

## Modular punch assembly

One-piece modular punch assembly units have a punch-and-die design to make custom shaped cutouts. Applications include punching holes in flexible materials such as films, nonwovens, hose, tubing, foam, rubber, laminates, etc. Optional features include custom shapes, single or multiple tooling and sensors. In addition to punching out holes or shapes, the units are capable of creating virtually invisible micro punches. Unsightly holes in packaged bags are eliminated, allowing for a variety of display options without compromising the product's package integrity or aesthetic quality, according to the company. Available in pneumatic or electric configurations, the punch units use hardened steel tooling that is said to be clean cutting and fast acting. The assembly can be mounted in any orientation. (Azco)



[www.azcocorp.com](http://www.azcocorp.com)

## Cartridge dust collectors

Two updates have been made to the Farr Gold Series cartridge dust and fume collectors. The two improvements, one to the filter access door hardware and the other to the filter clamping system, are said to provide enhanced ease of use, safety and reliability, at no added cost to customers. A patent-pending clamping system on the door hardware is said to provide greater locking strength and makes it easier to close the door. The filter clamping system has also been updated to utilize laser-cut, welded-in clamp bar brackets in place of bolted-in brackets to hold the clamping bars to the tube sheet. (Camfil Air Pollution Control)

[www.camfilapc.com](http://www.camfilapc.com)

## Soft-seal rotating unions

Multi-passage soft-seal rotating unions are available from the company. Rotating unions are components in a broad range of equipment applications that require connection between stationary supply lines and rotating equipment, including cylinders, rolls, spindles and clutches. While rotating unions are used to convey virtually all types of liquid or gas (steam, water, coolant, hydraulic or cutting fluids, inert gas or vacuum), multi-passage rotating unions are used when more than one media must be conveyed simultaneously using different passages. Soft-seal refers to the plastomeric seal technology, a combination of plastic and elastomer. (Deublin)

[www.deublin.com](http://www.deublin.com)



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<http://www.rubberworld.com/equipment>



## Particle size reduction

Particle size reduction can present challenges to processors in industries such as rubber, plastics, etc., particularly when working with heat-sensitive and tough-to-mill materials. This cryogenic grinding specialist provides technical information about PolarFit cryogenic size reduction solutions, which use liquid nitrogen to cool down feed material prior to and/or during milling. Exposing material to liquid nitrogen is said to help prevent melting or decomposition, or achieve embrittlement, resulting in a higher yield of particles in the desired target range, more uniform particle size distribution, higher production rates, improved product quality and enhanced process safety due to the nitrogen inertness. Company offerings include turnkey cryogenic grinding systems, as well as individual components to retrofit an existing process; liquid nitrogen supply, which is available in a variety of delivery options to economically meet small- to large-volume requirements; and value-added services, such as technical assessments/improvements of existing milling systems and optimization of liquid nitrogen use. (Air Products)

[www.airproducts.com](http://www.airproducts.com)

## Safety rubber grinder

The Model 482 safety rubber grinder features improvements that have been made in the areas of safety and ease of use, with the Model 482 replacing the older Model 48 grinder.



With improved safety and efficiency in mind, several changes have been made. Servo controls on the carriage eliminate the manually adjusted limit switches for the start and stop positions of the carriage. They are now controlled on the Allen Bradley touchscreen HMI. With a servo controlled carriage, the grinding wheel retreats

safely behind a guard at the end of the grinding cycle, greatly improving safety for the machine operator. Servo controls also replace the manually operated slide adjustment of the grinding wheel. This allows for the finished diameter to be set on the touchscreen. (Mitchell)

[www.mitchell-inc.com](http://www.mitchell-inc.com)

## Injection molding machine

The tie-bar-less all-electric e-motion 50 TL has been introduced. Said to feature greater output, more speed, higher precision and outstanding cleanliness, the e-motion is said to be the optimal production unit for the ever-growing demands of a dynamic market, thanks to a sophisticated, flexible, all-electric machine concept that provides constant, clean quality in a highly efficient way. Low maintenance costs contribute to a durable injection molding machine with a perfectly designed, closed-circuit lubrication system, according to the company. Clamping force ranges from 300 kN to 6,500 kN. Short dry cycle times are said to provide efficient production. (Engel)

[www.engelglobal.com](http://www.engelglobal.com)