

Ducati Corse extends Technical Partnership with AVL

AVL is not only a top-class partner at the pinnacle of motorsports in four-wheel racing but also on two wheels: A status underscored by its ongoing partnership with none other than Ducati Corse. The iconic Italian Motorcycle Manufacturer continues to rely on AVL's expertise and is extending its partnership for a fourth year. The racing division of Ducati Corse develops the motorbikes that successfully take part in MotoGP and Superbike competitions, and is well-known for technical innovation. Ducati is the reigning Constructors World Champion in MotoGP. At the moment Ducati shows its strength in the battle for the lead in both the riders' and constructors' Championships, with Johann Zarco and Francesco Bagnaia as runners-up. The mastermind behind the project is General Manager Luigi Dall'Igna. In the Superbike World Championship Ducati's track record is even more impressive in pure numbers: The legendary Bikes manufactured in Borgo Panigale near Bologna won 17 manufacturers' titles and 14 riders' titles. And Ducati Rider Michael Ruben Rinaldi had everyone cheering at the most recent race weekend in Misano when he took two wins on home soil, just 140 kilometers from the Ducati factory.

How is the partnership with AVL evolving this year? Under the AVL RACING brand, the cooperation now has official status as a "Technical Partnership", which takes it to another level by linking working processes even more closely than before. Beyond the technical side, it gives AVL access to the racing community on two wheels and the opportunity to promote and showcase AVL's strength in two-wheel racing. "We are very excited to contribute to Ducati Corse's success and support them with our proven calibration and data processing software", says Gianluca Vitale, Global Business Segment Manager for Smart Calibration and Virtualization at AVL. "By using our solutions, Ducati Corse is able to react even faster to technical challenges."

AVL provides Ducati Corse with AVL CAMEO™ and AVL CONCERTO™ to analyze, virtualize and optimize the performance of their race engines for MotoGP and other racing classes. For them, the solution is unique and a piece of the puzzle to be competitive in this dynamic and fast changing environment. With the help of AVL CAMEO™, Ducati Corse will improve its ability to efficiently optimize its race engines through model-based testing and optimization. When using the empirical engine model, it is possible to make quick adaptations to the calibration. All parameters can be optimized with respect to potential constraints without running an engine on a testbed. That gives Ducati Corse an advantage over the tough competition, because time is a crucial factor in motorsport. The engine model can also be used for co-simulations and shared with other departments within the company. This year, the cooperation will focus also on the speed of the calibration process on their race engine testbed in Bologna, using the Active DoE methods offered by CAMEO.



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