

Ballrechten-Dottingen / Germany, 19 September 2025

## The future of powder dispersion: ystral presents high-shear vacuum expansion technology at POWTECH

*At POWTECH 2025, the German machine and plant manufacturer ystral will be presenting its energy-, raw material- and process time-saving solutions for dispersing and mixing. The international trade fair POWTECH for technologies for processing powders, solids and liquids will take place in Nuremberg from 23 to 25 September.*

The machine and plant manufacturer ystral, based in Ballrechten-Dottingen in Germany, plans, designs and manufactures highly efficient mixing, dispersing and powder wetting machines as well as process systems. At POWTECH 2025, ystral will be presenting its high-shear vacuum expansion technology for powder dispersion in Hall 9 / Stand 431. Moreover, ystral will participate in the POWTECH STAGE TALKS with a presentation by Dr. Hans-Joachim Jacob, Senior Expert Process and Applications at ystral, on the topic of "Powder dispersion of the future in food production" on Wednesday, 24 September (2:30-3:00 p.m., language: English).

### **Savings of up to 20% on raw materials, up to 90% on process time, and on average 70% on energy**

"In a world that is increasingly focused on sustainability, the efficient processing and above all, optimum dispersion of powders plays a crucial role," says Jacob. "Innovative technologies for the dispersion of powders in liquids offer enormous potential for rationalisation compared to traditional technologies – depending on the application, up to 20% of raw materials, up to 90% of process time and, on average, 70% of the energy previously required can be saved. At POWTECH, we want to show users why ystral's high-shear vacuum expansion technology is by far the most effective technology for processing powders in liquids."

### **YSTRAL Conti-TDS disperser presented**

At POWTECH, ystral will present the YSTRAL Conti-TDS powder wetting and dispersing machine, which works with high-shear vacuum expansion, in the two sizes Conti-TDS 2 and 3 as compact processing units with a transparent container, a jet stream mixer, a suction lance, and a control module. In addition, the mixing and dispersing technology specialist will present the newly developed continuous powder wetting and dispersing machine YSTRAL Coflow.

### **Further information**

For more information about ystral's appearance at POWTECH 2025, visit

<https://ystral.com/en/powtech/>. A free **online seminar with Dr. Jacob** on the future of powder dispersion with numerous application examples is available at <https://ystral.com/en/knowhow/online-seminars/the-future-of-powder-dispersion/>. The new 40-page **white paper "The Future of Powder Dispersion – Process solutions for the world of tomorrow"** by ystral can be downloaded free of charge at <https://ystral.com/en/knowhow/knowledge-portal/whitepaper/the-future-of-powder-dispersion/>.

## Press photos:

ystral\_powtech\_1.jpg



## [Caption]

ystral plans, designs and manufactures highly efficient mixing, dispersing and powder wetting machines as well as process systems. ystral technologies are used worldwide in the chemical, pharmaceutical, coatings and paints, foodstuffs, home and personal care as well as battery production industries.  
(image credit: ystral)

ystral\_powtech\_2.jpg



[Caption]

YSTRAL Conti-TDS with high-shear vacuum expansion technology for dust-free inducing and dispersing of powders in liquids.

(image credit: ystral)

## About ystral

*The ystral Group is an owner-managed family business operating in the field of mechanical and plant engineering and employing a total of just under 300 staff. The company – based in Ballrechten-Dottingen near Freiburg in Germany – plans, designs and manufactures highly efficient mixing, dispersing and powder wetting machines as well as process systems. ystral technologies are used worldwide in the chemical, pharmaceutical, coatings and paints, foodstuffs, home and personal care as well as battery production industries.*

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