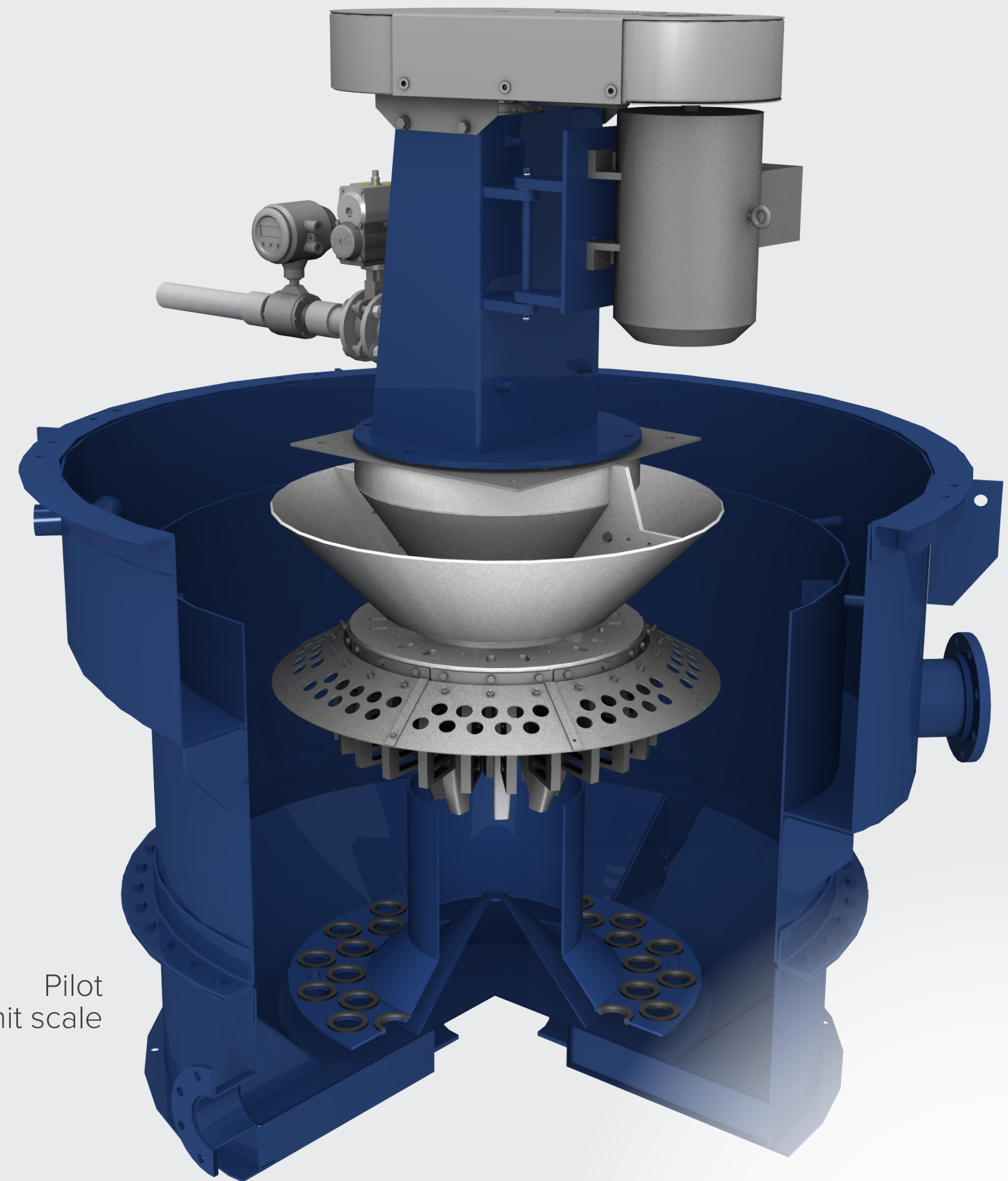


WEMCO® II

A first glimpse of the next generation

- Improved kinetics/performance
- Ability to control air without external air supply
- Optimized energy efficiency
- Better hydrodynamics and circulation
- Improved surface and froth stability from previous generation

