KUHNENEWS



FILMS SHEETS E

EXTRUDER

K show 2013 – Come visit us!

International Trade Fair No. I for Plastics and Rubber Worldwide Düsseldorf, Germany makes the

16 - 23 October 2013

Every three years it's time for the K show again: The biggest show for plastics worldwide opens their gate this autumn. From October 16th until October 23rd, numerous exhibitors from all over the world welcome their customers on a fairground of more than 168.000 square meters in Düsseldorf, Germany.

ference

For KUHNE Group also the K is the highlight of the year. On our usual booth A 41 in hall 17, we are looking forward to meet existing and potential customers. Technical and commercial representatives from all three companies of the group – Maschinenbau, Anlagenbau und K Tool – will present their products and latest technologies on the eight days of the fair. The success from the last show in 2010 encouraged us to keep the concept of focussing on final products, applications and films – as this is what really counts for most of our customers. Presentations, movies and samples will be the basis for interesting and fruitful discussions.

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Shortly before, during and after the K show, KUHNE Maschinenbau, division Smart Sheets, will present their newest PET twin screw extrusion line at KUHNE headquarter in Sankt Augustin; only one hour by car from the exhibition. Please refer to the corresponding article in this KUHNE NEWS.

Twin screw PET lab-line at KUHNE headquarter during the K show

With the Austrian company MAS, KUHNE Group has found a reliable, technical and global acting partner. Their conical shaped twin screw allows excellent homogenization of even additives and colours and can be removed to the back.

The huge feeding zone gives the possibility of transforming materials with very low density, which gives a high torque – at the same time the machine can be operated pressure constant. In opposite to non-conical twin screws, the MAS system builds up a pressure of up to 200 bars. The medium-sized company MAS has already implemented successfully quite a few of these twin screw extruders on the global market. On the occasion of the K show 2013, a complete twin screw extrusion line



75-mm Twin screw PET lab-line by MAS

– overall width 1100 mm – will be installed at KUHNE Group headquarter in Sankt Augustin, Germany. Complemented with the KUHNE components coextruder, 3-layer feedblock, rollstack and haul-off, the total hourly output will reach 1 t/h. The line will be rounded off with dosing and feeding, thickness measurement, automatic edge cutting and a double station winding unit with accumulator. From middle of September on, the extrusion line will be shown to the public. Please contact us for trials and presentations. With this line, KUHNE Group Smart sheets complements its portfolio of solutions for the processing of PET. More, already successfully and numerous realized, solutions on the market are – for applications with pre-drying: The classical KUHNE mono screw with dry air / crystallization or Infra Red drying and for applications without pre-drying: The Vacurema system in cooperation with EREMA, the MRS extrusion system in collaboration with GNEUSS and the corotating and the non-conical twin screw with LEISTRITZ. Some of these concepts will be presented in detail in the next edition of KUHNE NEWS.

In all of these lines, we offer our customers tailor-made solutions that fit best for their needs and requirements. KUHNE Group gladly acts as main contractor, managing everything from dosing and feeding until the handling of the finished rolls, including transport, erection, start up and complete service as Turn-Key solution.

Contact us!

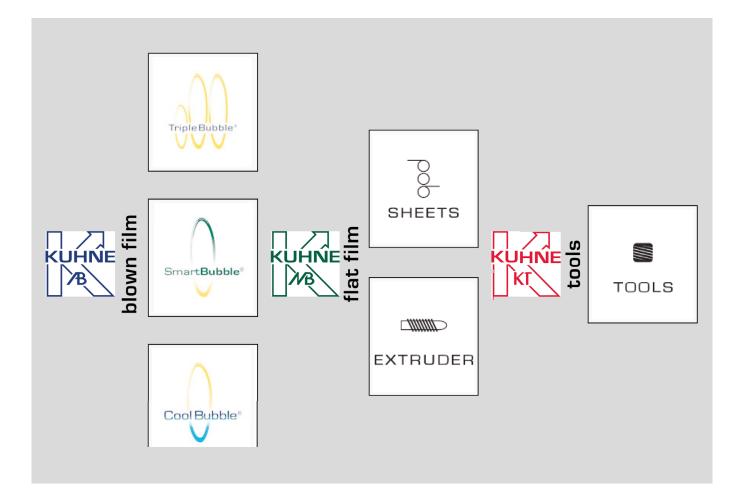
KUHNE Group reloaded

Perfect timing is demonstrated by KUHNE regarding the new structure within the Group: Just in time for the upcoming K show in Düsseldorf, KUHNE Anlagenbau takes over the section Smart Bubble, consisting of the "classical", air cooled blown film.

Previously, Anlagenbau covered only the special blown film lines in the field of Cool, Double and Triple Bubble. Together with the Sales Team, design and R&D staff is shifting to KUHNE Anlagenbau.

