

# Research and Technology

WE WORK TO DEVELOP AND TO DELIVER PRODUCTS WHICH ARE THE BEST SOLUTIONS FOR DATA SECURITY: EASY TO USE, RELIABLE AND OF UNCOMPARABLE QUALITY

Research and Development is the driving force at Elcoman, we are constantly searching for innovative solutions. We don't follow the market requirements, but with our products, we change the standard market attitudes.

Each KOBRA product is designed and built with obsessive attention to detail, aiming at perfection and the outcome is a product second to none.



## THE MARKET IS ASKING TO SHRED DOCUMENTS IN A MORE COMFORTABLE WAY?

The new KOBRA +3 shredders are equipped with the revolutionary **"Throw and Shred" System** based on a special automatic feeder mechanism to shred crumpled paper in addition to regular paper, CDs, Credit cards and DVDs.

## THE CUSTOMERS WANT TO REDUCE THEIR POWER CONSUMPTION AS FAR AS POSSIBLE AND ARE SENSITIVE TO ENVIRONMENTAL ISSUES?

The technological solution is the **"ENERGY SMART" System** with LED which allows KOBRA shredders to achieve zero power consumption when the machine is on stand-by with resulting savings and reduced carbon dioxide emissions of roughly 65 kg per machine, in line with the Green Law already in force in Japan and USA and the Kyoto Protocol.

Is there a problem separating paper from the plastic waste of CDs, DVDs, Floppy discs and credit cards?

Two separate sets of cutting knives separate the different shredding materials. The special removable double waste bin in the KOBRA 240, KOBRA 240 TURBO, KOBRA+2 and KOBRA+3 shredders, with no need of plastic bags, allows the separation of paper and plastic shreds.

ENERGY SMART  
SYSTEM

TWO  
SETS OF  
CUTTING KNIVES  
TWO  
WASTE BINS

ELCOMAN

**KOBRA**<sup>®</sup>  
Shredders

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24H/24 H  
CONTINUOUS  
DUTY MOTORS



## THERE'S NO TIME IN THE OFFICE TO WAIT FOR SHREDDERS TO COOL DOWN AFTER USE?

Elcoman has thought of this too. No duty cycles, no interruptions, because KOBRA shredders work no-stop 24h/24h without overheating and are always ready to work. KOBRA shredders are equipped with 24 hour continuous duty motors for long shredding operations.

AUTOMATIC  
REVERSE



## IF YOU DO NOT COUNT THE SHEETS INSERTED IN THE MACHINE, HOW CAN I AVOID JAMS?

KOBRA shredders are equipped with a special "AUTOMATIC REVERSE" which detects the thickness of the paper entering the shredder and automatically rejects the paper in case paper capacity has been exceeded and a paper jam is about to occur.

How is it possible to solve jams? Elcoman's innovative technology to avoid paper jams is in the "TURBO BOOST" System, available in the KOBRA 240 line: just press the turbo button and increase the shredding capacity up to 52 sheets at a time, with no jams.

METAL  
DETECTION  
SYSTEM



## DO YOU WANT TO PRESERVE THE INTEGRITY OF CUTTING KNIVES?

A sophisticated "METAL DETECTION" System has been developed to protect the High Security KOBRA shredders from damages caused by the introduction of metal of a size which can damage the cutting knives. This special device senses the metal and stops the machine functions before the metal object can reach the cutting knives. A light indicator shows the operator that the Metal Detection system has stopped the machine in order to allow the removing of the piece of metal.

AUTOMATIC  
OILER



## WOULD YOU APPRECIATE THE CONVENIENCE OF AUTOMATIC LUBRICATION OF THE SHREDDER CUTTING KNIVES?

Kobra "ACCU-FLOW" - automatic oiler, available as an optional on the KOBRA HS High Security (Levels 5 and 6) range, automatically lubricates the cutting knives while the machine is in operation, cutting out the need for manual oiling.

