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4 Industry news

13 Test of strength: high pressure pipe

Recent applications in high-pressure pipe include a cooling tower circuit, a drinking water project in Germany and underwater pipe for offshore drilling

19 Vinyl analysis: PVC recycling

Although PVC recycling rates in Europe are falling, several schemes to recover PVC pipes and medical products are thriving

27 Recovery mode: plastic recycling & granulation

Advances in recycling at K2025 include an updated single-shaft shredder, a re-engineered pulverizer and a granulator that claims to cut energy consumption in half

31 Plant growth: extruder technology

New machine technologies at K2025 include a piggyback extruder arrangement, a multilayer pipe head to process rPVC and a way to make dynamic weather seals

35 2025 preview

In this section, we preview a selection of machinery and materials that will be on show at this year's exhibition in October in Germany

47 Plastics extrusion events return to Cleveland

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

56 Extruder of the month: Cortizo

58 Dates for your diary



PAGE 13



PAGE 19



PAGE 27

PAGE 31



PAGE 47

COMING NEXT ISSUE

› Large diameter pipe › Materials handling › Wood-plastic composites › PVC additives

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Orbia sees Q2 dips across the board

Mexican plastics company Orbia saw H1 sales and profits fall for the first half of the year. Net sales fell 2% to US\$3,778 million, while profit (EBITDA) declined 15% to US\$498m. At the same time, Q2 results in its three extrusion businesses varied.

Pipes manufacturer Wavin reported a 5% dip in sales to US\$629 million in Q2, and a 20% dip in EBITDA to US\$63m. The fall in sales was driven by lower volumes in India (due to the sale of the tanks business) and

Mexico – and an unfavourable product mix – but this was partly offset by strong results in the UK and higher volumes in Indonesia.

Irrigation supplier Netafim saw a 2% rise in sales to US\$288m – due to higher demand in Brazil, the US and Peru, offset by declines in Mexico and Chile. Q2 profits rose 1% to US\$40m.

Meanwhile, conduit maker DuraLine saw Q2 sales rise 4% (to US\$246m) due to higher volumes in

North American telecoms and data centre markets. Profits were flat at US\$41m.

In its extrusion divisions, Orbia expects modest growth from Wavin (despite challenges in Western Europe and Mexico), stable-to-improving conditions for Netafim, with expected strong performances in Africa and parts of Latin America, and increased volumes for DuraLine, due to sustained network development.

➤ www.orbia.com

Flexible pipe made in the US

Swiss-owned Brugg Pipe has begun producing Calpex-PUR-King pipe at a new US plant in Joliet, Illinois.

The US\$20 million facility, a joint venture with Rovanco Piping Systems, has been completed in 14 months. It includes a production hall and manufacturing line for its pre-insulated, flexible Calpex-PUR-King pipe. The pipe – which was previously imported into the US – is used for both district and local heating networks as well as underground hot- and cold-water distribution.

“With this new facility, we shorten delivery times, reduce transport costs, bypass tariffs, and ensure outstanding availability,” said Martin Rigaud, CEO of Brugg Pipes.

Brugg has five other production sites – two each in Germany and Poland, and one in Switzerland.

➤ www.bruggpipes.com

New conduits in Arkansas

US conduit producer Cantex has invested US\$120 million in a new facility in Nashville, Arkansas – where it plans to begin production by the end of this year.

The new facility – a former production plant for Husqvarna – is expected to create 110 new jobs over the course of one year.

The company plans to

invest in new equipment and upgrade the facility to support the production of new products.

“This property will enable us to better serve our customers and support our long-term growth strategy,” said Dave Merker, president of Cantex. “We look forward to integrating it into our operations.”

Cantex already has extrusion plants in Arizona, Florida, Ohio and Texas – and this is its first in Arkansas.

“Manufacturing has long been a part of our community, and we’re proud to welcome Cantex in creating jobs and boosting local industry,” said Larry Dunaway, mayor of Nashville.

➤ www.cantexinc.com

Arterex expands in medical tubing takeover

Arterex has bought medical tubing extruder Xponent Global



IMAGE: XPONENT GLOBAL

Medical device manufacturer Arterex has acquired Xponent Global, an extruder of medical tubing.

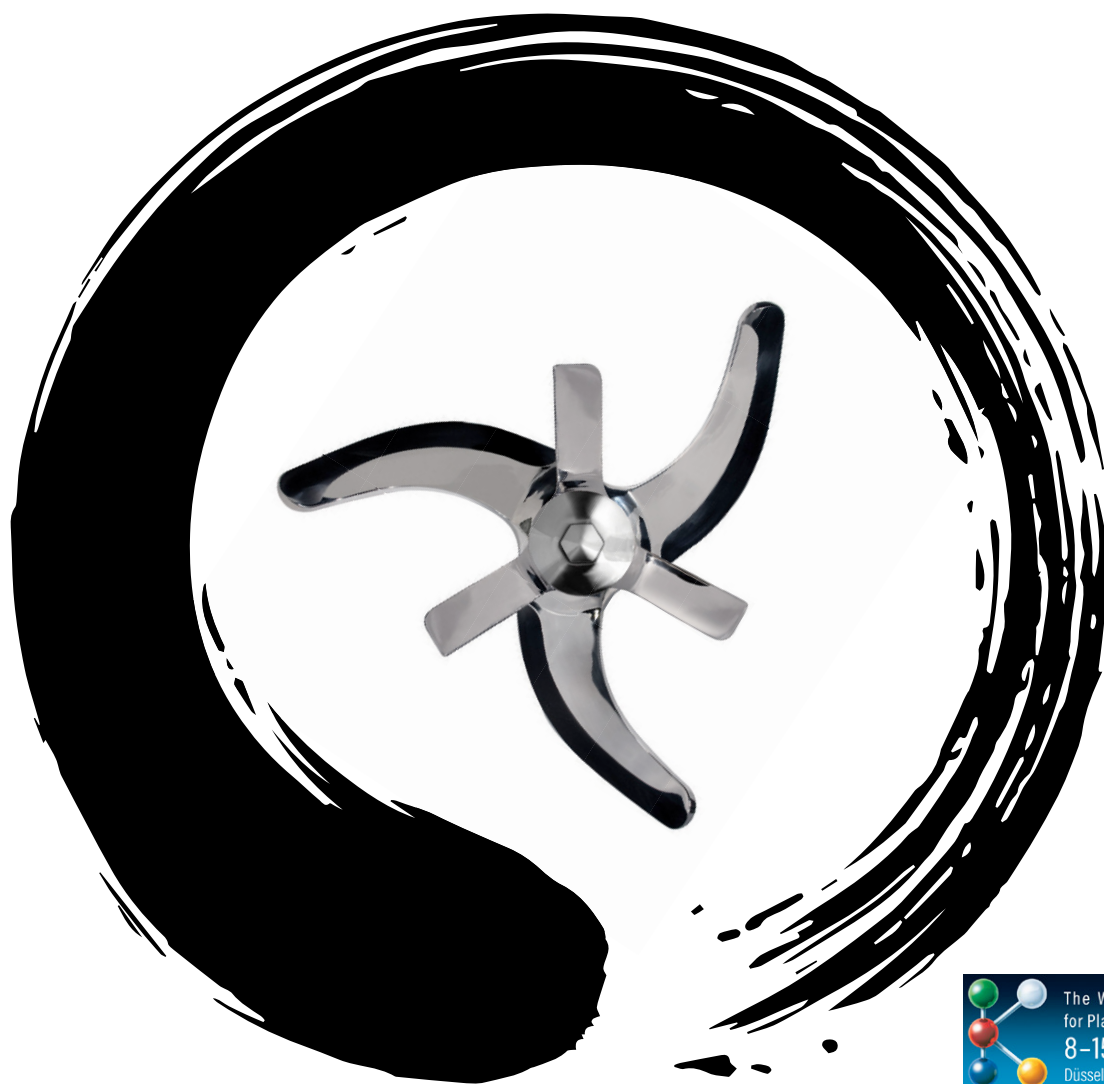
Xponent makes filaments, multi-lumen, taper tubing, para tubing and single lumen tubing for many applications – from simple packaging tubes to products used in neurological and laparoscopic devices. It has eight extrusion lines in 55,000 sq ft of manufacturing space – including 5,000 sq ft of Class 8 cleanroom space – at its facility in Hudson, Massachusetts.

“With this acquisition, we can serve the extrusion needs of our North American customers locally at the highest global industry standards,” said Bill Gerard, president of Arterex in North America.

➤ www.arterexmedical.com ➤ www.xponentglobal.com

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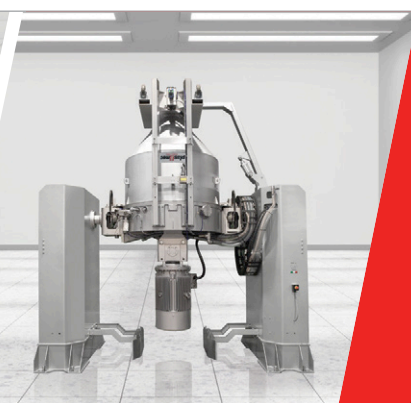


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PVC pipe buyers reach initial settlement in price-fix lawsuit

Buyers of PVC pipe have reached an initial settlement in a US lawsuit that accused several suppliers of overcharging them by conspiring to fix prices, says a report from *Reuters*.

According to the settlement terms, data and analytics company Opis - owned by Dow Jones - will pay US\$6 million to commercial and municipal PVC pipe buyers. It will also cooperate with the ongoing case against several

PVC pipe makers - including Atkore, Cantex, JM Eagle, Otter Tail and Westlake.

The pipe makers have been accused of sharing sensitive information in a weekly PVC pipe market report from Opis - which denied any wrongdoing in agreeing to settle.

The original lawsuits, accusing the manufacturers and Opis of a price-fixing conspiracy, were filed in August

2024 and heard in the US District Court for the Northern District of Illinois.

Now that Opis has agreed to cooperate, pipe buyers intend to amend their original lawsuit and expand the scope of the alleged conspiracy. US District Judge LaShonda Hunt will now allow plaintiffs' lawyers to pursue separate class action claims on behalf of consumer PVC purchasers.

Polypipe sales and profits rise

UK-based Genuit, which owns Polypipe, reported a rise in both sales and profits in the first half of the year.

Sales rose to nearly £298 million (US\$404m), a 9% increase compared to H1 2024. This led to a pre-tax profit of nearly £32m (US\$43m) - more than twice that of the same period in 2024.

"We returned to top line growth in the first half of this year, outperforming a market characterised by weak confidence and broadly flat volumes," according to Joe Vorih, CEO of Genuit. "In the second half, we anticipate challenging market conditions will persist, although with margins benefiting from price actions, cost efficiency and productivity actions already underway."

➤ www.polypipe.com

Wienerberger grows sales but profits drop in first half of year

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

It reported sales of €2.3 billion, up 6% on the same period in 2024. At the same time, operating EBITDA declined by around 4% to €383 million. The company said its piping, roofing and infrastructure businesses posted positive results, to offset weaker performance in the new build market.

"Our performance in H1 2025 demonstrates our strength and adaptability," said Heimo Scheuch, chairman of Wienerberger. "We reacted decisively to changing market conditions, enabling us to remain on a solid course - even in a volatile environment."

The company expects challenges to remain and does not expect "a meaningful market recovery for the second half".

➤ www.wienerberger.com



IMAGE: WIENERBERGER

Scheuch: "Performance in H1 2025 demonstrates our strength and adaptability"

Trex results fall in first half of year

US decking manufacturer Trex has reported a fall in sales - and a corresponding decline in profits - for the first half of the year.

The company, which makes wood-plastic composite (WPC) products, reported sales of US\$728 million for the period, a fall of 3%. Net profit for the period exceeded US\$136m

- a 23% decline on the corresponding period in 2024.

The company said the fall in sales was due to "our revised inventory and level-load production strategies".

New products were a key contributor to sales, he added: products launched in the last 36 months

accounted for 22% of Q2 sales - ahead of the 13% contribution in the same period last year.

"Looking ahead, our full-year 2025 guidance for sales growth is 5-7%," said Bryan Fairbanks, president and CEO of Trex - which would put full year sales at US\$1.26-1.28billion.

➤ www.trex.com



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Deceuninck seeks new CEO as results decline

Belgian profiles maker Deceuninck reported disappointing results in the first half of 2025 – and has announced plans to find a new CEO.

Stefaan Haspeslagh, CEO since June 2024, has now left the company.

“The board concluded that Stefaan’s expectations were not compatible with our internal expectations and aspirations,” said Francis Van Eeckhout, chairman of Deceuninck. “It was decided to provide swift clarity and to end our collaboration.”

Van Eeckhout will fill the CEO role until the company

appoints a new one.

Deceuninck reported a 9% fall in sales in the first half of the year, to €384 million. This was due to a volume decrease of nearly 6%, due mainly to sluggish markets in Europe and Turkey.

Profit (adjusted EBITDA) declined by more than 16% to around €55 million for the period, due mainly to the “difficult economic environment” in Turkey.

Sales in Europe fell by 3% in value, but those in North America rose by about 2% – while those in Turkey and emerging markets fell by nearly 23%.

“The first half of 2025 remained challenging, with continued weak demand in several markets,” said Van Eeckhout. “In Turkey, high interest rates and unfavourable market conditions are impacting our business.”

He added that the closure of its German plant last year now positively affects its cost structure, while North America shows “early signs of improvement”.

The company expects ongoing challenges this year – with Europe remaining fragmented and Turkey affected by inflation and high interest rates.

➤ www.deceuninck.com

Vynova to wind up PVC plant

Vynova will end PVC production at its 225,000 tonnes/year site in Beek, the Netherlands this year.

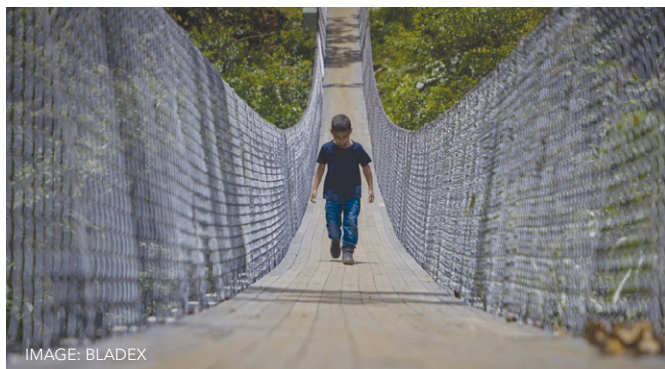
“This follows a review of our manufacturing footprint in light of economic, regulatory and market challenges,” said Christophe André, CEO of Vynova.

He cited pressures such as weak demand and competition from regions with lower production costs and less stringent regulations.

“These conditions are unlikely to improve in the near term,” he said.

➤ www.vynova-group.com

New bridge in Panama uses recycled plastic



Thanks to the joint efforts of Bladex, the Panama Canal, and the Botellas de Amor Foundation, a new pedestrian bridge has been built over the Panama Canal using over three tonnes of recycled plastic. The structure, measuring 81 m in length, connects four communities, significantly improving the mobility and safety of over 300 people.

Jessica Janson, senior vice president of corporate communications and social investment at Bladex, said: “With every step taken on this bridge, we reaffirm that waste can become a solution.”

➤ <https://bladex.com> ➤ <https://botellasdeamor.org>

GF piping sees H1 sales and profits fall

Georg Fischer’s piping division saw interim results fall in 2025.

