

Tobacco Reclaiming



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Canal Progresses

Based on the machines rapid development, Canal made NTM a subsidiary company and from 2006 started co-operation of manufacture world-wide.

In 2014, due to demands from previous clients, Canal produced a new range of Tobacco Recovery Machines called the CRM.

Tobacco Recovery Introduced

In 1985 Canal designed and developed a unique machine to recover tobacco from rejected cigarettes and packets.

This was introduced into the marketplace as the NTM Tobacco Recovery range of equipment.

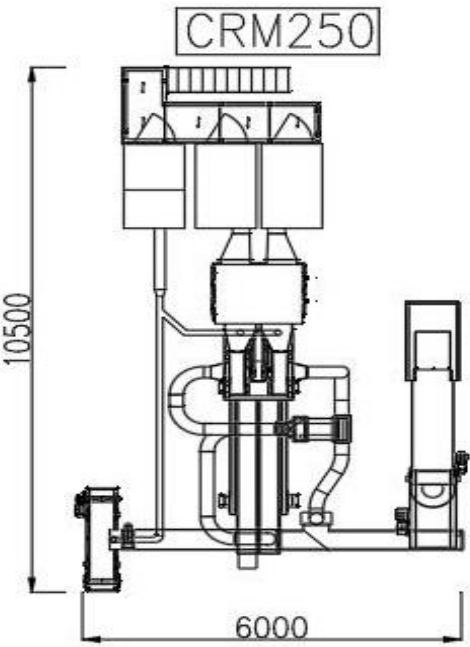
The 1990's saw these Canal made units rapidly become the world's market leaders in the cigarette industry supplying Phillip Morris, B.A.T., Gallahers, Imperial Tobacco, RJReynolds, Japan Tobacco, Rothmans etc.

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In 2023 Canal Engineering closed down, and Alway Loughborough recruited the Canal tobacco team and set up CANALNTM with the aim to provide spare parts and servicing to existing machinery users, and new tobacco reclamation machinery to cigarette manufacturers.

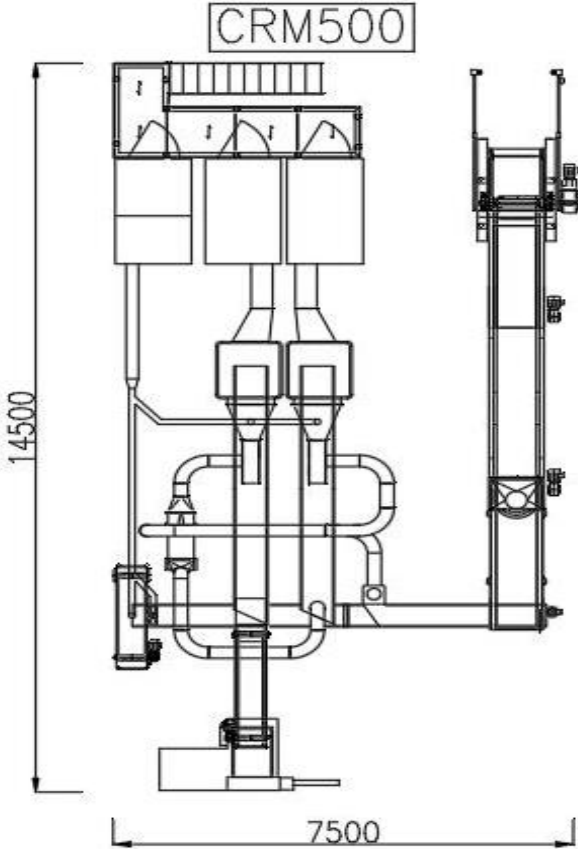
**CRM range of machinery
& Typical Layouts**

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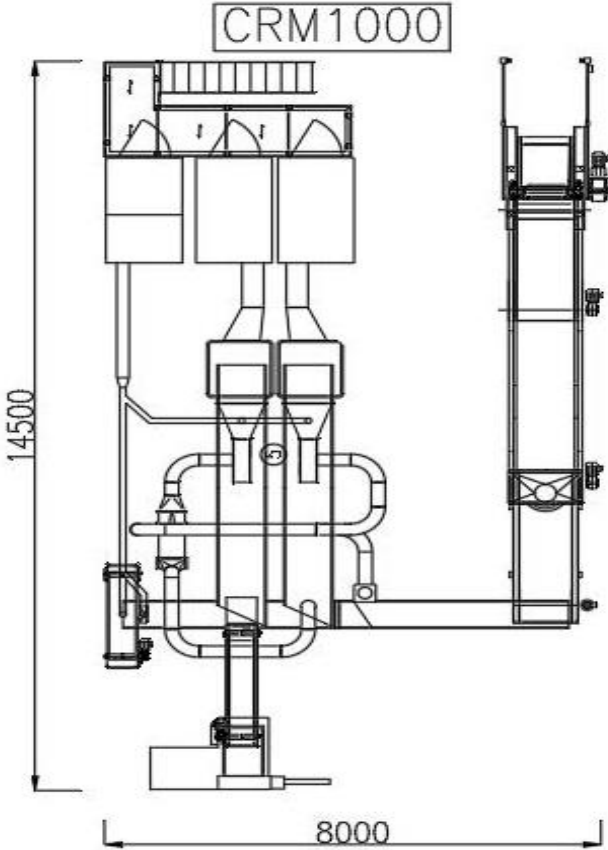
CRM250

