

Ballrechten-Dottingen / Germany – 19 February 2025

Mixing and dispersing technology specialist ystral at the European Coatings Show: innovative process engineering solutions for more energy and resource efficiency

The energy- and resource-saving production of lacquers, paints and coatings is the focus of ystral's trade fair appearance at ECS 2025. The European Coatings Show and Conference will take place in Nuremberg / Germany from 25 to 27 March.

At ECS, mixing and dispersing technology specialist ystral is focusing on the enormous efficiency gains that are possible in the production of lacquers, paints and coatings with innovative process technology. "We would like to enter discussions with manufacturers in these industries about how they can significantly reduce the energy and resource requirements of their processes – and how we can support them with our technologies, our in-depth industry knowledge and our expertise, which has grown over decades," says Dr. Hans-Joachim Jacob, Senior Expert Process and Applications at ystral.

In hall 4 (booth no. 4-553) the company is presenting two technologies, the powder wetting and dispersing machine YSTRAL Conti-TDS and the YSTRAL Jetstream Mixer, which enable energy and process time savings of up to 90% compared to the agitators and dissolvers commonly used in the production of lacquers and paints.

30,000 times higher volume-specific power with the YSTRAL Conti-TDS

In the YSTRAL Conti-TDS, a vacuum and very high shear forces are concentrated in a very small volume. The vacuum separates the particles and then disperses them at a shear rate that is 1,000 times higher and with a volume-specific power that is 30,000 times higher compared to conventional technologies. "The result is significantly shorter process times, lower energy consumption and temperature rise, the highest quality and significant savings in costs, raw materials and space requirements," says Jacob.

100% homogeneity with the YSTRAL Jetstream Mixer

YSTRAL Jetstream Mixers rely on a consistently vertical mixing principle and combine a turbulent micro-mixing zone in their mixing head with an almost turbulence-free vertical macro-mixing of the entire vessel contents. Unlike when a conventional agitator is used, the product

is actually completely homogeneously mixed at the end of the mixing process – without unmixed zones, without sediments – and consistent results are achieved regardless of the batch size.

Further information

A white paper by ystral on the topic "Saving energy using more efficient process technology; 8 levers for more energy efficiency in the production of paints, varnishes, printing inks & coatings" can be downloaded from <https://ystral.com/whitepaper-energy-paints-coatings>. An online seminar with Dr. Hans-Joachim Jacob on the topic "The Magic of Making Paint - Innovations in Paint Production" will take place on Tuesday, 11 March 2025 in two identical sessions in English: at 9 a.m. EST and at 4 p.m. EST. Registration for the online seminar is free of charge at www.ystral.com/innovations-in-paint-production.

Further information on ystral's presence at the European Coatings Show 2025 can be found at: <https://ystral.com/en/ecs-2025/>

Press photos:

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[Caption]

The mixing and dispersing technology specialist ystral projects, designs and manufactures mixing, dispersing and powder wetting machines as well as process systems, which are used worldwide in the production of paints, varnishes, printing inks and coatings, as well as other industries. The picture shows a process plant for foil coating production.

(Image credit: ystral).

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[Caption]

The YSTRAL Conti-TDS powder wetting and dispersing machine.

(Image credit: ystral)

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[Caption]

YSTRAL Jetstream Mixers combine a turbulent micro-mixing zone in their mixing head with an almost turbulence-free vertical macro-mixing of the entire container contents.

(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.

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