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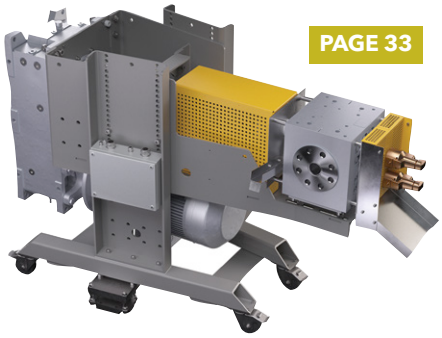
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Deceuninck returns to profitability in first half

Belgian profiles maker Deceuninck bounced back in the first half of 2026 – with rises in both sales and profits.

Sales rose nearly 10% in H1, to €420 million, while adjusted EBITDA grew 23% to exceed €67m – which the company said was mainly due to higher volumes, and a strong performance in Türkiye.

"We delivered a strong performance in the first half of 2026 in a market that remained mixed across our regions," said Francis Van Eeckhout, interim CEO at Deceuninck.

Activity improved in Europe, with slight volume growth in several key markets. A sharp increase in raw material prices in the second quarter raised customer purchasing activity – boosting volumes and profitability.

"In North America, market conditions remain challenging, with high mortgage rates and economic uncertainty continuing to weigh on construction activity," he added. "In contrast, Türkiye delivered a strong performance."

Overall, sales in Europe grew 7%, those in North America fell by nearly 4% and sales in Turkey surged by almost 23%.

In the second half of 2026, the company expects a "volatile" environment across all regions. Europe continues to be fragmented, though key markets such as France and Spain report higher activity levels compared to 2025. Despite this, "visibility on future volume developments remains limited". In North America, market conditions are "challenging", reflecting a difficult economic environment. In Türkiye, Deceuninck expects market conditions to remain "supportive" in the second half of 2026.

The company still does not have a permanent CEO, after Stefaan Haspeslagh left the company earlier this year.

› **www.deceuninck.com**

HDPE pipe starts in Washington

US start-up company Century Pipe has begun making HDPE pipe at a new plant in Washington state.

The company, which employs 30 people, began production in June and occupies a 52,000 sq ft building in Burbank. The US$30 million plant has three production lines, which create pipe of 2-36in diameter, according to a report in the local Tri-Cities Area Journal of Business.

The company located in the area because there was a need for a regional pipe manufacturer and a large enough population in the area to easily staff the plant, said Rene Collin, president of Century Pipe.

At full capacity, the plant is expected to make around 70 tonnes of pipe per day.

› **www.centurypipellc.com**

IN BRIEF...

This year's **Plast** show – held in Milan, Italy – welcomed 35,000 visitors, of whom 25% came from abroad. At the same time, 44% of the 1,000 exhibiting companies were international. The event spanned an area of 40,000 sq m. The next edition of the exhibition takes place in 2029.
https://plastonline.org

This year's **Chinaplas** exhibition in Shanghai welcomed over 350,000 visitors – a 10% increase on the 2025 event in Shenzen. Attendees from overseas (including Hong Kong, Macao and Taiwan) accounted for a quarter of visitors, up 26% from last year's event, said organiser Adsale.
www.chinaplasonline.com

Westlake Vinnolit, Westlake Corporation's German subsidiary, has completed the acquisition of a previously insolvent PVC and vinyl chloride monomer production site in Wilhelmshaven, Germany, which has the capacity to produce 380,000 tonnes/yr of PVC.
www.westlake.com

Booming sales for Vietnamese pipe maker

Tien Phong Plastic, a leading plastic pipe manufacturer in Vietnam, reported a pre-tax profit of nearly VND880 billion (US$33 million) for the first half of 2026 – an increase of nearly 40%.

This was on the back of a 13% rise in sales to around VND3.7 trillion (US$145m).

Dang Quoc Dung, chairman of Tien Phong Plastic, said resin prices rose after the first quarter. PVC prices rose about 65%, HDPE nearly doubled and PP-R resin increased by almost 75%, according to a report in local publication *The Investor*.

Despite the higher costs, it maintained sales in the second quarter. Pre-tax profit for Q2 rose 51% to nearly VND577 billion ($22m), while sales rose nearly 9% to VND2.2 trillion ($84m).

The company says it is on track to exceed its full-year profit target, but warned that volatility in raw material prices and market conditions could cause problems in the second half of the year.

› **https://nhuatienphong.vn**



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Maincor pipe made in Algeria

Condor Electronics, an Algerian electronics and appliance manufacturer, has teamed up with Maincor of Germany to manufacture pipes for the construction, automotive and appliance industries.

The pipes will be made in Algeria under Maincor's brand and sold both locally and abroad, according to a report from the Ecofin news agency. Condor has not revealed the planned investment.

Maincor specialises in pipe for heating, plumbing, sanitary installations and residential ventilation. Its industrial division makes technical pipes for the automotive, appliance and electrical industries, and for cable protection.

The two companies signed the agreement at the Algeria-Germany Economic Forum in Berlin recently, during Algerian President Abdelmadjid Tebboune's official visit to the country.

› **https://maincor.de**

Teraplast sees sales boost in H1 2025

TeraPlast of Romania reported a rise in sales – but a dip in profits – in the first half of 2026.

The company, which makes products including pipes and profiles, saw a 4% rise in sales for the half-year, exceeding RON574 million (US$127 million).

At the same time, profitability (EBITDA) fell by 9% to nearly RON43m (US$18m), due mainly to lower sales volumes. (It sold 60,000 tonnes of product in the period, down 5% compared to 2025.)

Sales in the pipes business (called 'installations') grew 5% to RON420m (US$93m), despite a challenging home market. At the same time, EBITDA fell 24% to RON 32m (US$7m). This is the bulk of TeraPlast's business, accounting for 73% of sales. Its windows business, which accounts for 4% of sales, fell 12% to RON22m (US$5m), and made a loss.



IMAGE: TERAPLAST

Goia: "Spain expansion strengthens our geographical footprint"

"The second quarter helped us recover part of the loss recorded in the first part of the year," said Bogdan Crăciunaș, CFO of TeraPlast. "From the third quarter, we will also consolidate our operations in Spain."

TeraPlast acquired the PE pipe-making facility – located near Bilbao – from Aliaxis. It has an annual capacity of 16,000 tonnes and employs around 80 people.

Dorel Goia, chairman of TeraPlast, said: "This expansion strengthens our geographical footprint and positions us favourably to service Western Europe and North Africa."

› **www.teraplast.ro**

ADS Q1 sales and profits rise

US-based pipemaker Advanced Drainage Systems (ADS) reported increased sales and profits in the first quarte.

Sales rose by nearly 21% to US$1 billion, while gross profit was up almost 24% to US$78 million – largely thanks to the acquisition of NDS earlier this year.

"We are pleased with the strong start to the year, but remain cautious on the overall demand environment," said Scott Barbour, president and CEO of ADS. "Broadly speaking, demand trends look similar to last year."

› **www.adspipe.com**

Trex sales grow in first half as profits slide

US decking manufacturer Trex has reported a rise in sales – but a decline in profits – for the first half of this year.

The company, which makes wood-plastic composite (WPC) products, reported sales of US$761 million for the period, a rise of nearly 5%. Net profit for the period exceeded US$123m – a 10% decline on the corresponding period in 2025.

The company said the rise in sales was partly due to increased demand for its entry-level Trex Enhance decking.

"The improvement in consumer demand is enabling us to accelerate the ramp-up of decking production in our Arkansas facility by more than six months – to the third quarter of 2026," said Adam Zambanini, president and CEO of Trex. "This accelerated Arkansas expansion and upgraded distribution network advances our goal of achieving US$2 billion in annual sales by 2030."

Looking ahead, Trex expects full-year 2026 sales of US$1.215-1.250 billion guidance for sales growth is 5-7%," he said – which would put full year sales in range of US$1.26-1.28billion and adjusted EBITDA of US$335m-350m. Sales in Q3 are expected to be US$305m-320m.

› **www.trex.com**

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Orbia sees Q2 dips across the board

Mexican plastics company Orbia saw first-half and second-quarter sales and profits rise in 2026.

Net sales for H1 rose 14% to US$4,315 million, while profit (EBITDA) rose 46% to US$726m. At the same time, Q2 results in its extrusion businesses all improved.

Pipes manufacturer Wavin reported a 15% rise in sales to US$725m in Q2, and a near-80% rise in EBITDA to US$113m. The boost in sales was driven by higher volumes in Latin America, and favorable currency fluctuations – but this was partly offset by lost revenue from divestments.

Irrigation supplier Netafim saw a 13% rise in Q2 sales to US$325m – due to strong results in the US, Turkey, Peru and Australia, and higher project revenues in the Middle East and Africa – but partially offset by lower volumes in India.

Meanwhile, conduit maker DuraLine saw Q2 sales rise 30% (to US$319m) due to higher volumes in US telecoms and data centre markets. Profits rose 33% to US$54m.

"A strong contribution from [Duraline] reflects growing demand in connectivity solutions for telecom, AI data centre and power grid infrastructure," said Sameer Bharadwaj, CEO of Orbia.

› **www.orbia.com**

Heating pipeline at Zurich Airport

Zurich Airport has installed a new heating pipeline from Brugg Pipes – with minimal disruption.

To make a new heating connection between buildings M1 and M2, Brugg opted for a combination of Casaflex and Premant pipe. Rather than replacing the existing pipeline using conventional methods, an existing utility tunnel was used to route the new pipeline.

Two flexible DN 100 pipelines, each 78m long, were routed through the existing infrastructure, despite confined spaces, changes in direction and differences in height.



IMAGE: BRUGG PIPES

Delivery on coils and the use of a cable winch enabled fast, efficient installation.

› **www.bruggpipes.com**

Polypipe sees lower profits

UK-based Genuit, which owns Polypipe, reported higher sales but reduced profits in the first half of the year.

Sales rose to nearly £308 million, a 3% increase compared to H1 2025. This led to a profit (EBIT) of nearly £44m – nearly 2% lower than the same period in 2025. Drivers behind the profit dip include lower trading volumes and inflation.

"While we expect challenging market conditions to persist through the rest of the year, margins will benefit from the pricing action taken in the first half and continued cost discipline," said Joe Vorih, CEO of Genuit. "Our expectations for the full year remain unchanged."

Revenues rose by more than 2% in its climate division, and by more than 8% in the water division.

In H1 this year, its use of recycled materials dipped to just under 49%, compared to 51% at the same point in 2025.

› **www.polypipe.com**

GF piping sees H1 sales rise and profit dip

Georg Fischer's piping division has seen mixed interim results.

This year, it reported half-year sales of CHF1 billion (US$1.25bn), around 9% higher than the same period last year. This was driven by strong demand in North America and Asia, plus continued investments in ageing urban water infrastructure in Europe.

The company also reported a profitability (EBIT) of CHF102m (US$127m) – a fall of around 5%, which it said was caused by an unbalanced production load, cost inflation and negative currency effects.

Meanwhile, GF Building Flow Solutions – created from the business that GF acquired from Uponor in 2023 – had sales of CHF616m (US$767m) in H1, a dip of about 2%. After a slow start, North America and Northern Europe regained momentum in March, new-build construction in Switzerland remained solid and the Nordics improved – though the rest of Europe including Germany remained subdued.

› **www.georgfischer.com**

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Wienerberger interim profits fall despite increased revenue

Wienerberger of Austria reported a rise in sales and a drop in profits in the first half of the year.

It reported sales of €2.4 billion, up 4% on the same period in 2025. At the same time, operating EBITDA declined by around 15% to €326 million. The company said sales in Europe were positive, while those in North America suffered.

In Q2, the company reported a 13% rise in sales to €1.4bn but a 9% dip in EBITDA to €230m "due to weaker-than-expected residential new-build activity, particularly in North America and the UK".

Based on current conditions, Wienerberger expects infrastructure and renovation activities to continue performing in line with current assumptions. However, it says new residential construction activity will remain subdued and will affect profitability – so it expects full-year EBITDA of €700m.

"Although the recovery in residential new-build markets did not materialise, our strategic shift is proving its value," said Gerhard Hanke, interim CEO of Wienerberger. "Through targeted investments in roofing and infrastructure, more than 60% of our revenue is now generated from these segments, strengthening our ability to deliver sustainable growth."



Hanke: "Our strategic shift is proving its value"

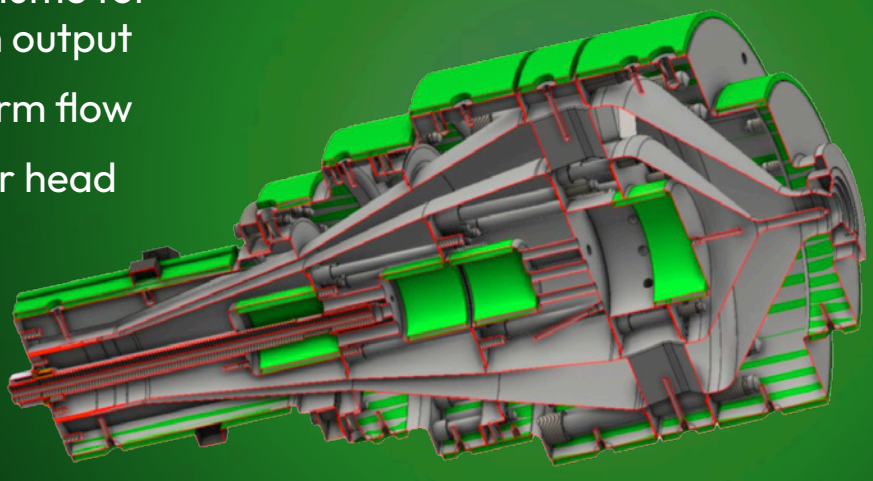
■ Pipelife Jet Stream, a US-based subsidiary of Wienerberger, could soon conclude an anti-trust investigation in the US. In early August, a federal judge in Illinois approved a US$15 million deal with purchasers of pipe – whose case alleges that Pipelife Jet Stream and other conspired to fix prices. Wienerberger says it made a provision of €47m earlier this year.

