

# TRADE PARTNER EUROPE

## AUTOMOTIVE TEST OF THE YEAR 2010



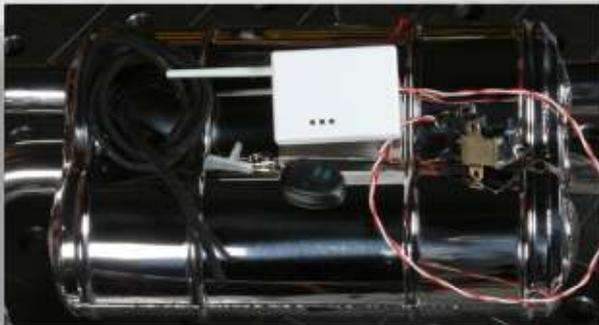
### Supercars Sport Exhausts 2010

# ...THE ROAR OF THE BEASTS !

Since 1988, Trade Partner Automotive, alongside automotive media leaders and experts has promoted in the worldwide car aftermarket the most durable car parts & solutions, from the best technology manufacturers, supportive of a good care for customers. Importers, Tier1, suppliers, resellers, importers have always trusted our advice and recommendations.

# TRADE PARTNER EUROPE

## AUTOMOTIVE TEST OF THE YEAR 2010



For the automotive test 2010, we decided to take a close look at the niche market of the Supercars. We have tested for you super sports exhausts, customized engineering tailor made to replace the original manufacturer systems.

These days the world and politics begin to show an eco friendly mood for electric cars and silence. Are those still cars or transportation devices to take us from a place to another?

When the world praise F1 races and International Motor Shows, always crowded with passionate visitors, we feel better. There is no doubt that the power of motor technology, fast machines development will always drive our passions.

*The dream of the ultimate cars will always remain.*

Sports cars are head turners, enhancing pleasure. Though they are rare in our daily landscape, symbols of grandiose, prestige, thrill, performances...

What about their acoustics?

Supercars are not only power, cutting edge aesthetics, phenomenal handling, they are about SOUND too!

Who has never felt the vibrations of a V12 deep grunt, sitting at a traffic light, or heard a phenomenal revving V8 when driving in a tunnel..

It's too bad that car noises don't translate well to print. But the most committed among us know what a sports car sounds like. Or what it means to talk about a car while using your hands to illustrate the curve of the road you just smoked through, or what steering inputs it takes to negotiate a particular corner.

If all this makes sense to you, then you will feel the emotional heat that boils out of the Ferrari, Lamborghinis, and Porsche on our test bench.

Our 48 hours tests enhanced their presence and performances by fitting on each car various special sports exhausts. All manufactured by four of the best specialists in the world.

During two days we took four supercars to the next level, pushing the sound of their engines to a superior level!

The four sports exhausts manufacturers were carefully chosen by our Motor specialists amongst worldwide renowned manufacturers, according criteria of quality, state of the art engineering, years of expertise and a solid presence in the market segment of high-end sports cars.

For 48 hours, on a private British track we tested nine of their exhausts on 4 flagships in the supercar world:

A Lamborghini Murcielago, a Lamborghini Gallardo, a Ferrari 360 F1, and a Porsche Boxter Sport S.

"Pardon me? Did you say a Boxter?!" Yes that is correct.

It came as a well thought decision to choose this German model (instead of a proposed 997 Turbo).

Despite the critics of 911 flat-six purists, it is a matter of fact that the latest version of the Boxter shows an incredible potential, and it has acquired its Porsche label since it was born. The main question is: can a sports exhaust transform it into an 'even better' Porsche?



## OUR SPORTS EXHAUSTS CHOICE

These days amongst the innumerable sports exhausts manufacturers, various quality and reputation, we have selected four of the finest in the world, contributing to supercars growth and refinement for years: Stebro, Tubistyle, Capristo and Kreissieg.

**Tubistyle Italy** is possibly the best known brand amongst the Sports cars fans, worldwide distributed in over 30 countries and known for their excellence in design, development, production with cutting-edge materials, equipping most of the cars range in the sector from BMW to Ferrari, not to mention Aston Martin and Ford. A wide range of products for a wide range of customers.

**Kreissieg** originally Headquartered in Yokohame Japan nowadays develop sports exhausts for Italian and Japanese sports cars. They are known under the KsG™ logo pointing its Valvetronic F1 system. They remain known from specialized car geeks overseas, mainly Japan and Emirates. Though they are known in Europe and now equip German cars such as BMW with optional wireless exhaust controller system. We selected the brand for its competitive ratio price/quality/performance.

**Stebro** is a manufacturer of stainless steel performance exhaust systems for European cars since 1956. Most products are designed and manufactured in Canada and shipped worldwide. Their distinct trademark is recognized for exhaust system performance build quality and also leading sound quality. It is frequent to find their exhausts equipping sports cars produced over the past 20 years.

