said that the in-line production enables the user to perform the de-scaling and phosphating process in one pass. Optimum cold-forming and drawing results are obtained by the 100% coverage of wire surface and the fine crystalline structure of the electrolytically deposited zinc-phos layer (coating



weights between 6 and 10g/m<sup>2</sup>), it said.

In general, all wire diameters from 3 to 20 mm can be operated with drawing speeds of about 60m/min, it said, adding that cleaning and coating with the Ephos technology is used on de-scaled and annealed wire rod, pre-drawn, annealed and patented steel wire. De-scaling of the wire rod can be done by in-line shot blasting or a combination of mechanical bend de-scaling and electrolytic pickling system, it said.

Contact: **Staku Anlagenbau GmbH**, tel. 49-6404-20 31, info@staku-gmbh.de; or **Wire Machine Systems**, tel. 260-483-9269, sales@wire-machine.com.

### Wire measuring system heads off structural return loss failure

U.S.-based Beta LaserMike announced the release of its SRL Pro, a length measurement system that allows detection of periodic variations in wire diameter, insulation diameter and capacitance.

Ensuring that category and coaxial cable meets Structural Return Loss (SRL) performance specifications is essential, and off-line testing is one way to determine whether the wire is made properly, but can end up being costly when the cable fails, a press release said. These cyclical variations cause impedance variations on finished cable, causing SRL failure, it added.

SRL Pro is equipped with eight analog input channels, it said. It can perform Fast Fourier Transform (FFT) on any sensor with analog output, such as Beta LaserMike's LaserSpeed gauge, tension gauge, accelerometer, temper-

ature gauge, current sensor to detect variations in extruder screw driver, it said, adding that it can also predict SRL performance of the finished cable.

SRL Pro is equipped with up to 13 graphs per channel, simultaneous displaying of multiple channels in the same graph, warning and reject tolerance setting for external alarm, spectrographs for trending FFT and SRL for the entire reel and more.

Contact: **Beta LaserMike USA**, tel. 937-233-9935, www.betalasermike.com.

### Automatic spool winding line doubles normal machine output

Italy-based PS Costruzioni Meccaniche Srl announced the release of its new, improved double-head fully automatic spool winding line.

The PS 200/6/B allows operators to double normal machine output due to the design of two winding heads that work at the same time.

It can accommodate approximately 200 card-board,



aluminum, plastic, plywood and wooden spools, with a spool diameter range from 100 to 200 mm and flange from 50 to 190 mm, a press release said. It can produce more than four spools of 100 m per minute, and the wire guide comes with CNC digital technology and CNC software, it said, adding that upon request, an in-line cable diameter detector can be included, which can correct any cable diameter modification in real time.

Contact: **PS Costruzioni Meccaniche Srl**, tel. 39-039-6898763; ps@pscostruzioni.com; www.pescostruzioni.com.

### Photovoltaic-rated solar cable holds up under stress

U.S.-based USA Wire & Cable, Inc., announced the launch of USA Solar Cable, the first photovoltaic-rated cable for the solar energy industry.

The cable will be used to wire hundreds of photovoltaic panels to the electrical collection system on utility-scale solar energy projects and is designed to withstand long-term exposure to extreme conditions, a press release said.

The jacket is lead-free, halogen-free, limited smoke producing, flame retardant and environmentally friendly, and in fire, the cable will not emit harmful gases, smoke