› **www.wienerberger.com**

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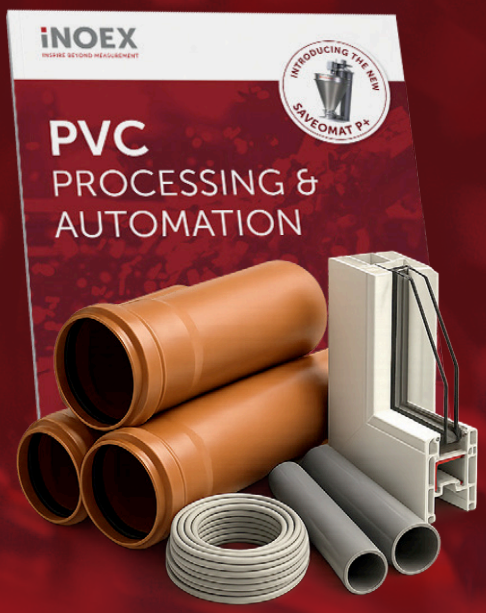
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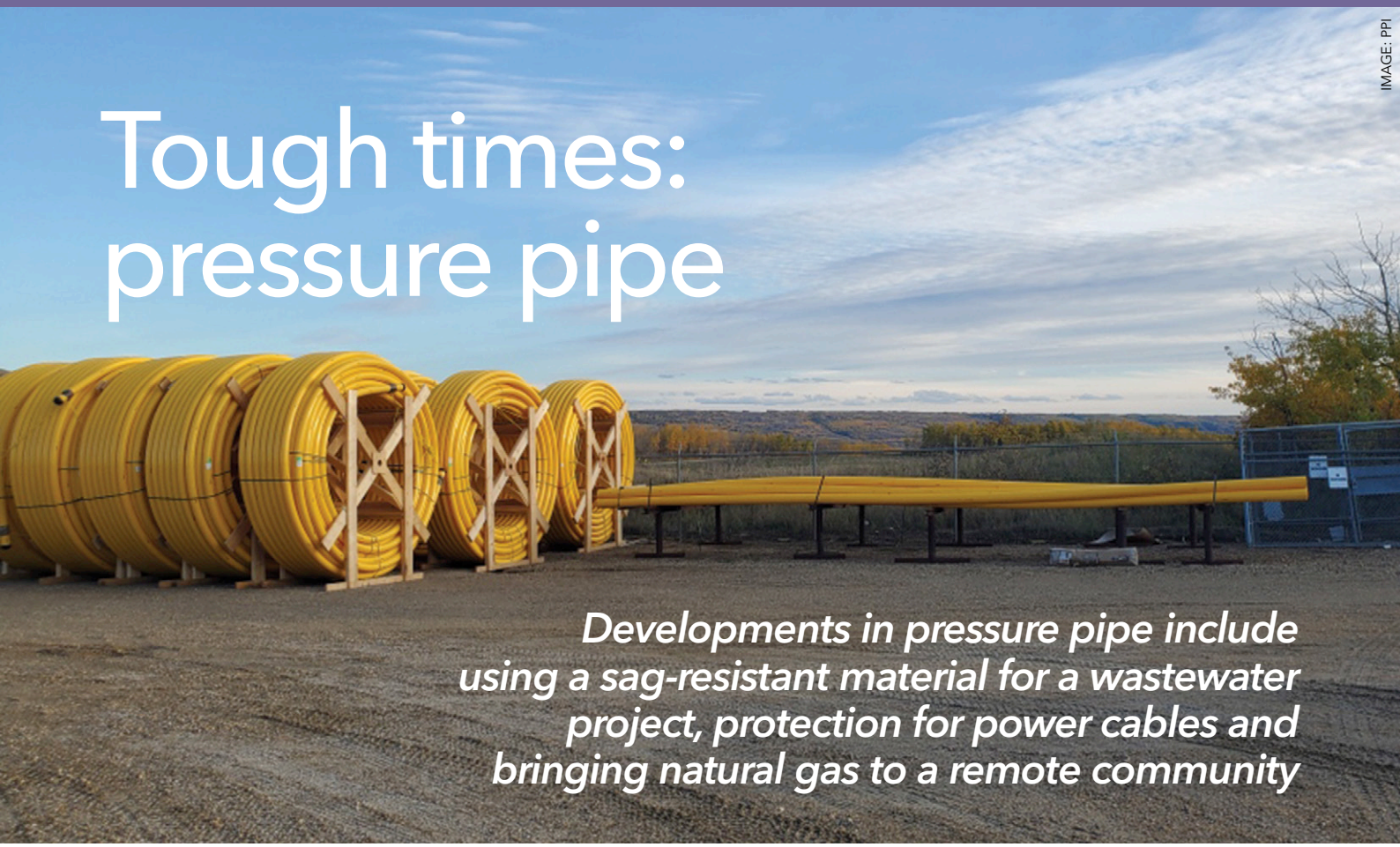


IMAGE: PPI

Tough times: pressure pipe

Developments in pressure pipe include using a sag-resistant material for a wastewater project, protection for power cables and bringing natural gas to a remote community

Pressure pipe is vital in transporting fluids such as gas and drinking water quickly, efficiently and safely. Other applications – such as underground protection of cables – also require tough pipe that can withstand high loads.

The US-based **Plastics Pipe Institute** (PPI) recognised several pressure pipe applications in its most recent annual awards. In the energy piping systems division, member companies **Dow Chemical**, **Polytubes** and Atco Natural Gas Distribution won for their part in the Lubicon Lake Band Gasification project.

This was designed to bring natural gas to a remote indigenous community in northern Alberta, in Canada. Earlier generations relied on propane and wood burning, but Atco installed more than 28 miles (45km) of Polytubes PE pipe made with Dow's high performance bimodal PE2708 MDPE resin.

The material was chosen for its durability, corrosion resistance and cold weather performance. Benefits of the project include: lower household heating costs; less reliance on delivered fuels; and improved indoor air quality.

Data cooling

There were also several winners in the municipal and industrial division – including a project to bring water to a 'hyperscale data centre'. Partners included **Pipeline Plastics** and welding company **McElroy Manufacturing**.

Bringing water to the 1,000-acre site required nearly 72,000 feet of HDPE pipe in diameters ranging from 8 to 42in. The pipeline supplies the utility's infrastructure and the water-based heat transfer fluid for liquid-cooled computing systems. Reliability, leak prevention and long service life were critical considerations. HDPE PE4710 pipe was selected for its corrosion resistance, flexibility under thermal and soil movement, and ability to create leak-free systems through heat fusion.

These characteristics were valuable given regional soil variability, temperature swings and the owner's requirement for long-term infrastructure reliability with minimal maintenance.

Water transmission

Pipeline Plastics also involved – with **Isco Industries** – in the Randall Regional Waterline Project to provide a high-capacity water transmission line that stretches 72 miles across a prairie in South Dakota. The 30-inch DR 13.5 HDPE pipe is being used in what is described as "the largest single-phase HDPE water project in the history of North America". The new pipeline will help solve the severe need for water here, enabling farmers and ranchers to connect to a reliable system.

Elsewhere, the Waterbury Water Department supplies around 14 million gallons of drinking water per day to residents and businesses. There are nearly 400 miles of water main and 26,000

Main image: Over 28 miles of PE pipe now brings natural gas to a remote community in Canada



IMAGE: PPI

Above: Nearly 72,000 feet of HDPE pipe was used to bring water to a 'hyperscale data centre'

water service connections. The rehabilitation project, called the Third Water Supply Transmission Main, is being done in phases. The first and second saw 1.5 miles of pipeline fitted with new HDPE PE4710 pipe from **JM Eagle**. The sliplining installation used CompressionFit technology to reduce the outer diameter of the 42in DR11 HDPE pipe by forcing it though a reduction die and into a failing prestressed concrete pipe. The 4in thick-walled pipe maintained flow rate by maximising the internal diameter of the host pipe, while fulfilling a pressure specification of 200psi.

Finally, the National Parks Service (NPS) revitalised the main potable water supply line at Bright Angel Creek by sliplining a failing 6in line with over a mile of 3in composite pipe. For the Tanscanyon Water Line project, NPS selected the FlexSteel reinforced pipe rated at 1500psi because it would provide the toughness, pressure integrity and long-term durability needed for the steep canyon elevations and to handle hydrostatic pressure variations. The pipe contains a corrosion-resistant inner liner and an outer layer made from an advanced grade of HDPE from Dow with a helically wrapped steel reinforcement in the middle.

Below: The National Parks Service revitalised a potable water supply line using 3in composite pipe

Constant contours

Agru has supplied its Agruline pipe for a project to ensure that raw water from Lake Biel in Switzerland is free of the invasive quagga mussel.



IMAGE: NPS

Two 750m Agruline pipe piping systems, with 800mm diameter and made of PE 100-RC, enable automated internal cleaning of all components of the lake water intake – including the intake screen. The system therefore works as both a transport medium and an integral part of the cleaning system, says Agru.

The motivation for the raw water intake project was the refurbishment of the Ipsach Lake Waterworks, and especially the effect of the mussel – which has been spreading in the lake since 2019. In conventional pipeline cleaning, a cleaning device is pushed through the pipeline, exits into the lake and is then recovered by boat.. In Ipsach, the objective was to develop a system that enables cleaning without any operations on the lake.

Now, the dimensional accuracy of the pipes – and quality of the welded joints – allow a mechanical cleaning device to be propelled by water pressure along the whole length without offsets. Pipeline, fittings and intake screen are hydraulically matched and have the same internal diameter. All pipeline components must be geometrically continuous and designed without cross-sectional changes.

"For the new cleaning system to function, exact dimensional accuracy of the pipelines was essential," said Hanna Schiff, project manager for Lake Waterworks Ipsach.

The core of the piping system is two parallel PE 100-RC pipelines with an operating pressure of 2 bar and identical internal diameters. Geometric continuity enables the cleaning device to travel the entire route bidirectionally without the need for recovery.

The pipe had to avoid ovalities, diameter deviations and misalignments at weld seams. Even minor shape deviations can increase mechanical resistance and jeopardise passability – meaning internal contours must be constant over the entire length.

Agru made the pipes within defined production

windows, to avoid tolerance shifts. The pipe sections to be welded came from an identical material batch and were marked as belonging together. The sections were joined using heated tool butt welding.

PE 100-RC was chosen for its resistance to abrasion and corrosion, plus its suitability for recurring mechanical cleaning cycles. With coated steel, internal coatings and additional corrosion protection measures would be needed. PE 100-RC has high resistance to slow crack growth and minimum lifetimes over 8,760 hours in the FNCT according to ISO 16770. For welded pressure pipeline systems, this gives extra long-term safety, especially in cyclically stressed weld zones.

Welding was carried out by Hydrokarst Swiss, and the pipeline was used at a depth of 38m.

Filtration fix

Agru also helped to restore an ultrafiltration line at a water treatment plant. Operators at the plant – in Manila in the Philippine – found leaks in several header pipes after only a short period of operation. Analysis showed that the original installed PE pipelines were not matched to operating conditions – meaning that all 14 headers had to be replaced.

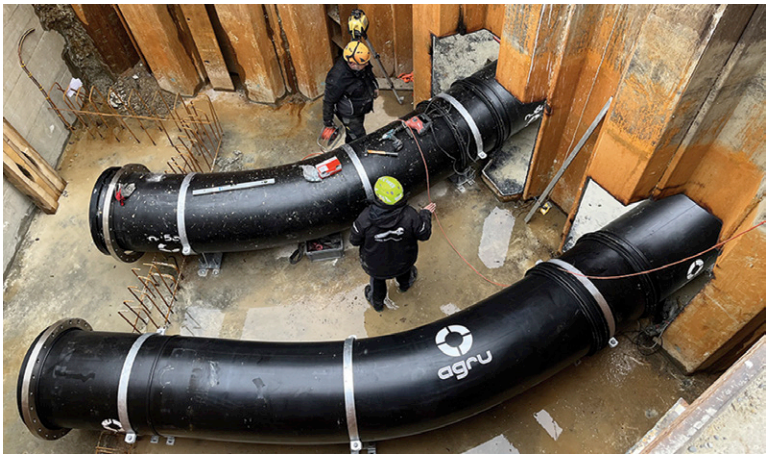


IMAGE: AGRU

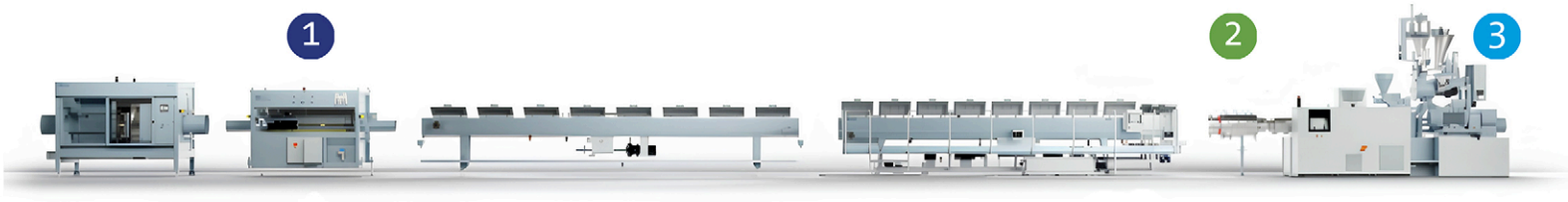
Above: Agru's Agruline pipe ensures water from a Swiss lake is free of an invasive mussel

The piping arrangement was 3D laser measured to make an exact model that exposed the off-centred and misaligned sections responsible for the leakage. Based on this data, Agru engineered plastic headers that could be installed in a single step and connected to the existing setup through flange connections. The headers were machined from extruded hollow bars made of lightweight, stress-crack-resistant, corrosion-free PE 100-RC

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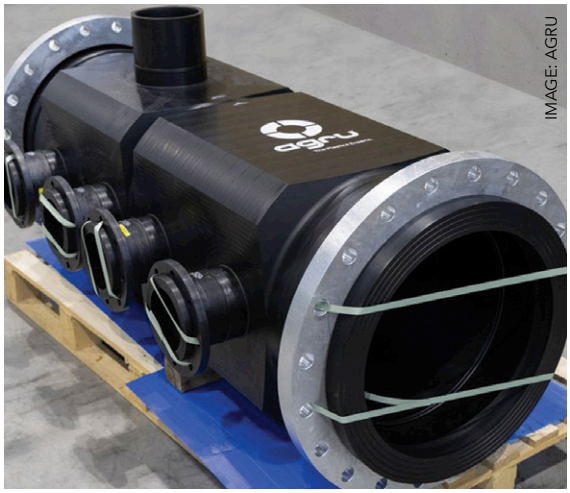


IMAGE: AGRU

Right: Agru engineered plastic headers to fix leaks in a water treatment plant

material with a smooth inner surface. The new headers are expected to have a service life of more than 100 years.