This year, it reported half-year sales of CHF960 million (US\$1.2 billion), nearly 1.5% lower than the same period last year.

It also reported a profitability (EBIT) of CHF108m (US\$134m) – a fall of around 15%. The company said that

“tariff-induced uncertainties” led industrial customers to delay investment decisions, which affected demand. Currency movements affected profits by CHF6m, it said.

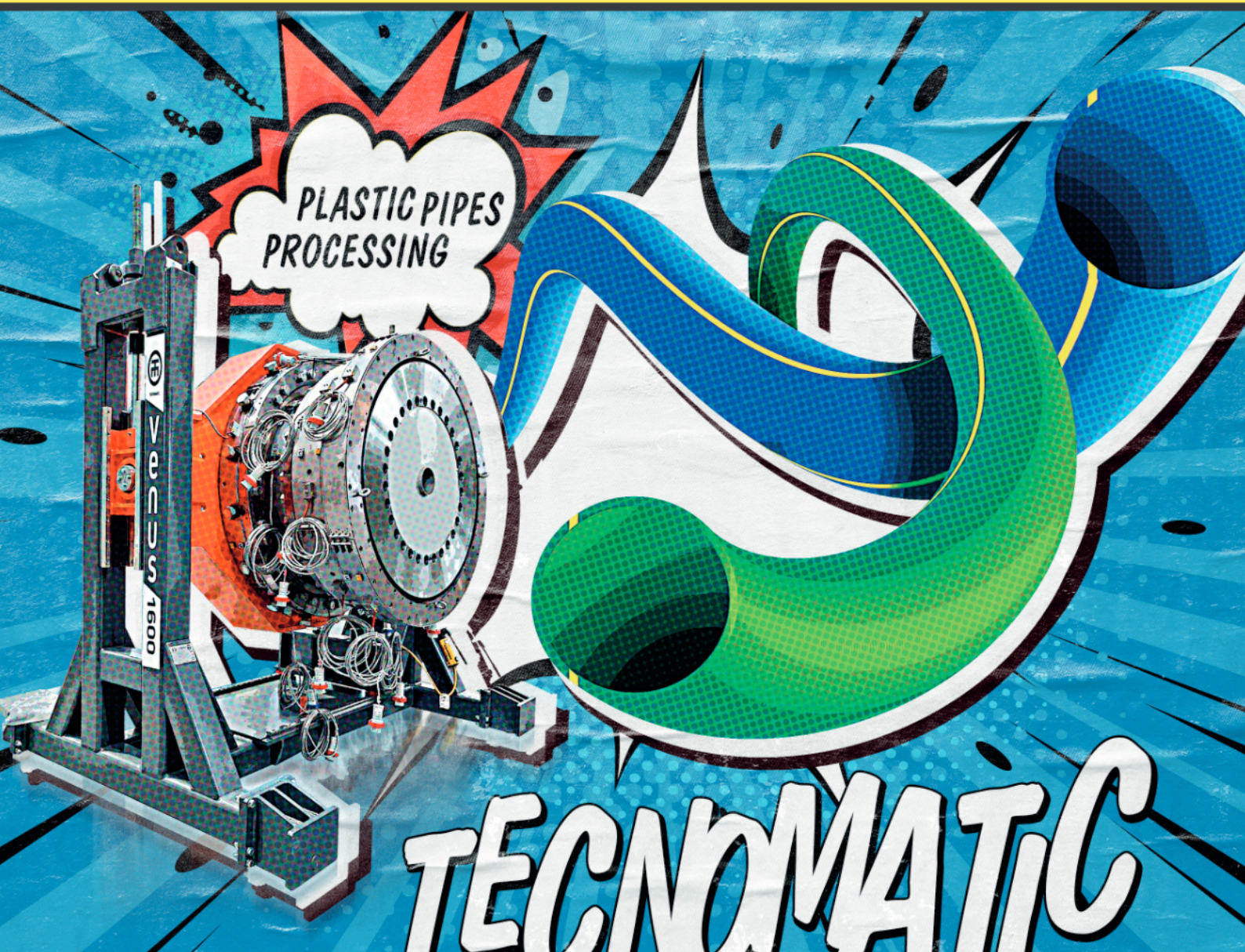
After a reorganisation, the number of employees in the division rose by nearly 4% to exceed 8,000 people.

A new division, GF Building Flow

Solutions, has also been created from the business that Georg Fischer acquired from Uponor in 2023. It had sales of CHF586m (US\$726m) in H1 2025 (a dip of nearly 6%) and trimmed nearly 300 employees (to around 4,075). However, EBIT rose by around 9% to CHF47m (US\$58m).

➤ www.georgfischer.com

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North American machinery sales rise in first half of 2025

Plastics machinery sales in North America rose in the first half of the year.

Figures from the Plastics Industry Association's Committee on Equipment Statistics (CES) show total sales of around US\$505 million for the period – more than 3% ahead of the same period last year.

"Shipments stopped falling in the second quarter – and increased by 3.5% in the first half of the year," said Perc Pineda, chief economist at the association.

"It seems the plastics industry had a better handle

on trade and tariff challenges across the value chain in the second quarter compared to the first," Pineda added.

Sales value in Q2 was around US\$254m – up 0.7% from both the previous quarter and the same period in 2024.

This was driven by a 49% increase in twin-screw extruder sales compared the first quarter, and a doubling (up 115%) from the Q2 of 2024. In contrast, single-screw extruder sales fell 11% on the previous quarter, but rose 6.5%

year-on-year. Injection moulding sales were down 3.1% on the previous quarter, but up 5.4% from Q2 in 2024.

On US plastics machinery trade, imports fell nearly 8% compared to Q1 but rose nearly 2% compared to the same period last year. Total exports rose 0.4% from Q1 but fell by more than 4% year-on-year.

In the second-quarter survey of CES members, 58% of respondents expected market conditions to remain steady or improve over the next 12 months –

down from 62% in the previous quarter. However, the share reporting that quoting activity held steady or improved rose from 65% to 76%.

"The advance estimate of US real GDP showed a 3% increase in the second quarter," said Pineda. "The broad-based increase in household spending – across durable and non-durable goods and services – also points to room for growth in plastics manufacturing, particularly as imports decline."

➤ www.plasticsindustry.org



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Recent applications in high-pressure pipe include a cooling tower circuit, a drinking water project in Germany and underwater pipe for offshore drilling

Test of strength: advances in pressure pipe



IMAGE: STROHM

Pressure pipe can be found in a wide variety of applications - from drinking water delivery to offshore oil and gas.

Thermoplastic composite pipe (TCP) producer **Strohm** recently completed field trials with Petrobras for its TCP pipe design offshore Brazil - at water depths of around 1,500m.

The testing and engineering assessments, conducted in the Campos Basin, have shown the pipe's performance under real-world conditions and its ease of installation - using the same pipe installation vessels that are already part of Petrobras' fleet.

The tested TCP is suitable for post-salt wells and the tests also provided information to support the qualification of TCPs for pre-salt applications. Because the technology is resistant to stress corrosion cracking caused by CO₂ (a major challenge in the area), it shows potential as a solution for the pre-salt cluster offshore Brazil, says Strohm.

"The field trial results are proof of the innovation and quality that TCP brings to the industry," said Renato Bastos, VP Brazil at Strohm. "The technology has the potential to transform the global deepwater market and unlocks a huge potential for us in Brazil."

Strohm's TCP has also been installed at the Wilhelmshaven 2 terminal in Germany - and the

first gas is flowing through it. Strohm provided more than 11km of TCP to EConnect for the TES Wilhelmshaven green gas terminal. The corrosion-resistant pipe is supporting the terminal's subsea infrastructure in a high-current, environmentally sensitive zone. In the initial phase, the terminal will import liquefied natural gas, using Strohm's TCP, with the pipe being repurposed for liquid CO₂ transport at a later stage.

"Our TCP is field-proven in the harshest offshore environments, does not corrode, and is compatible with CO₂ - making it perfectly suited for this project," said Martin van Onna, CEO of Strohm.

Pipe design tool

Strohm has also developed TCP Designer - a web-based tool that helps companies design and engineer TCPs for their projects.

It helps users ensure their piping systems meet critical requirements for water depth, pressure, temperature and means of installation. The tool is designed to streamline pipe design assessments during the Front-End Engineering Design (FEED) stage of projects, enabling engineers to evaluate the suitability of TCP for various applications quickly and accurately.

By adding project-specific specifications, users

Main image:
Strohm has run field trials for its TCP pipe at water depths of around 1,500m

Right: A Chilean copper producer replaced corroding carbon steel with PE 100-RC pipe from Agru



can instantly generate data-sheets with key parameters such as size, weight, stiffness and minimum bend radius. This helps them assess factors such as installation feasibility and in-place analysis easily and quickly. For example, this allows the user to quickly assess the wide range of vessels available to install the lightweight TCP in any water depth.

The tool claims to simplify decision-making, cut design iteration time and support the use of TCP solutions in energy infrastructure and other industrial projects.

“While there is a plethora of information about designing and engineering steel pipes, the same cannot be said for composite pipes,” said van Onna. “We want to empower our clients – and engineering houses around the world – by providing the right tools to simplify complex challenges.”

TCP Designer offers intuitive features that streamline the complex process of pipeline design and engineering. With a user-friendly interface and robust computational capabilities, users can customise pipe design to match specific project needs and environmental conditions and have the data sheets for their projects in minutes.

Drinking water

The city of Roth in Germany has installed a new interconnector pipeline from the local waterworks, to ensure a long-term supply of drinking water.

Several challenges – including a rocky underground and narrow construction plot – had to be overcome, which was why it opted for an **Egeplast SLM 3.0** pipe system.

“The bulk of the pipeline was installed by applying directional drilling,” said Peter Obermeier, site manager for installer Pro Bau. “One challenge

was posed by the prevalent underground consisting of hard rock.”

In Roth, municipal utilities installed the new interconnector drinking water pipeline – around 1,000m in length – in Autumn 2024 as part of a comprehensive construction project. The new pipeline runs from the waterworks to an elevated tank in Roth.

The project is complex, as the course of the topsoil varies and the substrate is partially gravelly – while a large percentage of it is also rocky. In addition, unfavourable weather conditions with low temperatures and high rainfall and humidity presented additional challenges.

Another challenge were the cool temperatures at the construction site – most of which was in a forest. Therefore, the welding parameters for the SLM 3.0 were adapted to match the respective butt-welding machine ahead of time to ensure a technically sound implementation of the welds.

Acid test

Agru has helped a major copper producer in Chile to solve problems in the cooling tower circuit of a sulphuric acid plant.

Existing carbon steel pipes were heavily corroded – both inside and out. This was causing considerable pressure losses due to reduced inner diameter and increased surface roughness. In addition, leaking weld joints led to overheating of pumps and motors, causing increased vibrations throughout the piping system and its supporting structures.

This caused frequent shutdowns and rising operational costs, making continued operation of the plant economically inefficient. To address the challenges, Agru Chile recommended the use of PE 100-RC piping – known for its durability and corrosion resistance – as a replacement.

Made from virgin resin, PE 100-RC offers high resistance to environmental impact, slow crack growth and aggressive media, making it suitable for demanding industrial applications. Thanks to its smooth surface, it reduced pressure losses, prevented incrustations and minimised system vibrations. The material is also much lighter than steel, allowing for safer, more efficient installation.

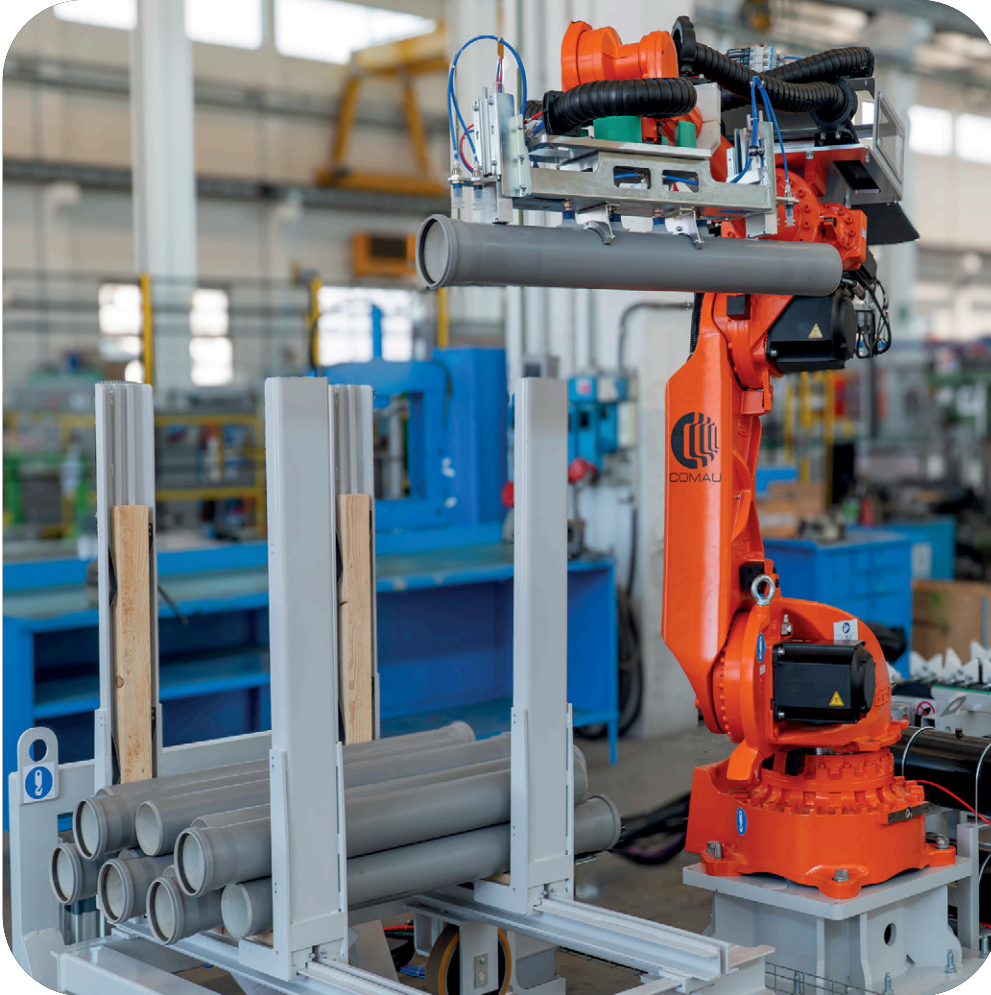
The switch to PE 100-RC piping helped to extend the cooling tower system’s service life and boosted productivity of the plant. This solution reduced operating costs and provided a sustainable approach to plant operation, says Agru. ➤

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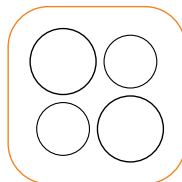
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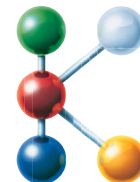


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River crossing

Agru's US division was a winner in this year's **Plastic Pipe Institute (PPI)** awards for its part in a boat harbour project in Virginia.

The project required more than a mile of 42in diameter pipe to be run under the James River – nearly 20,000 feet of high-density polyethylene (HDPE) pipe – in less than 24 hours, for a new force main.

It won its award from the PPI's municipal and industrial division.

Along with Performance Pipe, Agru provided the pipe in diameters of 42-54in for the new pipeline – which takes raw wastewater underneath the James River to the Nansemond Treatment Plant in Suffolk, Virginia. The HDPE pipe was chosen because it is flexible, resilient, and can be installed using horizontal directional drilling (HDD). In addition, it is not affected by corrosive salt water and is leak-free.

