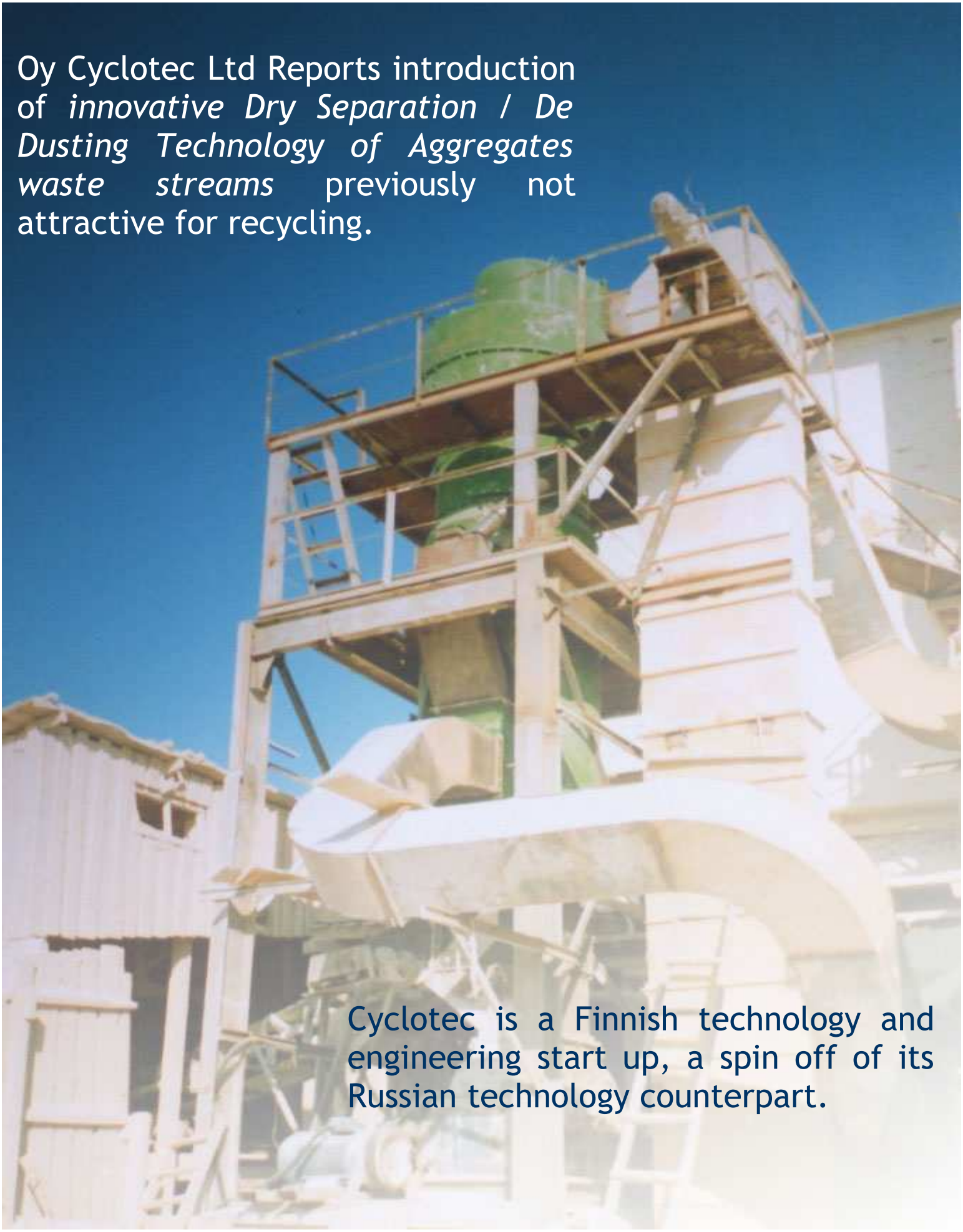
Separators

Description



Oy Cyclotec Ltd Reports introduction of *innovative Dry Separation / De Dusting Technology of Aggregates waste streams* previously not attractive for recycling.

Cyclotec is a Finnish technology and engineering start up, a spin off of its Russian technology counterpart.