To minimise shutdown time, Apex Plastic Piping Supply and Services made the replacement in a staged sequence. A temporary bypass kept the flow operational while each UF section was isolated, drained and retrofitted. The old PE headers were removed, and the new ones positioned and connected using flange connections and electrofusion welded joints.

Each unit was then pressure-tested and flushed before being returned to service. This method kept most of the plant operational throughout the work and limited downtime to the specific train under intervention.

Power protection

In Germany, **Egeplast** pipe has helped to protect power cables as they run under the Rhine.

The A-Nord DC connection used more than 4km of Egeplast Power Protect PE-RT pipes, which can withstand high mechanical loads during installation and provide long-term protection.

"The pipes make an important contribution to protecting the route in the sensitive dike and river area over the long term," said Thomas Gross, managing director of installer Hülskens Wasserbau.

Pipe was delivered in June and July 2025. The pipes were installed using open-cut construction, for which an enormous cable trench was excavated through both dikes and the Rhine itself.

Below: Egeplast's EgeLiner pipe is now available in diameters of 200-300mm

Egeplast has also expanded its EgeLiner portfolio for renewing drinking water networks.

It says the close-fit method with pre-deformed PE pipes is an efficient way to renew old pipelines. The inserted pipe is equivalent to a new installation – with an expected service life of over 100 years, says Egeplast. With the expansion of the portfolio in dimensions from 200 to 300 mm – to include the SDR 13.6 pipe series – operating pressures of up to 12.5 bar can now be achieved.



IMAGE: EGEPLAST

Pipe is first produced in a round shape, then cooled and deformed into a C-shape at a precise temperature. This temperature is chosen so that the so-called 'memory effect' of the original round pipe is 'frozen'. After insertion into the pipeline to be renewed, the C-shaped pipe reverts to its original shape after heating with steam – expanding to fit the inner wall of the existing pipeline.

C-shaped pre-deformed pipes are available in individual lengths of up to 460m on drums. This enables the installation of long pipeline sections without a single pipe joint, which further increases operational safety and reduces installation effort, says Egeplast.

Sag resistance

Infrastructure pipe maker Kuzeyboru has supplied infrastructure pipe – made from BorSafe from **Borealis** – to a wastewater project in northern Türkiye.

The project, in Samsun on the Black Sea coast, will double the city's wastewater capacity. The new pipeline is 160mm in diameter and 4.5km long. Kuzeyboru used a PE100 Black grade with sag resistance from the BorSafe portfolio to produce the pipes.

"This project reflects our commitment to delivering reliable, high-performance solutions that support the infrastructure needs of growing cities," said Bülent Karaman, CEO of Kuzeyboru. "Working with partners like Borealis helps us ensure the quality and longevity of the systems we build."

PE100 Black ready-made compound materials are a type of HDPE designed for use in pressure pipe systems. With a minimum required strength of 10MPa, they offer the durability and performance needed for such applications, says Borealis.

Separate to this, Krah Pipes has used BorSafe to make six segments of a 3000mm-diameter pipe – which replaces an old underground concrete water tank in Aarhus, Denmark.

The new pipes are used to store 2000m³ of drinking water.

The pipes are made using two advanced PE grades based on Borstar polymerisation technology.

The main pipe body is made from BorSafe HE3490-LS-H, a high-density PE100-RC PE compound developed for pressure pipes. It offers high resistance to slow crack growth and rapid crack propagation, for durability in demanding applications. The yellow inner layer, made of BorSafe HE3493-LS-H, is also a PE100-RC material and adds extra functionality to the system – as the light colour makes it easier to carry out visual inspections by camera when needed.

"This project demonstrates how replacing older-generation materials with advanced PE solutions can improve long-term performance, simplify maintenance and support sustainability," said John Webster, head of marketing infrastructure and building at Borealis.

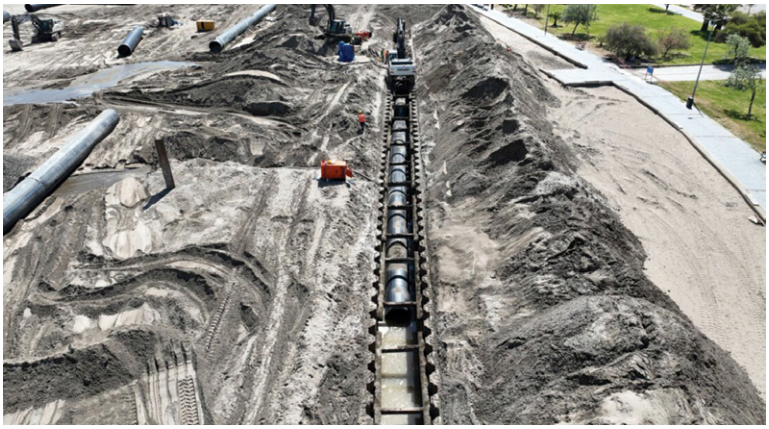


IMAGE: KUZEYBORU

Above: Kuzeyboru has supplied pipe made from BorSafe from Borealis to a wastewater project

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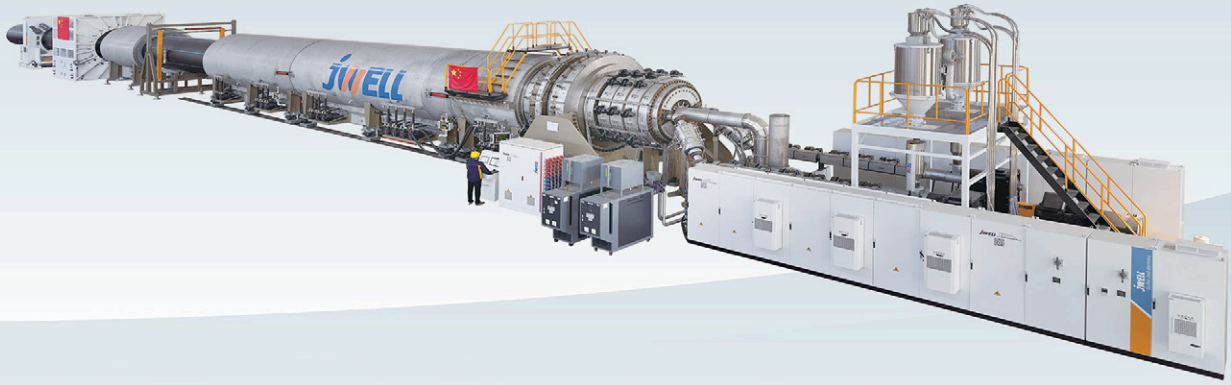
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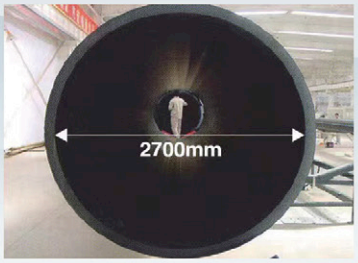
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IMAGE: IKA

Suppliers of PVC stabilisers say there is an evolving role for additives, one which builds on regulatory change to enable progress in compound performance. By ***Chris Saunders***

Moving beyond PVC regulation

The polyvinyl chloride (PVC) additive industry has entered a period of structural transition, shaped by regulatory demands, sustainability requirements, and shifting end-use demand. While underlying consumption fundamentals for PVC remain robust, driven by construction, infrastructure, and electrification, in many cases formulators and compounders have been forced to rethink traditional chemistries.

The phase-out of legacy additives, particularly lead- and cadmium-based stabilisers, has accelerated, with the European Union's Reach framework continuing to tighten permissible limits under the proviso of protecting health and the environment. The implications of this include reformulation costs, increased demand for alternative calcium-zinc, organotin, and hybrid stabiliser systems, and the widespread substitution of phthalate plasticizers with non-phthalate or bio-based alternatives.

Sustainability has evolved from a compliance obligation for producers into a core competitive activity with additives being redesigned to improve PVC recyclability, minimise degradation during reprocessing, and enable multi-cycle mechanical recycling.

Beyond compliance, performance demands are also intensifying. Key areas of innovation include thermal stability enhancements, UV and weathering resistance for longer outdoor lifetimes, low-smoke, flame-retardant systems for cable and building applications, and processing aids and impact modifiers which enable thinner, lighter profiles. Advanced formulations are also being tailored for emerging applications such as medical devices and high-spec electrical insulation where regulatory and performance thresholds are both stringent, while trade disruptions and tariff uncertainties have added volatility to global supply chains.

German PVC additive manufacturer and distributor **IKA** says advancement is best achieved

Main image: IKA said it expects the transition towards calcium-based stabiliser additive systems to continue in the PVC sector

IMAGE: IKA



Above: According to German additive supplier IKA, industry advancement is best achieved through close cooperation with customers

through close cooperation with customers to translate these trends into practical solutions. Rather than viewing additive development only through chemistry, it sees innovation as application-driven problem solving, combining formulation expertise with market insight and technical support. This approach has become increasingly important as processors seek solutions tailored not only to today's requirements but also to future regulatory and performance expectations.

Another important aspect to consider is how new stabiliser concepts can contribute to broader use of recycled content and help processors maintain consistent product quality, even under complex conditions. This creates opportunities beyond stabilisation itself and positions additives as "enablers of progress" in the wider PVC value chain. Looking ahead, the company says it expects the transition towards calcium-based systems to continue, supported by both market pull and technological and commercial advancements. However, success will depend less on one-to-one substitution and more on additive concepts designed around application needs. IKA stresses that this trend illustrates how progress is not simply about launching new products, but also about shaping change.

Perhaps the single most notable recent trend is the ongoing shift from tin-based stabiliser systems toward calcium-based alternatives, particularly in North America. The discussion has evolved beyond simple replacement and now centres around how new-generation stabiliser solutions can unlock added value in processing efficiency, formulation robustness, and long-term product performance. In Europe, while tin-based systems are still established in some applications, transformation developments towards calcium-based solutions can be seen in applications like sheets. Here, innovation is not about replacing proven systems for the sake of change, but about developing alternatives that meet technical and economical expectations while supporting broader market trends.

Tin replacement

This regulation-driven transition is being embraced by some of the larger additive suppliers, including **Baerlocher** which has implemented a Tin Replacement program providing customers worldwide with a broad range of benefits. "Tin was the perfect PVC-component of its time," said Mustafa Ataman, Head of SBU PVC EU/MEA/US at Baerlocher. "Today, greener, safer, and more regulation-friendly systems are taking its place. We not only embrace this shift, we are driving it forward with transformative, sustainability-led innovation, resulting in pioneering technologies. To this end, we combine global expertise with local knowledge to serve our customers worldwide as a trusted advisor."

Baerlocher's Tin Replacement program initiative offers customers: full compliance with Reach, RoHS, and other global regulations; safe use in drinking water, food contact, and medical applications; high-performance calcium-zinc based alternatives; tailored technical support for seamless conversion on existing production lines; and solutions aligned with recyclability and circular economy principles.

In practice, Baerlocher's Baerostab's stabiliser family provides optimised solutions for switching from tin-based systems while Baeropan one-packs represent sustainable and innovative additive systems specifically designed for rigid PVC applications. Key advantages of these products include full compatibility with existing equipment with no further investment required, and consistent performance in colour retention and mechanical strength.

Additive divestments

At K2025, **Arkema** displayed its full range of additives including Durastrength acrylic impact modifiers designed to deliver optimum cost and performance in rigid and flexible PVC applications for siding, fence, deck, rail, pipe, and injection moulding applications, plus its Clearstrength impact modifiers, Plastistrength process aids and Biostrength additives for bio-based polymers. The Clearstrength E-series has been developed to withstand severe processing conditions and bring high impact performance especially at low temperatures.