Pilot
unit scale

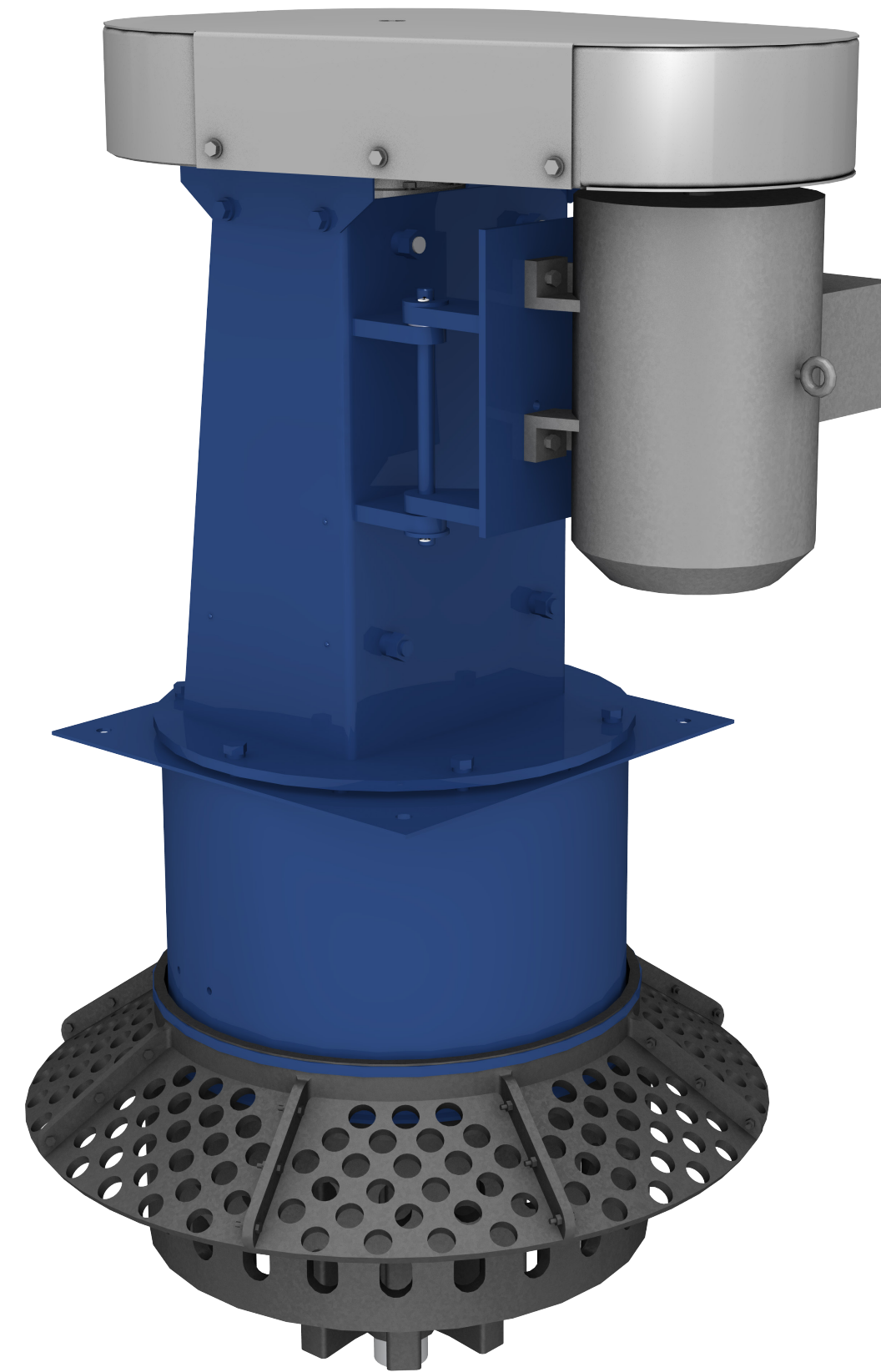


The best in flotation is about to get better

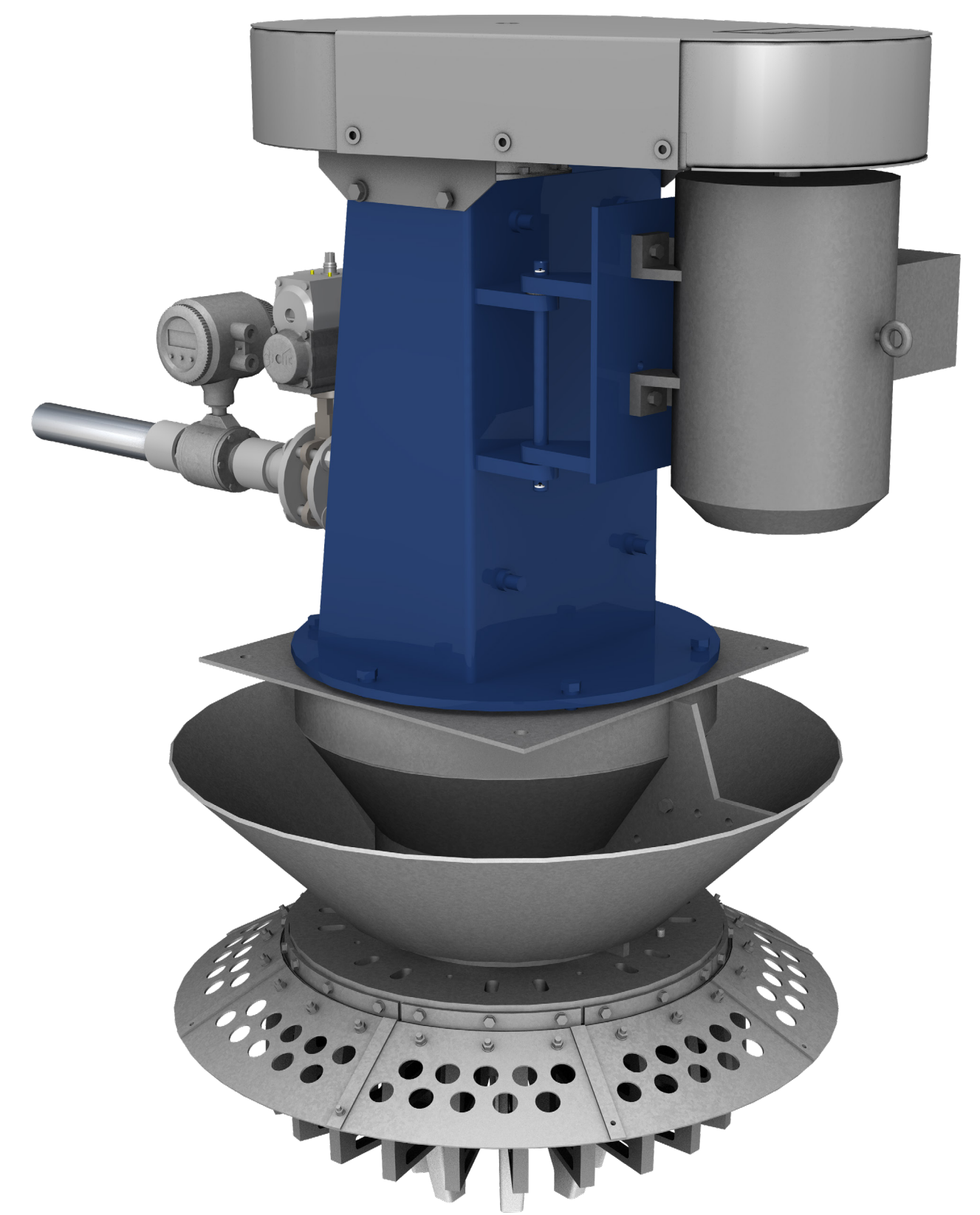
Inside each WEMCO® II cell is a newly designed rotor-disperser system that delivers intense mixing and aeration. We tested multiple iterations to identify the right combination of the rotor and stator/hood to improve hydrodynamics and optimize performance.

The design changes allow for application of expert control and improved response to operational demands. WEMCO II is designed to be easily retrofitted into all types of existing WEMCO cells. The downtime and cost associated with a retrofit are minimal and produce a quick return on your investment.

We look forward to sharing more details with you in the near future!



