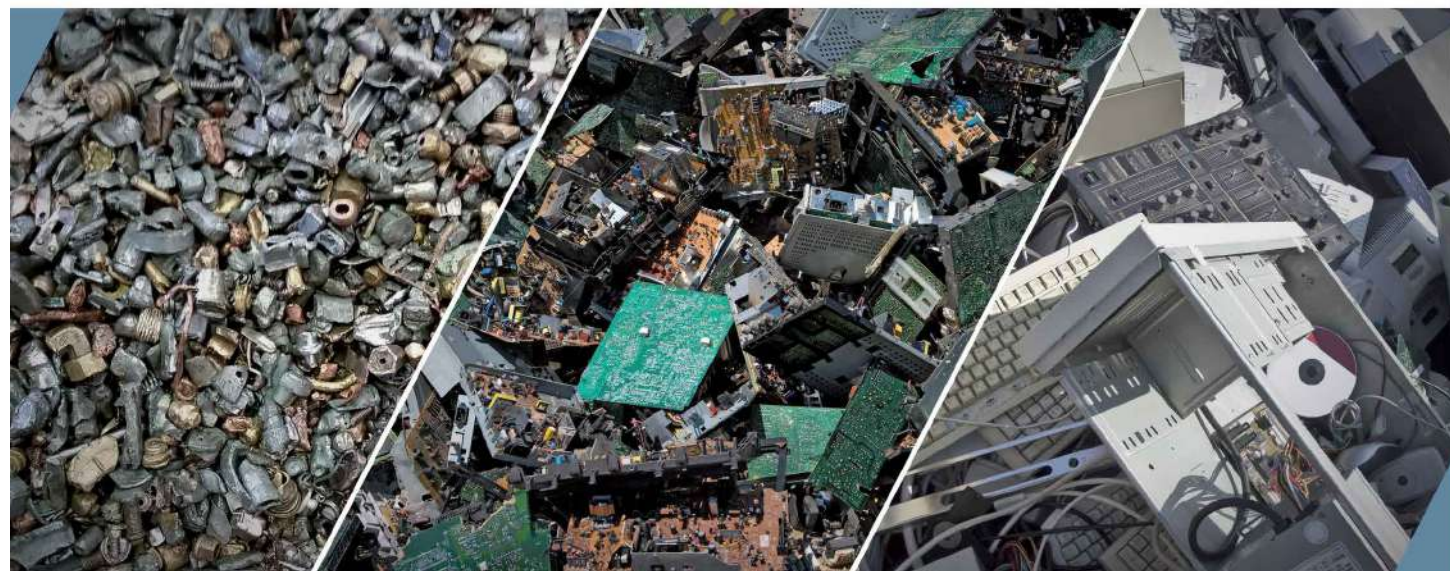




PELLENC ST

SELECTIVE TECHNOLOGIES



METAL AND E-WASTE SORTING

PELLENCST.COM

PRODUCT DATA

MISTRAL TRIUM



The **Mistral Trium** combines **three technologies**: NIR Spectrometry, Visible Spectrometry, Inductive Sensing. This powerful combination machine has a high detection sensitivity of metal backed with the quality of resolution and detectability of materials and colors of the renowned Pellenc ST Mistral Machine.

THE TECHNOLOGY

With the **Mistral Trium**, Metal detection is achieved using a state-of-the-art inductive sensor with **adjustable sensitivity**. The benefits of Inductive Sensing over other metal detection technologies include the ability to detect all kinds of metals: ferrous, non-ferrous (including, for example, stainless steel).

NIR spectrometry and Visible spectrometry by Pellenc ST count among the most advanced optical sorting technologies available on the market for detection and separation of materials and colors. It has been satisfying the needs of even the most demanding customers for over a decade, and has been installed on more than 1,000 machines worldwide.

THE BENEFITS



HIGH SENSITIVITY
all-metal, detection



ABLE TO DETECT metal particles down to 1.5 mm in size, at 3 m/s



UNIQUE COMBINATION
of three leading technologies: inductive, NIR Spectrometry, Visible Spectrometry



ENHANCED SOFTWARE
and combination capabilities



PERFORMANCE MONITORING
and display with Pellenc ST's unique software feature Stat Pack

Able to detect metal particles down to 1.5 mm in size, at 3 m/s

1,5mm



TRIUM APPLICATIONS

Metal or E-Waste streams (large or small domestic appliances, End-of-Life Vehicles, Electric and Electronic Waste, scrap metals...)



SCRAP METALS
Sorting by color (copper from grey metals for example)



STAINLESS STEEL
As well as any kinds of ferrous and non-ferrous metals



PCBs
Through powerful signal combination



WIRES
Insulated copper wires through advanced software features



PMMA
Acrylic screen glass

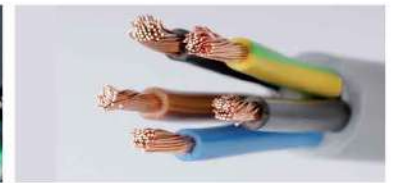


LAMINATES
Or hybrid materials

CASE STUDIES



PCB: MTB, France
Positive one-step sorting of PCBs



ICW: Confidential, Europe
Positive one-step recovery of insulated wires (metal/NIR combination)



XPERT

Xpert is the x-ray machine designed by Pellenc ST to identify and separate products containing heavy atoms from lighter atoms.



