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Starlinger: New sack collection for woven plastic fabric

As world market leader in machinery for woven plastic fabrics, Starlinger has been setting trends for decades with innovative packaging solutions for dry bulk goods. Now customers can choose from an even broader and more individual product range on Starlinger machinery: from an automatically inserted PE film liner and an easy-open feature up to ultra-light sacks.

For many years, Starlinger has been developing packaging solutions based on woven plastic fabrics in close collaboration with its customers; these solutions are designed for fully automatic production on the lines of the Austrian machinery manufacturer. One of the most popular solutions created by Starlinger is the AD*STAR block-bottom valve sack, which combines the advantages of a paper sack with those of woven plastic fabric. On the textile machinery exhibition ITMA 2019 in Barcelona, Starlinger has now presented three new sack types: AD*STAR *easy, IC*STAR *liner, and AD*STAR *ultra. These new sack types are not merely eye-catchers; new features open up even more diverse areas of application as well as new markets for Starlinger customers.

**AD*STAR *easy**

With its patented easy-open feature, the AD*STAR *easy sparks a revolution in the field of woven plastic bags. This new feature allows for quick and easy emptying without the use of mechanical tools: To open the sack, a strip that is welded to the bottom patch is simply pulled off. This means that woven plastic sacks are now catching up with paper sacks in this regard, and greatly facilitate the daily work of end consumers. The new easy-open feature is available on the Starlinger sack conversion line ad*starKON HX, which on top of that is equipped with intelligent features such as iMOVE, iSHAPE, and iPATCH as well as a dual stacking unit. The line covers a broad format range, from a sack capacity of only 5 liters up to 100 liters. The development of the AD*STAR *easy was prompted by the great demand in the market, which is also reflected by the sale of the first two easy-open lines within a very short time.

**IC*STAR *liner**

Welding instead of sewing: This is the concept behind the IC*STAR, which emerged in 2016 from a cooperation between Starlinger and the company STATEC BINDER. IC stands for "innovative closing", which emphasizes that the woven bag is closed by welding instead of sewing and thereby sealed in a completely tight way. This concept allows for substantial material savings in production and turns broken needles, stitch holes and traces of oil on the sack fabric into a thing of the past. With the IC*STAR *liner, customers now benefit from an additional innovation: During the production process, this new sack type is lined fully automatically with a polyethylene film that offers maximum product protection for sensitive applications such as the packaging of food and hygroscopic products (e.g., commercial fertilizers). The fabric for the IC*STAR *liner is produced on a Starlinger circular loom, the FX 6.0 L, which has been specially adapted for this purpose.

**AD*STAR *ultra**

With only 62 grams, the AD*STAR *ultra is the lightweight among woven bags made of polypropylene fabric. Less weight means material savings in the manufacturing process,
and despite its low weight, the AD*STAR *ultra is extremely robust. With dry bulk goods such as cement, the so-called tensile energy absorption (TEA) plays an important role because under load, as during sack filling or a fall from a large height, the packaging is subjected to considerable forces. This is where the interaction of strength and elongation of woven plastic fabrics comes in: Starlinger tapes show a high elongation which is retained over the entire process chain; in combination with the high strength of the tapes, this results in a higher TEA than comparable products and thus in an optimal performance under stress.

Well before the launch of these new sack types, Starlinger has been offering an extremely diverse range of packaging solutions made of woven plastic fabric. Some of these popular solutions are the PP*STAR pinch-bottom sack for consumer goods packaging, the AD*STAR *carry with handles for the do-it-yourself market, and the AD*STAR *mini, which has a capacity of 5-15 kg and lends itself to the packaging of smaller product quantities (e.g., tile adhesives).

AD*STAR®, IC*STAR®, and PP*STAR® are registered trademarks. AD*STAR®, IC*STAR® and PP*STAR® sacks are produced exclusively on Starlinger machines.

Images and captions:

Image 1: The new Starlinger sack collection: AD*STAR *ultra, IC*STAR *liner and AD*STAR *easy. ©Starlinger

Image 2: Quick and easy emptying without the use of mechanical tools thanks to the easy-open feature. ©Starlinger

About Starlinger & Co. Ges.m.b.H.:

Starlinger is a Vienna-based engineering company with production sites in Weissenbach and St. Martin, Austria, as well as Taicang, China. As the world’s leading supplier of machinery and complete lines for woven plastic bag production, recycling and PET extrusion and refinement, Starlinger & Co. Ges.m.b.H. is a synonym for leadership in quality and technology in over 130 countries. Founded in 1835, the family-owned business has been exporting machines worldwide for more than 50 years with an export quota of over 99.5%.

Sales and service centres in Brazil, China, India, Indonesia, Mexico, Thailand, Russia, South Africa, USA and Uzbekistan ensure quick and professional technical support and service.

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