State of Art:

Due to waste fines contamination most of the fraction smaller then 2-3 mm is not used. Dry screening at 2-3 mm and smaller fractions is not efficient. Wet de dusting methods which are used, make waste fines even less attractive for utilization, Significantly due to need for waste fines drying for further application/utilization.

Multi Product Air Separators out stand state of art separators by broader on line adjustment of product size capabilities resulting finer product at range of 100-160 microns at higher separation efficiencies, and ability to work with feed moisture up to 4%.

Multi product combined air Separators

Multi product combined separators were designed for:
Particle size/density/form factor in air flow separation of dispersed materials

Performanc e:	**up to Four de dusted separation products Simultaneously** in size range of 0.1 to 10mm, or products with a specified particle size distribution function.
Capacity:	from 0.1 t/h to 80t/h (maximum upscale throughput 100 t/h).

Applications

Processing of scalpings in crushing-sorting lines for environmental ecological improvement by waste reduction in the following applications: de dusted fillers/aggregates, for asphalt/concrete/dry mix plants.

De dusting of gravel and fraction separation of gravel sand mixes and sands

Dry beneficiation of mining & mineral waste

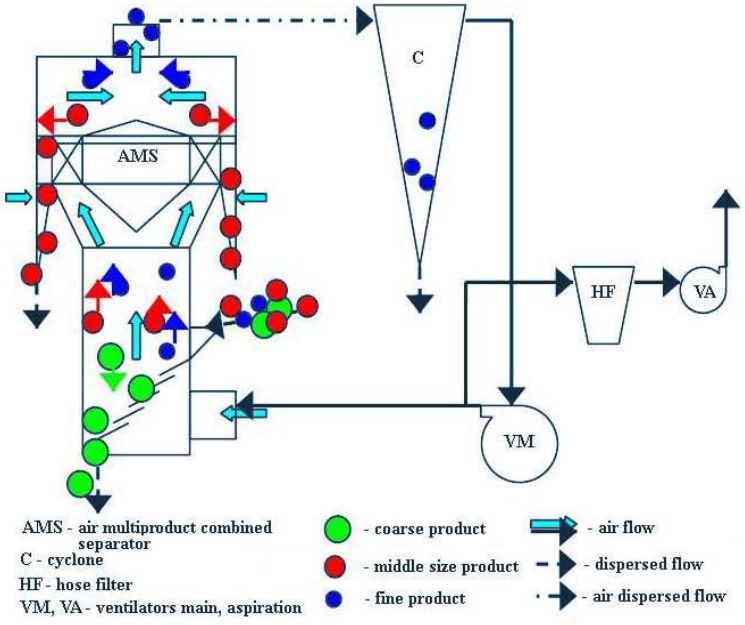
Advantages:

- ***On line adjustment of particle size***
- ***Sharp Accuracy of separation***
- ***Reliability & convenient maintenance***

(vertical surfaces wear protected by polyurethane &horizontal surfaces are made from manganese steel)

- ***NO moving parts & self lining bed protection***
- ***Low energy consumption (4-6 kW/ton)***
- ***No dust hazard & low noise disturbance***
- ***Working with Feed moisture of 4-5%***

Separator operation principle scheme



Deliveries:

Till 2010 12 multi product separators with capacities from 30-80 t/h were supplied for the following applications: Granite/marble/gravel, scalpings processing, sand/glass/ talc ore/ feldspars separation.

Feed material	Quantity of separation products	Capacity by feed, t/h	Separation product particle size Mm	Dimensions m
Marble	4	1	+1.2; -1.2+0.6;-0.6+0.16; -0.16	0.8x0.5x2.8
Sand	4	3	+0.8; -0.8+0.3;-0.3+0.16; -0.16	1.7x1.0x4.0
Marble	3	3	+3; -3+1; -1	0.9x0.6x3.0
Gravel	4	30	+5; -5+2; -2+0.3; -0.3	2.4x1.6x6.0
Granite	2 or 3	80	Fraction de dusting -10+5	1.4x1.2x4.5
Marble	4	10	+2; -2+0.16; -0.16	2.0x1.3x5.8
Vermiculite	4	15	+2; -2+0.5;- 0.5+0.16; -0.16	2.2x2.2x6.0