

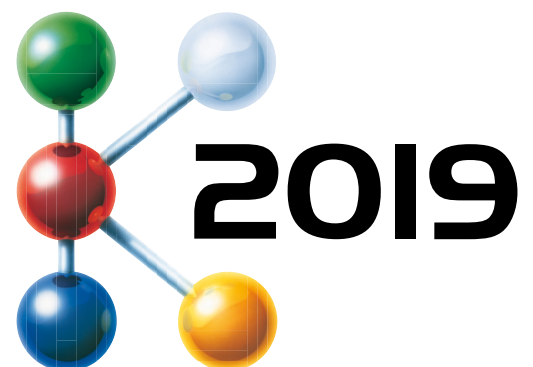


Reifenhäuser Extrusioners on stage: Tim Pohl, Andreas Rösner, Eugen Friedel, Ulrich Reifenhäuser, Johannes Müller, Philip Neumann, Benedikt Brenken (FLTR)

# K 2019 Preview Short Summary

**On July 1, the Reifenhäuser Extrusioners presented highlights for the upcoming K 2019, focusing on Circular Economy, Digitalization and Innovation at the K 2019 Preview event in Düsseldorf in front of 100 international press and media representatives from 62 countries.** At the preview press conference in Düsseldorf we presented our highlights for the K 2019 with a focus on 4 principles: reduce, reuse, recycle and replace. During K 2019 we will be presenting innovative extrusion technologies and solutions that will take plastic into a sustainable future.

In addition to Ulrich Reifenhäuser, six colleagues from all business units were live on stage to present, what Reifenhäuser will be exhibiting during K 2019 in October. We have put together a short summary for you.



## We are sustainable, digital & innovative!

Through our broad know-how within the Reifenhäuser Group, we provide a wide range of solutions that meet the requirements of sustainability and competitiveness. All our technologies for K 2019 are based on the four principles: reduce, reuse, recycle and replace.

### Video

- K 2019 Preview presentation (57:14 min.)  
<https://player.vimeo.com/video/346067945>

### Press Releases

Holding / Group

- [Reifenhäuser Group presents sustainable solutions for plastics production](#)

### Blown Film

- [30 percent thinner PLA films with Reifenhäuser Ultra Flat Plus](#)
- [World debut: Measure and optimize film flatness with Reifenhäuser EVO Ultra Flat](#)
- [Stretched to maximum performance: Recyclable mono-material packaging with Reifenhäuser EVO Ultra Stretch](#)

### Cast Sheet Coating

- [Fully automatic and sustainable: Save materials and energy with REIcofeed-PRO from Reifenhäuser](#)
- [With Reifenhäuser, cast film production is becoming smart, modular and affordable](#)

### REICOFIL

- [Easy on resources and sustainable: Spunbond with REICOFIL technology is the better film](#)

### Reifenhäuser Extrusion Systems (RES)

- [Faster, quicker, and less expensive: Flat dies reworked with cutting-edge technology](#)
- [Retrofit instead of new purchases: Sustainable modernization of extrusion lines of all manufacturers](#)

### Reifenhäuser Digital

- [Less waste and better quality with data analytics from Reifenhäuser](#)
- [Brownfield digitalization: IoT gateway from Reifenhäuser sets new standards](#)

If you just want to know the hard facts, we have put together the following bulleted list with only the highlights for each business unit:

### Blown Film

Ultra Stretch – Mono Material Laminates

- higher process stability and reduced energy consumption
- better shrinkage and sealing properties
- MDO is integrated into the take-off
- retrofittable

Ultra Flat and inline flatness measurements

- we are the only ones who can measure flatness
- new quality benchmark through measurability of the film topography
- improvement of the flatness
- easy finding of optimal settings
- independent of operator experience

Ultra Flat Plus – Bio-Films

- we are the bio specialists
- mechanically stronger and stiffer films
- down gauging: thinner film with better strength
- high speed bag making: better packaging (more bags per minute)

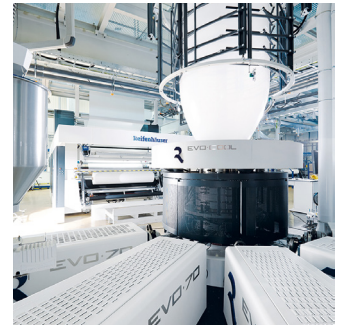
### Cast Sheet Coating

Smart CPP and Smart PET

- proven technology at an affordable price
- upgradable
- Smart PET: polishing stack with mechatronic roll adjusting system, Reitruder, FDA and EFSA certified
- experience from the widest lines in the world

Individual layer thickness control

- closed loop adjustment of the individual layer thicknesses through the use of the patented Reicofeed PRO
- cost savings through self-optimization and reduction of tolerances
- eco-efficient and sustainable



## REICOFIL

### Spunbond Nonwoven

- nonwoven is the better film
- less material input with better product properties
- RF5 spunbond and composite lines with bico technology
- closed cooling and stretching system for a homogeneous laydown
- outstanding engineering and line know-how
- combination of a broad development base with product knowledge
- flexibility in the choice of raw materials
- processability of biodegradable resins
- inline recycling of production waste
- direct processing of post-consumer PET flakes reduces production costs
- Individual layer thickness control

## RES / Components

### Updates to the latest extrusion technologies

- optimization of existing extruders with new screws and barrels, replacement of entire extruders, replacement of dies in flat film lines
- individual solutions with proven Reifenhäuser quality, with smart delivery times at attractive prices
- 50 years of experience in wear protection
- alloys designed for customer needs and efficient production
- worldwide sales and service network
- extensive product and process engineering know-how
- product life cycle improvement
- modular sourcing possible

### Rework of flat dies

- optimization of the existing equipment
- upgrade flat film lines: end product quality, improvement of throughput capacity, use of other raw materials
- redesign of the melt flow geometry of the existing die
- performance increase and adaption to current trend without new purchase
- faster than a new die

## Digital Solutions

### Digital Retrofit

- if you can't measure it, you can't improve it
- provide access to the digital future
- Performance Cockpit (software): worldwide, individual overview of key figures available at any time
- Cloud Connector (combination of hard- and software): connect to any system
- modular system – easy to customize

### Data Analytics

- we make the topic “Data Science / Data Analytics” tangible for our customers
- generate added value through Big Data, Machine Learning and AI
- development of sustainable solutions based on customer data
- increase overall equipment effectiveness
- availability, quality & performance
- complete range of services: process, engineering, automation, digitalization and data science

