



MISTRAL+

+ SIMPLICITY + RELIABILITY + PERFORMANCE



[PELLENCST.COM](https://www.pellencst.com)

PRODUCT

MISTRAL+: THE MISTRAL REINVENTED

Mistral+ is the result of a 4-year development involving over 30 engineers from Pellenc ST. Extensive feedback coming from our clients, our customer service team and our employees has been taken into account to design this piece of equipment.

The Mistral+ is built on the experience of over 1,200 Mistral machines installed all over the world, over the past 15 years. In addition, significant investments have been made to ensure the qualification of each component and subsystem: over 10 endurance testing sessions. Thousands of hours of field and lab testing were carried out to ensure the best reliability and performance.

Several patents are pending to protect our innovation. The entire company stands behind this project and will continue to work hard to make it the best optical sorting machine available on the market.



+ SIMPLICITY

With Mistral+ we reinvented machine access

- Upper platform for easier lamp and scanner cleaning (no line stop)
- Direct view on the ejection process for inspection while in operation
- New output box access for easier maintenance and cleaning
- Retractable valve block switch

The most versatile Mistral ever

- All-in-one concept
- One single junction box to wire and connect the machine and its auxiliary equipment
- Output box separator plates now adjustable

Brand new User Interface

- Total integration of Stat Pack (real-time material monitoring and analysis)
- Improved error management and smart diagnosis

50% LESS MAINTENANCE TIME





X2 ELECTRO VALVE LIFETIME

IP65

2-YEAR WARRANTY

AMBIENT TEMPERATURE UP TO +55°C

+ RELIABILITY

High reliability under stress

- Mistral+ uses the proven 2G architecture embedded in a robust cabinet
- An industrial PC which improves substantially the MTBF
- New cooling concept based on a Vortex tube system (maintenance free)

Massive Electro Valve improvements

- New valve block: crash test approved
- Dustproof / waterproof design
- Dehumidifier included

Heavy Duty features now standard

- IP65 standards for wet and dusty conditions
- Scanner protection
- Retractable valve block
- Compressed air dehumidifier

+ PERFORMANCE

Better detection and ejection performance

- Mistral+ includes an improved detection system (resolution doubled compared to Mistral).
- Lighting power was divided by 2 with the same signal quality : better energy efficiency
- 50% better EV response time for faster and stronger ejection

A flexible range

As the Mistral, Mistral+ remains highly versatile. This equipment will meet the most demanding needs of any MRF (recyclables, MSW, C&I...) or recycling facility (PET, Films...).

Options available

- Dual Eject
- Multichannel
- Inductive Sensor
- Turbosorter
- Stat Pack



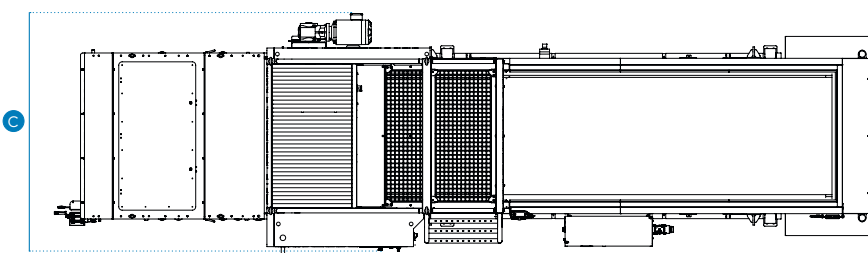
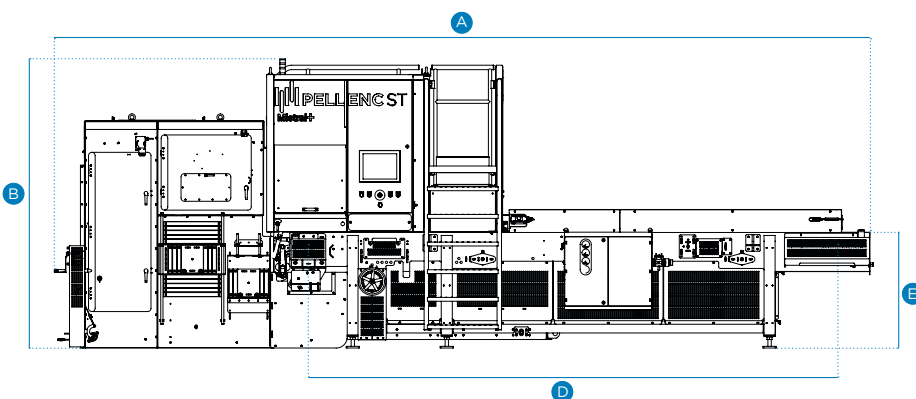
35% MORE ELECTRO VALVE EFFICIENCY

DATA SHEET

WIDTH (mm)	800	1200	1600	2000	2400	2800
A	7377	7377	7377	7377	8377	8377
B	2615	2615	2615	2615	2615	2615
C	1740	2140	2540	2940	3413	3813
D	4770	4770	4770	4770	5770	6770
E	1000 ±50	1000 ±50	1000 ±50	1000 ±50	1000 ±50	1000 ±50
WEIGHT (KG)	600	700	800	900	1000	1100
POWER (KW)	2	2,5	2,5	3	3	3,5
POWER SUPPLY	230 V - 50Hz SINGLE PHASE					
COMPRESSED AIR	7-8 BAR					
CONVEYOR SPEED	3 M/S					
CAPACITY (DEP. ON STREAM)	2-4 T/H	3-6 T/H	4-8 T/H	5-10 T/H	6-12 T/H	7-14 T/H
COMMUNICATION	MODBUS					

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

	SENSOR CONFIGURATION
NIR SENSOR	STANDARD
NIR AND VISIBLE SENSOR	OPTION
INDUCTIVE SENSOR	OPTION



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