up to 250kg/hr throughput



CRM500

up to 500kg/hr throughput



CRM1000

up to 1000kg/hr throughput

**CRM range of machinery
& Typical Layouts**

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Rejected Tobacco
Product



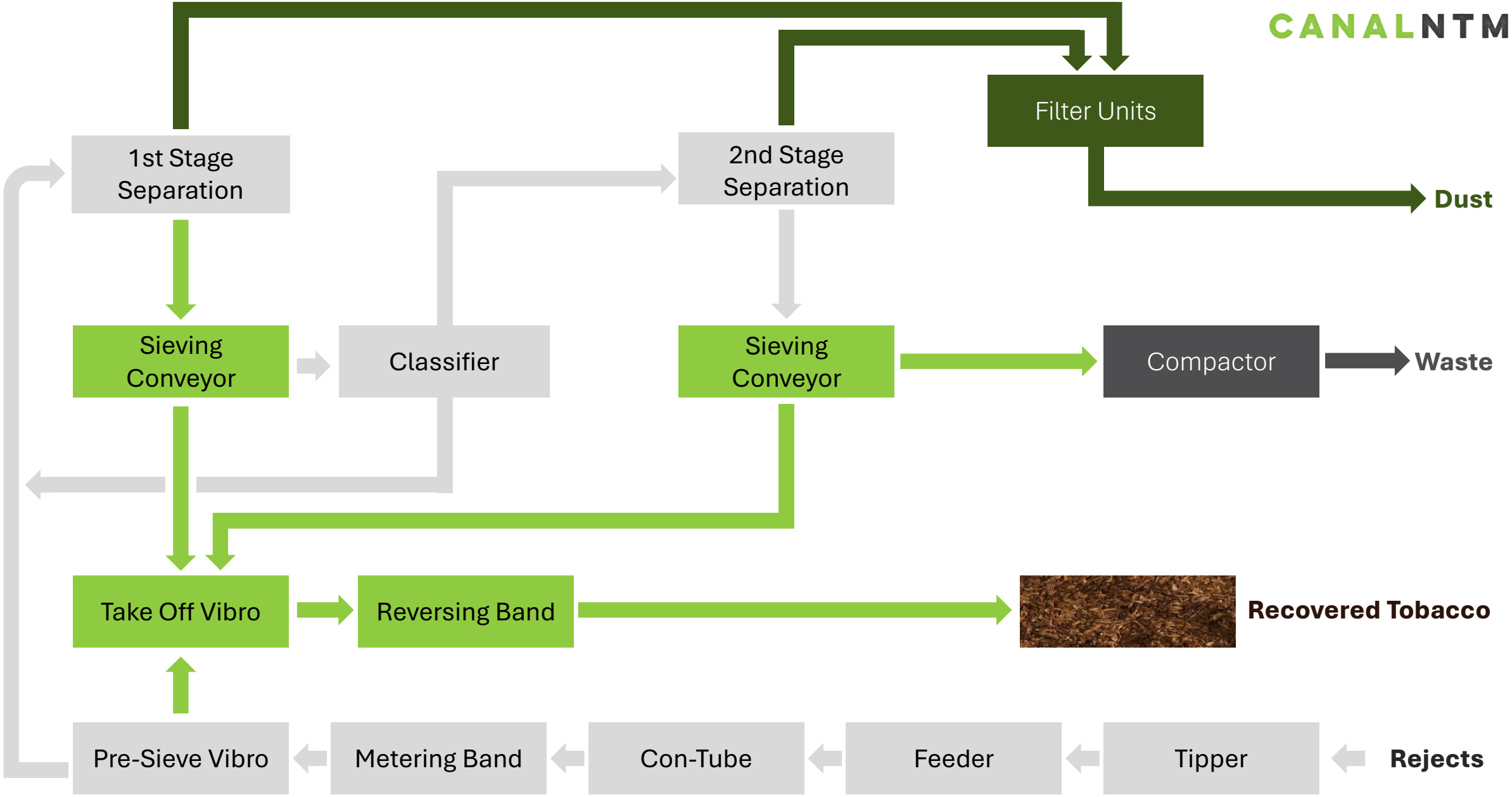
Canal Reclamation
Machine



Clean Reclaimed Tobacco

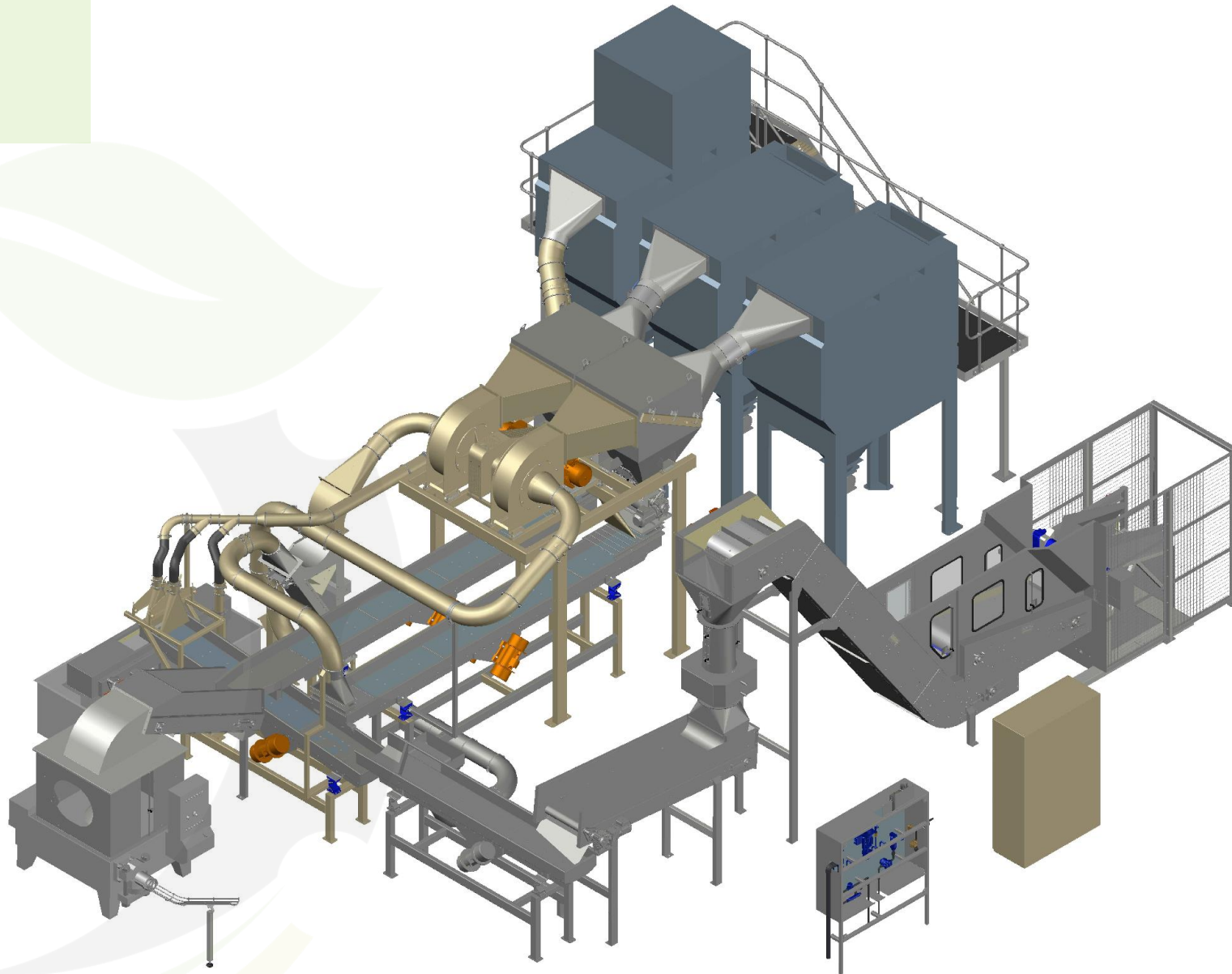


Waste Paper Briquettes



Typical CRM500 Installation

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Reject Product Feed