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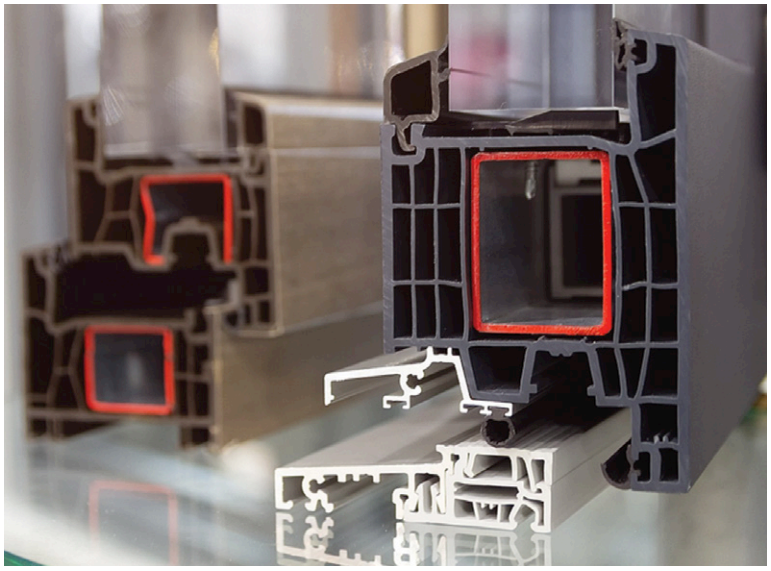
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IMAGE: SHUTTERSTOCKWA



Above: PMC told delegates at a recent AMI conference how to develop a formulation for window profiles

The company has since divested some of its businesses in additives used in the manufacture of PVC profiles, pipes, and packaging, as well as engineering plastics, to Indian group **Praana** as it refocused its portfolio. The divestment specifically concerned Arkema's impact modifiers and processing aids businesses, and covered the global scope for methyl methacrylate butadiene styrene (MBS) copolymers as well as the European and Asian scope for acrylic copolymers (AIMPA).

These activities, part of Arkema's Coating Solutions segment, generated €44m sales in 2024, and the project entailed the divestment of the Vlissingen production facility in the Netherlands which employs 50 people. The facility is now operated by Praana group company, **Galata Chemicals** , which produces stabilisers and plasticisers at various operations located around the world, including the US, Canada, India and Germany.

Vishal Goenka, Vice Chairman of Praana Group, said: "This proposed acquisition strengthens Galata Chemicals' portfolio with complementary plastic additives technologies that enhance impact performance and process efficiency in PVC and composite applications. It supports integration-led growth, deeper customer engagement, and scalable value creation across core end markets."

Colour hold

The prevention of yellowing is one of the most common challenges in PVC manufacturing and application. It is primarily caused by

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IMAGE: ARKEMA

Above: The divestment of Arkema's impact modifiers and processing aids businesses to Praana includes the Vlissingen production facility in the Netherlands

dehydrochlorination due to heat or UV exposure, leading to the formation of conjugated double bonds (polyenes) that discolour the material. The choice of stabiliser is considered the first line of defence against thermal degradation. **Novista Group** highlighted its calcium-zinc stabilisers as providing excellent early colour hold and superior whiteness in finished products, acting as environmentally friendly alternatives to lead.

The company said: "For high-end construction materials, compounding different stabilisers can create a synergistic effect. For example, in premium window profiles, combining Ca-Zn stabilisers with a small amount of organotin can significantly enhance thermal stability and minimise yellowing."

Novista, a chemical manufacturing complex established in 2002 and headquartered in Weifang, Shandong Province, China, also reiterated how inadequate dispersion of stabilisers can create weak spots within the PVC resin matrix where degradation begins and recommends using high-speed mixers to ensure that all stabilisers and antioxidants are adequately distributed.

Robust formula

Robert Smith, NPD and TS manager at **PMC Organometallix**, told delegates at the recent *PVC Formulation North America* conference – organised by **AMI** – how to develop a robust formulation for window profiles.

This can be a challenging process – due to the need for many additives including stabilisers, lubricants and others. However, the first step is resin selection – based on suspension PVC grades. Here, a lower intrinsic viscosity (IV) makes for a higher flow at low processing temperatures. Now, a stabiliser can be chosen

"Stabiliser selection solidifies base rheology," he said. "Stabiliser chemistry can have a significant effect on melt viscosity."

He said stabilisers are needed due to PVC's imperfect structure – with a few unstable groups or 'defect sites' created during polymerisation. These can cause a PVC backbone 'unzipping'. This can lead to 'polyene' structures that absorb light – which affects visual quality.

"To reduce colour development, we need to minimise degradation during extrusion," he said.

PVC stabilisers help to protect PVC from decomposition during processing by delaying processes such as HCl evolution, colour formation, crosslinking and physical degradation.

"They must be effective at very low levels," he said.

These have developed from lead salts and soaps (in the 1930s) through barium/cadmium soaps, calcium/zinc soaps and tin mercaptides and reverse esters. Different alkyl groups on the tin mercaptides will change the effect – with eight-carbon octyl groups imbuing products with the most lubrication and good C-PVC performance. Ligand groups such as thioglycolate and reverse ester – which can be up to 65% bio-based, he said – are used in products such as window profiles, fencing and siding.

"Stabiliser selection depends on weathering requirements and equipment design," he said.

Typically, three alkyl groups (methyl, butyl and octyl) are used – and can be combined with three common ligand types (2-EHMA for simple profiles, reverse ester for siding and fence capstock, mixed mercaptan for complex profiles).

Smith cited an example of how PMC's Advastab TM-725 replaced a 19% methyl tin 2-EHMA – and showed comparable results after fusion testing, in features such as fusion temperature.

Separately, its Thermolite T-520 17% butyltin speciality stabiliser was tested in a generic white weatherable capstock/profile formulation and showed comparable well with established materials – including having a lower fusion torque.

He said that combining stabiliser and lubricant correctly helped to improve formulation. Complex

butyltin stabilisers reduced melt viscosity and improved wall slip for PVC profiles – compared to 2-EHMA – with better dimension control, surface appearance and weatherability. At the same time, ester-based lubricants reduced shear response – leading to reduced shear thinning and better dimension control and surface appearance.

Legal protection

Meanwhile, Daniel Thomson, a partner at **Emerson Thomson Bennet**, explained the importance of protecting PVC formulations. These are typically multi-component systems that use a combination of resin, additives and processing conditions to create a unique product.

"Small ratio changes can shift heat stability, fusion, gloss, impact and weathering," he said. "Customer trials and market samples create real exposure points."

He added that processing windows and tolerances were often the "secret sauce" in formulations.

These can be protected in different ways, he said: patents, for novel compositions and processes; trade secrecy, to protect information such as exact ratios and addition order; and contracts such as non-disclosure agreements.

For patents, the novelty should be based on "measurable performance improvements and not just ingredients", he said. Comparative data such as heat stability, impact, fusion time can be important here.

"Coordinate filing timing with scale-up and customer trials to prevent pre-filing disclosure," he said.

For trade secrets, it is typical to keep unpublished formulations and screening results – while controlling 'failed' data. Factors such as compounding order, temperature profiles and residence time are usually critical factors – as is scale-up know-how for issues such as torque limits and die swell control.

Although it is possible to 'reverse engineer' a formulation – using tools such as spectroscopy and thermal analysis – the hidden value "often lies in tolerances, specs and processing windows – not just ingredients", he said

Some pitfalls include: sharing full formulations during trials; sending out uncontrolled samples; and having 'loose data hygiene' – such as shared drives. Potential strategies to control information include embedding IP awareness into R&D – which can include running periodic 'what's protectable?' technical reviews.

"During trials, share performance targets – not full recipes – and control who gets the data," he said.

■ The next *PVC Formulation North America* is held in Charlotte, North Carolina on 24-25 February 2027. For more details, contact Paige Davey on +1 610 478 0800 (**paige.davey@amiplastics.com**).

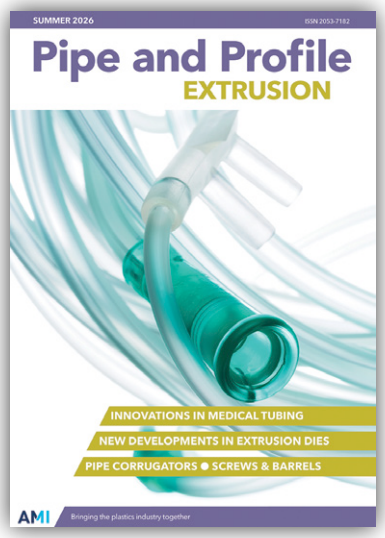
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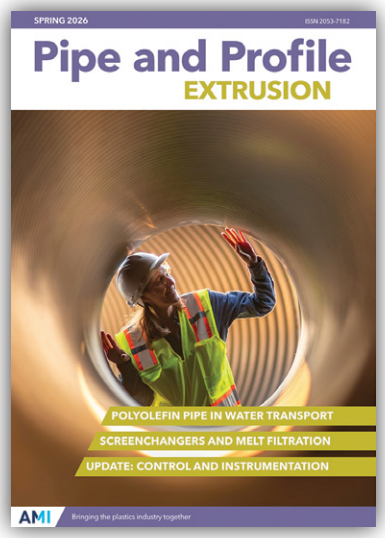
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Granulators add second life to plastic products



IMAGE: WEIMA

Recent developments in recycling include a high-volume model for wet granulation, high-throughput shredders and a flow measurement system that boosts efficiency

Main image: Wursi uses two Weima shredders to make PE and PP granulate

While recycling of extruded products – especially window frames – continues to increase, there is also a critical need to recycle in-house scrap to cut material costs.

Wursi of Spain shreds around 1,500 tonnes of PE and PP into regranulate every month, using two **Weima** W5.14 single-shaft shredders on its recycling line. It first processes sorted plastic waste manually and feeds it into the two shredders – which shreds the material to 30-100mm pieces.

The shredder is designed for demanding plastic applications. A V-rotor with a diameter of 500mm and a length of 1,400mm ensures uniform shredding even with tough materials. A Siemens PLC control system with touch panel allows precise adjustment of operating parameters. A hydraulically opening screen basket and inspection flap help to reduce downtime during maintenance or screen changes

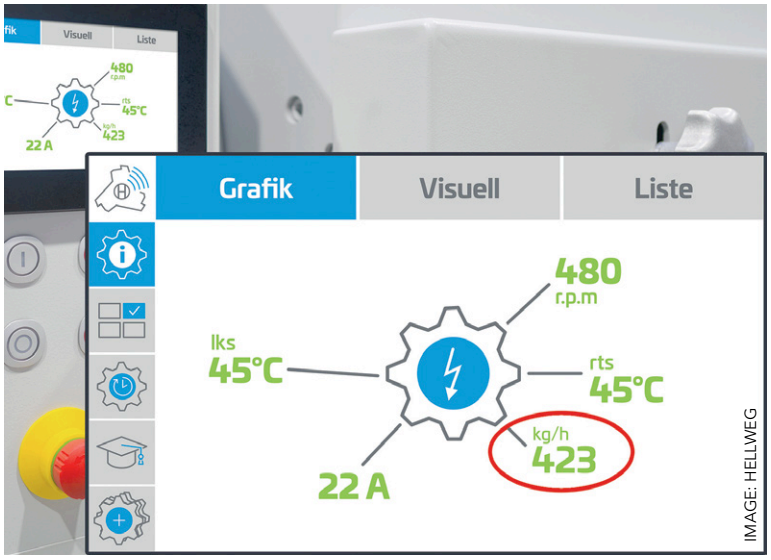
Wursi uses interchangeable screen segments that can react flexibly to material differences – an advantage with changing polyolefin streams, it says.

Online flow

Hellweg Maschinenbau has begun integrating an online flow measurement system called Smart Flow into its products.

It complements information already available via Hellweg's Smart Control system for bearing temperatures, speed and power consumption. Together, they provide a basis for Hellweg's next step: integration of self-learning AI modules. These will calculate the optimum ratio between material properties, feed and required power during granulator operation. The control system will then independently regulate the machine parameters to maximise energy efficiency without human intervention.

"The importance of the grinding process for successful recycling is still far too often



Above: Hellweg has integrated Smart Flow online flow measurement into its products

underestimated," said Mark Hellweg, managing director of Hellweg.

The energy consumption of the granulators used for this purpose is not specified on the type plate. It is a free variable that can be adjusted to the requirements of a specific material flow at any given time. Digitalisation of the relevant parameters, including mass flow, is necessary for AI to carry out the optimisation to reduce energy consumption and contribute to a reduced carbon footprint of the granulators, he said.

The core of Smart Flow is a sensor that measures the flow rate (bulk flow) without contact and is positioned in the riser pipe of the extraction piping. Its data is transmitted to the Smart Control system, where it is processed and displayed in the form of the (extrapolated) mass ground per hour as a measure of the machine's current performance.

The reliability, precision and repeatability of the data generated by Smart Flow is based on the sensor's operating mode, which uses microwave technology to measure bulk flow. The signal generated by the Doppler effect reflects changes in particle concentration and velocity, enabling an early response. Thanks to contactless measurement, the sensor requires no maintenance.

High intensity

At Plast this year, **CMG** showcased its EV 92-220 granulator, for high-intensity and complex recycling applications.

It is part of the company's Evolution series, which CMG says offers high production capacity, reduced energy consumption, fast maintenance operations and better regrind quality.

Key benefits include: energy savings of up to 50%, compared to traditional systems; high output with minimal dust generation; longer blade lifetime – with blade replacement times reduced by over 50%; and dedicated configurations for dry or wet recycling.

Evolution granulators are also designed with CMG's tangential-cut and open-rotor configuration, which eliminates the material dragging effect typical of conventional systems – reducing dust generation and improving regrind quality.

In addition, CMG recently expanded its production headquarters with a new 800 sq m area. This will be dedicated to logistics, enabling more efficient management of internal flows and freeing up production areas to meet increasing demand. CMG says the investment will allow it to improve organisation, production capacity and delivery times.