THE TECHNOLOGY

The Pellenc ST Xpert is a high-tech optical sorting equipment based on dual-energy X-Ray transmission technology. It detects and sorts objects based on their atomic density. The Xpert has reliable hardware features such as an X-ray sealed tube and HV generator, a technology that has proved its efficiency with 30 years in the industry.

THE BENEFITS



DUAL-ENERGY DETECTOR
for enhanced sensitivity and results independent from thickness



EXTENDED LIFETIME
with HV generator with sealed tube up to 15000 hours



STANDARD, HIGH-RESOLUTION AND HIGH-POWER NOZZLE bars available



HIGH RADIATION PROTECTION
standards, NF C74-100 and NF C15-160 accredited

XPERT APPLICATIONS



SEPARATION OF METALS by atomic density: Aluminum, Magnesium vs Copper, Zinc



SEPARATION OF ALUMINUM
From wires, rubber and black objects



SEPARATION OF BFR LOADED PLASTICS
Brominated flame retardant loaded plastics



LEADED VS NON-LEADED GLASS
Such as cathodic screen waste



SEPARATION OF STONES, GLASS, METALS
From a wood or organic stream



OTHER APPLICATION BASED ON ATOMIC DENSITY:
Please contact us

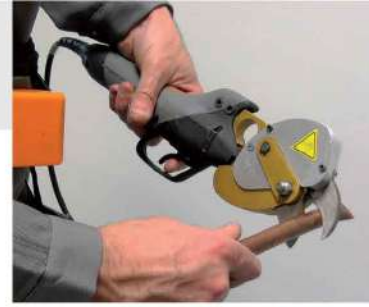




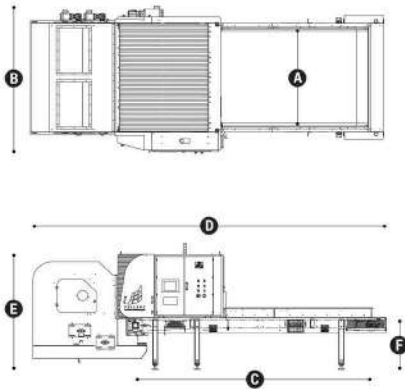
PEMAX

CUTTING TOOL FOR INDUSTRIAL USE.

The Pemax tool is widely used in the auto and waste industry for cutting and removing materials. Markets: ELV, WEEE, Aviation, Naval, Construction... Capable to cut various materials: Zinc, Copper, Aluminum cable, Iron pipe, Plastic, Wire netting, Cable, and more... Portable with battery pack for easier use.



DATA SHEET



SPECIAL FEATURES AND OPTIONS (EXTRACT) :

- Dual-Eject and Multi-channel ejection
- Output boxes, high speed conveyors and maintenance platforms
- Stat Pack
- Regional and climatic options
- Detect metal down to 1.5 mm

MACHINE WIDTH (mm) ▶	MISTRAL TRIUM						XPERT
	800	1200	1600	2000	2400	2800	1200
A	800	1200	1600	2000	2400	2800	1200
B	1755	2155	2555	2955	3355	3755	2340
C	4770	4770	4770	4770	5770	6770	4890
D	7152	7152	7152	7152	8152	9152	6550
E	2165	2165	2165	2165	2165	2165	2821
F	990+/-50	990+/-50	990+/-50	990+/-50	990+/-50	990+/-50	990+/-50
WEIGHT (Kg)	710	840	970	1100	1230	1360	6700
POWER (Kw)	4	5	5.5	7	7.5	7.5	7
POWER SUPPLY	230V - 50HZ SINGLE-PHASE						
AIR PRESSURE	8-10 BARS						
CONVEYOR SPEED	STANDARD 3 M/S						
INCOMING STREAM UP TO	10T/H	15T/H	20T/H	25T/H	30T/H	35T/H	10T/H
HIGH SENSITIVITY INDUCTION SENSOR	●	●	●	●	●	●	-
VISIBLE SENSOR	●	●	●	●	●	●	-
NIR SENSOR	○	○	○	○	○	○	-
XRAY SENSOR	-	-	-	-	-	-	●

● Standard Feature ○ Optional Feature

	DISTANCES BETWEEN NOZZLES	FRACTION SIZE
STANDARD BAR	25 mm	30 - 250 mm
HIGH RESOLUTION BAR (HR)	12,5 mm	10 - 250 mm
HIGH POWER BAR (HP)	25 mm	30 - 250 mm

PELLENC ST SNAPSHOT



100
employees



>20
million euros
of turnover



2001
year of creation



10
% of turnover
reinvested R&D



1000
machines
installed



7/7
A hotline
open 24/7



15
languages
spoken



40
countries



37
average age
of employees



7
years on average
with the company



PELLENC ST
SELECTIVE TECHNOLOGIES

EUROPE & INTERNATIONAL

PELLENC ST

125, rue François Gernelle, BP 124
84120 Pertuis Cedex 4
France

 **+33 490 094 790**

 **contact@pellencst.com**

 **PELLENCST.COM**



NORTH AMERICA

PELLENC ST AMERICA, INC

1299 Schlumberger Dr.
29715 Fort Mill, SC
USA

+1 803 396 3990 Extension 210
contact.usa@pellencst.com

JAPAN

PELLENC ST JAPAN, KK

Arte Otemachi 10F, 1-5-16,
Uchikanda, Chiyoda-ku
Tokyo 101-0047
Japon

+81 3 3233 2150
contact.japan@pellencst.com

PELLENCST.COM