



Kap[®] SAM

PRESS PACK





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INTRODUCTION

SAM Outillage presents its latest innovation, the **Kap'SAM®**, an intelligent high-performance jump starter. Intended for all car repair and breakdown recovery professionals, it is a radical solution for the main cause of vehicle breakdowns: **the flat battery**. **Kap'SAM®** is already referenced by PSA (Peugeot-Citroën) and Renault.



1 | The latest innovation from the French firm

SAM Outillage confirms its expertise and positions itself once again as a leading player in research and development on technical solutions for the automotive market. The Kap'SAM® demonstrates the firm's proficiency in the field of electronic power management.

The launch of this brand new product is a concrete result of the firm's **Customer Focus strategy**, named «Cap 4.i» and centred on 4 areas:

Innovation with the product/service combination offered, **Internationalisation** with the PTS, RODAC and SAM brands, **Internet** with intelligent, connected and communicating devices and finally the fulfilment of the **Individual**, with a view to achieving optimum customer satisfaction.

The Kap'SAM®, designed and developed entirely by SAM Outillage, is a revolutionary piece of workshop equipment: This unique patented product is the first in the world to provide a solution to all the issues faced by breakdown recovery professionals, which no known battery booster has yet been able to overcome. This vehicle jump starter uses a completely new technology, based on the synchronisation and controlled management of high-quality, latest-generation electronic components, in order to give users all the power, reliability and safety they need when starting a vehicle, thanks to a practical, ergonomic product.



2 | Kap'SAM[®], a jump starter with no battery and no need to charge from the mains



Technically, the Kap'SAM[®] is a device that can produce a large amount of spontaneous power and has an impressive capacitance in the 12V version, with a current of 1600 amps in start mode and a peak current of almost 9000, or a capacitance of almost 500 farads.

This makes it a tool that is unmatched on the market, one that for example could light **240,000 light bulbs in a fraction of a second.**

Equipped with an ingenious batteryless system, the Kap'SAM[®], unlike its predecessors, never needs to be plugged into the mains to recover its capacity. It automatically recharges itself to 100% in a few seconds, as soon as the broken-down vehicle's engine starts running again. It is therefore ready to go again immediately.

The Kap'SAM[®]'s power source has been tested to more than 1,000,000 charge/discharge cycles, without any loss of capacity or power. It can therefore start as many vehicles as necessary (10, 100, 1000 ...) with no risk of running low or being damaged. SAM Outillage guarantees a service life and continuous power for at least 5 years.

The peripheral materials are all of very high quality: the clips and cables are designed for indispensable easy handling and accessibility. The cables are double sheathed, 16 mm in diameter, entirely made of copper, with a 35 m² cross section and 185 cm long. The entirely insulated clips with 45° curved jaws, can be fastened onto the most inaccessible batteries, on all types of vehicles, small or large: cars, motorcycles, SUVs, 4X4s, vans, agricultural machinery, etc.].

A brand new technology for endless use.

Combining power, autonomy and ergonomics, the Kap'SAM® is guaranteed to work whatever the terrain and however extreme the conditions. The device is designed to withstand temperatures from -20°C to + 40°C and is perfectly protected and sealed against dust and rain. Discreet black bumpers provide practical anti-impact protection during transport.



3 | Kap'SAM[®], environmentally-friendly, in line with the aims of the COP21

This product developed in Sam Outillage's own SAMTECH R&D Innovation laboratory represents an industrial choice in favour of safety and eco-responsibility. The launching of the Kap'SAM[®] during the COP21 conference is an illustration of how SAM Outillage, winner of the corporate citizenship award in 2011, takes account of the environmental impact of its products.

Using the Kap'SAM[®] means being sure to work better and more safely: all the sensitive parts are designed to resist the different electrical risks. By opting for this product, users will be carrying secure electronic management with them, eliminating the risk of damaging an on-board computer by reversing the polarities or causing an electric shock by a short circuit. Its internal programming prevents it operating if it detects an incorrect connection.



SAM has also designed a specific mode known as «forced start mode» enabling the device to start a vehicle whose battery is deeply discharged. The Kap'SAM[®] comes with a spare fuse, visible and accessible to the user.