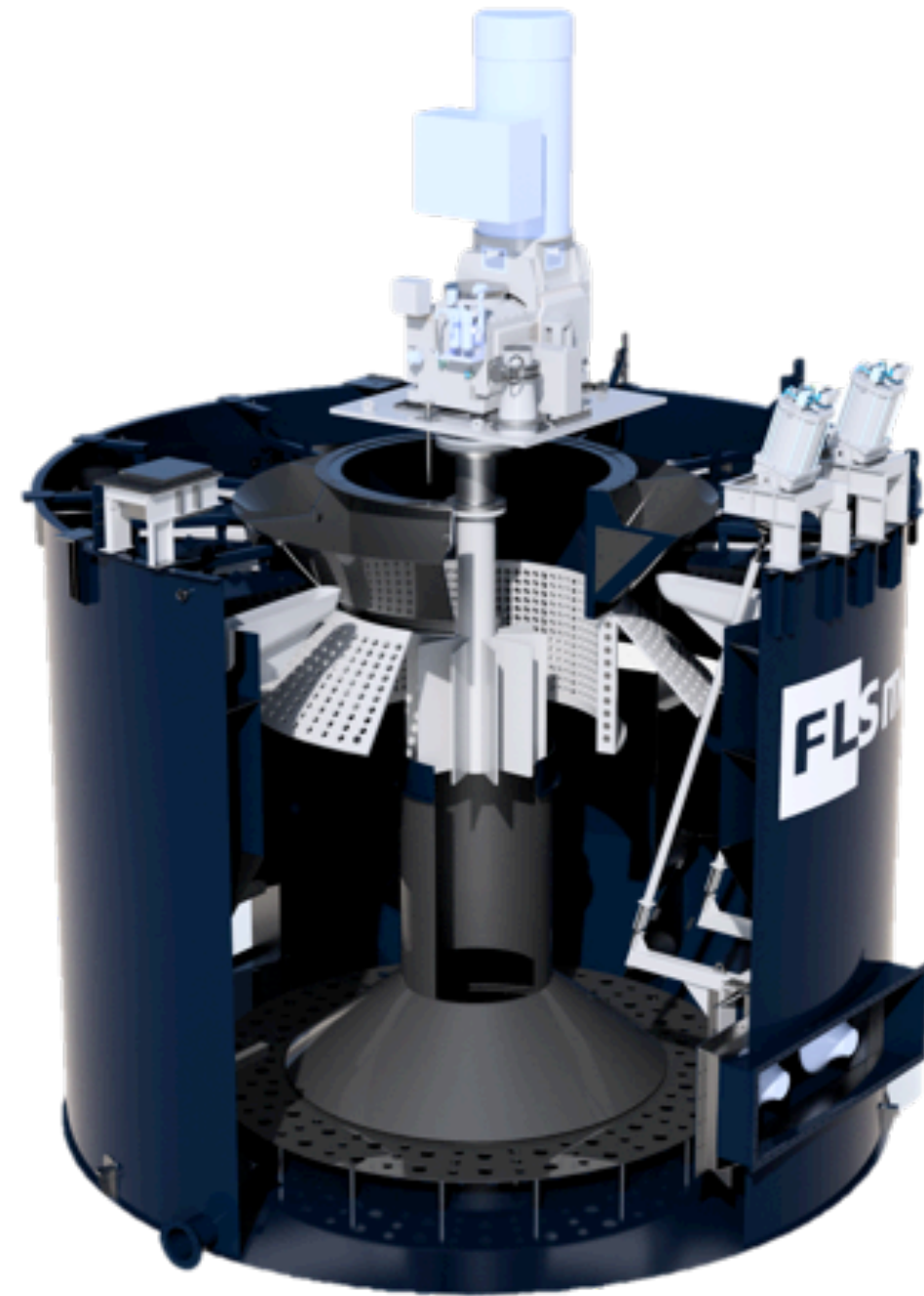
WEMCO



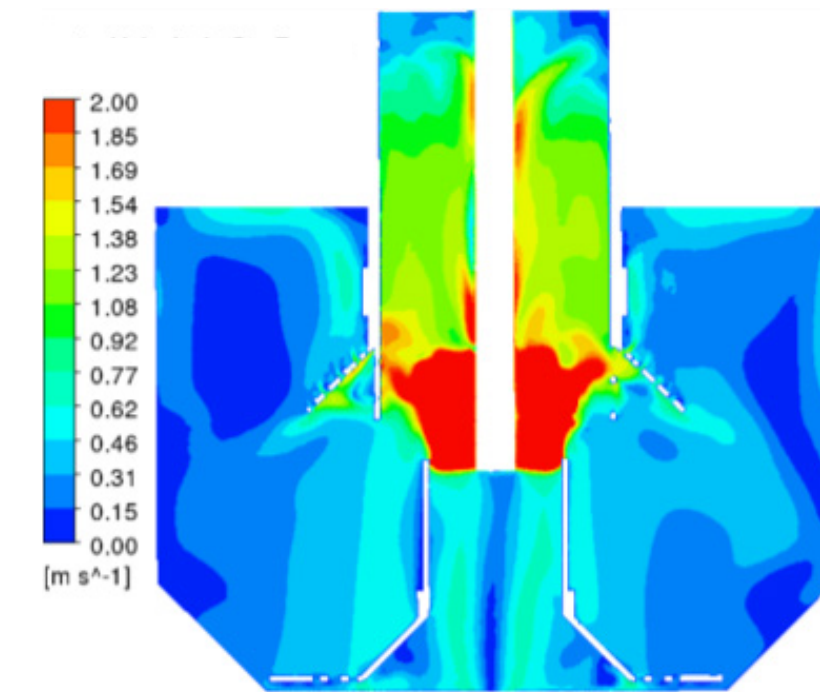
WEMCO II

Building on a successful legacy

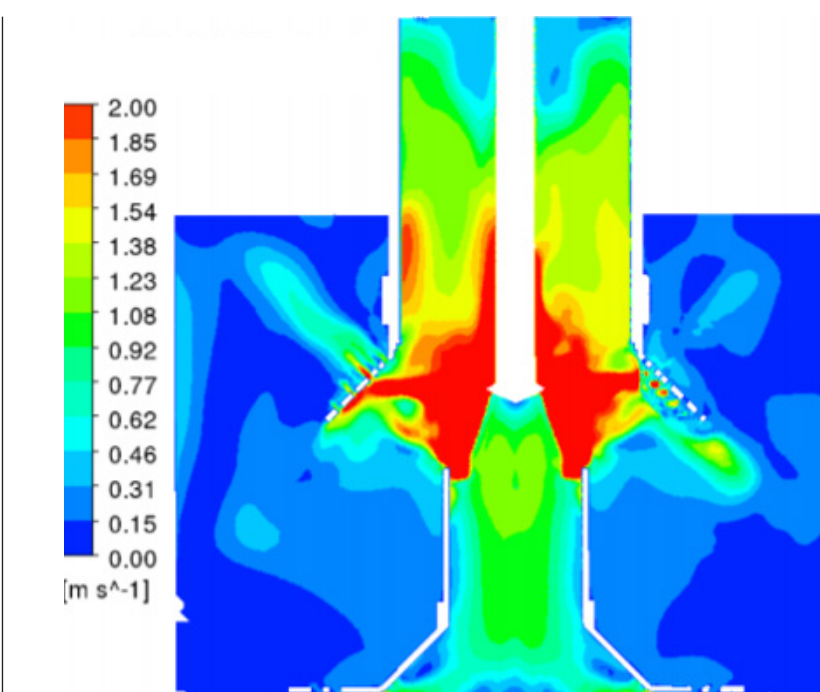
Original WEMCO flotation cells have repeatedly delivered the highest recovery throughout the decades. The broad appeal is attributed to easier start-up, simpler operation, and lower reagent consumption.