The award was also shared by High Country Fusion – which provided the pipe, fittings, fusion equipment and led the off-shore team.

A second winner in this year's PPI awards, FlexSteel, also involved high pressure pipe.

Here, a Canadian oil producer had to rehabilitate an old NPS 14 carbon steel pipeline – built in the 1980s – that supplied freshwater from two wells to a bitumen recovery facility.

However, several buildings and other pipelines were in the way. At the same time, sections of the old line were under 25 feet of soil, and the terrain included muskeg.

The swampy ground, the burial depth and the need for expediency led to pulling 4,000 ft of spoolable 10in 1500 PSI pipe – supplied by FlexSteel – through the old, buried pipeline. This pipe-in-pipe installation minimised the amount of excavation and disruption above ground. The new pipe was pulled through the old one in five days. The entire 4000-ft line was restored to production a short time later.

FlexSteel received its award from the energy piping division of PPI.

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- > <https://strohm.eu>
- > www.egeplast.de
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IMAGE: SHUTTERSTOCK



Although PVC recycling rates in Europe are falling, several schemes to recover PVC pipes and medical products are thriving

Vinyl analysis: latest news in PVC recycling

Recycling rates of PVC in Europe fell again in 2024, according to **VinylPlus**.

For the full year, it says nearly 725,000 tonnes of PVC waste were recycled in the EU-27, plus Norway, Switzerland and the UK – a fall of around 2%. This represents around 25% of all PVC waste generated in Europe, it said.

Of the total, 61% was pre-consumer waste – where factories reprocess their own waste internally – and 39% was post-consumer waste (where PVC is collected after use). In 2023, pre-consumer recycling fell by just over 2%, while post-consumer recycling rose by 7%.

Recycling of ‘flexibles’ fell by almost 20% in 2024. Recycling of ‘rigid film’ was stable at around 20,000 tonnes. At the same time, recycling of rigid film fell 17%. However, the bulk of PVC is used in profiles and pipes – where recycling increased in both cases. In profiles, it rose about 1%, while for pipes it rose by 10%.

VinylPlus said reasons for the decrease were: a downturn in the construction sector, which reduced the availability of PVC waste for collection; more competitive prices of virgin PVC; and increased imports of non-EU virgin and recycled PVC.

“Despite the challenges in 2024, PVC waste recycling remained relatively stable,” said Charlotte Roeber, managing director of VinylPlus. “Reasons for this include committed and stable sourcing of recycled PVC – as an increasing number of companies has circular operations.”

Demand for recycled PVC (rPVC) grew more than 4% compared to previous year, said VinylPlus – with uptake of rPVC from converters up to around 490,000 tonnes in 2024.

The VinylPlus 2030 commitment has a target to recycle 900,000 tonnes/year of PVC by 2025 – which would need a 24% increase this year – and 1 million tonnes/year by 2030.

However, this year it says it will launch “a

Main image:
PVC recycling
fell again in
Europe last
year

comprehensive review of its 2030 targets...to take into account market and technical developments” and “the evolution of the regulatory framework”.

Medical recovery

At the *Medical Tubing and Catheters* conference in April – organised by **AMI** – Tobias Johnsen of VinylPlus told delegates about a new platform for recycling medical PVC, called Vinyl Healthcare. This brings the activities of PVCMed Alliance – which has been discontinued – together with VinylPlus Med and VinylPlus PharmPack, which recycled medical devices and pharmaceutical blister pack, respectively.

One activity is scientific research – including a project called PVC Loop, looking at the recyclability of flexible PVC. The project has found that flexible medical PVC can be recycled up to six times without loss of quality.

“Scientific literature offers limited insight into the recyclability of flexible PVC,” said Johnsen.

Spanish institute **Aimplas** was commissioned to test how many times flexible PVC medical tubing can be recycled. This included tubing for IV applications and blood and dialysis systems.

Tubing was recovered, shredded, micronised and then either extruded into pellets or injection moulded into test bars – for six cycles.

Tensile strength and plasticiser content remained stable, and there was only minor degradation in static thermostability after the fourth cycle. Dynamic thermal stability confirmed material durability. There was slight yellowing seen after six cycles – which was aesthetic, not functional, he said.

He also cited a complementary study from BASF, which showed that a different PVC-P composition maintained thermostability for up to 11 extrusion cycles – though light yellowing was noticeable after six cycles.

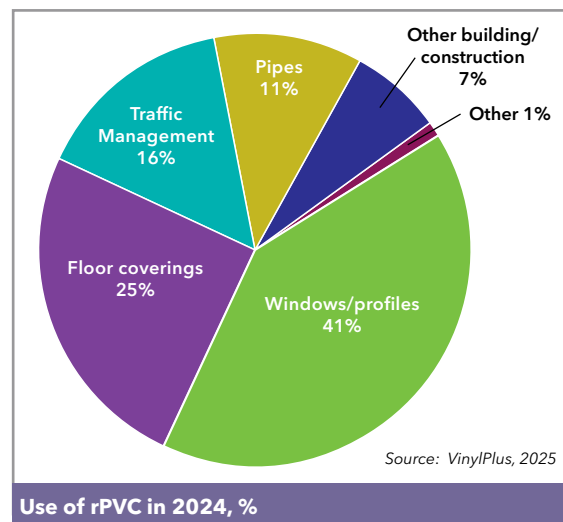
Pilot programme

A pilot programme to collect and recycle post-patient PVC medical devices by establishing a dedicated collection system was launched in the US last October by **Westlake Global Compounds**, a PVC compounding subsidiary of Westlake.

The Choose Pink pilot programme, created with Houston Methodist hospital in Texas, collects single-use healthcare items such as nasal cannulas and masks, oxygen tubing and saline bags from the hospital’s outpatient department.

The collected material is sent to Westlake Dimex, a facility in Ohio that compounds recycled polymers.

“This pilot programme is an opportunity for our



clinical technicians to divert a substantial amount of material from landfills and into a system where these items may be reformatted for other uses,” said Jason Fischer, director of the office of sustainability at Houston Methodist.

The materials will be reprocessed into durable consumer and industrial products such as commercial and retail runner matting, exercise equipment matting, dock edging for marine applications and cord protection products for electrical and cable management applications, which will reduce the hospital’s carbon footprint said Andy Antil, general manager at Westlake Dimex.

“Once a truckload of the Choose Pink PVC is collected, it is transported to Westlake Dimex – where it is weighed, reground, reused and processed into new products,” he said.

R-PVC in pipe

The European Plastic Pipes and Fittings

Association (Teppfa) has released Life Cycle Inventory (LCI) datasets for two types of recycled PVC – micronised powder and flakes – that are commonly used to make PVC pipes.

The project began in April 2024, with the participation of four European PVC pipe recyclers. Teppfa began it in response to requests from LCA practitioners in the PVC pipe sector. It uses data that is representative of the European market for both r-PVC

micronised powder (500–650 microns) and r-PVC flakes, it says. The resulting datasets reflect an average profile of r-PVC production in Europe.

The datasets have been externally peer reviewed and are compliant with the ISO 14040/14044 Life Cycle Assessment (LCA) standards, says Teppfa.

Project objectives included: to provide peer-reviewed datasets for the main PVC recyclates used

IMAGE: VINYLPLUS

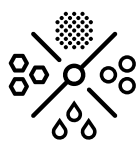


Above: Roeber:
“Despite challenges in 2024, PVC waste recycling remained relatively stable”

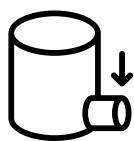


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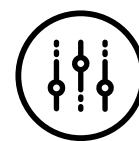
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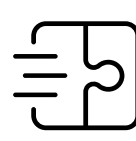
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in rigid PVC pipe; to allow Teppfa members to incorporate eco-design principles into their operations; and to facilitate the development of Environmental Product Declarations (EPDs).

The datasets enable the calculation of environmental indicators including climate change impact, resource consumption and water and energy use. They can be downloaded from Teppfa's website in Excel and ILCD formats, allowing integration into LCA software platforms and EPD generation tools for PVC pipes.

The study was carried out by Ecoinnovazione, an Italian LCA consultancy, and co-sponsored by VinylPlus.

"These datasets will enhance the credibility and comparability of our members' environmental assessments," said Ludo Debever, general manager of Teppfa. "By promoting increased use of recycle in new PVC pipe, we are taking significant steps towards greater industry circularity."

Raising recycle

UK-based **Polypipe Building Services** has raised the use of recycle - including PVC - in its products to 32%, after investing in new equipment. This exceeded its target of reaching 28% by the end of 2024.

The company has bought in two new extrusion lines and materials handling equipment. This complements other sustainability initiatives such as its prefabrication service, which reduces on-site fabrication waste and enables smart scheduling.

"With two brand new extruders, we're able to run both rework and post-consumer recycled material, increasing our recycling capability and

efficiency," said Andy Martin, manufacturing director at Polypipe Building Services.

One extrusion line was upgraded, while the second is completely new.

"The key aim was to create a three-layer pipe with inner and outer skins made of virgin PVC, with the core comprised of recycled material - making up to 65% of the pipe's material content," he said.

Customers also benefit from an on-site waste recycling scheme. Recycled materials are processed at the factory and used in Polypipe products, improving the carbon footprint of construction projects and cutting the amount of landfill.

ADS expands

US-based **Advanced Drainage Systems (ADS)** has begun expanding its recycling facility in Georgia.

The US\$30 million expansion to its recycling facility in Cordele, Georgia will expand its size to 117,000 sq ft and will create up to 50 new jobs. The plant will supply recycle to the company's factories in the south-east of the US.

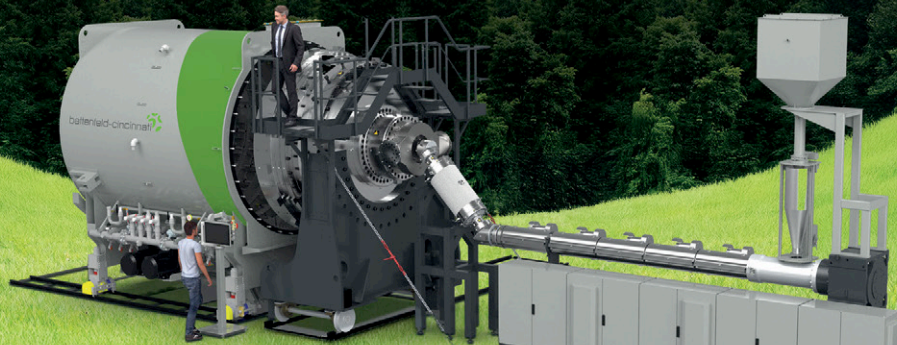
"This new facility will enhance our recycled plastic production, enabling us to lead the industry and set new standards for innovation and sustainability," said Scott Barbour, president and CEO of ADS.

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- > www.amiplastics.com
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Recovery mode: plastic recycling and granulation

Advances in recycling on show at K2025 include an updated single-shaft shredder, a re-engineered pulverizer and a granulator that claims to cut energy consumption in half

Sustainability will form a major part of this year's K show in Dusseldorf - with many exhibitors showcasing new and improved way to recover and reuse waste polymers.

CMG Granulators will showcase a broad portfolio of ancillaries - including granulators and shredders - during K2025.

Its EV Evolution Series is engineered specifically for post-consumer plastics. Each model is optimised to reduce energy utilisation by up to 50% compared to conventional granulators, through advanced cutting geometries, unique rotor design, and intelligent drive systems, says CMG. These provide high energy efficiency and low total cost of ownership (TCO).

This year's highlight is the EV 92-220. Designed for heavy-duty applications and large volume streams, it features a new cutting chamber architecture and advanced control integration, for enhanced reliability under high loads.

"The launch of the EV 92-220 marks a technological milestone and a statement of intent - a commitment to transforming waste into value at scale," said Giorgio Santella, CEO of CMG.

In addition, it will launch the G55 granulator line for high-capacity applications. The standard configurations of the new series cover capacities from 700 kg/h to 1,300 kg/h. The G55 line comprises two models: G55-90 and G55-120. These include integral sound enclosure and an innovative feed hopper design that accommodates a variety of shapes and dimensions of parts that can be granulated. Energy utilisation is 25 Wh/kg - around half that of conventional solutions, it says.

CMG is also introducing evacuation, dedusting



IMAGE: CMG

and powder containment systems. These Re grind Evac Systems start at a capacity of 200 kg/h and, in 10 different sizes, reach a capacity of 7,000 kg/h.

The systems operate under full vacuum, so regrind material is evacuated from the granulator and gently conveyed to a cyclone receiver and through a dedusting chamber - all under negative pressure. The regrind is deposited in a storage bin, gaylord or big-bag while the powdery air is handled by a self-cleaning filter unit.

Mechanical advantage

Herbold Meckesheim - a brand of Coperion - will showcase several advances in plastics recycling - including granulation, drying and purification.

Its latest innovation, the T 150-300 mechanical

Main image: CMG will showcase a series of new granulators and shredders during K2025

Right: Herbold Meckesheim will showcase several granulation and drying advances at K2025

dryer, debuts in a new size at K2025. It has a fully redesigned construction, including a rotating sieve basket with integrated water spray nozzles for full-coverage cleaning and a centrifugal drying chamber for rapid moisture removal. Designed for maintenance simplicity, it is equipped with hydraulically hinged housing for quick access and advanced monitoring systems supporting predictive maintenance.

In addition, it will showcase its SMS 80-200 granulator – the largest model in the series – which is built for demanding applications. It integrates energy-efficient double cross-cutting action and pre-adjustable rotor and bed knives to produce high-quality regrind with minimal fines and consistent particle size distribution. A hinged housing and quick knife change system help to reduce downtime and operational costs.

A forced feeding system – via three horizontally mounted screws – enables a high throughput of PET and rigid plastics, making it ideal for large-scale recycling. The SMS series is optimised for a range of materials and ideal for the size reduction of standard applications in the recycling industry, as well as special processing needs – such as heavy lumps, thin films, or substantial amounts of material.

At Coperion and Herbold's recycling pavilion, a Herbold hydrocyclone separation stage – a key component designed to deliver precise material separation through centrifugal forces – will be seen with a Coperion ZSK FilCo filtration compounder. Herbold's hydrocyclone stage enhances the purification of plastics during recycling, extending equipment lifespan and improving product quality.

Joint venture

Lindner and **Erema** will show some of the fruits of their BlueOne joint venture in plastics recycling – which includes shredding, sorting, washing, drying and extrusion technologies.

By combining their expertise, the partners say they have optimised the whole process of recycling in terms of factors such as energy efficiency, throughput, plant design and recyclate quality.

One example is a jointly developed method that considers the entire process

chain when designing a recycling plant. It considers how material losses and rejection quantities during recycling affect the final recyclate quality.

"The capacity of individual components plays a minor role when designing recycling plants," said the company. "The focus here is on the interplay of the entire process chain."

They have also developed a process-oriented HMI dashboard that displays

all critical plant parameters in real time. This adaptive interface supplies staff with information about current utilisation, likely bottlenecks and the potential for optimisation. They can then use the information to respond to the issue and monitor the automatic intervention. The integrated transparency supports a stable, data-driven plant operation, forming the basis for future automated interventions and condition-based maintenance (CBM), they said.

Size reduction

Neue Herbold, which offers size reduction and recycling machinery, will showcase its recently re-engineered ZM 800 Pulverizer at K2025.

