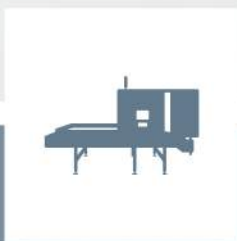




PELLENC ST

SELECTIVE TECHNOLOGIES



MISTRAL Product Line

PELLENCST.COM

PRODUCT DATA

MISTRAL AND MISTRAL DVI

THE BEST OF OPTICAL SORTING



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



THE COMPANY PELLENC ST



Pellenc ST has been designing, manufacturing and marketing optical sorting equipment for waste sorting and the recycling industry since 2001.

Pellenc ST, which has over 1,000 machines installed worldwide, provides unique expertise to satisfy the needs of even the most demanding customers. Each machine is designed to provide the highest possible level of sorting performance, reliability and availability.

This tried and tested equipment, used the world over for a variety of demanding applications in the waste and recycling industry, includes the very best of near infrared spectrometry technology developed by Pellenc ST.



HEADQUARTERS

GLOBAL PRESENCE



The **Pellenc ST** Head Office is based in Pertuis, a town in Provence ideally located 20 minutes from Aix-en-Provence and less than 50 km from Marseille-Provence airport and Aix-en-Provence TGV station.



THE TECHNOLOGY

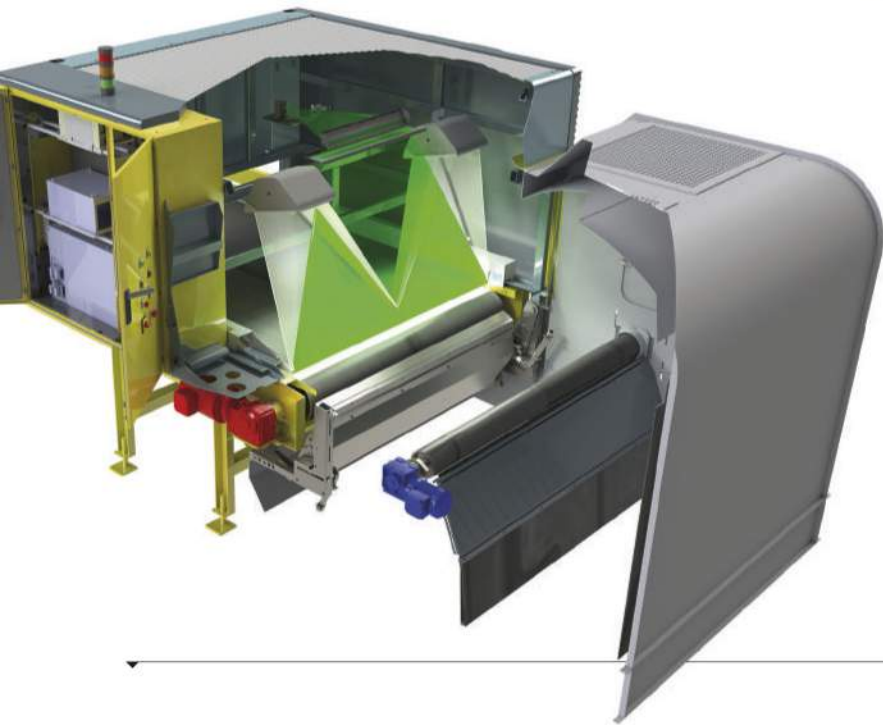
Mistral machines include the best optical detection technology available on the market. Its focused lighting system and its specific spectrometer allow four times more signal to be collected than competitor solutions.

2G TECHNOLOGY:

Operating performances have been further enhanced by this new hardware and software architecture and by a redesigned user interface.

- Focused lighting system
- **Specific NIR** (near infrared) spectrometer with very large bandwidth
- **Visible Spectrometer**
- **Combined Material / Colour** sorting on the same pixel





MISTRAL RANGE

All the machines in the Mistral range include a focused lighting system, one or more sensors with specific settings, an acquisition and data processing chain and a pneumatic ejection system. Depending on the version, Pellenc ST machines are equipped with three complementary detection technologies: near infrared spectrometry, visible spectrometry and induction.

IDENTIFIED MATERIALS

With the combination of two very high-quality signals in the near infrared and visible range and an optional inductive sensor, Mistral and Mistral DVI machines can recognise all materials with a signature in this spectrum (and their finest nuances) with an extremely high degree of accuracy.



POLYMERS
Most polymers used in industrial and household packaging (PET, PE, PP, PVC, PS, etc.)



TECHNICAL PLASTICS
Used in the manufacturing industry (ABS, HIPS, ABS-PC, PA, PU, PVC).



FIBERS
Paper, cardboard, wood by class.



ORGANIC MATERIALS
Recognized positively.



FOOD CARTONS
Used in household packaging.