Water velocity

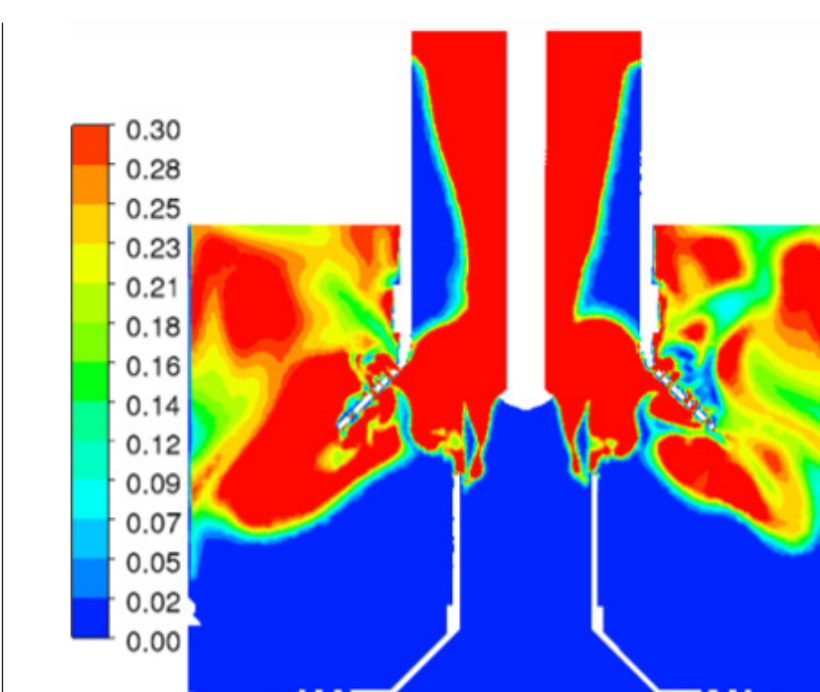
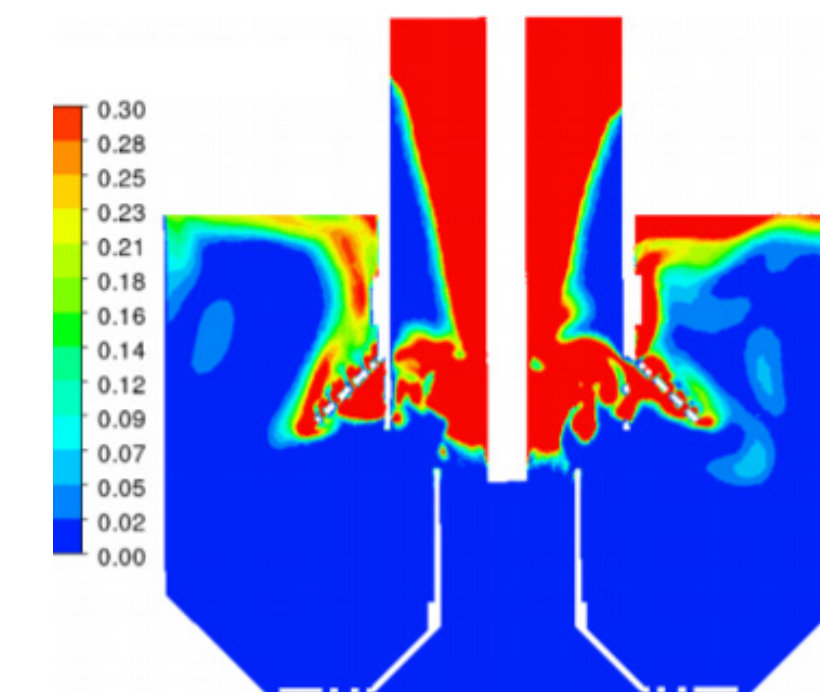