"For us, growth means investing in space, processes and expertise, with the goal of offering our customers increasingly effective solutions and a high-level of service," said Giorgio Santella, CEO of CMG.

Alongside the production area, the CMG HQ also hosts a new 1,000 sq m technical centre, dedicated to granulation tests and technical support. It features a test area equipped with granulators and shredders of various sizes and capacities that can process a range of materials – as well as a training area.

Customers can see CMG machines in operation, directly evaluate processing and reuse methods for their own materials and verify the quality of results firsthand.

If customers cannot attend tests in person, CMG can carry out granulation trials anyway. The material is delivered to the company, where it undergoes testing. At the end of the process, the material is returned to the customer, together with a technical report.

New releases

Rapid Granulator introduced several new products at K2025 last year – including its largest granulator yet.

Designed for high-volume, industrial-grade recycling, the 800 Series is optimised for wet granulation applications. It uses an efficient scissor-cut system that reduces wear and saves energy during cutting, while a reversible screen further extends service life and operational uptime.

"The 800 Series is the pinnacle of granulation technology for Rapid," said Anders Mårtensson, sales and marketing director at Rapid. "It is our largest and most powerful granulator and introduces a level of operator safety not yet seen in this industry."

It allows for knife changes from the back of the machine, keeping operators at a safe distance from the rotor and eliminating the need to work within the cutting chamber.

Rapid has also taken a step forward in digital production monitoring with its latest innovation, called Predict, which gives operators instant insights into how their granulators are performing. This can help them perform tasks such as material feeding, operational adjustments, and energy-optimised performance improvements at the production source, to speed up decision-making.

Finally, its RMD (rapid metal detection) is a safety solution designed for slow-speed granulators. It instantly halts the rotor as soon as metal is detected – safeguarding the interface between fixed and rotating knives – without interrupting production.

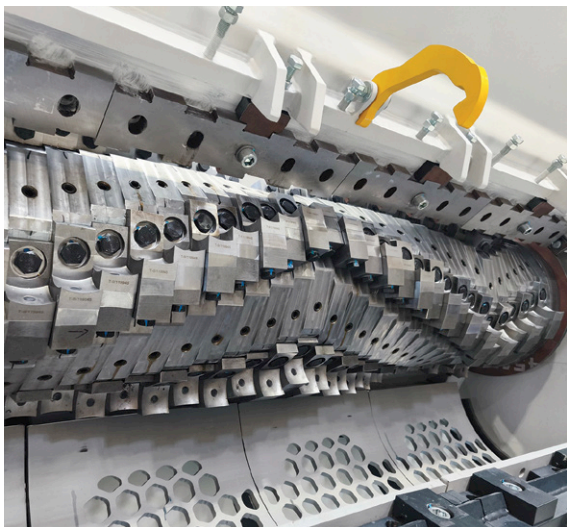
RMD is fully integrated into the granulator, remaining hidden and non-intrusive. Unlike conventional metal detectors, it protects where it matters most, before contaminants reach the cutting chamber, says Rapid. This prevents costly damage to the rotor and knives while minimising downtime and maintaining process continuity.

Special projects

As part of a project focused on the recovery of plastic waste in the United Arab Emirates (UAE), **Camec** and **GCB Polymers** have designed and engineered a turnkey shredding and recovery plant for rigid plastics. The project focuses on creating a 'local loop' in the UAE to reduce dependence on external supply chains.

Camec said the system ensures an efficient, highly automated, constantly monitored process where every stage of treatment is optimised to ensure production of a clean, homogeneous, ready-to-use recycled granule – while reducing waste and energy consumption to keep operating costs low.

IMAGE: LINDNER



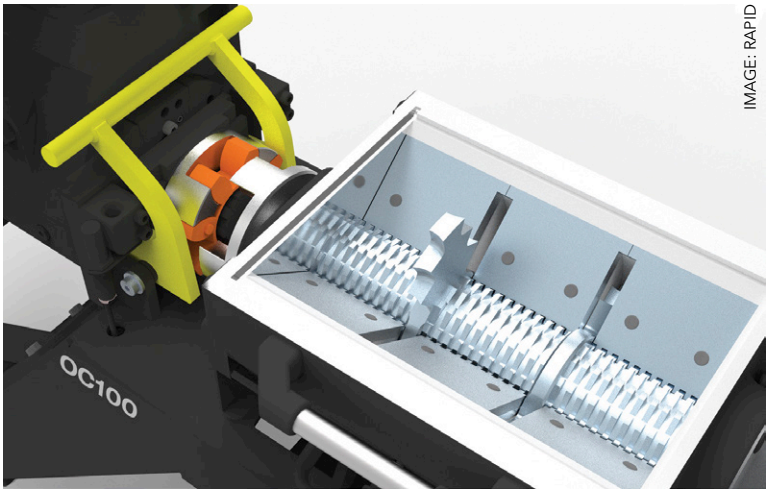


IMAGE: RAPID

Above: Rapid's RMD is a metal detection solution designed for slow-speed granulators

The treatment process is designed to transform rigid plastic waste, including mixed or contaminated fractions, into clean, ready-to-use recycled granules through an automated, controlled flow. The material undergoes primary shredding, after which metallic contaminants are removed via magnetic separation and metal detectors. Later stages of secondary shredding, air separation and cleaning eliminate residual impurities and prepare the material for granulation. Granules are dedusted, transported and stored in silos, ready for packaging or direct use in industrial applications.

Clean break

At IFAT 2026 earlier this year, **Lindner** showcased its latest innovations in shredding technology – including the new Urraco Evo mobile series for plastics and other materials.

The mobile twin-shaft shredder was developed for demanding, heavy-duty applications and combines high power, a quick-change function, and shaft versatility.

"We have responded to changing market requirements – away from a primary segment of light materials towards more robust and difficult applications," said Gerhard Gamper, segment director for mobile shredding at Lindner.

Left: Cutting unit of the Lindner Micromat series shredder

The latest version of the Urraco Evo series builds on proven Lindner technology with new features including modular design, robust construction and improved quality.

Andreas Klapf, head of engineering at Lindner, added: "We have also further automated the manufacture of our cutting unit and shafts. Through targeted use of this technology, we can increase our competitive edge in terms of robustness, stability and reliability."

Also at IFAT, Lindner presented the fourth generation of its Micromat series, which is based

Right: Vecoplan's VIZ 1300 shredder is available with variable rotor and blade configurations as well as a range of screen sizes

on a synchronous reluctance motor that achieves an energy efficiency class of IE6, offering more than 97% efficiency while using no rare earth metals. Regarding its shredding capabilities, the multi-cut rotor enables flexible operation for a range of materials including plastic, and reduces maintenance effort and downtime thanks to its rapid-change knife system.

Second use

Herbold Meckesheim says it is increasing sales of used recycling machinery to the plastics processing industry.

Used machinery has long been part of its business – and has grown in recent years due to rising investment costs, shorter project timelines and more need for flexibility, it says.

"We see a clear increase in demand for used machines, driven by higher investment costs and the growing need for short-term solutions," said Karlheinz Herbold, senior sales specialist for used machines at Herbold Meckesheim.

"For many customers, a used machine is no longer a compromise, but an economically sound decision."

Its second-hand portfolio includes granulators, shredders and pulverisers. They are selected based on defined technical criteria and are supplied in a tested condition, ensuring functional reliability in line with Herbold's quality standards.

All used machines undergo technical evaluation. Depending on machine type, condition and intended use, equipment is either inspected and serviced, or refurbished. Some are dismantled and individually assessed, with critical components such as bearing seats, roller bearings and seals checked for tolerances, dimensional accuracy and overall condition.

For these processes, the company uses the same precision measuring and testing equipment as it does for production of its new machines.

Below: Herbold offers a wide range of second-hand recycling machinery



IMAGE: HERBOLD

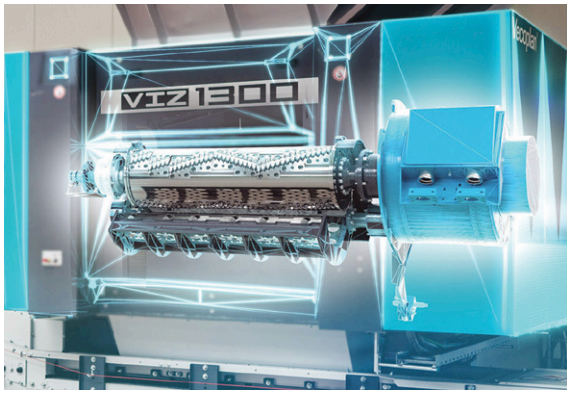


IMAGE: VECOPLAN

Shredding performance

Vecoplan presented its Viz 1300 high-performance shredder at the Plastpol show in Poland in May.

It is available with variable rotor and blade configurations as well as a range of screen sizes, which means it "adapts flexibly to virtually any plastic material and any application requirement", said Vecoplan.

A highlight of the Viz 1300 is the option to equip the machine with automatically adjustable counter-knives. Normally, operators need to manually readjust the cutting gap regularly to maintain consistent shredding quality.

The automatic counter-blade adjustment performs this task fully automatically and without manual intervention. Vecoplan says this reduces the time required and guarantees a high output quality, regardless of the operator's level of experience, says the company.

Users have two options for the type of drive that can be fitted. The gearless HiTorc drive generates torque directly and comes without any wear parts such as couplings, belt drives, and flywheels.

As an alternative, the ESC belt direct drive is available.

Vecoplan says both options are designed for maximum efficiency and minimal maintenance. Machine control is handled by Vecoplan's VSC control system, which allows users to adjust numerous machine parameters and monitor operating data in real time from any standard mobile device.

CLICK ON THE LINKS FOR MORE INFORMATION:

- **https://weima.com**
- **www.hellweg-maschinenbau.de**
- **www.cmg-granulators.com**
- **www.rapidgranulator.com**
- **www.camec.net**
- **https://gcb.ae**
- **www.herbold.com**
- **www.lindner.com**
- **https://vecoplan.com**

Holding the line: latest extruder developments

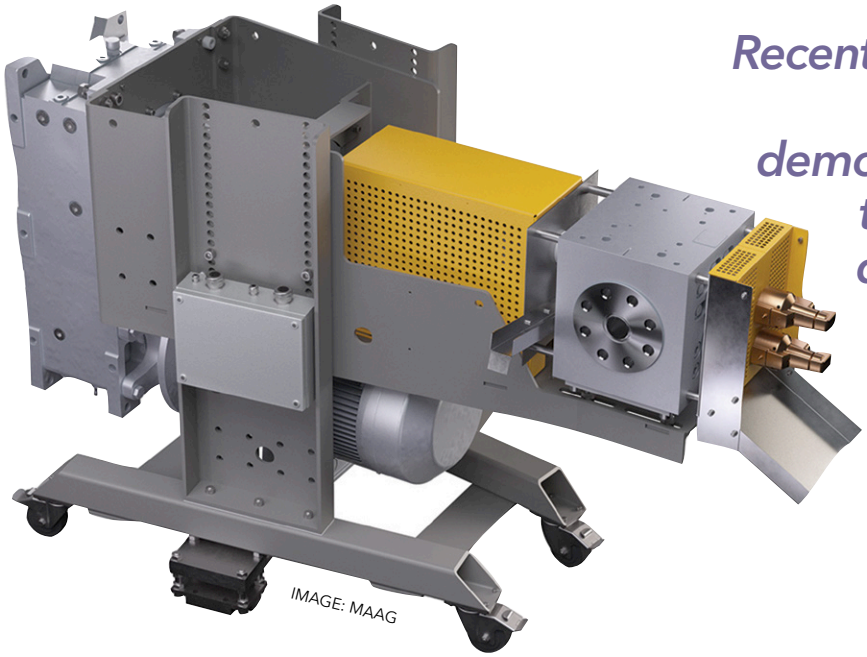


IMAGE: MAAG

Recent innovations in extruder technology include a demonstration of dual lumen tube production, several die developments and a pipe extrusion system that incorporates AI

Extruder technology – including both the plasticising unit and the die – lie at the heart of pipe and profile production. Many of the most modern system are incorporating the latest digital technologies.

For instance, **Bausano** says it is the first company to integrate artificial intelligence (AI) techniques into plastic pipe extrusion processes, with the launch of its Sphera system.

The system comprises two native and complementary modules, Pharos and Ranger, which were presented for the first time at the recent Plast show in Italy. The system is already operational in several field installations.

The Pharos IIoT architecture continuously acquires and processes machine and process data. This includes temperatures and pressures, rotation speed and energy consumption – as well as operating states and mechanical indicators. Ranger, the AI platform, interprets this information in real time, taking in actual operating conditions and integrating it with machine history, technical manuals, Bausano procedures and specific customer documentation.

Bausano says that advanced parameter monitoring with an AI assistant, available on demand, evolves towards full interoperability between systems. Proactive operational suggestions via HMI enable dynamic interaction with AI, it adds. Combining generative and agentic AI models, Ranger can autonomously read data generated by Pharos to prevent deviations and optimise performance. At the same time, sensor systems enable predictive maintenance logic, reducing downtime and improving overall plant reliability.

In what is its 80th year, the company also used Plast to showcase a customised pipe production line, combining its E-Go 45/37 single-screw extruder with an E-Go 45/30 co-extruder in an A/B/A layout for making multilayer HDPE pipes. The compact line architecture included a PO 3 63 multilayer die head with screen changer, connected to the co-extruder via an adapter with a manifold to distribute and regulate the inner and outer layers of the pipe.

The solution includes an HMI interface and gravimetric dosing system with weight-per-metre control.