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01. CONTROL PANEL

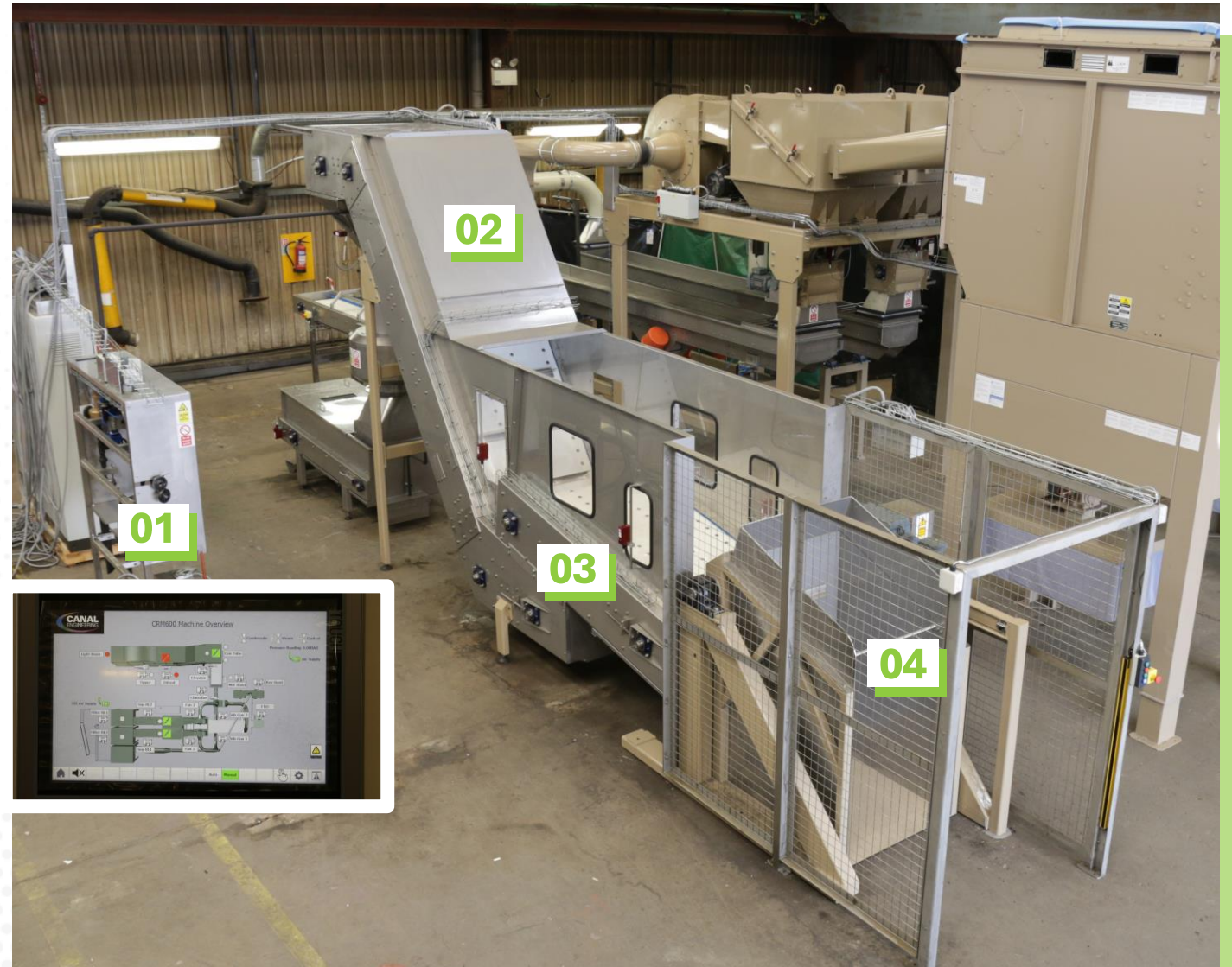
02. ELEVATOR

03. BULKING BAND

04. BIN TIPPER

AUTOFEEDER UNIT

CONTINUOUS “ON-DEMAND” SUPPLY
TO THE STEAM CONDITIONING
SECTION



Steam Conditioning & Metering

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CORRECT MOISTURE LEVELS:

- Low degradation
- Low paper count
- Low tobacco in paper

INSUFFICIENT MOISTURE LEVELS:

- High degradation
- High paper count