METAL
Ferrous and non-ferrous metals, textiles, etc...

SPECIAL FEATURES AND OPTIONS



MISTRAL FILM

The Mistral Film includes the latest software innovations and specific spectrometer settings for the detection of films. The equipment is also fitted with the Turbosorter and specific options adapted to the characteristics of the incoming stream.



MISTRAL C&I

The Mistral C&I has been adapted for harsh environments and the particularities of C&I streams, including specific spectrometer settings



MISTRAL BIO

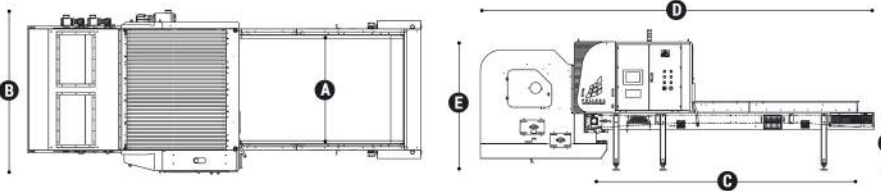
The Mistral Bio includes the latest software innovations and specific spectrometer settings for the identification of organic materials. Pellenc ST is the only manufacturer currently offering positive detection of organics.



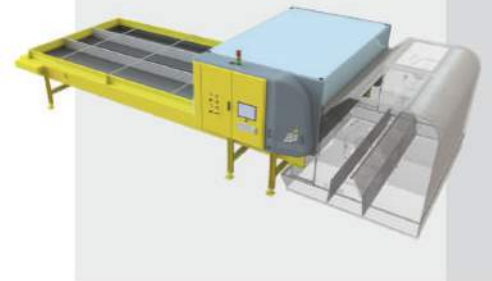
DATA SHEET

MACHINE WIDTH (mm) ▶	800	1200	1600	2000	2400	2800
A	800	1200	1600	2000	2400	2800
B	1755	2155	2555	2955	3355	3755
C	4770	4770	4770	4770	5770	6770
D	7152	7152	7152	7152	8152	9152
E	2165	2165	2165	2165	2165	2165
F	990+/-50	990+/-50	990+/-50	990+/-50	990+/-50	990+/-50
WEIGHT (Kg)	710	840	970	1100	1230	1360
POWER (Kw)	4	5	5.5	7	7.5	7.5
POWER SUPPLY	230V - 50HZ SINGLE-PHASE					
AIR PRESSURE	8-10 BARS					
CONVEYOR SPEED	STANDARD À 3 M/S					
INCOMING STREAM UP TO	4T/H	6T/H	8T/H	10T/H	12T/H	14T/H

	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

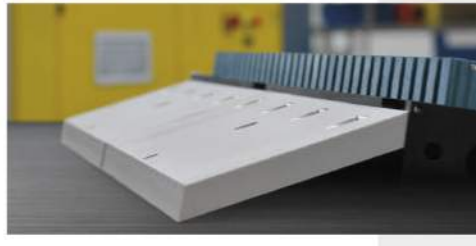


- SPECIAL FEATURES AND OPTIONS (EXTRACT) :**
- Mistral, Mistral DVI
 - Inductive sensor
 - Dual-Eject and Multi-channel ejection
 - Mistral Bio, Mistral C&I, Mistral PET, Mistral Film
 - Output boxes, high speed conveyors and maintenance platforms
 - Turbosorter
 - Stat Pack
 - Regional and climatic options



DUAL-EJECT AND MULTI-CHANNEL SORTING

Pellenc ST has acquired extensive experience in dual-eject and multi-channel sorting and can offer up to 9 sorting operations on the same machine, depending on the configurations!



HIGH PRESSURE AND HIGH RESOLUTION EJECTION

For special applications, high pressure and high resolution nozzle bars are available.



STAT PACK

the latest specific for the materials. manufacturer detection

This tool provides the operator with stream analysis data in real-time in the form of files, reports or a dedicated interface accessible online.



TURBOSORTER

The Turbosorter is a unique machine allowing light-weight objects to be stabilised on the conveyor and is particularly recommended for the sorting of light-weight materials such as films or flat packaging. Trials reveal an improvement of almost 10 points in sorting efficiency.



PERIPHERALS

Pellenc ST has acquired extensive experience in auxiliary equipment (conveyors and output boxes) and offers high-quality, reliable equipment.



PELENC ST
SELECTIVE TECHNOLOGIES

FRANCE

PELENC ST

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

 **+33 490 094 790**

 **contact@pellencst.com**

 **PELENCST.COM**



USA

PELENC ST AMERICA, INC

1299 Schlumberger Dr.
29715 Fort Mill, SC
USA

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

JAPAN

PELENC ST JAPAN, KK

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

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

PELENCST.COM