

## New Stralis: the TCO<sub>2</sub> Champion

*The New Stralis raises the stakes on profitability and sustainability in every mission from regional, urban and light construction operations to long-haul transport.*

*The all-new driveline, cutting edge technologies and features, and new innovative services dramatically increase efficiency and reliability while minimizing emissions, making the New Stralis a Total Cost of Ownership champion and a CO<sub>2</sub> champion in every mission.*

Madrid, 16 June 2016

Iveco launches the **New Stralis**, which introduces a completely new driveline and, with the best reliability and efficiency, delivers leading edge TCO and CO<sub>2</sub> reduction. The three-vehicle range was developed around customer missions and meets all the requirements of the on-road heavy transportation sector.

The New Stralis is the result of an important investment in product development, testing and production facilities and methods. The New Stralis will fully benefit from the high quality manufacturing technologies and processes at the Madrid plant, which is dedicated to this range, and the Valladolid facility (Spain) that produces and supplies its cabs. Both plants have been completely renewed and reorganised to ensure that they operate at the highest levels of World Class Manufacturing.

### New Stralis: three TCO<sub>2</sub> Champions

The **New Stralis** has been designed to offer the best solution for regional and short-range missions, including transport of hazardous goods, where it maintains the unique advantage given by the exclusive HI-SCR after-treatment system.

A specific version, the New **Stralis XP**, was developed for the demands of the international long-haul transport business, and is packed with innovative fuel-saving features and new services to maximize uptime and fuel efficiency.

The revolutionary New **Stralis NP**, which runs on CNG and LNG, is the most sustainable international transport truck ever and a real breakthrough in the gas truck industry. It is the only natural gas truck to offer the power rating, comfort, transmission technology and fuel autonomy to suit long-distance haulage missions.

**Pierre Lahutte, Iveco Brand President**, commented: "The New Stralis has been designed to lower the TCO and CO<sub>2</sub> of transporters as well providing the very best reliability to its owners. We have added for the customer a new set of services to reduce their TCO. The long-range freight hauling business will drive the whole commercial vehicle market in the years to come: Stralis has all that is needed to lead such a completely reshaped market with the TCO<sub>2</sub> Champion Stralis XP, a truck at the leading edge of technology, and the game changer Stralis NP, the first and only gas truck that has demonstrated it can be used in long-haul missions. We are about to open new frontiers in sustainable transport, and we will make it in partnership with our customers."

### **A new, unique mission-driven approach: product and TCO-reducing services**

On the product, Iveco has **renewed and upgraded all the main technical sub-systems**: the New Stralis features a completely redesigned driveline, a new electrical and electronic architecture, the new best-in-class transmission, rear axle and a rear suspension, and introduces the latest-generation GPS predictive functions and new features to enhance fuel economy and sustainability. In addition, Iveco has developed a new generation of services aimed at reducing the TCO of each model, which represent an exclusive and distinctive element of the New Stralis offer.

### **New Stralis – TCO Champion: Technology to the core**

The developments on the New Stralis focus on energy management to achieve the significant reduction in TCO in every mission and every type of route.

The new engines have been re-engineered to **reduce friction** and a new **anti-idling function** automatically turns off the engine after a pre-set period of time when the vehicle is parked, improving the use of energy.

The **Smart Auxiliaries** on the **New Stralis 480XP and 570XP** prevent energy losses when they are not in use: they include the clutch compressor and air processing unit, energy-recovery alternator with intelligent battery monitoring and a variable-flow steering pump.

The **Smart EGR** system featured on the **New Stralis 480XP and 570XP** is an innovative solution that works in combination with Iveco's patented HI-SCR after-treatment system to optimise combustion, bringing a significant fuel-saving benefit on long-haul routes. It harnesses a small amount of exhaust gas re-circulation (just 8%) to allow an earlier start of injection, reducing fuel consumption while the high 97% tailpipe NOx conversion, which is ensured by the HI-SCR system, is maintained. This revolutionary smart solution has all the advantages of the HI-SCR-only system: no impact on radiator size, no extra maintenance, no weight increase, no parked regeneration and the longest service intervals, resulting in a

further reduction in fuel and TCO. With this solution, Iveco and its engine development partner FPT Industrial once again prove their long-established leadership in fuel efficiency technology.