- Low tobacco in paper

EXCESSIVE MOISTURE LEVELS:

- Low degradation
- High paper count
- High tobacco in paper



01. PHOTOCELLS

FOR CONTROLLING THE SUPPLY
FROM THE FEED SECTION & STEAM
FUNCTION

02. STEAM INJECTION NOZZLES

ADD MOISTURE & HEAT

03. METERING CONVEYOR

THROUGHPUT CONTROL

04. PNEUMATIC FEED DUCT

FOR CONSISTENT FEED TO
THE RECOVERY SECTION

Pre-sieving Loose Tobacco – Optional

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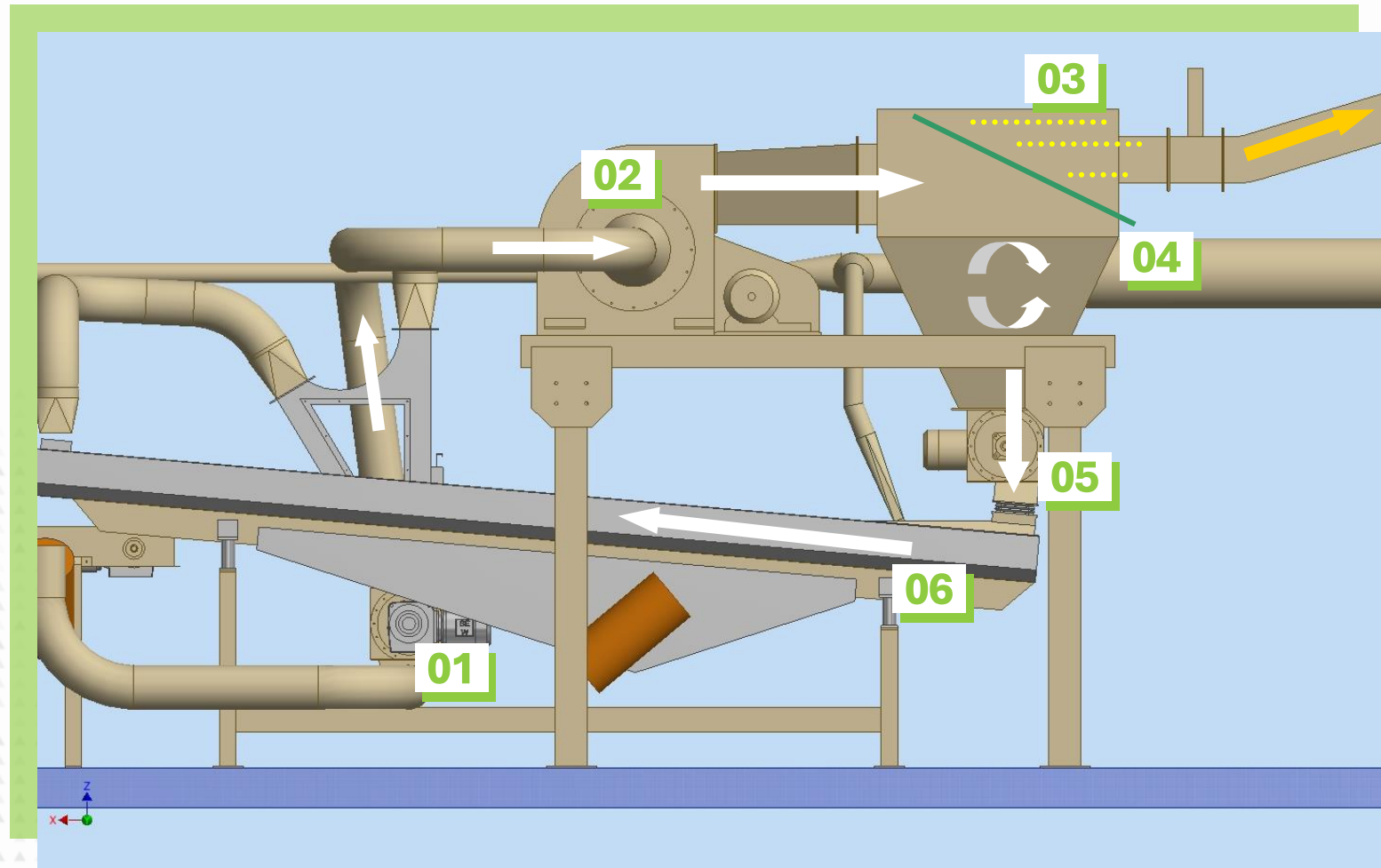