Designed for pipe diameters from OD16 to 63 mm, the extrusion head features melt distribution divided into three spiral distributors with high-flow channels, ensuring uniform distribution of the three layers along the entire pipe wall – while offering high flexibility with material ratios of 5/90/5 and 33/33/33.

Main image: Maag's Extrex 6 EC gear pump is designed for continuous conveyance of rigid PVC

IMAGE: ALUMINIOS CORTIZO



Above: Profiles maker Cortizo has ordered nine new extruders from Battenfeld-Cincinnati

Reduced noise

Meanwhile, **Rajoo Bausano Extrusion** – a joint venture between India's Rajoo Engineers and Italy's Bausano & Figli, based in Rajkot in India – says its new three-layer PP silent pipe plant technology meets the need for modern infrastructure and high-rise drainage applications.

The plant is designed to make 'noise reduction' pipes, but with equivalent mechanical strength, dimensional stability, and service life.

The three-layer pipe provides effective acoustic insulation to create quieter, more comfortable residential and commercial environments. The technology also enables manufacturers to customise acoustic performance based on specific requirements, offering an effective noise reduction of 10-22dB.

"The technology has been developed to help manufacturers achieve consistent product quality, operational efficiency and long-term reliability in an evolving infrastructure market," said Sandip Bhuva, CEO of Rajoo Bausano Extrusion.

Rajoo Bausano Extrusion, based in Rajkot in India, is a joint venture between India's Rajoo Engineers and Italy's Bausano & Figli. The company makes pipe and profile extrusion lines, combining Rajoo's local presence with Bausano's engineering expertise.

Right: Suzhou Bechton has used a Sikora Centerwave 6000 in its new PVC-O pipe extrusion line

Profile order

Spanish profiles manufacturer Cortizo has ordered nine new extruders from **Battenfeld-Cincinnati** – seven parallel and two conical counter-rotating twin-screw extruders.

Cortizo now has 28 PVC extrusion lines, including this latest order. The company began making PVC profiles in 2014 and now produces 50,000 tonnes/year – with further growth planned.

Over the past 10 years, Battenfeld-Cincinnati has installed 17 TwinEx extruders (in sizes 78 and 93) and 13 ConEx extruders (in sizes 50, 54 and 65) at Cortizo. The parallel TwinEx units have a large output range, so a variety of dies can be used on one machine. ConEx is a flexible conical series that can process a range of different PVC types and handle die pressures of up to 520 bar.

While nine ConEx machines function as main extruders, four are integrated into coextrusion lines. Here, the piggyback version is completely integration into the control system of the main extruder. Thanks to universal height and tilt adjustment, the coextruders can easily feed existing extrusion tools.

PVC-O measurement

Sikora says its Centerwave 6000 – which measures pipe circumference during production – has helped Suzhou Bechton Plastic Machinery build a PVC-O pipe extrusion line.

In a demonstration at a Bechton open house, visitors saw how the device helped the company mae PVC-O pipe in the 90-400mm diameter range. Several features helped to solve critical production challenges, including: 360° comprehensive monitoring; easy operation – as it can automatically identify the refractive index of the material, without calibration; and enhancing production line automation, which includes transmitting real-time measurement data to a PLC line control.

Following installation and commissioning of the Centerwave 6000 at Bechton's factory, it is now fully operational, playing a key role in ensuring the high quality of PVC-O pipes thanks to its reliable measuring performance.

In the future, both companies will focus on upgrading devices and optimising processes to raise production efficiency and quality. They aim to develop the high-performance pipe market, serve global customers and propel PVC-O pipe production technology forward.

Paratube extrusion

Davis-Standard, **Conair** and **Zumbach** teamed up

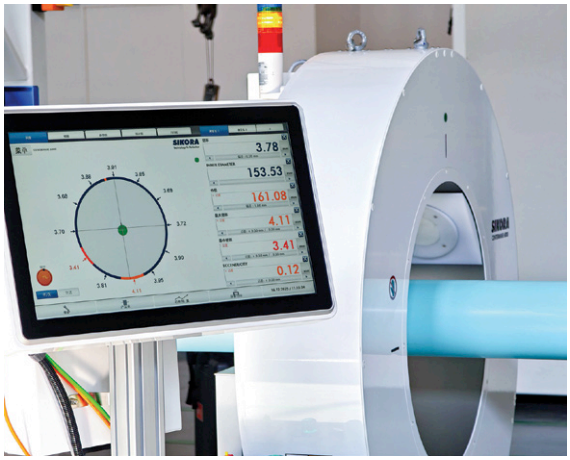


IMAGE: SIKORA

to demonstrate their medical expertise at the MD&M West exhibition – for the extrusion of a dual-lumen paratube made of flexible, transparent PVC.

The paratube, produced live at the Conair booth, was extruded as two separate tubes that were joined after exiting a 2in Davis-Standard medical extruder. The paratube forms when the two hot extruded tubes – each with a 0.15in OD and 0.02in wall thickness – are pushed together in a water-cooled, dual-roller assembly near the exit of a **Guill** GTN 919 paratube die.

Air from two Zumbach SPV digital airboxes is injected into each line of the die to help maintain a consistent ID within each tube. Zumbach's Wall-master system makes multiple wall measurements of each tube, ensuring the appropriate dimensions while providing a cross-sectional view of the tube.

The extrudate continues into a Conair MedVac 238 vacuum cooling tank, equipped with a PAVC vacuum control that uses multi-step pressure regulation to ensure a laminar flow of cooling water over the tube OD. The tank is optimised for medical production, including electropolished stainless steel surfaces, UV light water purification, and a 5-micron filter system. Inside, a Zumbach UMAC ultrasonic device measures the tube wall thickness; at the tank exit, a Zumbach ODAC laser device measures tube OD – providing full OD-ID-Wall dimensions of the tubing.

IMAGE: ZUMBACH



Above: Zumbach's QC line allows non-contact, off-line measurement of items such as pipe

Gear change

Maag says its Extrex 6 EC gear pump is designed for continuous conveyance of rigid PVC – overcoming the material's high thermal sensitivity and tendency to degrade.

The device has been developed in a multi-year

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partnership with the Rehau – which has used it under real production conditions.

Maag developed the Extrex 6 EC to overcome the limitations of conventional gear pumps – especially material remaining in dead spaces for too long. Its gap-free design prevents polymers from accumulating inside the pump. This reduces the thermal stress on the PVC and cuts the risk of degradation.

Other highlights include: increased extruder efficiency, as uniform, pressure-stable conveying reduces the load on the extruder; and a reduction in process temperature of up to 10°C, which can eliminate the need for stabilisers.

After testing at Rehau's technical centre, a final prototype was tested with a production profile in early 2025. By optimising the pump's thermal balance, Maag ensured that the increase through the pump did not exceed 6°C – even with a melt temperature that was already 10°C lower.

The device proved effective when using recycled PVC, which has inherently inhomogeneous batches. Pressure fluctuations at the die were minimised by the gear pump's constant output, which raised the quality of the extruded profiles. At the same time, the load on the extruder decreased by up to 20%, promising a longer service life for the system and noticeable cost savings in the maintenance cycle.

Maag will showcase the Extrex 6 EC at Fakuma later this year.

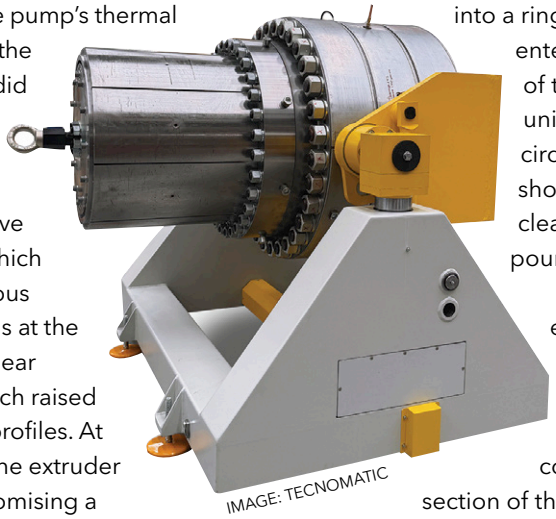


IMAGE: TECNOMATIC

Right: Tecnomatic has engineered its die heads to overcome the problems of PVC degradation

Thermal control

In the same realm, **Tecnomatic** has focused on PVC extrusion – but in this case for pipe.

Like Maag, it recognises the challenge of PVC's thermal degradation – which it addresses it with its design architecture. Here, flow channels are engineered to provide a 'first-in, first-out' flow regime – eliminating dead zones where a wall shear stress might otherwise cause material stagnation and subsequent degradation, it says.

It has used computational fluid dynamics to optimise the mandrels and spider distributors – ensuring a uniform residence time distribution across the entire annular cross-section. Multi-zone heating systems maintain the isothermal state of the melt, keeping viscosity consistent. This prevents localised fluctuations that could cause dimensional instability or wall thickness variation in large-diameter pipes.

Tecnomatic recently delivered a PVC head for pipe diameters up to 630mm, that can reach outputs of 1,200 kg/h. In addition, it is planning an even larger product: a die head for pipe diameters up to 1,200mm and a throughput of 1,700 kg/h.

PVC pipe heads

Staying with dies, **Conextru** of Austria recently released a new generation of pipe heads, which are suitable for use with many types of PVC – while a special head modification with lower volume is available for C-PVC or regrind.

The standard product line comprises eight pipe heads, with diameters of 10-1,000mm, PV 63 to PV 1000. They are designed for pressure class PN 16, even for the largest outer diameter. All have a torpedo tip design that directs the melt into a ring-shaped flow before it enters the large volume area of the head. This gives uniform flow around the circumference, enabling shorter start-up time and faster cleaning with freezing compound.

For the thickest wall PN 16, each head has a high compression ratio of over five times the cross section of the torpedo compared to the cross section of the die set. This means no further compression sections are needed. A combination of large volume and high compression, with the small radius of the streamlined shaped spider, results in a smooth inner surface without visible spider lines.

The series has also been redesigned for throughput and volume. For all heads, the maximum throughput is achieved at a dwell time of five minutes, while minimum throughput is achieved at a dwell time of 15 minutes. This range of dwell times ensures smooth inner surfaces at high throughput, while allowing maximum thermal load on the PVC formulation without causing damage.

CLICK ON THE LINKS FOR MORE INFORMATION:

- **www.battenfeld-cincinnati.com**
- **www.bausano.com**
- **www.rajoobausano.com**
- **www.sikora.net**
- **www.davis-standard.com**
- **www.conairgroup.com**
- **https://zumbach.com**
- **www.maag.com**
- **www.tecnomaticsrl.net**
- **www.conextru.eu**



IMAGE: AMI

Plastics extrusion events return to Cleveland, Ohio

This year's Plastics Extrusion World Expo North America – held in November – highlights new technologies and includes a free two-day conference with leading industry figures

This year's Plastics World Expos 2026 – held on 11-12 November in Cleveland, Ohio – will once again feature both an exhibition and conference.

The free event, which takes place at the Huntington Convention Center, is North America's largest plastics industry gathering of the year.

It brings together four focused expos: Plastics Extrusion World Expo, Compounding World Expo, Plastics Recycling World Expo and Polymer Testing World Expo. Each includes a range of international suppliers, plus a dedicated conference theatre with full two-day programmes of technology talks, business debates and keynote presentations.

The event welcomed nearly 5,500 attendees and 352 exhibitors in 2025.

This year's exhibitor lineup boasts many leading industry players including Ampacet, Cabot, Cargill, Clariant, Coperion, CPM, Davis-Standard, Erema, Farrel Pomini, Galata, IMCD, JSW, KraussMaffei, KW Plastics, Lanxess, Maag, Milliken, Netzsch, NGR, Omya, PTi, Struktol, Thermo Fisher and Westlake.

This year, the show is focusing on the theme of Powering Plastics: Skills, People and the Future. This will be reflected across the exhibition and conference sessions, highlighting the importance of workforce skills, talent development and knowledge transfer.

"The expos are designed to make it easy for industry professionals to meet the right suppliers, compare solutions and stay informed," said Kelly DeFino, exhibition sales team manager at AMI.

Exhibitor slots are still available. For more information on exhibiting, visit the **website**.

The expos will showcase manufacturers of extrusion, compounding, recycling and testing equipment, plus suppliers of polymers, additives, software and industry services.

The event will also host around 100 expert speakers in its four conference theatres. They will explore key themes including materials innovations, process optimisation, recycling technologies, market trends, regulatory developments and the increasingly vital role of AI.

Details on exhibitors of most relevance to pipe and profile extruders can be found on the following pages. ›

Main image: Last year's event hosted more than 350 exhibitors from across the plastics supply chain

Right: Atlas offers durability testing solutions for polymer and plastic materials and products

Advanced Blending Solutions

ABS is a leading designer and manufacturer of material handling, blending, desiccant drying, and control systems for the plastics industry, offering products and services tailored that are tailored to the needs of its customers.

› **www.adv-blend.com**

AIS Gauging

AIS Gauging, which manufactures inline thickness gauging systems, offers sensors, frames, and user-friendly software, seamlessly integrated into comprehensive systems.

› **www.aisgauging.com**



IMAGE: ATLAS MTS

Anton Paar

Anton Parr offers technologies including Raman spectroscopy, X-ray diffraction, particle size analysis and surface analysis. Its Paar TorqueTec subsidiary, formerly Brabender, provides solutions for characterising kneading properties and lab-scale extrusion.

› **www.anton-paar.com**

Arlington Machinery

Arlington Plastics Machinery specialises in buying and selling used equipment, consignments, liquidations, auctions and appraisals. The company's services also include testing, repairing, and refurbishing plastics machinery to meet customer specifications.