WEMCO II



- +87% pumping
- +36% air Intake
- Even draft tube flow distribution

Air volume fraction



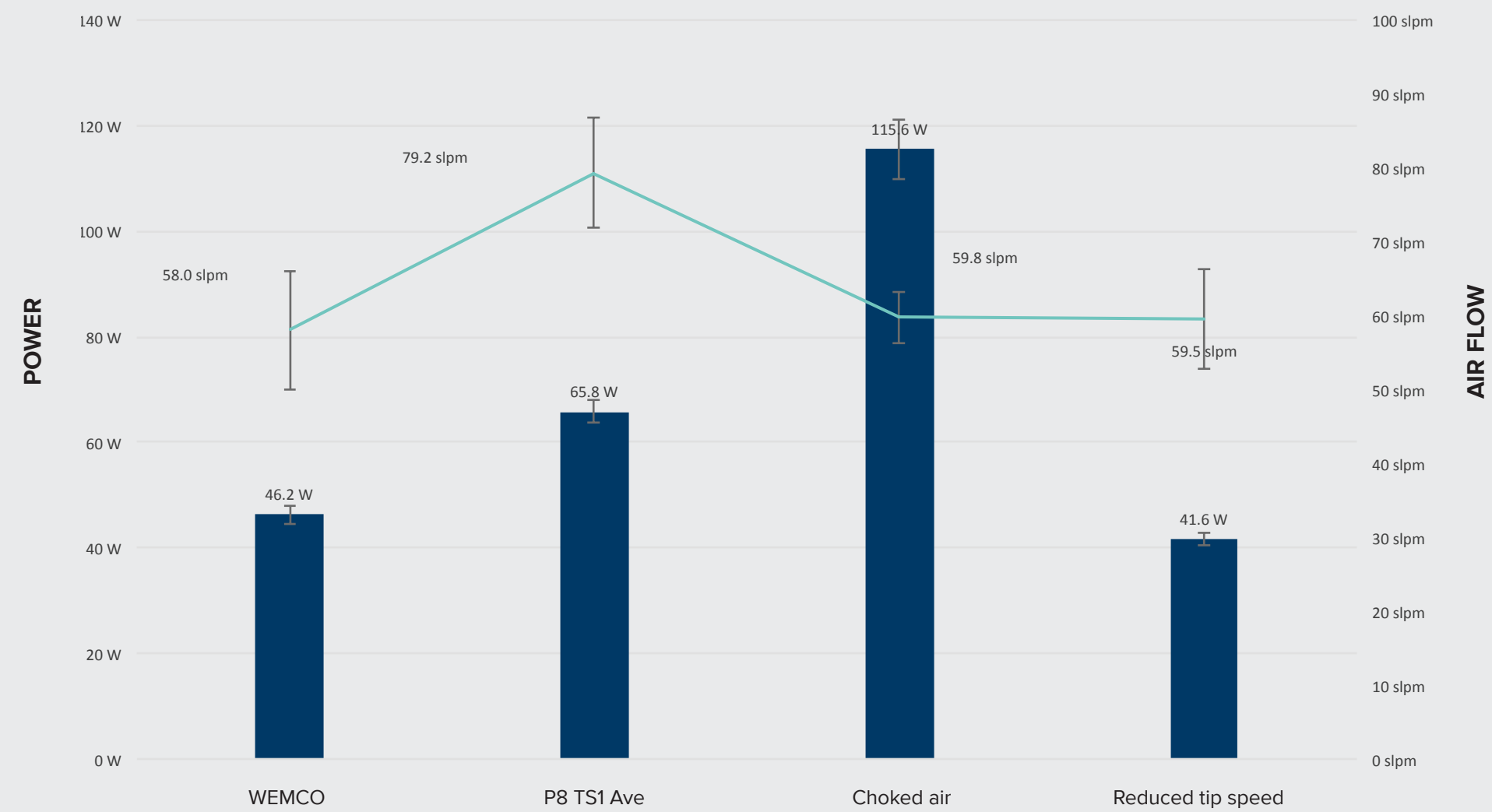
- Improved air dispersion
- +21% turbulent kinetic energy
- +31% turbulent eddy dissipation

WEMCO II provides the same benefits of its predecessor along with improvements to the rotor and stator/hood that produce a noticeable change in power consumption, air flow, and pumping. The new design features better air control and froth maintenance, which elevate kinetic performance and lower operational costs.