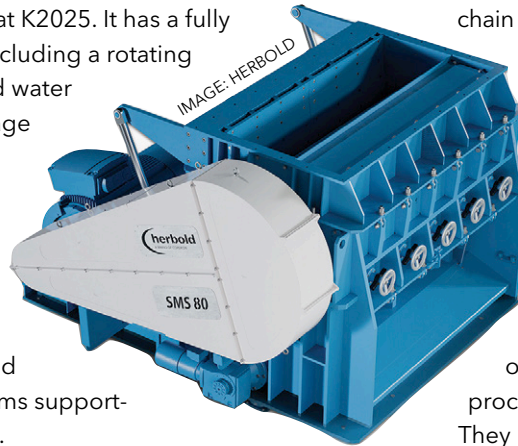
One major update is the optimisation of its housing. In the past, machines of this type were made with a round housing on a platform – but now the new housing has a curved design. The reason for this is that the material's angular momentum is used for the discharge, as it is pre-accelerated for the subsequent air conveyance. This results in higher throughput rates, while the energy consumption is unchanged.

Standard machine extensions like the vibro-feeder or mounting bracket for the vacuum feeder blend into one compact machine concept. Meanwhile, all parts offer good accessibility. The machine also has an optimised door lock, which operates efficiently and with less space requirements. Cables, connections and sensors are now housed in one central processing unit, while the control unit for the water injection is now placed in a dust-proof, splash-proof housing.

The clear design and the compact construction offer simple operation as well as easy maintenance for customers, says the company.

Shredder update

Weima will present the latest version of its W5 single-shaft shredder series at K2025.



Below: Neue Herbold will showcase its re-engineered ZM 800 Pulverizer at K2025



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One highlight of the W5.22 is a wider inspection flap, offering more space for maintenance work. In addition, access from the rear is now automatic and the swing arm can be locked more conveniently, which speeds up maintenance.

The new diagonally mounted signal tower, which can also display the hopper fill level if required, ensures greater transparency during operation.

The measuring machine has a high-torque drive including servo controller – a new development from Baumüller in collaboration with Nidec Desch. This direct drive solution is designed for demanding applications with difficult-to-shred plastic fractions. This arrangement achieves high torque even at low speeds. Thanks to a connection between the drive and rotor shaft, the power transmission is optimised to allow higher drive power. The drive system enables cost-saving operation and sustainable production.

The W5.22 processes hard plastics, films and fibres, plus a variety of other materials. A rotor with a length of 2,200mm and a diameter of 500mm ensures effective shredding. The redesigned swing arm pusher ensures better material guidance during

shredding, while the redesigned table surface ensures more aggressive material feed and raises power transmission by up to 20%, says the company.

Customers can choose from several drive concepts to adapt the machine to their own processes. A hydraulic drive is particularly suited to applications with frequently changing loads. The robust drive ensures high torques with a low kW output.

Patrick Hensler, sales director at Weima, says that confidence in post-industrial recycling is high.

“A pipe manufacturer, for example, has their own production waste,” he said. “This is clean and does not incur the same high costs as post-consumer waste. There is pressure to recycle post-production waste, to avoid disposal costs. Companies would rather invest in a recycling solution than cope with high logistics cost every month.”

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Plant growth: advances in extruder technology

New machine technologies at K2025 include a multilayer pipe head to process recycled PVC, a piggyback extruder arrangement and a new way to make dynamic weather seals

It's no surprise that extruder manufacturers have been saving their new launches for K2025, with a variety of new machines and ancillaries – such as tooling – making their debuts.

Davis-Standard will exhibit under a single umbrella at this year's show – with its flagship product brands Battenfeld-Cincinnati, Maillefer, Exelliq and others.

"This is our first time exhibiting as one company in the same booth," said Steve Andrews, chairman and CEO of Davis-Standard. "We're focused on finding the best solutions for our customers, regardless of brand. Achieving operational excellence through integration of our global equipment platform is essential."

For its part, **Battenfeld-Cincinnati** will present a piggyback extruder arrangement at K2025, in response to increasing demand to process virgin and recycled polymers at once.

The demo will show a TwinEx 78 and ConEx NG 65 with a flange-mounted multi-layer coextrusion die from sister company Exelliq.

"Around 90% of all enquiries for window profile extrusion are for coextrusion systems," said Gernot Dorn, sales director at Battenfeld-Cincinnati Austria.

Piggyback arrangements make sense when coextrusion is needed in a relatively small production space. At the show, the main extruder is a parallel twin-screw extruder that scores well in PVC processing with a high output thanks to its 34D-long processing unit and optimised screw geometry. An Intracool screw cooling system and the air power cooling system in the barrel ensure precise temperature control and good melt and product quality. The ConEx mounted on top of the TwinEx is from the new NG generation. With an extended preheating zone and optimised screw design, it

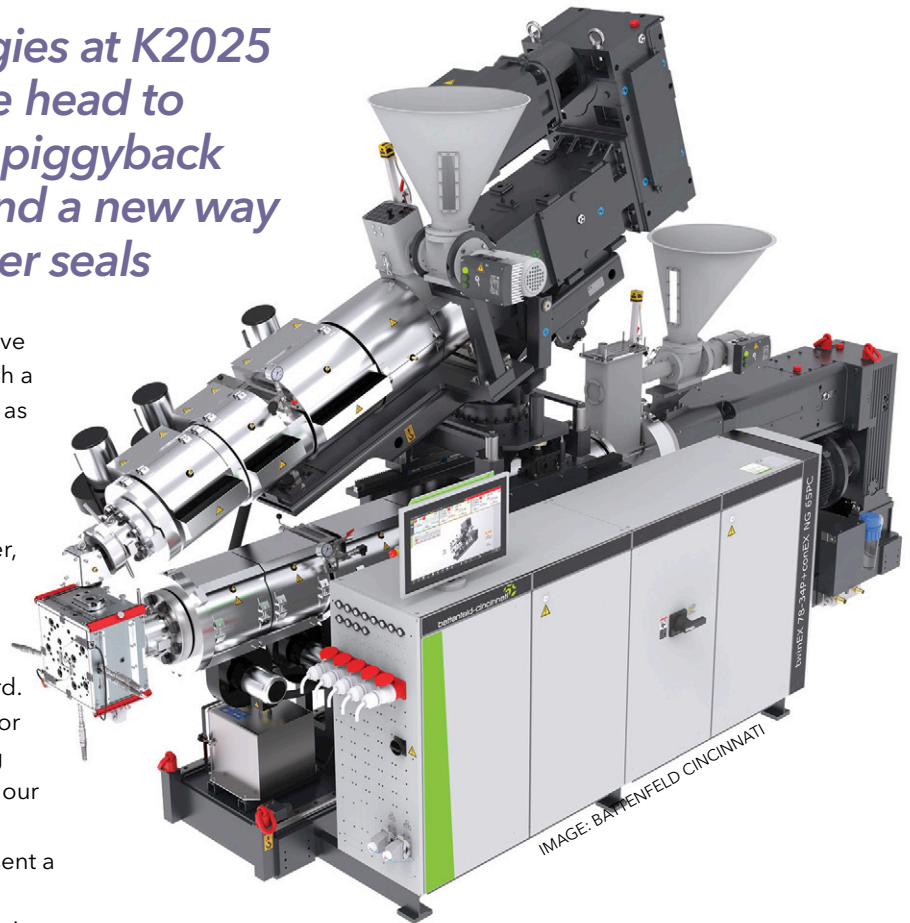
delivers high output rates and low shear input. Both extruders can process c-PVC, modified PVC types, recyclates and polymers with low bulk densities.

In addition, a mono pipehead from the revised Spider NG series will be on display. The series is known for its high throughput rates and good wall thickness distribution. Dimensional changes can be made quickly with an innovative nozzle clamping system.

The latest revision has a modular design, allowing the customer to choose between different volumes and with or without compression stage. The support carriage can also now be equipped with a hydraulic or electric swivel device.

The company has also completed its SolEx single-screw extruder series with the SolEx NG 105.

The series already comprises the 45, 60, 75, 90 and 120 models, so the new model fills the gap between the two largest extruders. The 105 model,



Main image:
Battenfeld-Cincinnati will demonstrate a piggyback extruder arrangement at K2025

Right: Maillefer and Celanese have cooperated to produce TPV automotive weather seals

with a length of 40D, covers a performance range from 1,680 to 2,100 kg/h.

The new machine has its own internal water supply, which is filled once with water including corrosion protection. Previously, it was usually supplied with water to cool the processing unit, gearbox and motor via the service water pipe in the processing plant. This can have disadvantages, such as impurities in the water (like sand) clogging the cooling channels. This is solved by the dedicated water supply, which is mounted on the extruder.

"The extruder's own water circuit is so convincing that we will provide it for all models in future," said Heinrich Dohmann, director of mechanical engineering at Battenfeld-Cincinnati.

All NG SolEx extruders have a processing unit with internally grooved barrel, combined with a matching screw and grooved bush geometry, giving a reduced axial pressure profile - which reduces machine wear. In addition, high specific output rates at low screw speeds reduce melt temperatures by around 10°C. This enhances final product quality and results in energy savings. NG models achieve around 25% higher output when processing HDPE and 40% with PP compared to predecessor models, it says.

Dynamic seals

Maillefer and material supplier **Celanese** have developed a new concept for producing automotive dynamic weather seals from TPV, which will be showcased at K2025.

Most dynamic weather seals can be complex to manufacture. They are made of EPDM rubber and other polymers and are structured in layers. They are various shapes, include functional parts, can be foamed or solid and may include a metallic reinforcement. These types of seals are challenging to recycle - and can also be heavy.

For this project, Maillefer combined its expertise in multi-layer, multi-compound extrusion with Celanese's materials knowledge. The goal was to devise an industrialised solution for both the processing equipment and the material formulations.



They have set up an extrusion line for the project in Switzerland.

"We begin by processing a simple U-shaped profile with up to three Santoprene TPV grades and formulations, simulating three different functionalities," said Pascal Scaramuzzino, global product manager at Maillefer, who leads the project.

This will lead on to a co-extruded foamed bulb construction, also with three different formulations.

The eventual aim is to make a sustainable weather seal that is easier to process and recycle, more cost-effective and weighs less on electric vehicles.

Tool solutions

US-based **Guill Tool & Engineering** will showcase several of its tool and die solutions at K2025.

One, called Cam-Lock, is an extrusion head that eliminates fastening hardware with a fixed centre design, multi-port spiral flow and gum space adjustment. Originally developed for the company's Bullet tool, it is now available on many of Guill's extrusion heads

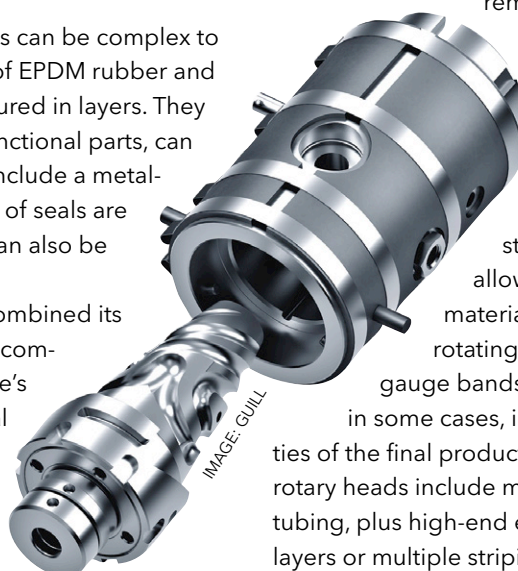
The design allows quick, easy assembly and disassembly of the crosshead and eliminates the need for socket head caps screws. By removing and replacing the internals, a different profile can be extruded in minutes rather than hours. Resetting the internals in the right configuration every time minimises the chance of assembly and misalignment issues, compared to when using torqued socket set screws. It takes half a turn to

remove and install the deflector tip, with no fastening hardware needed.

By rotating the tooling in relation to the material flow, the new rotary head design increases the wall strength of an extrusion, allowing a thinner wall with less material. Benefits include only

rotating the die, randomising any gauge bands or thickness variations and,

in some cases, improving material properties of the final product. Typical applications for rotary heads include medical and multi-lumen tubing, plus high-end extrusions with interlocking layers or multiple striping requirements.



Right: Guill will showcase its Cam-Lock extrusion head at K2025

In addition, the company has added to its rheology lab with a new facility focused on test extrusion processes. Measuring the flow characteristics of plastics and rubber allows users of the rheology lab to predict how a material will behave, virtually optimise tool geometry and see their project in 3D CAD. The extrusion lab offers single and co-extrusion capabilities with validated Guill designs. Access to processes such as rotary die extrusion of filament and tubular end-products is also available.

Multilayer pipe head

At K2025, **KraussMaffei** plans to showcase a new multilayer pipe head, which it says can process up to 100% recycled PVC – even with varying material quality.

The layer configuration can be adjusted depending on the application, while a new flow system prevents spiderlines and ensures consistent product quality with optimal material usage, says the company

In addition, its new PPC (Pioneer Process Control) system claims to bring greater clarity and efficiency to extrusion processes. Instead of

complex operating logic, PPC relies on intuitive processes, structured user guidance and a unified user interface. This shortens the learning curve, reduces the training required and makes everyday production easier. Its modular design enables use across all extrusion tasks – from film and foam to pipe and profile, says the company.

Integration into existing systems is easy. Interfaces for connecting to third-party devices – such as metering devices, measuring systems and higher-level systems such as MES or DCS – enable the central operation and monitoring of entire systems. This ensures greater transparency and process reliability.

Meanwhile, **Rollepaal** says it will host a series of presentations at K, called Extrusion Exchange. These short talks are designed to “spark conversation, deliver actionable insights, and raise the level of shared expertise”, it says.

“We believe innovation is fuelled by collaboration,” said Patrick van Bezouw, commercial director at Rollepaal. “This is our initiative to foster dialogue and knowledge-sharing within the industry.”

The initial lineup includes speakers from Teppfa, Baerlocher and Pipelife. ➤

hansweber.de/extrusion

WEBER extrusion

The power behind plastics

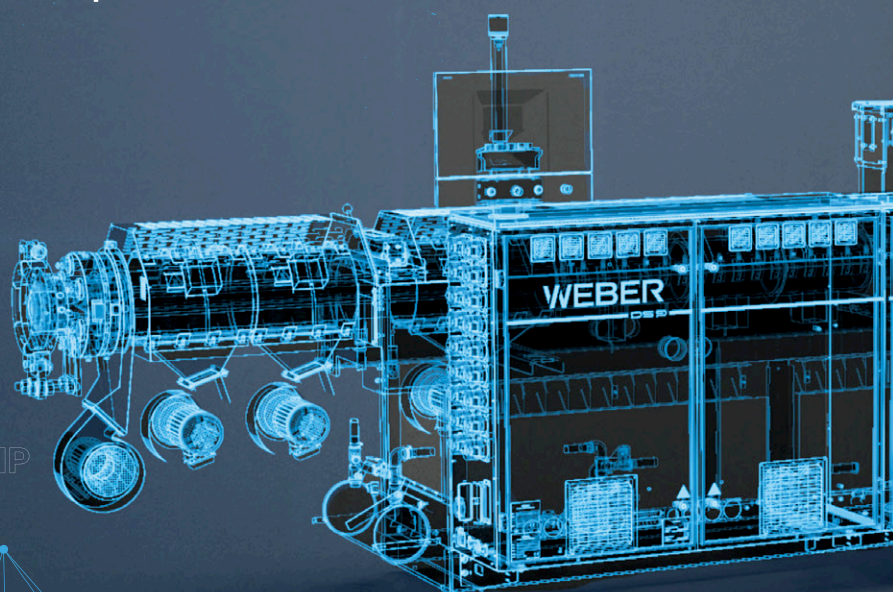
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Right:
Tecnomatic
says direct
compounding
can cut the cost
of pipe
extrusion

Direct approach

Tecnomatic says that direct compounding – using a corotating twin-screw extruder – can improve the quality of polypropylene (PP) multilayer pipes.