› **www.arlingtonmachinery.com**

Below: CMG Granulators specialises in granulators, shredders, and recycling systems

Atlas Material Testing Technology

As an industry leader in photodegradation and weathering testing instrument and service innovations, Atlas says it offers a complete range of durability testing solutions for polymer and plastic materials and products.

› **www.atlas-mts.com**



IMAGE: CMG

C4 Polymers

C4 Polymers develops high-performance polymers for industrial applications. It says it is dedicated to innovation and quality, providing products that cater to the evolving needs of its clients across multiple sectors, from automotive to consumer goods.

› **www.c4poly.com**

CA Picard

As a manufacturer, as well as an expert in metallurgy, CA Picard specialises in producing high-performance, corrosion- and wear-resistant precision parts, serving the extrusion aftermarket.

› **www.capicard.com**

Carnevalli

Brazil-based Carnevalli is a manufacturer of extrusion machinery, with more than 4,000 machines manufactured, delivered, and installed for clients across various industries. Its 25,000 sq m industrial facility is equipped with state-of-the-art CNC machinery.

› **Carnevalli Facebook page**

CDS Custom Downstream Systems

Based in North America, CDS provides turnkey plastic extrusion machinery for various polymer and rubber applications, including pipes, profiles, tubes, automotive parts, and medical devices.

› **www.cdsmachines.com**

Clinton Instrument

Clinton Instrument specialises in high-voltage quality control and pinhole detection equipment for wire and cable, plastics and other manufacturing industries. It also provides factory repair services, technical support and long-term product assistance for its systems.

› **www.clintoninstrument.com**

CMG Granulators

CMG Granulators makes granulators, shredders, and recycling systems. It offers a range of solutions for post-consumer and post-industrial recycling. It serves sectors including thermoforming, extrusion and injection moulding.

› **www.cmg-granulators.com**

Davis-Standard

Davis-Standard is a leader in the design and development of extrusion and converting equipment technology. The company supports a wide range of industries, including automotive, construction, consumer products, medical, and packaging.

› **www.davis-standard.com**

Dongguan Ditai Plastic Products

The China-based company has been a custom heavy-gauge vacuum forming and thermoforming

heavy-gauge vacuum forming and thermoforming manufacturer since 1997.
› **www.ditaiplastic.com**

Dursol-Fabrik Otto Durst
The company's Autosol brand was developed for the care and protection of metal surfaces. Its portfolio includes specialised cleaning agents for the plastics industry, plus cleaning pastes, rust removers and corrosion protection products.
› **www.autosol.de**

Eagle Vizion
The company's systems combine optical technologies, NIR sensing, AI-driven analytics and data platforms for sorting materials in recycling.
› **https://eaglevizion.com**

Eisenbeiss
Eisenbeiss designs, manufactures, services and repairs industrial gearboxes. These have been used for over 100 years in various machines and equipment such as trains, power plants, cranes and plastics manufacturing machinery.
› **www.eisenbeiss.us**

FB Balzanelli USA
FB Balzanelli USA is a leader in the production of automatic and semi-automatic coilers for flexible pipes. Its coiling machines optimise the coiling, packing and storing processes for various pipe types.
› **www.fb-balzanelliusa.com**

Federal Equipment
Federal Equipment is involved in buying and selling used processing and packaging equipment in industries such as pharmaceuticals, chemicals and plastics. With over 60 years' experience, it also provides expert appraisals and asset management services.
› **www.fedequip.com**

Foremost Machine Builders
Based in New Jersey, its products include granulators, blenders, blowers/cyclones, pneumatic conveyors, discharging stations, metal detectors and separators, weight inventory equipment, container unloaders, barrel mixers and material bulk hoppers.
› **www.foremostmachine.com**



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Right: Gneuss offers systems including screen changers to process contaminated materials

Global Polymer Industries

The company, a compression moulder of UHMW-PE, says its process eliminates secondary operations, allows for moulded-in fasteners and enables over-moulding of UHMW-PE onto steel.

› **www.globalpolymer.com**

Gneuss

Gneuss offers technologies such as MRS extrusion systems, automatic screen changers and sensors for processing contaminated materials. Its Omni recycling machines are customisable and designed for high-demand applications.

› **www.gneuss.com**

Guill Tool

Guill, an extrusion tooling designer and manufacturer, uses its experience to tailor tooling and die design for customers, helping them increase efficiency and decrease production cost in operations from extruding PVC pipe to complex profile co-extrusion.

› **www.guill.com**

Hosokawa

Hosokawa Micron Powder Systems produces granulators, dedusting systems, separation systems and multi-stage recycling plants for film, cable, post-consumer materials and other general plastic recycling applications.

› **www.hmicronpowder.com**

IIA

The full range of testing capabilities from Industrial Inspection & Analysis includes metallurgical, non-destructive, dimensional, mechanical, EMC/EMI, consumer goods, calibration, environmental and chemical analysis.

› **www.industrial-ia.com**

Below: Guill uses its experience to tailor tooling and die design for customers

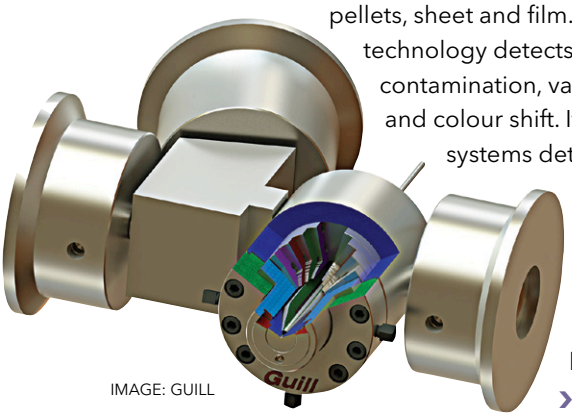


IMAGE: GUILL

Inspec.tech

Inspec.tech (Inspection Technologies) develops inspection and measurement systems for plastic pellets, sheet and film. Its pellet inspection technology detects quality problems such as contamination, variations in size and shape, and colour shift. Its film and sheet inspection systems detect common defects such as black specks, gels and bubbles, and can identify more subtle imperfections like scratches, crystals, optical distortion, haze.

› **www.inspec.tech**



IMAGE: GNEUSS

Integrated Control Technologies

ICT specialises in drive and control upgrades for old plastic extrusion lines. Its innovative solutions enhance existing equipment with modern control capabilities, offering advanced diagnostics, troubleshooting tools, and easy process data collection.

› **www.integratedcontroltech.com**

Japan Steel Works America

JSW is a leading supplier of plastics processing machinery, including twin screw compounding extruders, film and sheet machines and spinning extruders.

› **www.jswamerica.com**

Jeol USA

The company's core product groups include mass spectrometers, NMRs and ESRs, as well as electron microscopes (SEMs and TEMs).

› **www.jeolusa.com**

Konex Makina

The company manufactures extruders, corrugators and belling machines for pipe production, plus a range of auxiliary equipment.

› **www.konexmakina.com**

Kuhne North America

Kuhne North America specialises in sheet and flat-film extrusion, with solutions ranging from extruders to downstream equipment. Its K-Tool and Kuhne Anlagenbau divisions offer custom solutions, with tailored equipment for plastic converters.

› **www.kuhne-group.com**

Laidig

Laidig is a leader in designing and manufacturing bulk storage and automated reclaim systems,

particularly for materials with difficult flow characteristics. These handle a range of materials, including recyclable goods like plastic flakes and granulated vinyl.
› **www.laidig.com**

Leistritz
Leistritz makes co-rotating, intermeshing twin screw extruders (TSEs) with screw diameters of 12-260mm, and systems for compounding, devolatilisation, reactive processing, foaming and direct extrusion. Specialisms include compounding of filled engineering resins, and integration of TSEs into film and sheet systems.
› **www.leistritz.com**

Leybold Vacuum
Leybold has a wide portfolio of standard vacuum pumps as well as specially designed vacuum systems for plastics processing and composite manufacturing.
› **www.leybold.com**

Mettler Toledo
The company is a leading global manufacturer of precision instruments, including weighing instruments for use in laboratory, industrial and food retailing applications.
› **www.mt.com**

Netzsch Instruments
Netzsch offers thermal analysis instrumentation for material characterisation and the study of properties including specific heat capacity, enthalpy, weight change, Young's modulus, conductivity, thermal diffusivity, and evolved gas analysis.
› **www.netzsch.com**

NFM Welding Engineers
NFM offers turnkey rubber and plastic extrusion systems with custom integrated controls. Its technologies include co- and counter-rotating twin-screw extruders, single-screw extruders and specialised extruders for silicone and rubber products.
› **www.nfm.net**

OA Newton
The company offers multiple conveying methods such as dilute or dense phase pneumatic conveying



Right: Promix supplies components and technology for mixing, foaming and cooling for plastics

and various types of mechanical conveying.
› **www.oanewton.com**

Palmer Holland

The company is a supplier of speciality plastic additives and resins in the compounding, composites, film/packaging, rubber, colour and wire & cable markets.
› **www.palmerholland.com**

Piovan UnaDyn

UnaDyn (Universal Dynamics Inc) is a US-based company that specialises in the design, manufacture, and installation of automation systems for plastics processing.
› **www.piovan.com/unadyn**

Polymer Additives Group

Polymer Additives Group specialises in manufacturing flame retardants and smoke suppressants, offering non-halogen options and advanced technologies that meet regulatory and performance demands.
› **www.pagholdings.com**

Polyvel

The company is a technology-based manufacturer of innovative plastic additive masterbatches and custom compounds for the film, fibre, moulding and compounding industries.
› **www.polyvel.com**

Promix Solutions

Promix Solutions supplies key components and process technology for mixing, foaming and cooling in the plastics industry.
› **www.promix-solutions.com**

Proton Products

Proton Products supplies industrial measurement and control system, including technologies for plastics extrusion. Products include laser and ultrasonic measuring systems, digital length and speed gauges, and integrated process control systems.
› **www.protonproducts.com**

PSI

PSI - Polymer Systems Inc provides screen changers, gear pumps and custom systems for polymers and rubber. Its products include continuous dual-piston and backflush screen changers, and specialised gear pumps for extrusion and high-pressure applications.
› **www.psi-polymersystems.com**



PTi

PTi Processing Technologies International is a leader in high-performance sheet extrusion machinery. It offers turnkey extrusion systems for applications in packaging and industrial markets, including mono-layer to multi-layer structures.
› **www.ptiextruders.com**

Q-Lab

Q-Lab's weathering and corrosion test chambers are supplied to industries such as automotive, aerospace and building materials. Its flagship products include the QUV accelerated weathering tester, Q-SUN xenon arc test chamber and Q-FOG cyclic corrosion tester.
› **www.q-lab.com**

R&B Plastics Machinery

R&B Plastics Machinery designs and manufactures single screw extrusion and blow moulding equipment. It provides advanced equipment that enhances production capabilities and supports the development of innovative plastic products.
› **www.rbplasticsmachinery.com**

Reel Power Industrial

Reel Power Industrial is a leader in equipment and engineering solutions for winding, spooling, and coiling flexible products. It designs and builds standard and custom reeling and coiling equipment, offering innovative and cost-effective solutions.
› **www.reelpowerind.com**

Scantech

The company provides online measurement and control systems using X-ray, laser, infrared and microwave technologies. Scantech's products are used globally in production lines for extruded films,

non-woven fibres, metals and more.
› **www.scantech.com**

Schake Industries
Schake Industries manufactures spiral-rolled aluminium silos, which are weather-tight, maintenance-free and resistant to contamination, rust and flaking. Schake also provides services including installation, cleaning, repair, and relocation of silos.
› **www.schake.com**

Shini USA
The company offers heating and cooling systems to control process temperature, and plastics granulators for in-house recycling of plastic waste. Shini USA machinery is used in injection moulding, compound mixing, extrusion, thermoforming and blown film.
› **www.shiniusa.com**

Sikora
The group says it has set international standards with exceptional measuring, control, and testing devices for the wire, cable, hose, tube, pipe, sheet and plastics industries. The company employs 400 people at its headquarters in Bremen, Germany.
› **www.sikora.net**

Silon
Silon is a producer of polyolefin-based performance compounds, including crosslinked polyetheylene (PE-Xb) and cable compounds suitable for construction, automotive, renewable and industrial cables.
› **www.silonllc.com**

Smithers
Smithers provides testing, consulting, information and compliance services. Its rubber and polymer testing laboratory offers a full suite of material testing, chemical analysis, and sample preparation services for clients across several industry segments.
› **www.smithers.com**

Solberg
As well as a broad product portfolio for filtration, separation and silencing, the company offers vacuum filtration technology for plastic extrusion applications.
› **www.solbergmfg.com**

Syncro
The group says its ancillary equipment is designed to raise productivity. This includes design and manufacturing of ancillary components such as a complete gravimetric dosing system, as well as flat-die technology and precision optical inspection systems.
› **www.syncro-group.com**



IMAGE: SIKORA

Above: Sikora equipment is used to measure, control and test products such as extruded pipe

TA Instruments
TA Instruments is a leader in thermal analysis, rheology, microcalorimetry and mechanical analysis systems. Its instruments help scientists in laboratories test the physical properties of their materials.
› **www.tainstruments.com**

Texas Extrusion Service
The company provides extruder repair services, from barrel replacements and gearbox repairs to optical barrel alignments, stuck screw removals and screw and barrel repairs.
› **www.texasextrusionservice.com**

Tinius Olsen
Tinius Olsen is a specialist in static tension and compression materials testing equipment. Its systems are designed for use in research and quality control to measure material strength and performance.
› **www.tiniusolsen.com**

Trendelkamp
The company designs and manufactures extrusion system solutions that include melt filtration screen changers, polymer start-up and diverter valves, pellet-sorting classifiers, extruder degassing systems and custom processing system solutions.
› **www.trendelkamp.com**

TSM Control Systems
TSM specialises in material management for the

Sessions show skills, tech and trends

Visitors to the event can attend a free conference in the *Plastics Extrusion World Expo* theatre – where industry experts will present papers on industry trends, market opportunities and technology updates.