PRE-SIEVING CONVEYOR

Tobacco Recovery Section

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- 01. PRODUCT FEED
- 02. FAN
- 03. AIR/PRODUCT SEPARATOR
- 04. HIGH TENSILE MESH SCREEN
- 05. ROTARY VALVE
- 06. SIEVING CONVEYOR



DUST TO
FILTER UNIT

Vibratory Conveyor Sieving Section

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01. 1st STAGE SIEVE

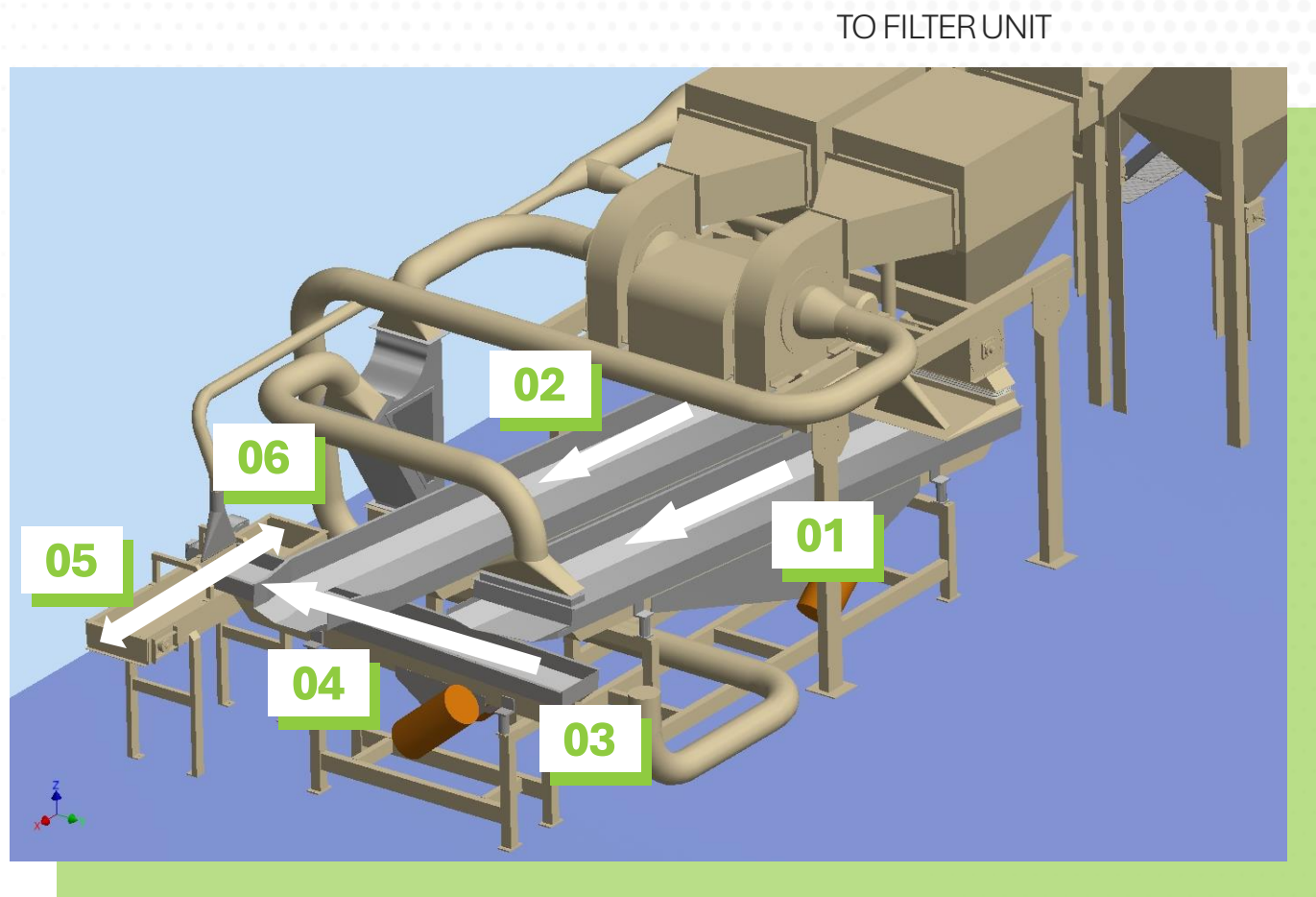
WOVEN WIRE 4's MESH
OPEN AREA 64%
APERTURE 4mm