It ensures a homogeneous blend of PP and filler materials – such as barium sulphate (to improve acoustic insulation) and calcium carbonate (to enhance the rigidity and durability of sewage pipes).

The company has devised a line that uses direct extrusion, dosing systems, co-extruders and a multilayer die-head.

Direct compounding can simplify production workflow and reduce costs – by eliminating the need for pre-compounded materials. The ability to adjust filler content and composition on-the-fly allows for quick adaptation to market demands and specific project requirements, it says.

Other benefits of direct compounding, according to Tecnomatic, include: increased flexibility, as manufacturers can adjust formulations in real-time; lower inventory costs, as there is no need to stock multiple grades of pre-compounded materials; lower energy consumption, as there is less need for material handling and preparation; and reduced waste, as dosing systems use the exact amount of each component needed.

Flexible line

Bausano says its Eon range of conical twin-screw extruders was developed to handle two very different types of production – rigid corrugated PVC pipe and PVC profiles.

The machines are engineered to ensure high melt quality, stable output and good surface finish – even with recycled or mineral-filled

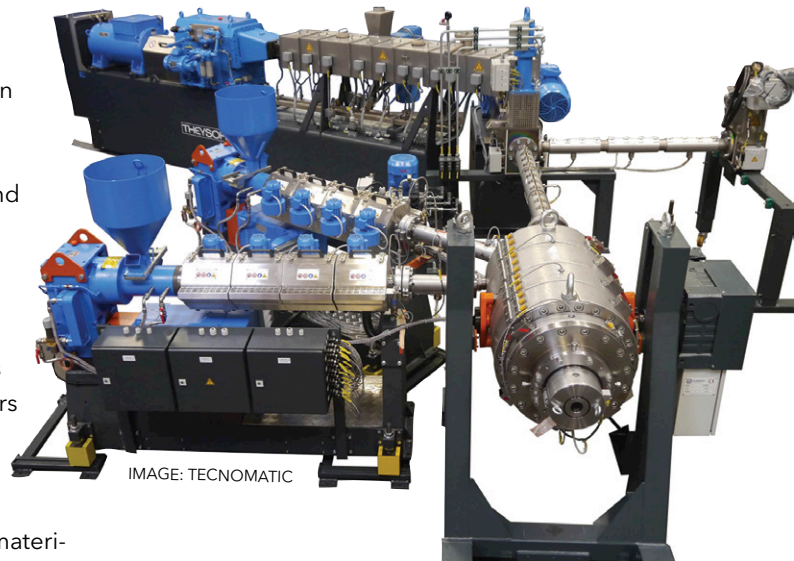


IMAGE: TECNOMATIC

compounds, says Bausano.

“This dedicated line is tailored to meet the technical needs of both production types,” said Massimiliano Fenili, technical sales manager at Bausano.

While corrugated pipe extrusion needs constant pressure, perfect fusion and low scrap rates, profile production requires continuous extrusion, a good surface finish and compatibility with multiple formulations.

For PVC corrugated pipe, Eon machines have an output of 50-400 kg/h, which is ideal for direct coupling to the corrugator. It also has stable thrust – even with highly mineral-filled formulations – and optimised fusion, to avoid defects during cross-section transitions.

The company currently offers three models: Eon 53 (23 kW), with a 50-150 kg/h output for pipe; Eon 63 (36 kW), with a 50-270 kg/h output; and Eon 80 (69 kW), with 150-400 kg/h.

Each model is equipped with: nitrided screws and barrel, with bimetallic options available; dry vacuum system, induction heating, and parallel shaft gearbox with oil cooler; IoT-ready control for real-time monitoring and energy optimisation; and a modular machine frame for fast configuration and integration.

Right: Bausano's Eon conical
twin-screw extruders
are aimed at rigid
corrugated PVC pipe



IMAGE: BAUSANO

CLICK ON THE LINKS FOR MORE INFORMATION:

- > www.davis-standard.com
- > www.battenfeld-cincinnati.com
- > www.maillefer.net
- > www.celanese.com
- > www.guill.com
- > www.kraussmaffei.com
- > www.rollepaal.com
- > www.tecnomaticsrl.net
- > www.bausano.com



Extruders' guide to 2025

Materials, machinery and ancillaries

The world's largest, most international plastics trade fair opens next month, in Dusseldorf in Germany. K2025 will host the latest innovations in plastics materials, machinery and services. However, it's a huge event that's best approached with a plan: our pre-event coverage will help you get the most from your time there.

In this issue, we look at some of the planned introductions in materials, machinery and ancillaries that are likely to interest pipe and profile extrusion companies. Over the next six pages you can find details on some of the latest developments in resins, additives, extruders, dies and control systems – as well as a variety of ancillary products.

Messe Dusseldorf, which organises the show, says the plastics industry has faced a "global crisis" since K2022. In response, it says K2025 will showcase a "plethora of new and further technological developments" – as digitalisation and artificial intelligence (AI) emerge as key themes.

Machine-to-machine communication has long been an issue in mechanical engineering. Connected machines have been available on the market for several

years, providing a large volume of process data. At K2022, a key discussion topic between machine manufacturers, processors and end customers was who ultimately owns this data. The EU Data Act has provided clarity here, as it obliges machine manufacturers to make data generated during operation available to the machine user in a simple and comprehensible machine-readable form. OPC UA standards, which have become widespread in recent years, are ideal for this purpose, says Messe Dusseldorf. The advantages of such connected machines are also increasingly being recognised by customers. Developments in this area go hand in hand with increasing demands of this kind.

This development is being given a boost by AI – with several solutions and products expected at K2025. Examples include: automatic design and process optimisation; predictive maintenance; and optical quality control.

Further technical innovations will be seen in the field of 'digital twins', which can store machine data and information in a structured, machine-readable way over the entire service life. They

are particularly suitable for fulfilling the requirements of the Digital Product Passport (DPP), which was introduced with the EU Ecodesign for Sustainable Products Regulation (ESPR) coming into force in July 2024, says Messe Dusseldorf.

If you are planning to attend the show but are yet to finalise your travel and accommodation, it is not too late. But you should act fast. There are some useful weblinks at the foot of this page and plenty more in the '**First Look**' article in the July/August issue of our sister magazine *Film & Sheet Extrusion*.

The *Pipe & Profile Extrusion* and AMI magazines team will be at the show for the full eight days and will be gathering information for our post-event coverage in the Winter edition. We will also be reporting on the latest news and innovations as they happen via our @PlasticsWorld feed on Twitter. If you want to be sure you keep in touch with developments join the more than 24,000 people already following us.

Dates: 8-15 October 2025

Venue: Dusseldorf Fairground, Dusseldorf, Germany

Hours: 10:00 to 18:30 daily

Advance tickets: One-day €60, three-day €125.

Note: ticket price no longer includes free local transport

Organiser: Messe Dusseldorf

Website: www.k-online.de

Use the following links to go direct to essential show information:

- **K2025 hotel booking**
- **K2025 online ticket purchase**
- **K2025 exhibitor search**
- **K2025 iOS/Android apps**



Right: The three-layer pipe head from Battenfeld-Cincinnati uses its IOA system for automated pipe centring

Masterbatch specialist **AF-Color** will present several innovations at K2025 – with a focus on its growing portfolio of polyketone-based products.

Polyketone has high chemical and abrasion resistance plus high CO₂ balance compared to other thermoplastics, it says. The range of colour masterbatches for polyketone offers good processability and colour qualities. This is complemented by cleaning granules for use after polyketone. A UV stabilisation method is undergoing trials, which could make the use of polyketone even more versatile in future, it says.

AF-Color will also showcase polyamide-based masterbatches with high mechanical strength, toughness and thermal resistance. One highlight is a masterbatch coordinated according to RAL 2003 for electromobility components. For laser-marked components, it offers a laser additive which – combined with a black masterbatch, for example – enables high-contrast, precise laser markings. A blowing agent enables a density reduction of up to 40% in PA components.

The company also offers PCR-based masterbatches which, combined with recyclates from its sister company Bio-Fed, enables solutions that combine technical performance with high PCR content.

➤ www.af-color.com

Battenfeld-Cincinnati will present IOA (Intelligent Operating Adjustment), a system for automated pipe centring that reduces operating effort and optimises material usage. The ball joint-based technology enables sensitive adjustments without interrupting flow – or requiring manual intervention. In combination with digitally stored process parameters, smart measuring systems and reproducible processes, IOA it contributes to intelligent, responsible production, says the company.

In addition, its PullStream B63-1000 WS belt haul-off is ergonomic and user-friendly. A cover that opens completely makes maintenance and process adjustment easy, which is an advantage for everyday operator use. The integrated cross adjustment of the upper belt ensures consistent pipe quality, even at speeds of up to 300 m/min. The Intracool screw cooling system and air power

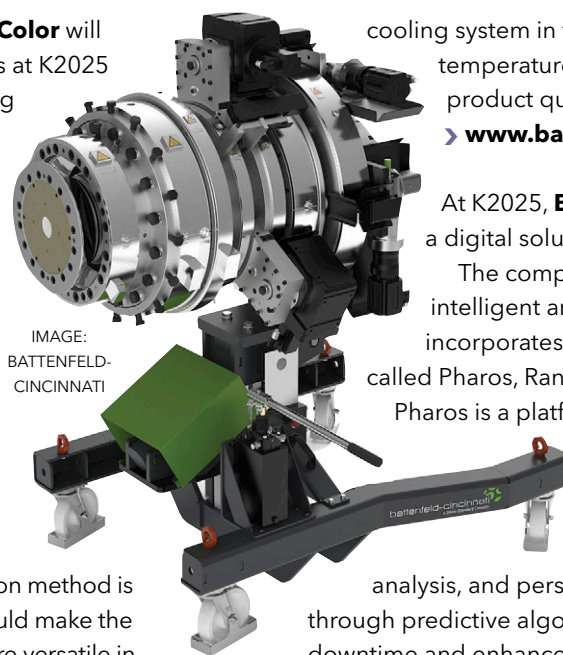


IMAGE:
BATTENFELD-
CINCINNATI

cooling system in the barrel ensure precise temperature control for good melt and product quality.

➤ www.battenfeld-cincinnati.com

At K2025, **Bausano** will unveil Sphera, a digital solution for pipe extruders.

The company describes it as “an intelligent and modular ecosystem”. It incorporates three separate applications called Pharos, Ranger and Scout.

Pharos is a platform for real-time monitoring of production lines, enabling the tracking of dynamic KPIs, anomaly detection, historical data analysis, and personalised recommendations through predictive algorithms. It helps prevent downtime and enhances plant performance, says Bausano.

Ranger is a virtual assistant powered by conversational AI and machine learning that guides operators in their daily use of the lines, delivering immediate technical support and operational guidance. It has self-learning features, supports staff training and ensures compliance with cybersecurity regulations.

Scout is a web portal for the management, selection and procurement of original Bausano spare parts. It is designed to simplify logistics and reduce downtime by ensuring immediate availability of components.

Together, they form a digital infrastructure that supports companies throughout the machine lifecycle – from performance monitoring and predictive maintenance to spare parts management, says Bausano.

➤ www.bausano.com

Benvic says it is reshaping its legacy PVC compounding business to meet the needs of the circular economy – and will highlight new PVC compounds at K2025.

While PVC has proven itself as an effective material in applications such as window profiles, cladding and pipes – it is “time to reassess and re-engineer its role for the future”, says the company. In terms of environmental impact PVC is not wholly sourced from ethylene and – because chlorine is such a crucial component – it can help to cut greenhouse gas emissions, it adds.

“Its biggest and most important environmental contribution lies in its great potential for recycling,” said Luc Mertens, CEO of Benvic. “By emphasising recycled content, we can mitigate carbon loss



through landfilling and incineration and cut greenhouse gas emissions."

Benvic aims to establish an in-house mechanical recycling process that yields secondary raw material (SRM) with good traceability, thorough legacy additive assessments, colour sorting, and specialised testing.

Even this may not create an SRM that meets the rigorous demands of end applications, but Benvic says its recycler-compounder model can help it maintain product consistency and performance.

➤ www.benvic.com

BMSvision will unveil its latest Manufacturing Execution System (MES) technology for the plastics and packaging industries at K2025.

These monitor and synchronise all manufacturing and logistic activities, from order input and inventory management to the delivery of the finished product. The company says its robust 24/7 data capture is rare in the industry. The latest version combines AI-driven intelligence, advanced quality control and sustainability tools, it says.

"Our systems are engineered for reliability even in the most demanding industrial environments," said Jan Bogaert, CEO of BMSvision. "This continuous data capture ensures real-time production visibility, enabling rapid identification of bottlenecks and minimising downtime."

Combining this with energy data allows MES to optimise cost and energy consumption.

www.pipeandprofile.com

"This year, we are adding capability that will allow our customers to analyse more data, automate more and reduce energy consumption," he added.

➤ www.bmsvision.com

Delta Tecnic will show a range of masterbatch and conductive compounds at K2025.

It says its Super Small Pellet (SSP) is a "disruptive

breakthrough" that redefines the standards of colour homogenisation and efficiency in plastic manufacturing. The pellet, much smaller in size than traditional formats, enhances colour uniformity and minimises visual irregularities in the final product, it says. By incorporating more particles per unit area, SSP ensures even coverage, which is advantageous in applications such as

PVC films and profiles. Its ultra-small particle size makes it ideal for use with PVC powder formulations, ensuring good miscibility and colour uniformity.

Another solution to meet the demands of environments where static electricity poses a critical risk is its conductive PVC. The company will showcase its dissipative and semi-conductive materials formulated

Lower Color Consumption and Maintain Color Quality



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- Eliminates line operator QC involvement

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Right: FKUR now offers Paluren - an LDPE made from recycled of beverage cartons by Palurec

with carbon black, NTC or graphene, which prevent problems in sensitive spaces such as operating rooms or manufacturing plants. It will also present masterbatch with metallic fibres that enable the production of dissipative products in colours other than black.

It also offers masterbatch for recycled PVC, which transforms recycled products by providing them with an attractive, uniform finish - allowing their reintroduction into the market and reducing carbon footprint. With a formulation adapted to the features of recycled PVC, the masterbatch corrects the colour irregularities typical of recovered materials. Colours can be customised in standard shades.

➤ www.deltatecnic.com

Exelliq will present automation solutions for plastics processing, including its flexible unloading and loading systems based on its iQ.Stack platform - which is designed to automate profile handling.

When unloading a full rack to feed profile bars into a lamination unit, it separates, aligns and transports the bars. After lamination, it works in reverse, stacking finished profiles into an empty rack layerwise, according to a specified pattern. As well as ensuring process stability, it features large reserves capacities to accommodate high production speeds and large output volumes.

Its compact design allows easy integration into existing production lines and it can be tailored to individual customer requirements.

The company will also highlight co-extrusion tooling that enables the production of profiles made from multiple materials. Precisely engineered flow channels in the die ensure accurate



merging of materials and uniform layer distribution. The technology allows maximum use of recycled materials and allows for versatile colour combinations, which is ideal for applications in the window industry.