The **Hi-Cruise GPS predictive driving system**, based on state-of-the-art mapping technology, compares geo-localisation with road topography and accordingly adopts predictive strategies in acceleration, deceleration and gear shifting. This feature simplifies the driver's job, allowing them to focus on safety instead of road routine, and enhances their comfort with a smooth drive. In addition, it delivers substantial fuel savings also with low-skilled drivers.

The **new triple "A" eco-tyres** developed by Michelin minimise rolling resistance, achieving significant fuel savings up to 1.5% on average during first life. This results in an environmental benefit of 1.33 kg less CO<sub>2</sub> every 100 km, which adds up to over 3.7 tonnes during the vehicle's first life. These savings are achieved while maintaining the same grip, robustness and durability.

The **all-new rear axle** with single reduction improves gear geometry, friction and optimises fuel consumption.

These new features result in a double-digit improvement in fuel efficiency compared to the previous model.

In addition new technologies, features and services have been added to reduce TCO even further.

The new-generation, **12-speed HI-TRONIX automated transmission**, developed in collaboration with ZF, is at the forefront of technological advancement in its category and dramatically improves durability and reduces costs. The HI-TRONIX reduces shifting time by 10%, it is designed for almost twice the gearshifts of the previous generation, it can improve durability by up to 1.6 million kilometers, and it abates acoustic emissions by 6db – ideal for quiet night missions – all this while providing best-in-class torque-to-mass ratio, ratio spread and efficiency. In addition, its modular, service-friendly design reduces maintenance and simplifies repairs, with consequent savings. It also offers additional functionalities, such as manoeuvring mode (creep) for low-speed operation, working like a torque-converter transmission, rocking function to recover grip on low-adherence surfaces, 4 reverse gears and a new range of PTOs.

The **rear suspension** has been completely redesigned to make it more mass-efficient and durable, resulting in a lighter suspension while maintaining performance; this translates into 45 kilograms more payload. Higher resistance to corrosion, achieved with surface treatment of all key metallic components, contributes to lower maintenance costs.

The new electric and electronic architecture adopted on New Stralis and New Stralis XP represents a technological breakthrough, and an enabler of further innovation. Based on the MUX concept, it sees on-board electronic units communicate through two physical wires using a common protocol.

The **new HI-MUX** - the Stralis evolution of this concept - has been implemented through the re-design the whole distribution layout and some of its components. Its architecture is modular, split into two for improved flexibility and serviceability and integrated in a new layout with pneumatic, fuel and AdBlue

ducts. HI-MUX allows the development of a detailed design solution for any specific truck configuration, while reducing the number of components and their assembling complexity.

The outstanding reliability and durability of the New Stralis also results in lower **Maintenance and Repairs costs**: 5% less than a current model with a standard 3-year contract and 8% with a 4-year one, improving on a cost that was already very competitive and cutting further overall TCO.

## **New Stralis CO<sub>2</sub> Champion: sustainability and performance in transport**

### **A wide and well-balanced range of engines to suit all applications**

The New Stralis features Iveco Cursor 6-cylinder engines equipped with new mission-specific fuel-saving solutions. The wide range of engines for the New Stralis includes 3 displacements, with the Cursor 9 at 8.7 litres, Cursor 11 at 11.1 litres and Cursor 13 at 12.9 litres, and 9 power ratings ranging from 310 to 570 hp, all providing class-leading power and torque density.

The new Stralis' environmental performance has been improved further through the engines' greater efficiency and a boost in performance on some models: maximum torque on the Cursor 11 has been raised by 100 Nm on the 420 hp engine and by 50 Nm on the 480 hp, while maximum power on the Cursor 13 reaches 510 and 570 hp.

### **HI-SCR: Iveco's signature technology**

The New Stralis features the patented HI-SCR, the best selective catalytic reduction system on the market and the only one that achieves a **97% NO<sub>x</sub>-abatement** level, meeting Euro VI standards without EGR. In its Euro VI/C version, HI-SCR also detects in real time any variance in the emission level through new AdBlue sensors that provide continuous, accurate emission management.

With HI-SCR there is no active regeneration and exhaust temperature is lower: this makes the New Stralis the ideal truck for working in restricted areas such as airports, ships, tunnels, refineries and fuel loading bays, as well as for dangerous goods transport missions.