**Capristo** operates in the niche segment of the supercars. They are the typical performance exhausts developers "Made in Germany" with the label of quality. Their products result in superb design, expertise and performance optimization. Their newest systems are fitted with wireless remote control conversion kits to control the gas exhaust flow. Their business focus targets mainly the German sports cars Audi, Porsche, Volkswagen, and the Italian supercars Ferrari, Lamborghini and Maserati.



**STEBRO**



Keeping your technology ahead worldwide

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## TIME TO SWITCH ON NOW!

The cars in their original configuration were equipped with the different exhausts.

Every exhaust was tested in normal driving and harsh racing conditions, submitted to high temperatures within period of time.

Did these supercars become better?

Answers.

### TEST 1 : EMISSIONS & NORMS

**Stebro, Tubistyle, Capristo and Kresseig: Equal!**

Generally the emissions tests requirements provided by all manufacturers match and should meet the original gas emissions requirements for each year and model of vehicle. Important note: we are not to do the job of authorities' car test specialists. Though on the emission test benches all cars tested with various exhausts were suitable for each year and model of vehicle, and with a perfect fix to catalytic converters, always designed to obtain better flow rates and improved performance.

The Stebro system tested on the Ferrari 360 F1 also meets many track DB LIMITS with a maximum DB level measured at 93 which is achieved through their large capacity internal exhaust chamber. The system comes with adjustable tip inserts for "quick change" DB limit alteration under racing conditions.

### TEST 2: PERFORMANCE

**Kresseig and Capristo win!**

Generally all exhausts systems are designed to increase the performance characteristics for each vehicle application. Free flowing muffler and resonator interiors increase both BHP and torque as well as providing heat reduction in the engine compartment.

The remarkable feature when we fitted the Muffler exhaust Kresseig on the Murcielago was the weight reduction. The

system we tested presented a perfect lighter replacement to the original compared to the stock applications. The Lamborghini already a sound breath taking car in high rev became in itself a mesmerizing machine.

On all tested cars, we measured slight horsepower increase through more efficient exhaust-fume dispensation, less overheating especially when at full-throttle and a noticeable improvement at going through all the gears.

The new stainless steel performance Sport exhaust system from Stebro on the Porsche Boxter S gave a perfect sound. This system was specifically designed for the Boxster S models only. Strangely enough, the best sound was obtained at lower revs, as if the car fitted with the exhaust would deliver the best sound in a cruising mode, or in a posing mode! This system less aggressive than the Racing System appear as a more refined version (+75% flow), a reduced weight of 70% and a claimed cross flow design of +25bhp with a enhanced sound quality that meets or exceeds the track racing 96 db limit.

This exhaust is now available on the market.

On our Ferrari 360 F1, we tested the Stebro Racing Development designed for the Challenge racing series. This system offers larger 3" exit pipes compared to the stock Challenge 2.25" exit pipes. This results in better flow characteristics and incredible sound quality, with a reduction of temperatures.

The scream of the Ferrari became very aggressive and purely loud.

Performance wise, it was hardly noticeable to see any BHP improvement with the Ferrari (flywheel test on the bench), a slight power increase. But once again, the test did not intend to tune or modify the essence and the original power parameters of the cars.

Stebro as a exhaust pioneer producer can equip most classic sports cars also, 1970s Porsche, 1980 Maserati and 1990 Ferrari. Legendary with their traditional sports exhausts for classics, and still on the climb for new exhausts for modern cars.

With its cutting edge technology, the Capristo fitted on the Gallardo 05 of our test transformed the car. After fitting the TubiStyle first, the difference in sound and style was massive. From a Tubi fizzy sound F1 type, generally appreciated by most, we got a deep aggressive grunt with the Capristo model.

Acoustics preferences are objectively a question of individual choices, but clearly the Capristo exhaust fitted on the Gallardo has shown a particular engineering effort based on a clear knowledge of Lamborghini motors engineering, with the use of stronger, lighter stainless steel materials combined with less interior components and a cutting edge design made for last, made for performances.



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## TEST 4: SOUND QUALITY

### Advantage Stebro, but Capristo wins!

Sound is the essence of the test, so let us take the aural pleasure to the next level. No burning ears, but purely acoustics and melodies!

Every system has shown to be louder than the series system and has transformed aggressively the four car personalities undoubtedly.

The Porsche Boxter, purposely chosen, for the reasons explained previously has been superbly converted into a very masculine car with the Stebro sports model. It made the car sound good and very sporty. Good work from Stebro: a better sound, and finally we can hear those BHPs.

We appreciate the control programmable system from Capristo to control the exhaust volume and gas.

The Gallardo fitted with the Tubi exhaust transformed a wise light V10 car in an high revving fizzy missile over 6000RPM. The Tubi exhaust gives a real high-pitched F1 scream when you open the throttle.