02. 2nd STAGE SIEVE

WOVEN WIRE 5's MESH
OPEN AREA 64%
APERTURE 5mm

03. TAKE-OFF SIEVE

WOVEN WIRE 5's MESH



04. "SAND" SIEVE

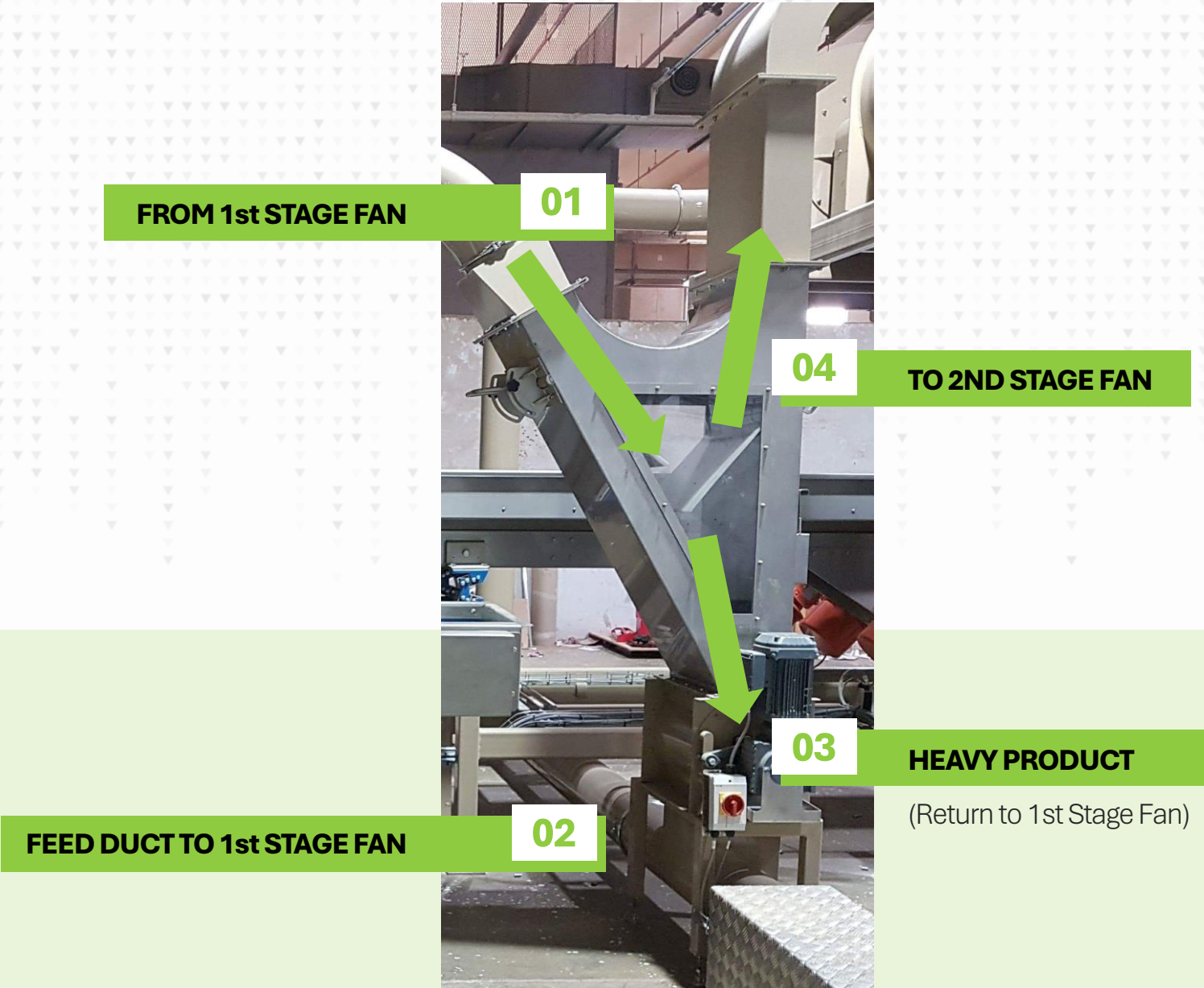
TO FILTER UNIT

05. RECOVERED TOBACCO REVERSING BAND

06. PAPER EXTRACT NOZZLE TO FILTER UNIT

Classifier

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Paper/Plug Waste Collection

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01. 2ND STAGE SIEVE

02. WASTE FEED CONVEYOR

03. WASTE BRIQUETTER UNIT

04. BRIQUETTES COLLECTION

WASTE ON
UPPER DECK

~40:1 COMPACTION
HYDRAULIC PRESS



Dust Collection

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- 01. FILTER UNITS
- 02. DUST COLLECTION
(Bins or Central System)
- 03. ROTARY VALVES
- 04. POLYESTER CARTRIDGES



Key Benefits

- Simple & highly efficient process
- No consumables or knives
- No Change Parts required for different Brands
- High yield with low degradation
- Very low paper count in recovered tobacco
- Low Maintenance
- Low Noise & Dust Emissions
- Heavy Duty Construction for a longer working life



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Key Improvements

01

Improved Sieving Conveyor design

- Eliminates cross contamination risk at transfer points
- Reduces noise levels around the machine

02

More consistent product feed to the Reclaim Unit (with Pre-Sieving option)

- Improved quality of recovered tobacco

03

Larger volume Filter Units

- Prevents dust bridging between the Cartridges

04

New Cartridge filtration media

- Reduces dust emissions into the room

05

Integral Dust Extraction System

- Collects small papers, fines (sand) & dust from discharge points

What Can You Feed?

The CRM Reclaiming Machine can process the following:-

- Standard Cigarettes
- Slim Cigarettes
- Super Slim Cigarettes
- Damaged Cigarettes
- “Long end” Maker Waste
- Cigarettes with Capsule Filters
- Cigarettes with Carbon Filters (additional equipment read)

Specifications

- Machine range–CRM250 - up to 250kg/hr
- CRM500 - up to 500kg/hr throughput
- CRM1000 - up to 1000kg/hr throughput
- Mechanical Operating Efficiency– 95% minimum
- Tobacco yield is nominally 95% (dependant on input product quality)
- Airborne Dust Emissions – below 2mg/m³
- Noise levels below 85dBA
- Briquetter Waste Compaction Ratio– 40:1 approximately
- Mains Factory supply required for Electrics, Steam, Water & Compressed Air



CANAL CRM Machine List

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Year	Type	Factory
2014	CRM 1000	Imperial Tobacco
2104	RYO 100	Imperial Tobacco
2015	CRM 500	Eastern Egypt
2016	CRM 500	Eastern Egypt
2106	CRM 500	Eastern Egypt
2017	CRM 600	Eastern Egypt
2017	CRM 600	Eastern Egypt
2018	CRM 500	Wuhan , China
2018	CRM 500	Honghe ,China
2019	CRM 250	Guangfeng,China
2019	CRM 250	MTK ,Tunisa
2019	CRM 250	Beijing, China
2020	CRM 500	Chongqing, China
2020	CRM 500	Nanchang, China
2020	CRM 500	Liuzhou, China
2020	CRM 250	Shengyang, China.
2021	CRM 250	Wuhu, China
2022	CRM 250	Baoji, China