The KAP'SAM[®]'s batteryless jump start technology also means that the maintenance required on the device has been reduced to a strict minimum. The user no longer has to worry about recharging it or how to store it. The device, with unheard-of efficiency, is always ready to go!

The 5-year warranty is proof of SAM Outillage's confidence in the reliability of the Kap'SAM[®].

It features an attractive, modern polycarbonate casing. It is 50 % lighter than a conventional jump starter, weighing in at only 8 kilos. Its compact size means it can be stowed easily and discreetly in any breakdown vehicle.

The Kap'SAM® is intended for a wide market and has been granted technical approval at European level with a worldwide extension. It is now one of the leading French products in terms of potential on foreign markets. The product is already referenced by the 2 French car manufacturers as well as being recommended by many networks. The other European manufacturers have been contacted and tests are ongoing.

4

A little history...

100 YEARS OF INNOVAION AND OVER 500 MILLION TOOLS FORGED SINCE THE COMPANY BEGAN



A family firm founded in 1906, SAM Outillage (formerly Les Forges Stéphanoises) is a French manufacturer specialised in a wide range of hand tools.

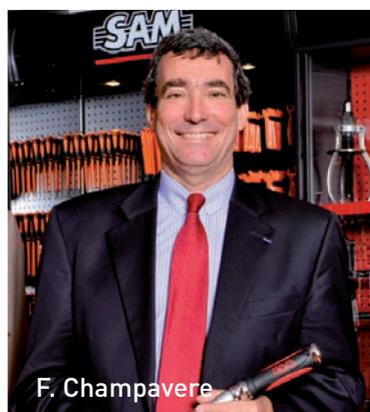
Historically based in Saint-Etienne (Loire), **the company is run by Mr Frédéric Champavere, Chairman, and Olivier Blanc, General Manager, both of whom are great-grandsons of the founder.**

With a workforce of 200 people all dedicated to achieving customer satisfaction, SAM OUTILLAGE offers a catalogue of **over 9,000 different items.**

SAM OUTILLAGE has **over 5,000 customers** active in four segments: industrial maintenance, automotive, construction and the export market.

The company is ISO 9001 certified and has **5 subsidiaries** (Vendargues), Spain, Belgium, Germany and the Netherlands). It distributes its products in **70 countries.**

5 | Three questions for Frédéric Champavere, Chairman & Olivier Blanc, General Manager



F. Champavere



O. Blanc

1/ How would you define SAM Outillage's strategy?

Following the takeover bid finalised in 2014, SAM Outillage is once again a purely family business, which benefits from over a century of experience in the field of hand tools for professionals. To strengthen its position on its two major segments, industrial maintenance and automobile repair, SAM Outillage has undertaken a number of targeted external growth operations (takeovers of PTS, Rodac, Sova2i, etc.) as well as making substantial investments in R&D. As well as traditional tools, SAM Outillage is developing technical and technological solutions in the following fields: workstations (including storage furniture), measuring tools (including torque wrenches), air tools (including standalone solutions), safety tools (1000V insulation, FME, etc.) and specific tools for the automotive sector. The company's strategy focuses on what we call the 4 Is: Innovation, Internationalisation, Internet and the Individual.

2/ Can you give us some examples of innovation at SAM Outillage?

Over the century or so that it has existed, we at SAM Outillage have always been keen discoverers of new ideas. We invented the hollow offset socket wrench, the break back torque wrench, etc. 4 years ago we decided to ramp up the innovation process and since then each year we have invested over 5% of our turnover in R&D. Today the department has over a dozen engineers working in a very wide variety of technical areas.

But the most important thing is the way these innovations are developed, scrupulously following the method known as «POC» (proof of concept), meaning that they are developed in interaction with «sponsors» who are the customers and end users of these innovations. This is how the mechatronic torque wrench was developed by the R&D teams of Airbus and Kap'SAM working in perfect symbiosis with teams at two major car manufacturers, Renault and PSA Peugeot-Citroën.

3/ How did the Kap'SAM come about?

Five years ago, based on an analysis of our warranty returns, we found that the conventional jump starter was in the top 10, as we had already noted when it was first put on the market.

Battery failure and the studies our engineers were already doing on new power sources, led us to embark on the initial research on a new way of jump starting vehicles.

6 | PRESS CONTACT

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