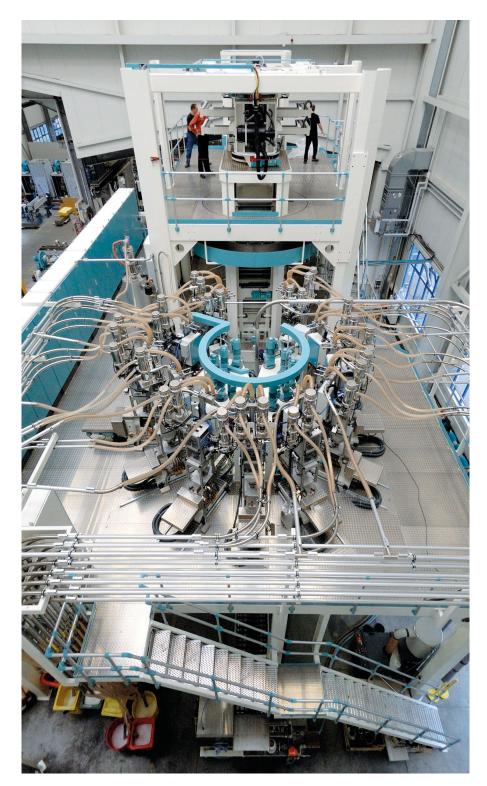
For our customers, all contact persons and data remain unchanged; as well as the site of the Group in Sankt Augustin, Germany. This well organized step to split the blown film and sheet / film activities shall support the ongoing specialisation of the Group members Anlagenbau, Maschinenbau and K Tool in order to offer our customers even more know how for their tailor made technical machine solutions.

The internet site **www.kuhne-group.com** will be adjusted accordingly.



A layer ahead – KUHNE Anlagenbau presents 11-layer concept

The new 11-layer concept of KUHNE Group Anlagenbau has been introduced independent of the different product ranges Smart Bubble[®], Cool Bubble[®] or Triple Bubble[®]. The principle idea is to design all 11 extruders and as a result all 11 layers in the same way, so that all known raw materials can be processed – such as PE, PP, PET, PS, PA, EVOH, COC, EVA, EMA, lonomer and more. Special KUHNE designs for screws and barrels allow this.



The use of melt pumps for all extruders is decisive. KUHNE Anlagenbau has been implementing these especially for the Triple Bubble[®] and Cool Bubble[®] technology since now already 20 years. This allows a perfect, continuous distribution of the melt and a stable melt pressure in the head. Melt pumps are being used more and more in the field of conventional blown film lines (Smart Bubble[®]).

The new designed head design, which can be used within the Triple Bubble[®] lines even for more than 11 layers and die diameters from 200 to 600mm, supports this development. In the medium term, 13-layer lines are planned, even up to 17 layers at long term in the same concept.

The typical die diameter for Cool Bubble[®] and Smart Bubble[®] machines is between 400 and 800 mm. Cool Bubble[®] is already heading for die diameters of up to 1000 mm. In the future, a maximum die diameter of 1200 mm can be achieved.

A huge advantage of this machine concept is the enormous flexibility. The modular design with identical extruders, screws and melt pumps allows low and economic spare part and maintenance handling for our customers.

This new trend allows to run 11-layer high-barrier films as well as all known 9-, 7-, 5- and 3-layer structures.

KUHNE Group has already sold six 11-layer blown film lines within the first half of 2013.

New 11-layer concept with same design of all 11 extruders für PE, PP, PET, PS, PA, EVOH, COC, EVA, EMA and lonomers

Another huge line for geomembrane sheet ordered

Meanwhile the 7.5 m wide line for the production of geomembranes is on it's way to the customer in Algeria, KUHNE department Smart Sheets was successful in selling yet another, technically highly sophisticated line of that type.

The machine – sold to the Middle East – will produce geomembrane coextruded PE foil with an output of 2 t/h and a net width of up to 8 m. The line is scheduled for delivery in summer 2014.

With this, KUHNE could already for the second time within one year convince a globally acting producer of such films of the know-how and professionalism of the machine manufacturer in Sankt Augustin, Germany. Especially widths of 6 m and more are a unique selling point.

The most important requirement of the geomembrane is the stability against movements in the soil and sinkage –

in the same time preservation of perfect leakproofness. The applications for such films are getting more and more numerous: Industrial waste dumps, storage of chemicals, water tanks, canals and dikes, but also irrigation ponds or for the production of raw materials such as copper and more.



7.5 m wide line for the production of geomembranes

Strike for KUHNE Group

Staff and members of KUHNE gathered already for the sixth time middle of June for their annual Bowling Cup. After a rich barbecue buffet – topped with original Italian ice cream – people were fighting for honour, glory, trophies and a lot of fun. More than 130 members of KUHNE Group were attending and could witness even Peter Kuhne himself striking the pins.



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