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**CHAIN DRIVE  
AND STEEL  
GEARS**

## **FED UP WITH THE PLASTIC GEARS ALWAYS BREAKING IN LOW QUALITY SHREDDERS?**

KOBRA shredders are equipped with **chain drive and steel gears with a high carbon grade** for maximum wear and durability. Steel strippers and steel combs together with carbon hardened cutting knives provide unmatched resistance and durability.



**KOBRA  
CYCLONE**

## **BIG COMPANIES NEED A SOLUTION FOR DESTROYING ENTIRE ARCHIVES IN PAPER FORM AND MASSIVE QUANTITIES OF DATA CARRIERS?**

The **KOBRA Cyclone shredder** can deal with up to 500 sheets of paper at a time as well as credit cards (45,000/hour), CD-ROMs and DVDs (15,000/hour), Floppy discs (7,000/hour), aluminium cans and plastic bottles using its exclusive technology of a turbine producing an airflow and high speed rotating blades. 5 different security levels are available and it's always possible to switch the machine to any of the available security levels by a quick modification which takes only a few minutes.

## **MILITARY AND GOVERNMENT BODIES NEED TO DESTROY TOP SECRET DOCUMENTS AT THE HIGHEST SECURITY LEVEL?**

Elcoman has exceeded the standards on high security with the KOBRA HS in High Security levels 5 and 6, shredding a document into 16,000 tiny shreds which cannot even be reassembled through electronic microscopes.

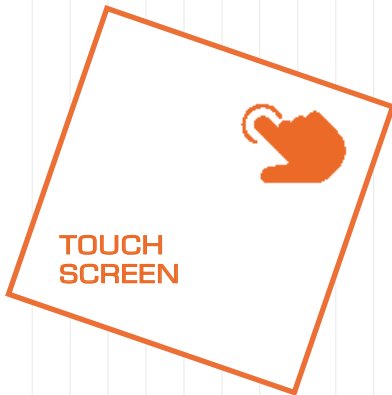
Top Secret documents cannot be destroyed due to power failure? In case of an emergency or even a terrorist attack this fear disappears with the High Security model KOBRA 260 HS-2: a special mechanism allows the manual destruction of documents, thus eliminating the risk of important data or secrets falling into the wrong hands.

Optical media should be destroyed at the highest security level? The new model KOBRA 400 HS-OM is the only available machine capable to shred CDs, DVDs and credit cards at Top Secret level, through the special 2.5 x 1.5mm cutting system. The tiny size of the shreds doesn't allow any possibility to retrieve or read any information left on small optical media particles even through specific and dedicated electronic equipments.

**ELCOMAN**

**KOBRA®**  
Shredders

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## EASY AND CONVENIENT TOUCH SCREEN

KOBRA TS Line shredders use a **Touch Screen technology**. A large Touch Screen panel located at easy reach of the operator shows all machine functions which can be activated just with a touch on the screen. LED optical indicators are constantly monitoring the power consumption of the machine in order to avoid paper jams. A special function allows to run the machine in forward mode in case of shredding of transparencies or microfilms.



## AUTOMATIC FEEDER

The **KOBRA AF.1 models** featuring the world's fastest automatic feed system with a speed of up to 37 sheets per minute and an extremely low sensitivity to the quality of the paper with an electronic combination lock protecting the documents which are being shredding from prying eyes.



## SMARTPHONES, TABLETS, ELECTRONIC CARDS, MEMORY STICK, USB DISINTEGRATOR

The latest development introduced by Elcoman is **KOBRA SSD - High Security Disintegrator** designed to destroy smartphones, solid state devices, memory sticks, USB pen drives, tablets, electronic cards, credit cards and identity cards with integrated chips and / or Integrated magnetic, CD / DVDs, IC memory chips, CPU chips with internal ROM and / or flash memory. The material is reduced to sand-like texture fragments. Kobra SSD is approved by NSA and meets the NSA/CSS Specifications for Solid State Devices destruction.

Elcoman engineers in our R&D department are already working on many other projects to make office work easier.