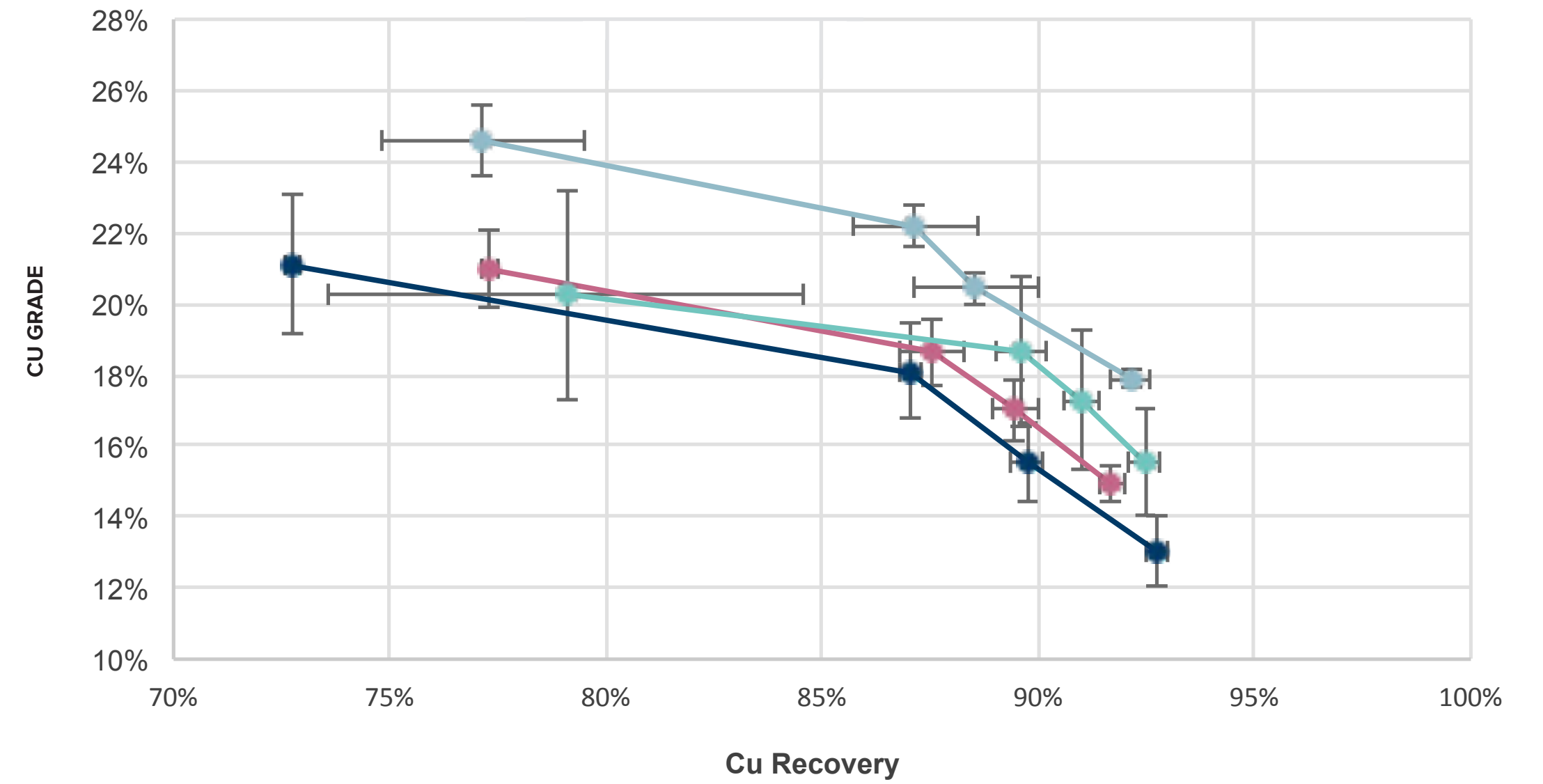
Metallurgical configuration and process condition study

- 22 tests ran with Copper ROM ore prepared by the FLSmidth MTRC
- Conclusions included kinetic data & hydrodynamic observations, such as froth layer dynamics
- Results showed several instances of higher grade & recovery

