



HORSE COMMENCES PRODUCTION OF HR13 FLEX FUEL ENGINE AT CURITIBA

- HORSE commences production of its 1.3-litre, 4-cylinder 'HR13' turbo flex fuel engine at its facility in Curitiba, Brazil
- Engine delivers peak power of 163PS (120kW) and peak torque output of 250Nm from 1,600rpm
- New production facilitated by R\$100 million investment in Curitiba plant
- HORSE is a division of Horse Powertrain, a global leader in hybrid and combustion powertrain solutions across 17 plants and 5 R&D centres

HORSE, a division of Horse Powertrain and a leader in innovative and low-emission powertrain systems, has started production of its 1.3-litre, 4-cylinder 'HR13' engine at its facility in Curitiba, Brazil.

The flex fuel variant of HORSE's HR13 turbo engine has been engineered specifically for the South American market. It can seamlessly run on gasoline and ethanol blends that are staples of Brazilian mobility and is fully compliant with L8 emissions standards.

The powertrain delivers peak power of 163PS (120kW), as well as peak torque load of 250Nm at just 1,600rpm.

Commencement of HR13 production adds to HORSE's growing production abilities in Brazil, following the start of production of its 1.0-litre, 3-cylinder 'HR10' engine earlier in 2024.

The HR13 benefits from a bespoke direct injection system that's been developed specially for ethanol fuel use. Each cylinder is accompanied by a centrally mounted six-hole injectors operating at 200bar pressure, tailored for exceptional fuel atomisation that delivers effortless power and torque without impacting fuel efficiency.

Enabled by a recent R\$100 million investment in the Curitiba facility, HR13 production will be a key output of the plant, which has capacity to produce up to 600,000 units annually across its portfolio of engines.

In 2024, HORSE also announced an investment in a gravity-casting process to produce aluminium cylinder heads for both the HR10 and HR13 engines, as well as expanding its powertrain and emissions testing facilities to service third-party manufacturers in the region.

Wesley Palma, Plant Director at HORSE Curitiba, said: *"The start of HR13 production in Brazil demonstrates our commitment to delivering engineering and manufacturing solutions tailored to local markets. Specifically created with flex fuel capability, the highly efficient HR13 is perfectly suited to Brazilian OEMs and consumers. HORSE is particularly committed to localising key manufacturing processes, such as casting for the engine's cylinder heads."*

Patrice Haettel, CEO of HORSE, said: *"This move reinforces our commitment to the Brazilian market and South America. Our message has always been clear: there's no such thing as a one-size-fits-all approach to global mobility, but instead tailor-made solutions that reflect regional needs. The HR13 reflects this ethos, powered by low-emissions flex fuels and optimised for Brazilian market needs."*

HORSE: a leader in automotive innovation



HORSE was created to provide highly efficient, low-emission engines, transmissions, and technologies to meet the varying power generation needs around the world. HORSE operates eight production plants across seven countries, three R&D centres and a head office based in Madrid, Spain – the company produces 3.2 million units per year for its customers around the world.

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About Horse Powertrain

Horse Powertrain consists of two divisions, Aurobay and HORSE. It is a world leader in hybrid and combustion powertrain solutions. Headquartered in London, UK, the company employs 19,000 people globally across 17 plants and five R&D centres. Horse Powertrain's three shareholders are Renault Group (45%), Geely (45%), and Aramco (10%).

About HORSE

HORSE is a global supplier of innovative powertrain solutions. It believes that there is no one-size-fits-all solution to sustainable mobility and so is investing in technologies which will support the automotive industry, and other sectors requiring power generation, in their transition to a sustainable future. With decades of industrial know-how, HORSE develops, produces and supplies highly efficient full-hybrid, plug-in hybrid and internal combustion powertrains, and cutting-edge technologies (engines, gearboxes, full-hybrid and plug-in hybrid systems, and batteries).

HORSE employs over 9,000 people in seven countries, it is headquartered in Madrid, Spain and has eight manufacturing plants and three R&D centres around the world (Argentina, in Córdoba; Brazil in Curitiba; Chile in Los Andes; Portugal in Aveiro; Romania in Bucharest, Mioveni and Titu; Spain in Seville and Valladolid, and Turkiye in Bursa in partnership with Oyak).

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