HI-SCR is a compact, lightweight technology that offers the best combination of efficiency and service life. It also has the longest maintenance intervals on the market, maximising uptime, and delivers excellent fuel efficiency. It all adds up to the exceptionally low TCO and outstanding sustainability of the New Stralis, the TCO<sub>2</sub> champion.

## **New Stralis XP: the long-haul TCO<sub>2</sub> Champion**

The New Stralis 480XP and 570XP have been developed for extra-long haul missions. They bristle with new fuel-saving features and cutting-edge technologies such as the innovative Smart EGR, and come with new services designed to ensure maximum uptime, providing a real opportunity for long-distance haulage businesses looking for maximum fuel savings and the lowest TCO – a segment that accounts for 60% of the industry.

The New Stralis XP is the most reliable and fuel efficient truck available on the market and provides the most comprehensive solution for long-haul transport in a package that integrates product and services designed to reduce TCO and CO<sub>2</sub>.

With fuel savings of up to 11% and an impressive TCO reduction of up to 5.6% in long-distance transport operations, it is the long haulage TCO<sub>2</sub> Champion.

## **New Stralis NP: a green revolution in the world of transport**

New Stralis NP is the first gas-fuelled truck ever to offer power, fuel autonomy, driving comfort and liveability to international haulage standards. It reduces Total Cost of Ownership **by 3% versus the previous CNG model**, and its payback period can be as low as 5 years (depending on the country it is based in). The new 9-litre LNG / CNG Natural Gas engine achieves the best power rating ever for this kind of fuelling: 400 hp with 1,700 Nm torque. This corresponds to a ratio of 10 hp per tonne of load, which is in line with commercial long-distance standards.

It is the first alternative-fuel long-haul vehicle to offer transport businesses the opportunity of improving both **sustainability and return on investment**.

## **New generation services: TCO<sub>2</sub> Live and Uptime Guarantee**

Iveco **TCO<sub>2</sub> LIVE** is a new modular portfolio of services that includes for the first time new-generation services and extends to fleet management and traditional after-sales activities.

Three of these new services are based on fuel consultancy helping customers operate their New Stralis in the most fuel-efficient manner:

- **TCO<sub>2</sub> SMART REPORT**, a weekly reporting on driving style and fuel consumption of each vehicle in the fleet.
- **TCO<sub>2</sub> ADVISING**, advice on fuel saving based on the wealth of information collected through Iveco's real-life truck analysis.

The combination of these services can generate additional fuel savings of up to 3%. Both can be integrated by:

- **TCO<sub>2</sub> DRIVING**, fuel-conscious driving style courses.

In addition, New Stralis features the **DRIVING STYLE EVALUATION** system, which acts as a professional on-board instructor, helping drivers improve their driving style by providing suggestions in real time.

Finally the exclusive **Iveco UPTIME GUARANTEE** that relies on the New Stralis' reliability and the excellence of Iveco's service network to keep the customers' vehicles on the road. This formula gets the customer back on the road within 24 hours if their New Stralis should become inoperable, either by repairing their vehicle, providing a replacement truck or, if unavailable, daily compensation for up to 4 days spent in the workshop. This service is delivered through Iveco's Truck Stations, which are being deployed along all the main European transport corridors to deliver the Uptime Guarantee commitment.

## Iveco

*Iveco is a brand of CNH Industrial N.V., a World leader in Capital Goods listed on the New York Stock Exchange (NYSE: CNHI) and on the Mercato Telematico Azionario of the Borsa Italiana (MI: CNHI). Iveco designs, manufactures and markets a wide range of light, medium and heavy commercial vehicles, off-road trucks, and vehicles for applications such as off-road missions.*

*The brand's wide range of products include the Daily, a vehicle that covers the 3 – 7 ton vehicle weight segment, the Eurocargo from 6 – 19 tons, the Trakker (dedicated to off-road missions) and the Stralis, both over 16 tons. In addition, the Iveco Astra brand builds off-road trucks, rigid and articulated dumpers as well as special vehicles.*

*Iveco employs close to 21,000 individuals globally. It manages production sites in 7 countries throughout Europe, Asia, Africa, Oceania and Latin America where it produces vehicles featuring the latest advanced technologies. 4,200 sales and service outlets in over 160 countries guarantee technical support wherever an Iveco vehicle is at work.*

For further information about Iveco: [www.iveco.com](http://www.iveco.com)

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