Power and air flow

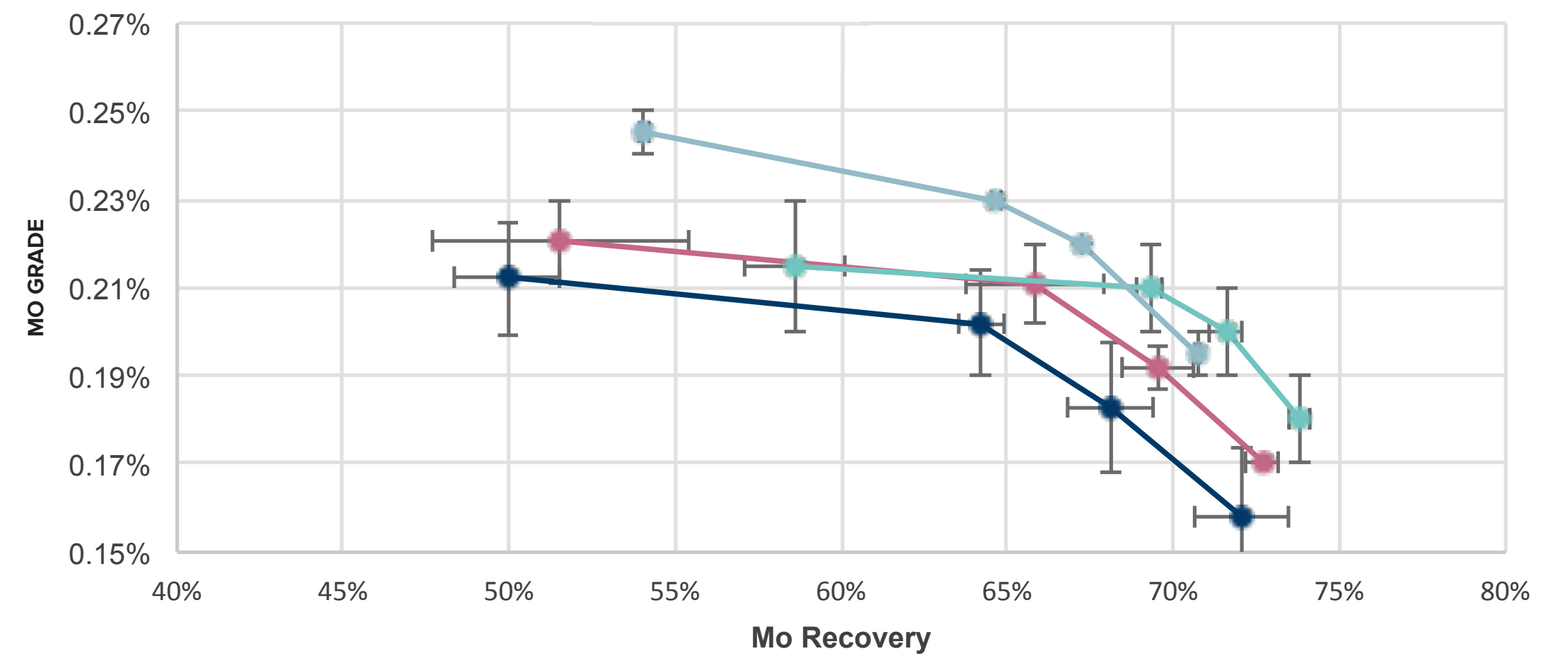


Copper grade



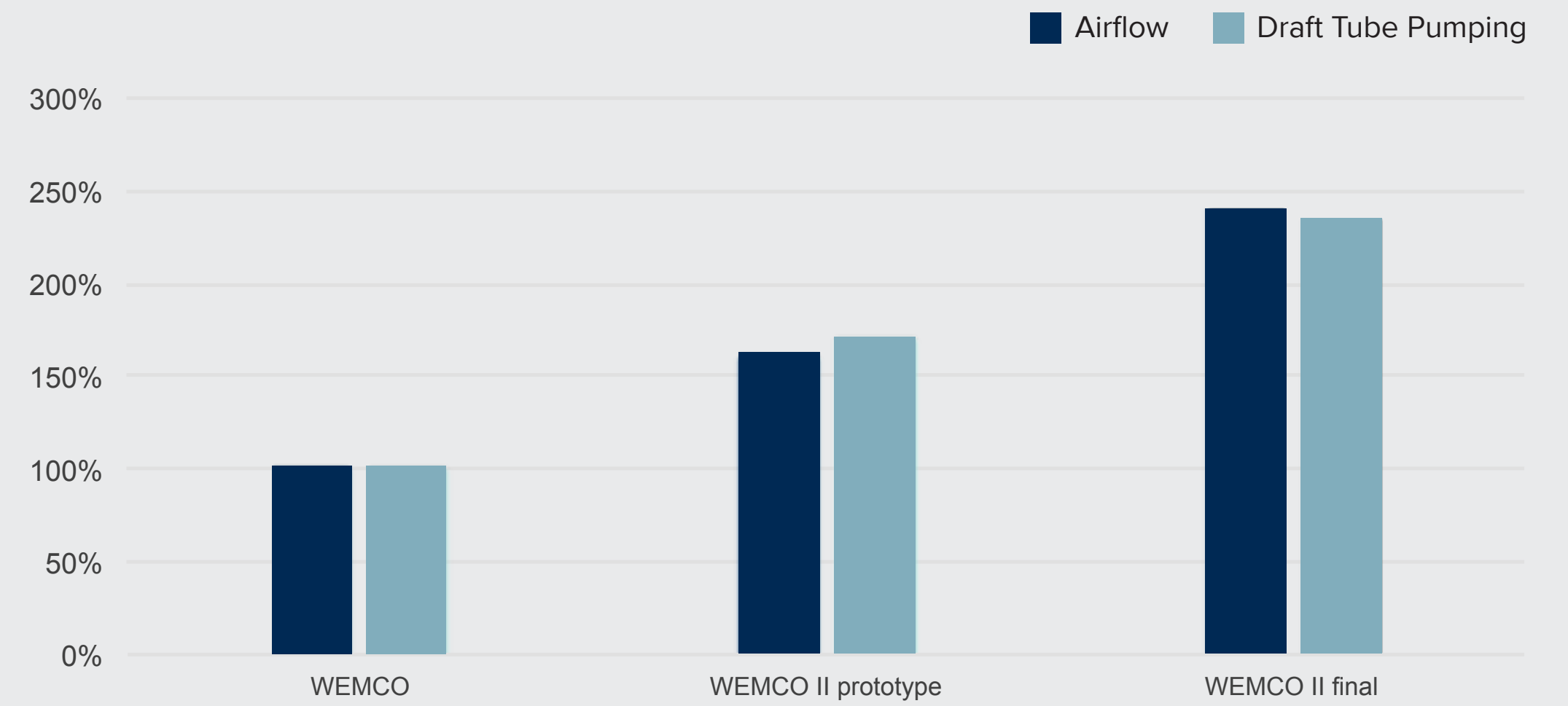
WEMCO P8 TS1 Ave Choked Air Reduced Tip Speed

Moly grade





Pilot Plant Testing



- Mechanical advantages (airflow, pumping, sheer, bubble size) seen in prototype have been improved in the final.
- WEMCO II allows for easier study of variables, much of which has already been learned through bench scale testing.

FLSMIDTH

Mission Zero

TOWARDS ZERO EMISSIONS IN MINING



Zero water
waste



Zero
emissions



Zero energy
waste



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