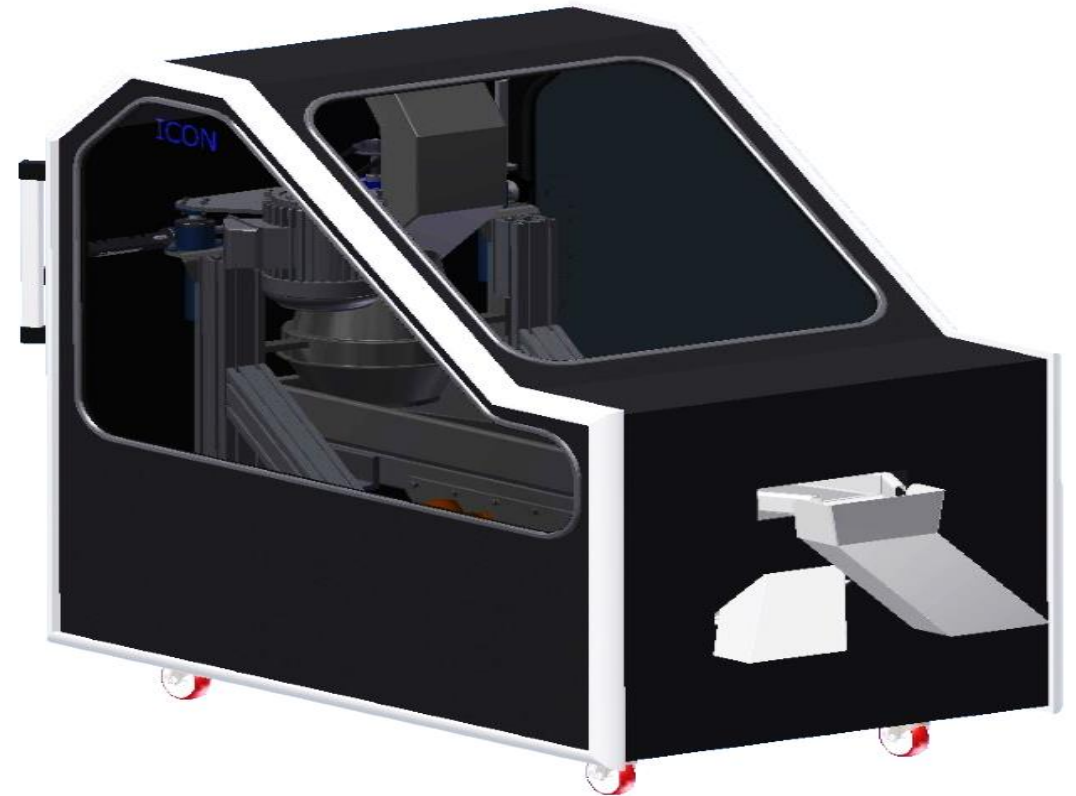
Introducing the ICON

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Canal have developed an Online Mobile Tobacco Recovery Unit to work alongside your Making Machines.

This is the new ICON

The ICON is a mobile, compact machine utilising a smart process to recover tobacco directly from your individual Maker Complex rejected cigarettes. The ICON is moved into place and is automatically lifted off its wheels to secure the machine into the operating position. ◦



The New ICON

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Once the ICON is in position, a manually fed elevating band transfers the reject product into the unique, patented, rotating opening unit and then onto the separation section.