Finally, its Extrusion Expert software captures the knowledge of experienced personnel, making it accessible and preserving know-how. With this saved extrusion knowledge, it supports the training of new specialists and can act as a troubleshooting tool.

➤ www.exelliq.com

FKuR will present an expanded portfolio of bioplastics and recyclates at K2025

Highlights include its soil-biodegradable Bio-Flex N grades for agricultural and farming products, which leave no persistent microplastics behind. In addition, it will showcase an expanded portfolio of post-consumer recyclates (PCR) and in-house-developed recyclate compounds, including Paluren - an LDPE from Palurec made from recycled of beverage cartons.

Key features of the new Bio-Flex N series include complete biodegradability in soil and certification according to 'OK biodegradable Soil' by TÜV Austria. Depending on the grade, certification has already been granted or is in progress.

The portfolio includes grades for blown film, injection moulding and extrusion. Bio-Flex N grades are suitable for products that remain in nature after use or cannot be collected again - such as mulch films, plant clips for vegetables, growth tubes for trees, and drainage pipes.

Bio-Flex N 25370 - which is already certified - is suitable for injection moulding and profile extrusion products such as tree guards and growth tubes used in forestry. Despite its high density, it offers good flexibility. Bio-Flex N 45261 is suitable for injection moulding and profile extrusion. Its increased stiffness and strength make it ideal for applications such as clips, plant stakes, and pots.

The company will also show products made from recyclable, bio-based Terralene compounds, as well as from the 'I'm green' bio-based PE and EVA grades from Braskem.

➤ www.fkur.com

Inoex will present measurement and control technologies for pipe and profile extrusion at K2025.

This includes its Warp 125 radar measurement

Below: Exelliq's iQ.Stack is designed to automate profile handling



IMAGE: EXELLIQ

Unlocking the Future of Chlorine-Resistant HDPE Pipes with Irgastab® IS 9050

In a world where infrastructure durability and regulatory compliance are paramount, BASF introduces a breakthrough in polymer stabilization: **Irgastab® IS 9050**. This proprietary additive solution is engineered to meet the evolving demands of pipe - delivering unmatched oxidative resistance and long-term performance of PE pipes used for the transportation of cold-water containing chlorine disinfectants.

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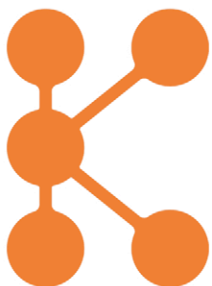
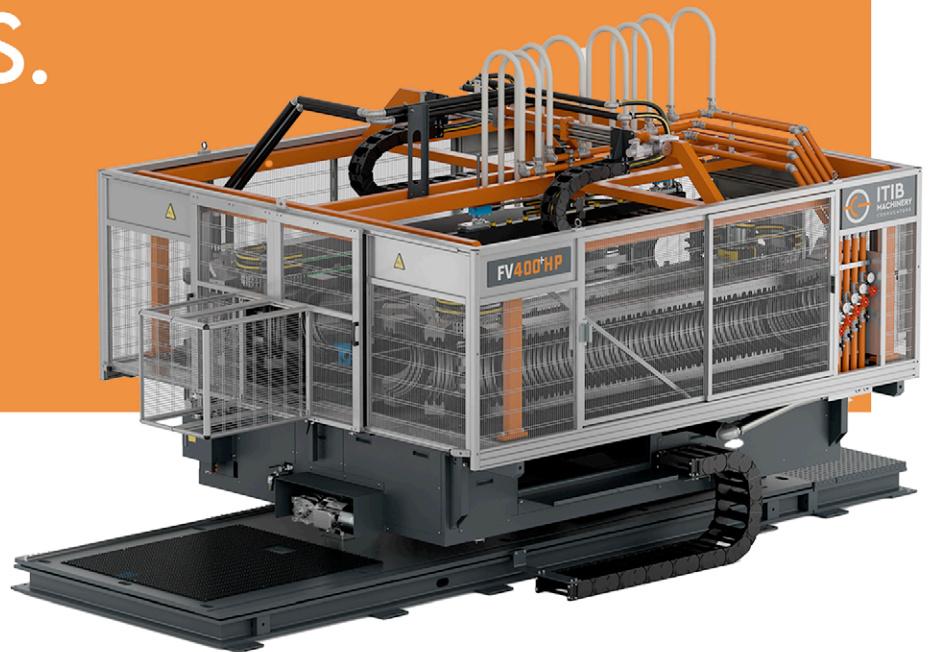
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technology that is designed for single and twin-strand lines – particularly for PVC pipe extrusion. It combines precision with minimal space requirements, says the company.

It is the latest in a line of Warp models – many of which will be seen at the show. Warp 100/630, for instance, is an inline system for measuring pipe wall thickness and diameter at up to 38 points on 19 axes – with more than 1,100 measurements per second. The Warp 100 series is available in three sizes for measurements in the 60–630mm diameter range.

Sensors are arranged so that the measurement spots overlap, ensuring complete coverage in the extrusion and circumferential directions. Variables like wall thickness, diameter, ovality, eccentricity and process conditions (such as sagging) are recorded and documented.

In addition to these commonly recorded measurement value, the Warp 100/630 incorporates AI-based functions to detect errors and help extrusion line operators in case of an imminent or actual error.

Inoex will also showcase: Warp CP, which uses eight radar-based wall thickness sensors to analyse corrugated pipe; and Warp Portable, a radar-based, handheld measuring device for spot wall thickness measurement in medium and large pipe.

Another way to determine pipe dimensions is with iXRay, which measures wall thickness distribution, inner and outer diameter, ovality and eccentricity in single- and multi-layer pipes and hoses. It has spatial resolution and repeatability in the micron range. The X-ray system with three axes delivers precise measurement results even at high line speeds. Standard systems are available for pipe dimensions of 1–63mm.

➤ www.inoex.de

ITIB Machinery of Italy will use K2025 to launch a new corrugator in its HP range.

The FV400+HP is aimed at applications including cable ducts and drainpipes, covering sizes from 90mm OD to 400mm ID. The choice to include the ID, above 400mm OD, is highlighted by the '+' sign.

More space in mould dimensions allows production of pipes with in-line socketing. The range is from 3in ID up to 15in ID for countries that use Imperial measurements.

A key technical feature of the new equipment is

its ability to use the same moulds and tools as the FV200, giving customers greater production flexibility. The latest solutions used in the smaller model are also available in the new one, including: optimised mould path and forming channel; individual mould cooling; and controlled motor torque transmission.

Mould temperature control is included as standard, while all movement and adjustment are done by motors.

ITIB's ongoing R&D activity will cover soon the gap between the F32HP and FV200HP models. A growing demand for small-size, double-wall pipes needs a dedicated corrugator running at high speed – and this will be launched at next year's Plast show in Italy.

➤ www.itib-machinery.com

Motan says its Gravicolor 110 Med gravimetric batch dosing and mixing unit has been specially developed to meet the needs of plastics processors in the medical and pharmaceutical industries. The unit will be seen at K2025.

It can be used for injection moulding, blow moulding and extrusion applications.

Thanks to its slide technology, Gravicolor 110 Med mixes up to four different materials precisely and with high recipe accuracy. Its modular design delivers optimum performance, flexibility and reliability, says Motan.

An integrated and improved IntelliBlend analysis function records the recipe, material and operating environment and documents all process data.

In addition, its Metro G Med material loaders are also designed with the medical and pharmaceutical industries in mind.

The top priorities in the design were the surface quality of the electro-polished stainless-steel body, ease of cleaning and process reliability. Stainless-steel material sieves and special filters with high-quality seals are used – which are suitable for clean room applications.

Motan offers other medical-compliant accessories, for which detailed documentation including factory certification is supplied.

➤ www.motan-group.com

At K2025, **Nordson BKG** and **Fimic** will unveil a newly developed collaboration.

The two companies have combined their



Left: iXRay from Inoex makes precise pipe dimension measurements at high line speeds



IMAGE: PROMIX SOLUTIONS



Above: The Visco P inline viscometer from Promix is now available with a complete control loop

expertise to tackle key challenges in plastics recycling – including melt filtration, pelletising and system integration. The result is a set of solutions that claim to set new standards.

“Our partnership with Fimic shows how collaborative development can set new standards – especially when it comes to the future viability of plastics recycling,” said Christian Schröder, global segment manager for recycling at Nordson BKG.

Nordson is a specialist in melt delivery and pelletising systems, while Italy-based Fimic supplies melt filtration technology.

“Together, we are proving that recycling is not only essential but also technologically exciting and economically viable,” added Erica Canaia, CEO of Fimic.

➤ www.nordson.com

➤ www.fimic.it

Promix Solutions will present its mixing, foaming and cooling technologies at K2025. It will focus on raw material savings with its Microcell technology, and real-time process control and monitoring with the Visco-P inline viscometer.

In extrusion, material accounts for 80% of the CO₂ footprint. Microcell creates a microcellular foam structure in a polymer by adding atmospheric gases, which reduces product weight by 20-50%. It can be used for film, sheet, foam core pipes, profiles and cable sheathing and works for most polymers. As well as saving polymer, it can deliver weight reduction, improve noise or heat insulation and raise shock/impact absorption.

Microcell is available for both new extrusion lines and as a retrofit for existing lines. Its gas dosing system has been equipped with a modernised graphical user interface for easier operation. In addition, an improved grade of Procell nucleation additives is available, ensuring finer cell structures. In higher dosages, it also acts as a foaming

additive. This can be helpful in extrusion lines with low throughputs or for preliminary testing, as additive foaming does not require any changes to the extrusion line.

In monitoring, the Visco-P viscometer allows control of raw material quality and process conditions in real time.

Increasing use of recyclates and raw materials from different sources makes it difficult to keep extrusion processes under control. Visco-P measures actual viscosity under processing conditions and in real time directly in the melt stream, without bypass or loss of material. The maintenance-free measuring module homogenises the melt without the risk of clogging, deposits or decomposition. This makes it applicable to recyclates, as well as filled and shear-sensitive materials.

Visco-P is compatible with all common extruder types and most polymers and can be retrofitted.

➤ www.promix-solutions.com

Qlar – formerly Schenck Process – will present its Simplex FB loss-in-weight feeder at K2025.

The gravimetric stainless-steel feeder has a high feed rate and can be used to dose a variety of materials – from glass and carbon fibres to plastic flakes, cellulose and other new or recycled materials, it says.

“The Simplex FB shows its particular strengths when handling post-consumer material,” said Frederik Hanß, head of sales for chemicals and performance materials for EMEA at Qlar. “Thanks to the bottom-driven agitator and the low centre of gravity, even regrinds or plastic flakes that are difficult to dose can be processed.”

An integrated sensor system allows data to be collected and transmitted in real time. This enables fill level measurement and bridge detection as well as moisture measurement of the material. Possible blockages in the discharge are recognised at an early stage – and jammed material can be removed before a major backlog occurs. Depending on the speed and filling level, optimum operating values for different materials can be determined and saved.

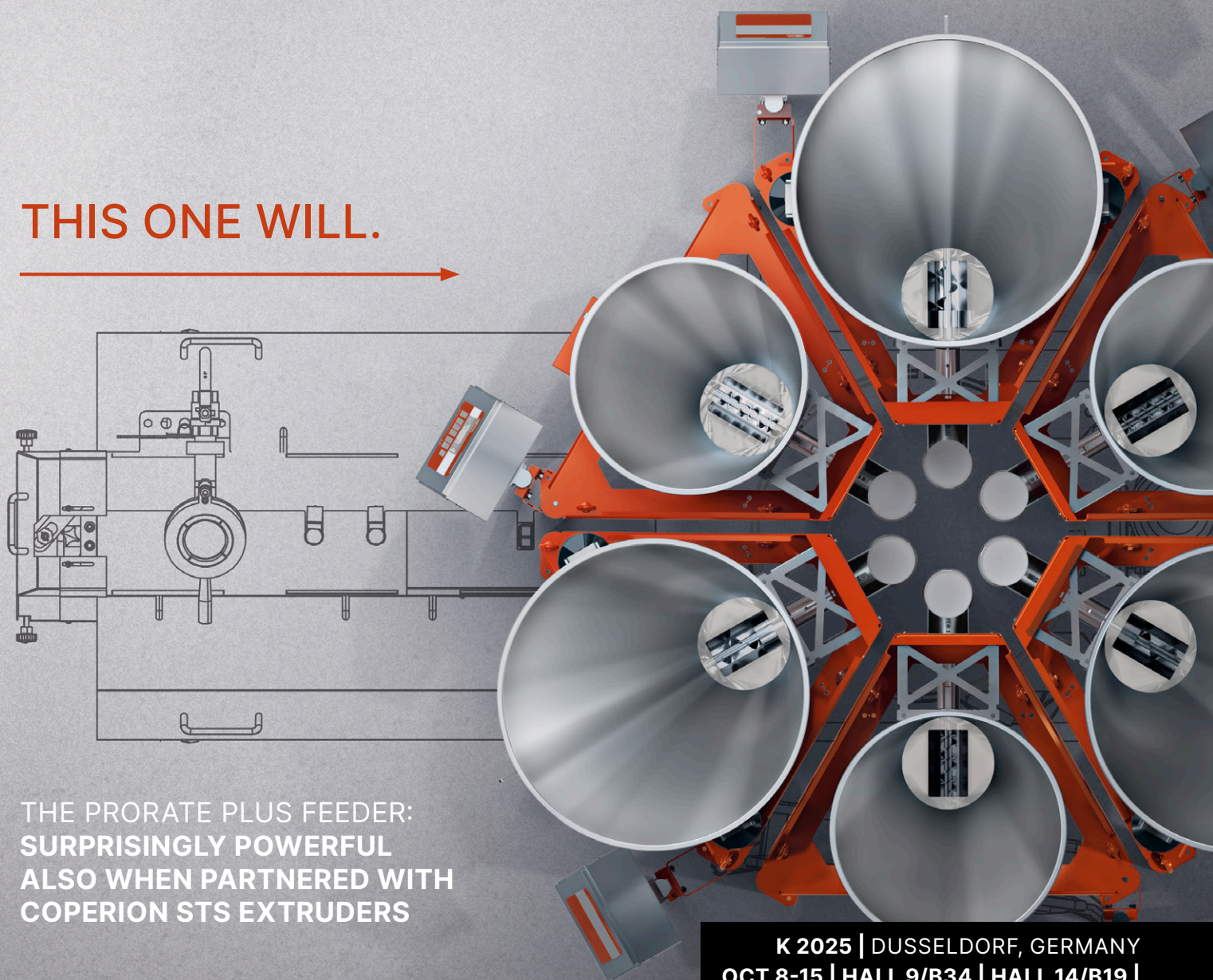
➤ www.qlar.com

Sikora will present a variety of new measuring and sorting technologies at K2025. These include a new system to measure corrugated pipe dimensions, a speed-measuring device and expansions to its Centerwave portfolio.

It says the new X-Ray 6000 Pro C-PipeAI allows precise, reliable measurement of layer transitions during the production of double-wall corrugated

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pipes and tubes. The device combines X-ray measurement with AI-supported software for accurate data evaluation – even for the complex hill-valley outer contour of corrugated pipes and tubes. It ensures early measurement of wall thickness and eccentricity, particularly in the critical start-up phase of extrusion. This enables fast and efficient centring and reduces the amount of start-up scrap. Continuous quality control in real time not only ensures maximum process reliability, but also enables considerable cost savings.