This year's special theme is Powering Plastics: Skills, People and the Future – which will be reflected across both the exhibition and conference sessions. It aims to highlight the growing need for workforce skills, talent development and knowledge transfer to support innovation, growth and long-term resilience across the plastics industry.

"This theme allows us to broaden the conversation by focusing not only on technology and innovation, but also on the people and skills that will shape the future of the industry," said Kelly DeFino, exhibition sales team manager at AMI.



Speakers include (from left): Lucivan Barros of Thermo Fisher Scientific; Henrik Bernquist of Nexam Chemical; and Mike Dolgovskij of SI Group.

Several technical presentations here – and in other theatres – are of relevance to pipe and profile extruders. These include:

Several technical presentations here – and in other theatres – are of relevance to pipe and profile extruders. Confirmed speakers include: **Lucivan Barros**, senior applications scientist at **Thermo Fisher Scientific**; **Henrik Bernquist**, business manager at **Nexam Chemical**; and **Mike Dolgovskij**, senior technical service manager Americas at **SI Group**.

More speakers are being added to the roster, which can be seen **here**.

plastics processing industry. Its product line includes silos, railcar-unloading equipment, material handling equipment and blending systems.

› **www.tsm-controls.com**

US Extruders

US Extruders develops custom single-screw extruders, with highly engineered solutions tailored to customer specifications. It is committed to delivering machines that meet performance expectations, with a strong focus on customer support and satisfaction.

› **www.us-extruders.com**

USA Rolls

USA Rolls is a manufacturer of heat transfer rolls and ASME code certified steam drums in North America, all made to exact specifications.

› **https://usarolls.com**

Uway Extrusion

Uway Extrusion supplies custom extrusion systems with outputs up to 14,000 lbs/hr. It says it is dedicated to improving extrusion machinery, from engineering systems to fit in-line with thermoforming machinery to integrating compounding into the extrusion process.

› **www.uwayextrusion.com**



IMAGE: XALOY

Right: Xaloy is a leading manufacturer of barrels and screws

Virtus Equipment

Virtus Equipment says that with ACM Extrusion it offers a full range of plastic solutions including size reduction machinery. This includes heavy-duty, single-shaft shredders, plastics central grinders, beside-the-press granulators, and PVC pulverisers.

› **https://acm-extrusion.com**

Vooner

The company's products include vacuum systems for the packaging, handling and plastics industries, for thermoforming, blister packaging, pneumatic conveying, plastic extrusion and CNC routing.

› **www.vooner.com**

Xaloy

The company offers a wide range of high-quality screw and barrel designs. Xaloy's technical expertise has led to advances in improving quality and throughput for plastics processors, including inventing the first tungsten carbide barrel.

› **https://xaloy.com**

Zhejiang Jwell Pipe Equipment

The China-based company engineers a wide range of extrusion lines and related technologies for applications including pipe and sheet.

› **www.jwell.cn**

Download these new product brochures

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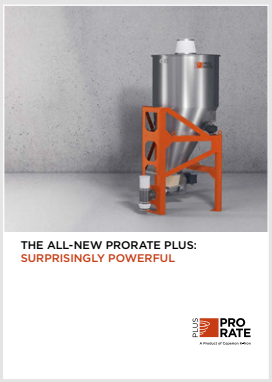
INOEX: WARP PIPE MEASUREMENT



The WARP contact-less radar-based pipe measurement system from Inoex uses terahertz technology to provide simple and effective multi-point dimensional control of thick and thin wall plastic pipes. Learn more in this brochure.

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COPERION: PRORATE PLUS FEEDER



The new ProRate Plus feeder system from Coperion K-Tron offers a cost-effective and simple-to-configure gravimetric option for processors looking for reliable handling of pellets and free-flowing bulk powders.

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MIXACO: COOLING MIXERS



Detailed in this brochure are the specifications for Mixaco's range of HM and KM H heating cooling mixers used for rigid or soft PVC applications. The company says its technology offers process-optimised mixing, energy efficiency and other benefits.

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PLASMEC: COMBIMIX HC



Plasmec's Combimix HC system combines the high-speed mixing efficiency of its TRM with the intensive cooling capabilities of the HEC for dry-blend production. Applications include PVC compounds, WPC/SPC, masterbatches, thermoplastic polymers and technical powders.

❯ CLICK HERE TO DOWNLOAD

NORDSON: GAUGING



The Accuscan 6000 Series are four-axis diameter and ovality gauges for products up to 50 mm from Nordson Measurement & Control, which explains the advantages of the technology in comparison with two-axis gauges in this brochure.

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HANS WEBER: EXTRUSION



Family-owned Hans Weber has been a leading engineering group for more than 100 years. In this brochure it presents its extensive range of technology for pipe and profile extrusion, including complete lines, plus controls, granulators and wear measurement systems.

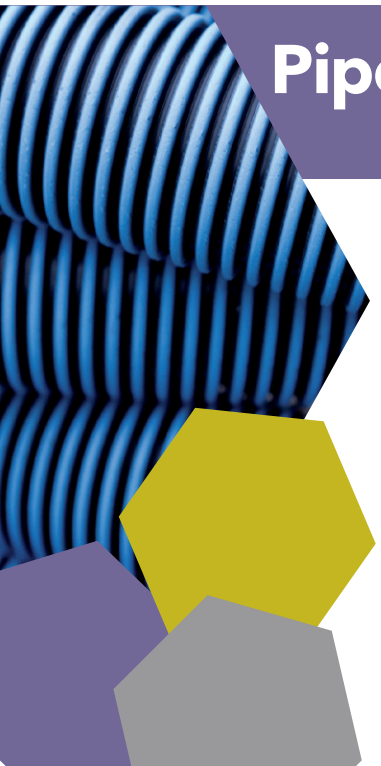
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If you would like your brochure to be included on this page, please contact claire.bishop@amiplastics.com. Tel: +44 (0) 7905 848744

Tien Phong Plastics

Head office:	Hai Phong, Vietnam
Chairman:	Dang Quoc Dung
Founded:	1960
Turnover (2025):	Around VND6.5 trillion (US$254 million)
Employees:	Around 1900
Ownership:	Public (traded on Hanoi Stock Exchange)
Profile:	Tien Phong Plastics, founded in 1960, began as a producer of children's toys – but in 1990 transitioned to making PVC pipes for the construction industry. In 2006, it listed on the Hanoi Stock Exchange. It now also makes HDPE and PP-R pipe and exports to countries including Laos and New Zealand.
Product lines:	The company makes a wide variety of pipes and fittings in PVC, HDPE and PP-R – as well as double-walled pipes from PE/PP. Its PVC pipes are for water supply, and for wastewater discharge. In addition to its core business, it has expanded its product portfolio with solutions for industrial infrastructure, water supply and drainage, fire protection and residential construction. New products include underground water storage tanks for urban stormwater management, C-PVC pipes for automatic fire sprinkler systems, air admittance valves (AAVs), and waterproofing solutions. The company recently signed a deal with Sekisui of Japan, to start manufacturing its rain gutter systems. The product will later be sold in Vietnam and other countries.
Factory locations:	Tien Phong Plastics has its head office and four manufacturing facilities in the north, as well as one central and one south-based factory – for six production plants. Total output is around 155,000 tonnes/year.

To be considered for 'Extruder of the Month', contact the editor on lou.reade@amiplastics.com



Pipe and Profile EXTRUSION FORTHCOMING FEATURES

The next issues of Pipe and Profile Extrusion magazine will have special reports on the following topics:

Winter 2026

Large diameter pipe
PVC additives
Materials handling
WPCs

Spring 2027

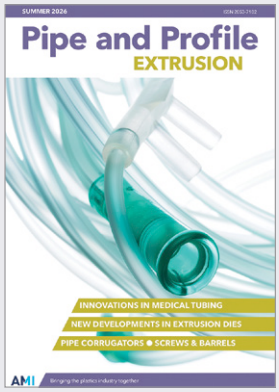
Screenchangers/melt filtration
Control & instrumentation
Polyolefin developments

Editorial submissions should be sent to Lou Reade: lou.reade@amiplastics.com

For information on advertising in these issues, please contact:
Claire Bishop: claire.bishop@amiplastics.com Tel: +44 (0)1732 682948

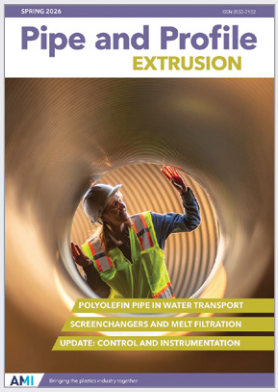
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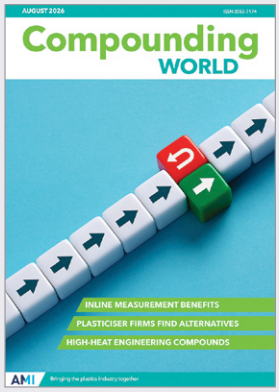
Pipe and Profile Summer 2026
In Pipe and Profile Extrusion's Summer edition, the exacting standards of medical applications are the context of the main feature on tubing. Plus the latest in corrugated pipe, extrusion dies and screws and barrels.

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Pipe and Profile Spring 2026
The cover story in Pipe and Profile Extrusion Spring edition checks on progress in the polyolefin water pipe sector, while other articles explore melt filtration technology and what's new in controls and instrumentation.

› CLICK HERE TO VIEW



Compounding World August 2026
Keeping compounds on-spec can now be done using inline technology during processing, as detailed in the August edition of Compounding World. Other articles cover PVC plasticisers and high-temperature compounds.

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Plastics Recycling World July/August 2026
In its cover feature, Plastics Recycling World's July-August edition looks at technology for the critical role of washing in a recycling line. The other features in this edition explore polyurethane and chemical recycling.

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Injection World July/August 2026
The ability of thermoplastics to break new ground in medical moulding is explored in the main feature of this edition of Injection World. Other articles cover recent developments in 3D printing and bio-based materials.

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Film and Sheet July/August 2026
Film & Sheet Extrusion's July-August edition has a cover feature on the latest developments in pouches while other articles cover the varied source materials for new bio-based plastics, plus new downstream processing equipment.

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Compounding WORLD
Film and Sheet EXTRUSION
Pipe and Profile EXTRUSION
Injection WORLD
Plastics Recycling WORLD

GLOBAL EXHIBITION GUIDE

2026	**16-17 September**	Kunstoffenbeurs, 'S-Hertogenbosch, Netherlands	https://kunststoffenbeurs.nl
	23-24 September	Compounding & Recycling Expo, Frankfurt Germany	www.compoundingrecyclingexpo.com
	24-28 September	Taipeiplas 2022, Taipei, Taiwan	https://www.taipeiplas.com.tw/en/index.html
	8-10 October	PlastPrintPack West Africa, Abidjan	www.ppp-westafrica.com
	8-11 October	Plastex, Brno, Czech Republic	www.bvv.cz/en/plastex/
	12-16 October	Fakuma, Friedrichshafen, Germany	www.fakuma-messe.de
	3-6 November	Ecomondo, Rimini, Italy	www.ecomondo.com/en
	11-12 November	Plastics Extrusion World Expo, Cleveland, Ohio, USA	Click here for information
	10-13 November	Plastimagen, Mexico	www.plastimagen.com.mx
	1-5 December	IPF Japan, Chiba	www.ipfjapan.jp
	2-5 December	PlastEurasia, Istanbul, Turkey	https://plasteurasia.com/en/
	14-16 December	RACE, Mumbai, India	www.raceexpos.com
2027	**2-4 March**	JEC World, Paris, France	www.jec-world.events
	13-16 April	Chinaplas, Shenzhen, China	www.chinaplasonline.com
	27-29 April	Plast-Alger, Algiers, Algeria	www.plastalger.com
	3-7 May	NPE 2027	www.npe.org

AMI CONFERENCES

3-4 November 2026	Fire Resistance in Plastics, Düsseldorf, Germany
1-2 December 2026	Polymer Engineering for Energy, London, UK
9-10 February 2027	Pipeline Coating, Vienna, Austria
24-25 February 2027	PVC Formulation North America, Charlotte, USA
Date TBA, 2027	Polymers in Hydrogen and CCUS Infrastructure
2-4 March 2027	Cables Europe

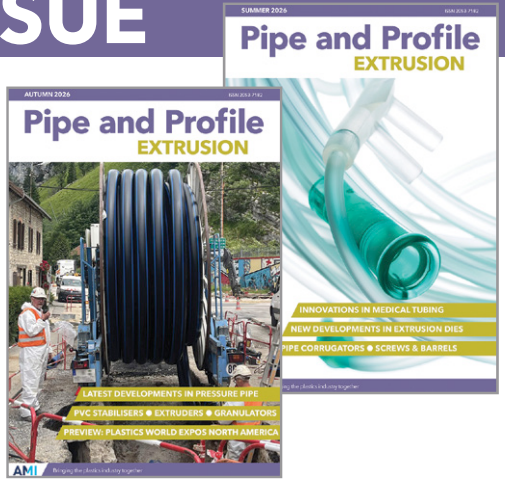
For information on all these events and other conferences on film, sheet, pipe and packaging applications, see

www.amiplastics.com

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