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# pipe and profile

July/August 2014

**EXTRUSION**



**NEW OUTDOOR WEATHERING TEST FOR PVC**

**BUTT FUSION WELDING OF LARGE PE PIPE**

**PIPES IN INFRASTRUCTURE: LATEST NEWS**

**MATERIALS RECOVERY & GRANULATORS**

CONTROL



## Detectors find fault on surface

Sikora says that its latest 2- and 3-axis lump detectors can find the smallest irregularities on the surface of products like plastic pipe.

Lump 2000 XY and Lump 2000 T detect small lumps and neckdowns on the product surface quickly, precisely and with high reliability. The devices are ideal for use in conjunction with diameter measuring devices, says Sikora.

Using a powerful signal processor, the height, depth and length of the fault can be evaluated. The combination of the double sensor technology (differential measuring principle) with infrared light sources assures reliable fault detection – even under difficult conditions such as dirt or extreme vibration.

The setting of tolerances and the numeric display of lumps and neckdowns is realized with the Remote 2000 or a processor system of the Ecocontrol series. Alternatively, Lump 2000 devices can be directly integrated in the line control via a universal interface module.

[www.sikora.net](http://www.sikora.net)

MELT FILTRATION

## Chinese facility to make WPC window profiles

German-Chinese start-up company Kappes Environment Technology (KET) will commence production of recycled HDPE-based wood plastic composite (WPC) window profiles at its new plant at Bengbu in the Anhui province of China in August of this year.

The EcoLife profiles, which comprise a WPC core encased in a thin protective aluminium layer, will be manufactured in a two-stage compounding and extrusion process using equipment supplied by Germany's

KraussMaffei Berstorff and by Austria's Greiner Extrusion.

The production hardware includes a 1,500 kg/hour KraussMaffei Berstorff ZE130 R twin-screw compounding unit that will be used to prepare the WPC, which is made from up to 50% wood fibre in post-consumer recycled HDPE.

The modular compounding system includes a 50D extruder with side feeder and two degassing units, along with a full gravimetric feeding system designed to fit into the limited headspace production area at the KET plant.



KraussMaffei also supplied three coextrusion profile lines for the new plant, which includes downstream systems from Greiner Extrusion.

[www.kraussmaffei.com](http://www.kraussmaffei.com)  
[www.ket-ecolife.com](http://www.ket-ecolife.com)

CUTTING

## Saws for bigger HDPE pipe

Sica has increased its range of planetary saws for HDPE pipes with large diameters and thick walls, with the new TRK/C 2500.

The machine is designed for

cutting PE pipes of 710mm to 2540mm (100in) outside diameter, without material removal – meaning that no chips or dust are produced. At

the same time, it can handle a wider range of conditions, such as variations in ovality, thickness and temperature.

The machine is equipped with universal pipe clamps that do not need reductions or ancillary units when the working diameter changes, but which adapt to different diameters, ensuring a constant grip on the pipe.

The cutting action is hydraulic, while the cutting unit movement is electric with automatic synchronisation with the extrusion speed.

The machine joins other models in the range, including TRK/C 2000 and TRK/D 200 (which is specific for corrugated pipes).

[www.sica-italy.com](http://www.sica-italy.com)