In addition, it has added X-Ray 6000 Pure, which measures all dimensions including the minimum wall thickness in the 6-65mm diameter range – for both single- and multi-layer products. Unlike the earlier X-Ray 6000 Pro, which measures individual layers, the new product measures total wall thickness. X-Ray 6070 Pure can replace ultrasonic technology in price-sensitive markets – with higher precision and stability at the same time.

LM Smart is a new, non-contact length and speed measuring device for tube, pipe and hose extrusion. It measures lengths with an accuracy of 0.05% without wear or slippage. Based on the proven laser Doppler method, it measures independently of the colour, surface and diameter of the product and can be integrated into existing lines.

It has also expanded its Centerwave 6000 series – for non-contact online measurement of pipe quality – at both the top and bottom of the range. Using radar technology, it measures wall thickness, centring, diameter, inner profile and ovality.

The new Centerwave 6000/1600 was developed for the 250-1,600mm diameter range.

“Thanks to its compact design, it can easily be integrated into existing extrusion lines and is particularly suitable for production lines in which pipes with diameters of up to 1,600mm are manufactured,” said Christian Schlich, head of sales for hose and tube at Sikora.

One highlight is the integrated ‘dynamic shrinkage prediction’ function. Immediately after the first vacuum tank, the measuring system determines the pipe’s dimensions in the hot state – and predicts its final dimensions after cooling at the end of the line. This allows the Centerwave 6000 to act as a ‘virtual measuring head’ and raise product quality.

“This predictive measurement enables the operator to make immediate adjustments before deviations occur,” said Schlich.

In addition, Sikora will show its Centerwave 6000/250 to measures small tubes and pipes, with diameter of 32-250mm. A key feature is the



IMAGE: SIKORA

automatic adjustment of the measuring speed to the line speed. This ensures permanent coverage in real time – regardless of product speed or diameter.

➤ www.sikora.net

Above: Sikora's Centerwave 6000/1600 measures pipe diameters from 250 to 1,600mm

Wacker will launch a new high-consistency silicone rubber for manufacturing composite insulators with an extruded silicone housing.

Powersil 1900 A/B can be used to make large-volume hollow core insulators using the spiral extrusion process. Here, the silicone elastomer is extruded onto a continuously rotating insulating tube, ensuring an even application. It allows manufacturers to make high-precision, large-scale insulators at a comparatively low cost, says the company.

In addition, the production of conical shapes – often not feasible with conventional injection-moulding techniques – is also possible.

Wacker supplies it as a ready-to-use 2K high-consistency silicone rubber. The product cures by addition curing to form an electrically insulating silicone elastomer with good resistance to tracking, erosion and arcing. No by-products are released during curing. The insulating housing with its sheds has water- and dirt-repellent surfaces. These retain their dielectric properties even when used continuously in salty or dusty conditions or exposed to rain and high humidity. Rain and dirty water drip off the water-repellent silicone housing. In most cases, this eliminates the need for costly cleaning operations of composite insulators.

As an elastomer, Powersil 1900 A/B has good mechanical properties. It is UV-resistant and, thanks to its elasticity, can withstand all kinds of punishing conditions. Silicone elastomers thus also improve power grid resilience and ensure a secure power supply, says Wacker.

➤ www.wacker.com

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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 featuring leading industry figures

Visitors to this year's Plastics World Expos 2025 - held on 12-13 November in Cleveland, Ohio - will have access to more than 300 exhibitors.

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

The event 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 exhibitor lineup boasts many leading industry players including: Advansix; Ampacet; Buss; BYK; Cabot; Cargil; Clariant; Conair; Coperion; CPM; Davis-Standard; Entek; Erema; Farrel Pomini; Galata; Gneuss; Heritage Plastics; IMCD; Imerys; KraussMaffei; KW Plastics; Leistritz; Maag; Milliken; Mitsui; Motan; Omya; PTi; Q-Lab; Revolution; Shini; Struktol; Thermo Fisher; TPEI; Westlake; Windmoeller & Hoelscher; and X-Rite.

"Attracting over 300 exhibitors is a testament to the strength of the plastics community and the value this show delivers," said Kelly DeFino, exhibition sales team manager at AMI. "With new features like our AI in Plastics theme, we're continuing to evolve and expand the show's relevance."

Exhibitor slots are still available. For more information on exhibiting, visit the [website](#).

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

The event will also host over 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.

■ For more details on the exhibition, click [HERE](#).

■ For more details on the conference, click [HERE](#).

■ To secure a free two-day pass to the expos and conferences, register [HERE](#).

Main image:
This year's event hosts more than 300 exhibitors from across the plastics supply chain

Right: Bausano & Figli's twin and single screw extruders offer energy efficiency and durability

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

Amut

Amut has extensive capabilities in the design, manufacture and supply of extruders, downstream ancillary equipment and a wide range of lines for the production of foils, sheets, stretch film, water-proofing membranes, pipes and profiles.

➤ www.amut.it

Anping Songjia Wire Mesh

Anping Songjia Wire Mesh specialises in extrusion screens, producing wire cloth in materials such as stainless steel, Monel and Hastelloy. These are processed into products such as weld pack and aluminium bind pack screens, in various sizes.

➤ www.chinameshfactory.com

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

Aropha

The company is an accredited laboratory that offers short testing turnaround times for a range of OECD, ISO, and ASTM methods related to biodegradability.

➤ www.aropha.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



IMAGE: BAUSANO

AssetWatch

AssetWatch's predictive maintenance solutions like wireless sensors, communication networks and advanced software allow real-time monitoring of equipment health, while vibration, temperature, and oil analysis help to cut downtime and maintenance cost.

➤ www.assetwatch.com

Bausano & Figli

Bausano & Figli says its twin and single screw extruders offer energy efficiency and durability, while innovations like Multidrive and its Smart Energy System cater to applications including pipe and profile manufacturing and recycling.

➤ www.bausano.com

Bruno Folcieri

Bruno Folcieri manufactures granulators and shredders for plastic recycling and processing. Its products are designed for durability, precision and the ability to handle a wide range of plastic materials.

➤ www.brunofolcieri.com

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.

➤ www.carnevalli.com

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

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

Conair

Conair is a leading supplier of ancillary equipment, including resin dryers, blenders, feeders, material-conveying systems, heat transfer equipment, granulators, downstream extrusion systems and Industry 4.0 solutions.

www.conairgroup.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

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

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

EX31 Automation

Located in the Richmond, Virginia area of the US, the company's main focus is on custom machine building. It is OEM for Arch-IQ (AIQ) inline vision inspection systems.

➤ www.ex31automation.com

Extrusion Consulting

Extrusion Consulting offers consulting services for the plastics extrusion industry. It helps clients in material selection, product testing, equipment evaluation and process optimisation, as well as business plan development and legal services.

➤ www.extrusionconsultinginc.com

Extrusion Control & Supply

Extrusion Control & Supply provides essential components and services for the plastics extrusion industry. Its offerings include a wide range of equipment such as extrusion screws, barrels, screen changers, and feed sections. The company also supplies various replacement parts and offers repair services for extrusion machinery.

➤ www.extrusioncontrol.com

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.

➤ www.fedequip.com



IMAGE: CONAIR

Above: Conair supplies a range of ancillary equipment, including dryers, blenders and feeders



IMAGE: CMG

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

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

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

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

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

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



IMAGE: GNEUSS

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

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

LaserLinc

LaserLinc specialises in precision, non-contact measurement and control. Using laser and ultrasonic technologies, its equipment measures critical parameters like outside diameter, wall thickness and surface flaws in products such as pipes, tubes, and wires.

➤ www.laserlinc.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

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.

➤ www.nfm.net

OA Newton

The company offers multiple conveying methods such as dilute or dense phase pneumatic conveying and various types of mechanical conveying.

➤ www.oanewton.com

Palmer Holland

The company is a supplier of speciality plastic additives and resins in the com-

www.pipeandprofile.com

pounding, 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

Plast-Control

The company offers a full product range for extruder automation, from gravimetric metering to Pro-Con profile automation for blown film lines. It has subsidiaries in the USA, UK, India, China and Taiwan.

➤ www.plastcontrol.de

Plastore

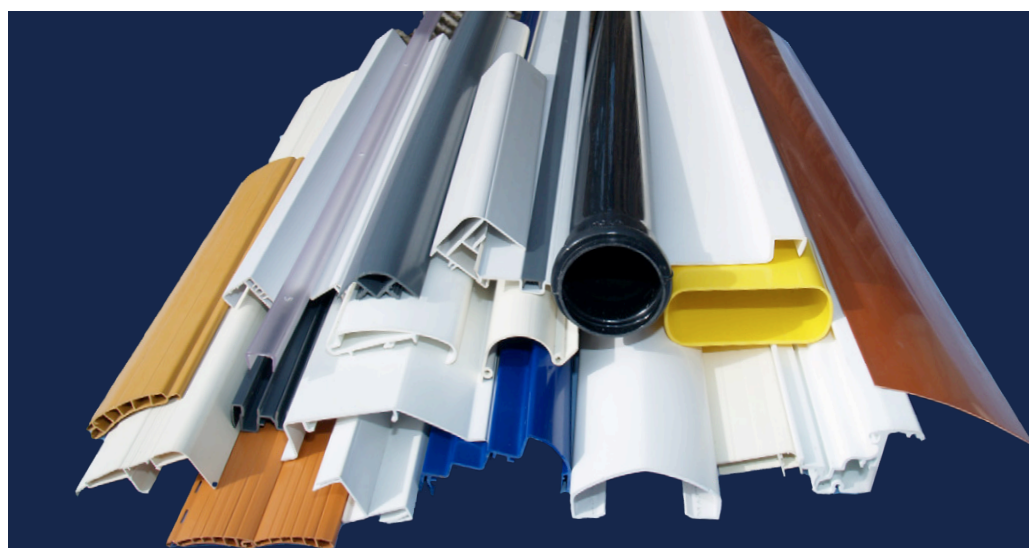
Plastore supplies rugged, durable volumetric and

gravimetric colour feeders. These are used on extruders, injection moulding machines, and blow moulding machines to accurately add colour and additives.

➤ www.plasticolor.info

Polymer Additives Group

Polymer Additives Group specialises in manufacturing flame retardants and smoke suppressants, offering



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Right: Reel Power is a leader in winding, spooling, and coiling equipment



IMAGE: REEL POWER

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

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, aero-

space 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.schakeinc.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

Showmark

Showmark's payoffs, take-ups, winding, respooling, coiling and proof test machines are used with fine wire, small diameter and delicate tubing, 3D filament and optical fibre. They are used to produce neatly wound spools of these and other delicate materials.

➤ www.showmarkcorp.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 polyethylene (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

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

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.texasextrusion-service.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 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.

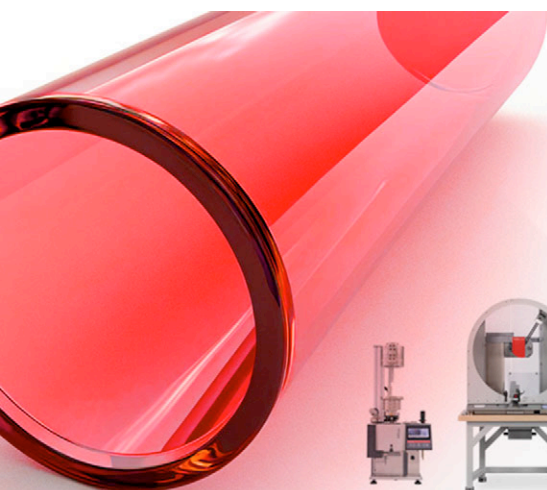
➤ www.us-extruders.com

USA Rolls

USA Rolls is a manufacturer of heat transfer rolls and ASME code certified steam drums in North



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



Zwick / Roell

Strength Behind Every Polymer

Comprehensive plastics testing solutions for every stage of extrusion, tensile, and impact performance.

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Presenters show trends and tech

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.

Several technical presentations are of relevance to pipe and profile extruders. On day one, **Scott Markovitz** of **Showmark** will explain payoff and take-up technologies for extruding delicate tubing, while **Gerry Lamorte** of **Custom Downstream Services** will explore how to improve the energy efficiency in extrusion. In addition, **Cedric Le Rouge** of **Adexma** addresses how business analytics can improve supply chain management while **Scott Barlow** of **Integrated Control Technology** explains how



Speakers at the event include (from left): Daniel Stephens of Routsis Training; Kristen Reinhart of Advanced Draining Systems; and Gerry Lamorte of Custom Downstream Services

a new plastic logic drive is the next step for extruders, and **Jürgen Furtmüller** of **Eisenbeiss** talks about the latest condition-monitoring systems for extruder gearboxes. Day one also has a panel discussion on the future for plastic profiles.

On day two, **Cheryl Sayer** of **Xaloy** talks about next-generation barrel

technology to extend the lifespan of PVC extrusion barrels, while **Daniel Stephens** of **Routsis Training** explains the scientific troubleshooting process for extrusion operators. There is also

a panel discussion on plastic pipes featuring – among others – **Kristen Reinhart** of **Advanced Draining Systems**.

In a special AI showcase, **Douglas Brownfield** of **Ampacet** addresses AI colour correction technology for extrusion, while **Neil Green** of **Leverage Automation/EX31 Automation** talks about leveraging AI for automated centre-lining of extrusions.

For more information about the Plastics Extrusion World Expo conference and the full line-up of speakers, [CLICK HERE](#).

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

Versa Machinery

Versa manufactures automated downstream

equipment for the plastic, rubber and silicone extrusion industries. Its product line includes cutters, pullers, de-reeler/dancers and conveying equipment.

➤ www.versamachinery.com

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>

Windmöller & Hölscher

W&H offers blown and cast film extrusion lines, flexographic and gravure printing presses, converting machines and complete packaging production lines, as well as services including consultation and engineering.

➤ www.whcorp.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>

Xaloy is a leading manufacturer of barrels and screws



IMAGE: XALOY

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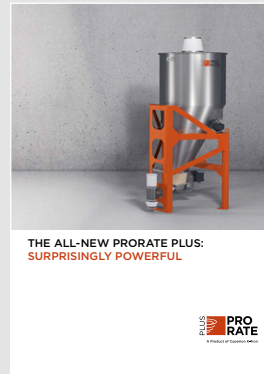
INOEX: WARP PIPE MEASUREMENT



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.

[CLICK HERE TO DOWNLOAD](#)

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.

[CLICK HERE TO DOWNLOAD](#)

MIXACO: MIXING TECHNOLOGY



Mixaco has been driving innovation in PVC mixing technology for more than 50 years and has 7,500+ machines installed worldwide. This brochure explains some of the details that make its HM and KMH heating cooling mixers stand out.

[CLICK HERE TO DOWNLOAD](#)

PIXARGUS: INLINE PROFILE INSPECTION



For over 25 years, PIXARGUS has been at the forefront of manufacturing cutting-edge systems for quality inspection of extruded products. The iProfilControl system, shown in this brochure, provides 360° all-round inspection of profiles of any kind.

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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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WEBER EXTRUSION TECHNOLOGY



Hans Weber has been developing and producing extruders, extrusion systems and extruder screws for more than 60 years. The German company has a large technology range for pipe and window profile extrusion, as shown in this brochure.