The Murcielago fitted with the Kreisseig became a loud and aggressive car. Performance combined with excellent sound quality distinguishes Capristo from all other exhaust manufacturers. The system tested on the gallardo provided a complete driving experience boasting performance with a unique sport sound quality.

All Capristo Sports systems can be ordered in three versions: Louder than standard, pleasant on a daily use, or a version lighter yet more solid sound, or for your track days a very aggressive sound version. Capristo Exhaust Systems has launched a new Exhaust Control system designed for vehicles with serial flaps exhaust systems; with Control system monitoring constantly the pressure within the exhaust system and when the back pressure increases under acceleration, it opens the hatches at the muffler, causing the pressure to sink.

This offers two operating modes, travel and sport, which can be switched at a push of a button. In sport mode, the system opens the hatches earlier for maximum engine output.

The Exhaust Control also offers the possibility to drive all the time with the hatches open.

## TEST 3: SYSTEM DESIGN & QUALITY

### Capristo and Kreisseig win!

Stebro designs exhaust systems to be lighter, stronger and more efficient than OEM style systems. Less interior components provide a durable, long lasting design. Below is a typical internal performance design from a Stebro resonator chamber. The Tubistyle is of good manufacturing, but we were slightly disappointed by the cosmetic of the product, comparing to the Kreisseig piece of engineering or the Capristo with its details and finishing quality.

It is the design we can expect from a Lamborghini exhaust, the type of product you would display in your living room to replace the aquarium on a piece of furniture. Though, the rest of the household may disagree.

The Kreisseig is a well finished exhaust, superb welding, carefully chosen stainless steel. The engineered model tested on the Murcielago is very appropriate to create sound and performance with a special design to reduce failures in both street and race conditions. The V12 has never breathed so comfortably.

## TEST 5: WELDING PROCESS & QUALITY

### Stebro, Kreisseig & Capristo win!

Generally there is a feel of quality and welding processes are good on all the products. The original mounting points are used to attach all exhausts.

Stebro hand manufactures all of its exhaust systems to ensure excellent craftsmanship, utilizing both MIG and TIG welding in stainless steel welding processes along with the latest computerized welding equipment.

This is the common case these days that we can expect from these leading manufacturers.

Tubi Style quality is good, but we were slightly disappointed when we unpacked the exhaust from its box. We did to see a beautifully polished product, the product directly gone from a mass serie production line One should expect more in terms of cosmetic, than a stainless steel can, though well welded processed.

The stainless steel Capristo shows a great quality, built on state of the art production machines, and perfect fitting accuracy.

Depending on your preference you have the choice between carbon-fibre or stainless steel end pipes.



## TO POWER OFF...

First of all, this test would not have been successful without all experts attending the event and contributing with their know-how.

Special thanks to European Sport Auto journalists, the contribution of Racing Series (Formula one commentators team), Michael McIntyre (Parkside Media NewZealand, Japan), Paul Pironi (Car Race International)

The French and English automotive engineers, competition specialists with their phenomenal work in the lead of the tests. We will particularly thank the Jacob Sports French teams (Nogaro/ 24H Le Mans/Silverstone Racing/ Monaco Formula One events) and the UK Grimaldi Engineering teams (Ferrari/Lamborghini Specialists), dedicated fine experts led by Roberto, at their best to achieve efficient road tests, cars conversions and electronic measurements, under tight schedules.

This year, we had to make a decision to decide which exhaust should get the award TradePartner Automotive 2010.

Overall, the four manufacturers reflect a history of driven passion for racing and high standards in manufacturing.

Products with life warranty, commitment to customer satisfaction, exhaust engineered and designed on fine motor tuning. There is a unanimous goal to provide quality systems for discerning customers in a current market flooded by poor quality and cheap exhausts.

Each of our four specialists' exhaust produced its effect, its particular sound, its cosmetic, the definite result of long-term expertise and solid engineering.

Nevertheless, one exhaust made a special impression on everyone, from the moment it came out of its box, with a state-of-the-art engineering and a good cosmetic.

This same exhaust kept in the lead all along, passing all test days with flying colors, ahead of the race.

This exhaust is the Capristo sports model for Lamborghini Gallardo.

Good marks on every test, and the best mark for its sound!

The German manufacturer has managed to produce what a supercar owner should expect from a supercar exhaust:

High quality, precise engineering, surgical precision in the welding process, and pure sound.

Clearly, the German engineering tradition is perpetuated with the appreciated ethos of producing exhausts for supercars only.

Also, Capristo aims at the sports cars bull eye of the market, with no attempt to tackle the mass market. Super exhausts for supercars only!

And when it is about SOUND, a main point came to everybody's attention:

One car has shown more metamorphosis than others.

Capristo has managed to transform a polite Gallardo into a grunting supercar.

## ... A WINNER.

And finally...

THE GALLARDO HAS BECOME A LAMBORGHINI...

IT IS WHAT WE HAVE EXPECTED FOR A LONG TIME.

DANKECHEN CAPRISTO!