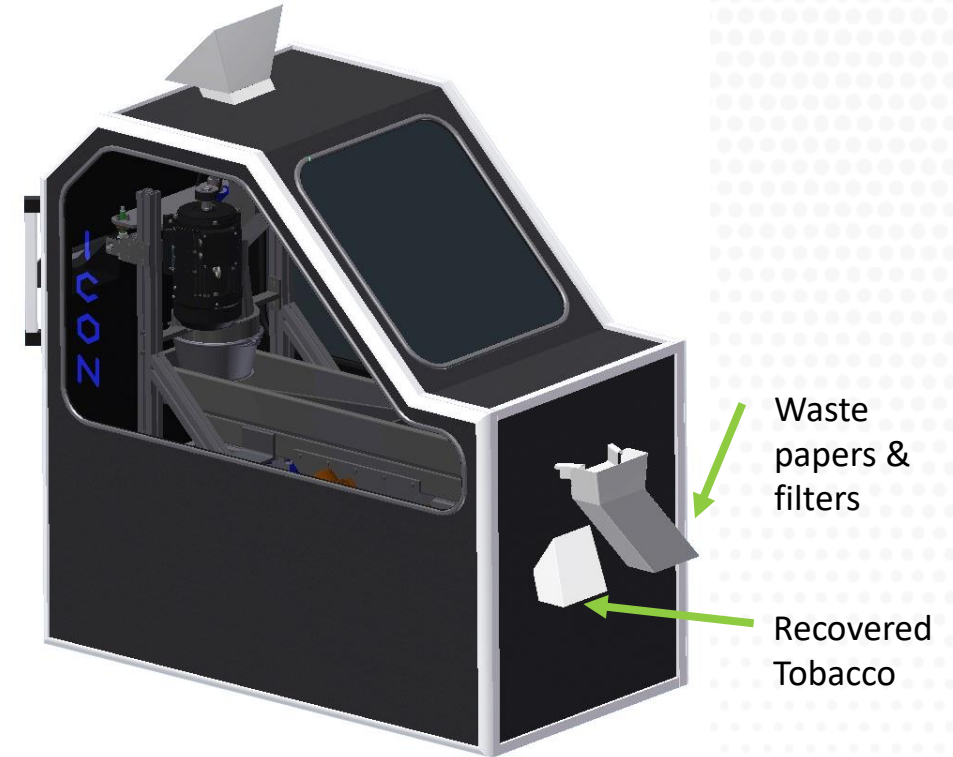
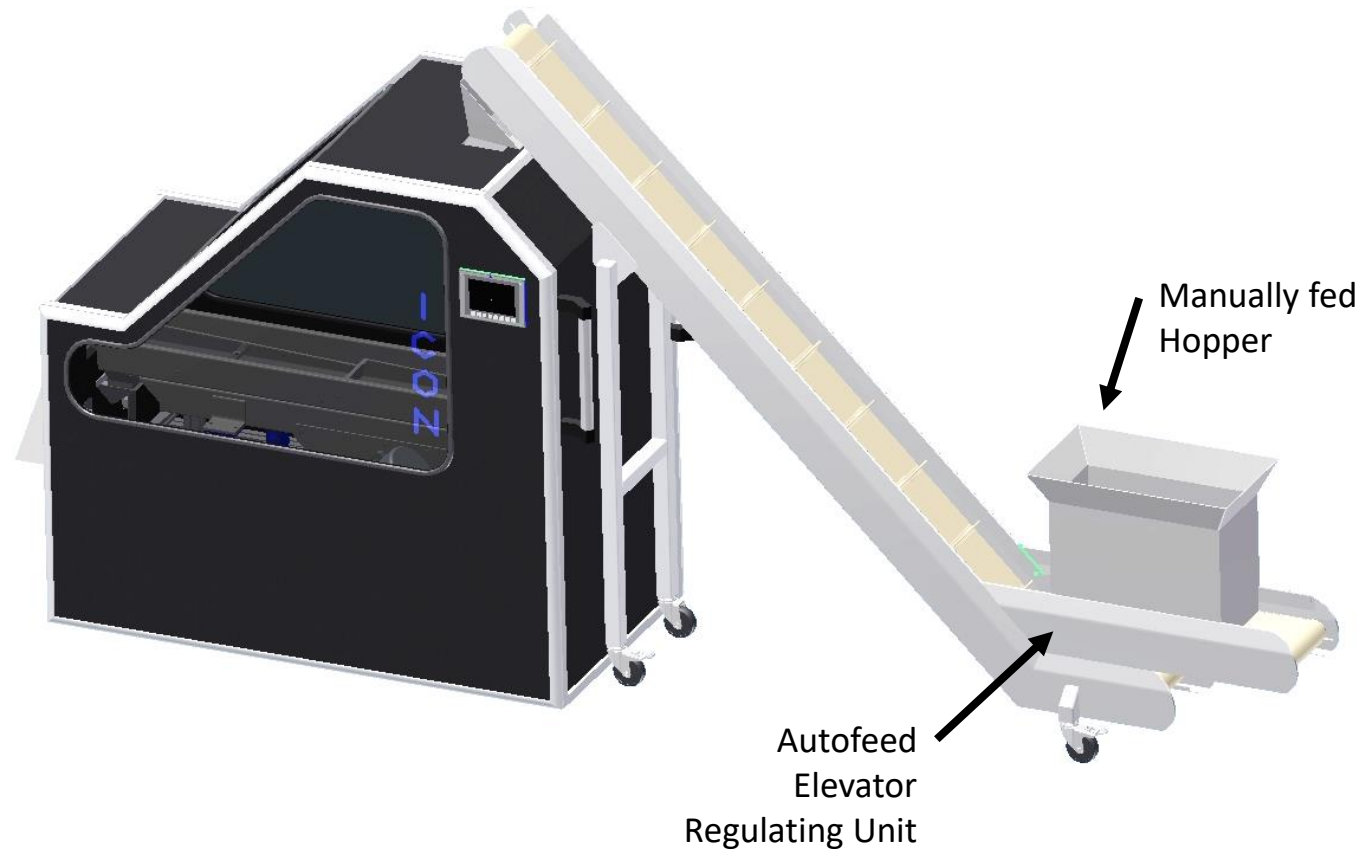
A Vibro Conveyor retains the papers and filters on the top deck whilst the recovered tobacco passes through the sieve onto the bottom deck.

icon

The New ICON. 最新的ICON

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The feed section is automatically controlled to ensure a regulated transfer of cigarettes into the opening unit.



The recovered tobacco and waste papers/filters are ejected separately via chutes into small containers.



ICON Details

Capacity	up to 600 cigarettes/minute 600
Base Unit Dimensions	1600mm L x 900mm W x 1700mm H
Base Unit Weight	350kg
Power Requirement	2.5kW
Recovery	up to 95% (dependant on cigarette diameter)

ICON Benefits. ICON

- No Knives, Consumables or Air Flows
- Processes damaged cigarettes and “long end” waste.
- Virtually no maintenance
- Plug & Play for flexible duties on all your Makers
- Brand changes are made in seconds on the “Touch Screen” Panel.
- No Change Parts required for different Brands
- Fully mobile
- Automatic lifting into static operating position

ICON Optional Extras

- Infeed Conveyor direct from the Maker Unit reject chute
- Recycled Tobacco Elevator to transfer reclaimed tobacco into Mobile Bins
- Waste Paper Elevator to transfer paper and filters into Mobile Bins
Automated add-back of tobacco into the Maker Hopper.
(depending on machine type)



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