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If you would like your brochure to be included on this page, please contact Claire Bishop claire.bishop@amiplastics.com. Tel: +44 (0)1732 682948

Cortizo

Head office:	Padrón, Spain
CEO:	José Cortizo
Founded:	1972
Employees:	Around 3800
Ownership:	Private
Profile:	Cortizo, founded in 1972, is a leading Spanish producer of both aluminium and PVC profiles for applications such as windows and doors. The company exports its products to nearly 90 countries (on five continents) through 31 distribution centres and four local technical offices.
Product lines:	Cortizo offers a wide range of PVC window and door profiles, in around 250 different designs. Most are white, but other colours can be delivered through the use of film lamination. One new product is its A 78 PVC, a high-performance hinged series that combines its straight-line design with thermal insulation. The system, with a 78mm depth and six-chamber profiles, is designed for low-energy-consumption buildings. The company recently expanded operations by installing several new extrusion lines from Exelliq of Austria.
Factory locations:	Cortizo has nine production sites across Europe, in which it processes around 50,000 tonnes/year of PVC (as well as around 150,000 tonnes of aluminium). Most sites are in Spain, though it also has production facilities in Slovakia, Poland and France. In total, the company has 28 PVC extrusion lines but plans to raise this to around 45 in the near future. As well as extruding both aluminium and PVC, it also has a recycling centre in Spain. Its main distribution and logistics centres are in Portugal, Romania, Croatia and Spain - including a new €2.1 million, 4,000 sq m facility in Murcia in southern Spain.

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

Pipe and Profile FORTHCOMING FEATURES EXTRUSION

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

Winter 2025

Large diameter pipe
Materials handling
Wood-plastic composites
PVC additives

Spring 2026

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:
Paul Beckley: paul.beckley@amiplastics.com +44 (0) 117 311 1529

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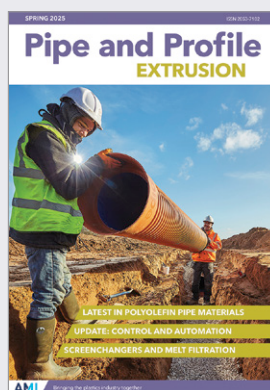
AMI publishes five process-specific FREE plastics industry magazines. Simply click on the cover below to read each magazine. Or download the issue in the relevant Apple or Android app



Pipe and Profile Summer 2025

Pipe and Profile Extrusion's Summer edition has a cover feature on medical tubing, exploring its multiple applications in healthcare, while other articles cover screw and barrel innovation, die developments and the latest in corrugated pipe.

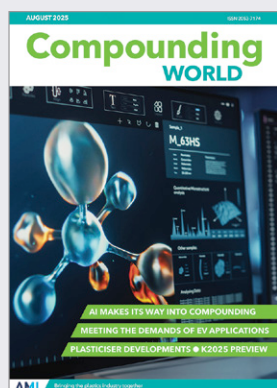
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Pipe and Profile Spring 2025

Features in Pipe and Profile Extrusion's Spring edition find that polyolefin materials are as critical as ever in numerous pipe applications, melt filtration is a hot topic in recycling, and control/measurement is advancing.

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Compounding World August 2025

A new trend for AI to be used in compounding is the subject of the cover feature in the August issue of Compounding World magazine. Plus features on new materials in automotive applications and developments in plasticisers.

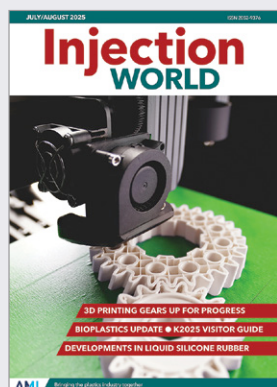
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Plastics Recycling World July/August 2025

The cover feature of Plastics Recycling World's July-August edition looks at EU regulation driving the use of recycled plastics in cars, while other features provide updates on chemical recycling and washing technologies.

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Injection World July/August 2025

The cover story of the July-August issue of Injection World explores technology and materials helping to advance the 3D printing sector, and new bio-based polymers and LSR materials are the focus of other features.

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Film and Sheet July/August 2025

The cover story in Film and Sheet Extrusion's July-August edition checks out the latest in bio-based plastics and their applications, while other articles cover pouches, downstream equipment and how to prepare for visiting the K Show.

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Take out your own FREE subscriptions to any of the magazines. Click on the logos below to simply register on-line.

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WORLD

Film and Sheet
EXTRUSION

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Plastics Recycling
WORLD

GLOBAL EXHIBITION GUIDE

2025	8-15 October	K2025, Dusseldorf, Germany	www.k-online.com
	12-13 November	Plastics Extrusion World Expo North America, Cleveland, OH, USA	https://na.extrusion-expo.com/
	3-6 December	PlastEurasia, Istanbul, Turkey	https://plasteurasia.com
2026	9-12 January	Plastex, Cairo, Egypt	www.plastexegypt.com
	20-22 January	Swiss Plastics Expo, Lucerne, Switzerland	https://swissplastics-expo.ch
	5-10 February	PlastIndia, New Delhi, India	www.plastindia.org
	10-12 March	JEC World, Paris, France	www.jec-world.events
	30 March - 1 April	Plast-Alger, Algiers, Algeria	www.plastalger.com
	31 March - 2 April	Plastics & Rubber Vietnam, Ho Chi Minh City	https://plasticsvietnam.com
	21-24 April	Chinaplas, Shanghai, China	www.chinaplasonline.com
	22-23 April	PlastTeknik Nordic, Malmö, Sweden	www.plasttekniknordic.com
	19-22 May	Elmia Polymer, Jönköping, Sweden	www.elmia.se/en/polymer
	2-4 June	Interplas, Birmingham, UK	www.interplasuk.com
	2-5 June	Equiplast, Barcelona, Spain	www.equiplast.com

AMI CONFERENCES

10-11 September 2025	Polymers in Hydrogen and CCUS Infrastructure, Germany
15-17 September 2025	PVC Formulation Europe, Dusseldorf, Germany
18-19 November 2025	Cables Asia, Bangkok, Thailand
2-3 December 2025	Polymer Engineering for Energy, London, UK
2-3 December 2025	Polyolefin Additives, Cologne, Germany
10-11 February 2026	Polymers in Hydrogen and CCUS Infrastructure, Austria
11-12 February 2026	PVC Formulation North America, Cleveland, USA

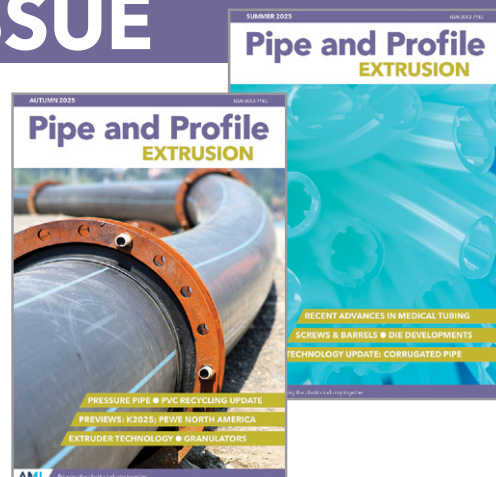
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all these events
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on film, sheet,
pipe and packaging
applications, see

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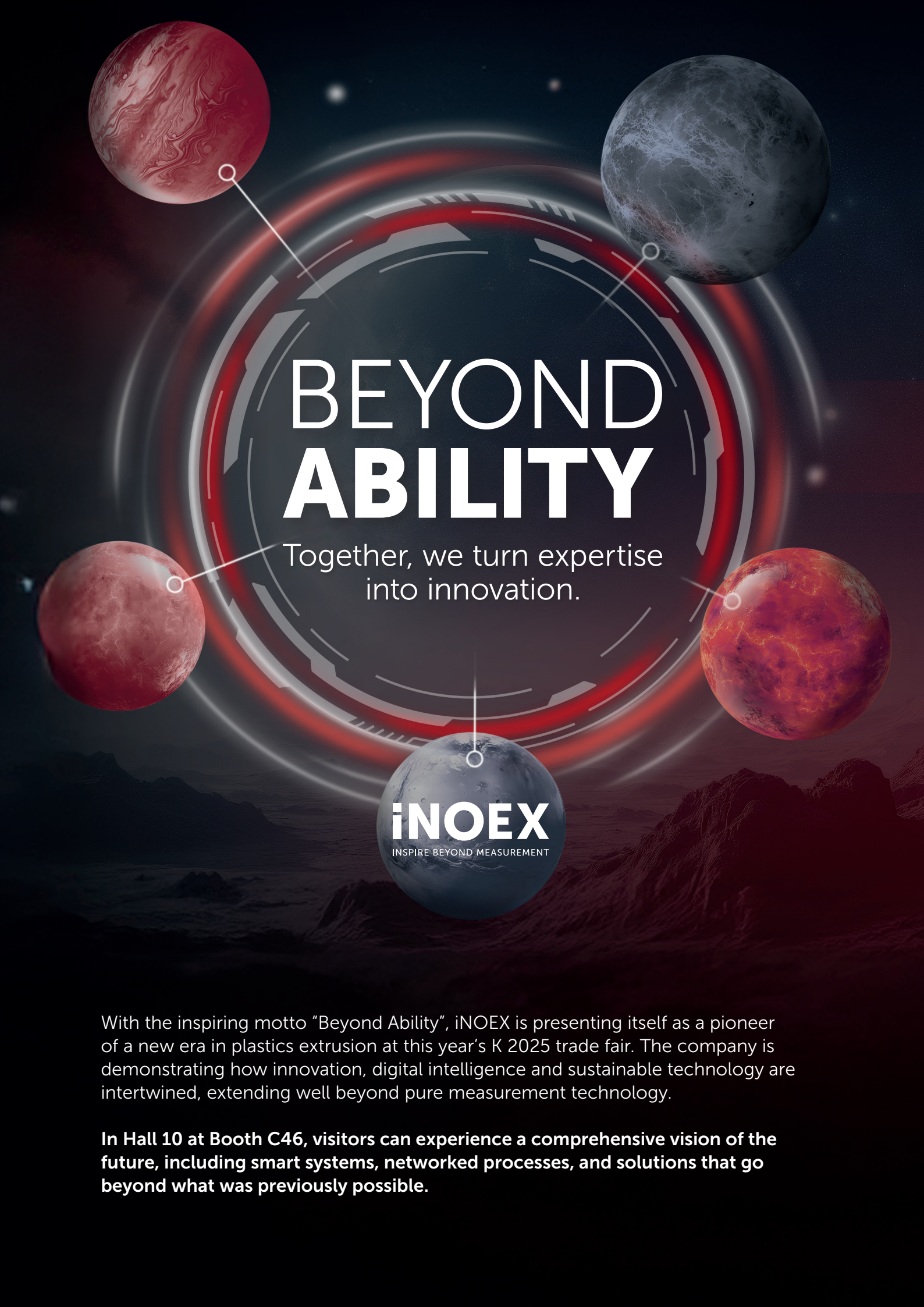
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COMING SOON



iNOEX
INSPIRE BEYOND MEASUREMENT

SEE IT FIRST AT K 2025
HALL 10 | BOOTH C46



BEYOND ABILITY

Together, we turn expertise
into innovation.

iNOEX

INSPIRE BEYOND MEASUREMENT

With the inspiring motto "Beyond Ability", iNOEX is presenting itself as a pioneer of a new era in plastics extrusion at this year's K 2025 trade fair. The company is demonstrating how innovation, digital intelligence and sustainable technology are intertwined, extending well beyond pure measurement technology.

In Hall 10 at Booth C46, visitors can experience a comprehensive vision of the future, including smart systems, networked processes, and solutions that go beyond what was previously possible.

GREATER EFFICIENCY THROUGH ADVANCED TECHNOLOGY

iNOEX products and system solutions provide lasting optimization of your extrusion processes. With continuous innovation, we set new trends and pave the way for future-ready solutions.

iNOEX GmbH is defined by its long-term, future-focused approach and has been recognized for over 40 years as a fully integrated solution provider. As a holistic innovator in the automation of extrusion lines, we understand that cost-efficiency and product quality are essential. It is our commitment to bold ideas and ground-breaking measurement technologies that makes the difference. As a market leader in innovation, iNOEX brings precise expertise to every production line.

Our products stand for quality, precision, and transformation. From **SAVEOMAT** in gravimetric control and **AUREX** in ultrasonic measurement to **iXRAY** for X-ray technology and **WARP** for radar systems — our technologies are already redefining the extrusion market today.

At K-Show, iNOEX will present pioneering new products that embody the motto 'Beyond Ability':

DOS X:

The new generation of gravimetric dosing. It is modular and digitally networked, and is ideally prepared for future requirements, particularly in film extrusion. The prototype on display embodies maximum flexibility and intelligent control.

WARP 125:

The compact revolution in radar measurement technology. Perfect for single and dual strand lines, especially for PVC pipe extrusion. Minimum space requirements meet maximum precision.

SAVEOMAT P+:

This new powder weigher enables gravimetric dosing in the PVC sector. Even with high chalk content, material savings are achieved while maintaining process reliability.

360°

EXTRUSION

FOR A SMARTER FUTURE

Plastics extrusion is entering a new era. Markets demand efficiency, precision, and real sustainability. CiTEX Group meets these challenges with integrated processes and intelligent automation — redefining industry standards across the entire extrusion line.

As a corporate group, **CiTEX Group combines the expertise of iNOEX, iBA, PIXARGUS, and iDOO**. Together, we offer a seamless cycle of innovation, digitalization, measurement technology, and consulting. The result: 100% quality, reduced resource consumption, and intelligent control — from raw material to final product.

Our 360° Extrusion concept delivers:

- End-to-end data connectivity
- Real-time monitoring and adaptive control
- Predictive error detection and process optimization
- Minimal scrap, lower material input, and higher product quality

Through high-precision measurement systems, intelligent assistance tools, and data-driven analysis, we enable extrusion lines to run smarter — not harder. Our connected systems reduce complexity and unlock hidden efficiency potential, laying the foundation for the Smart Factory.

One vision. Intelligent solutions for tomorrow's production.

SHAPING A SUSTAINABLE, DIGITAL AND HUMAN-

Transitioning to a circular economy requires more than new materials.

It demands a complete rethinking of processes, technologies, and data strategies. CiTEX Group supports this transformation through solutions that make sustainability measurable — and achievable.

With our 360° extrusion, sustainability metrics like material usage, energy efficiency, and CO₂ emissions can be continuously monitored and optimized. Innovations in gravimetry and measurement technology reduce raw material consumption and ensure maximum process reliability.

The use of artificial intelligence opens new opportunities for intelligent recycling and resource optimization. At the same time, CiTEX Group empowers people. In a time of skilled labor shortages, digital assistance systems and centralized knowledge platforms help employees make informed decisions quickly. Our solutions simplify complex processes and support real-time optimization — across all locations and timeframes. Virtual assistants and AI applications further relieve personnel by automating routine tasks and enabling data-driven production planning. The result is a more resilient, adaptable, and future-ready organization.

CiTEX 360° Extrusion is not only a technological approach — it's a holistic strategy that connects innovation, sustainability, and people to shape the future of plastic extrusion.



AND HUMAN-CENTERED INDUSTRY.

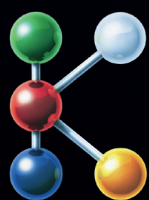
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iDOO

Visit our experts from iNOEX & iBA at
the K trade fair - Hall 10, Booth C46, the
experts of PIXARGUS - Hall 10, Booth C48
and iDOO in the Start-Up Zone - Hall 7/0.



2025

8-15 OCTOBER
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Hall 10, Booth C46 & C48
Start-Up Zone Hall 7/0

www.extrusion360.group

CiTEX^{Group}

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Experience how together
we are redefining the
limits of what is possible -
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