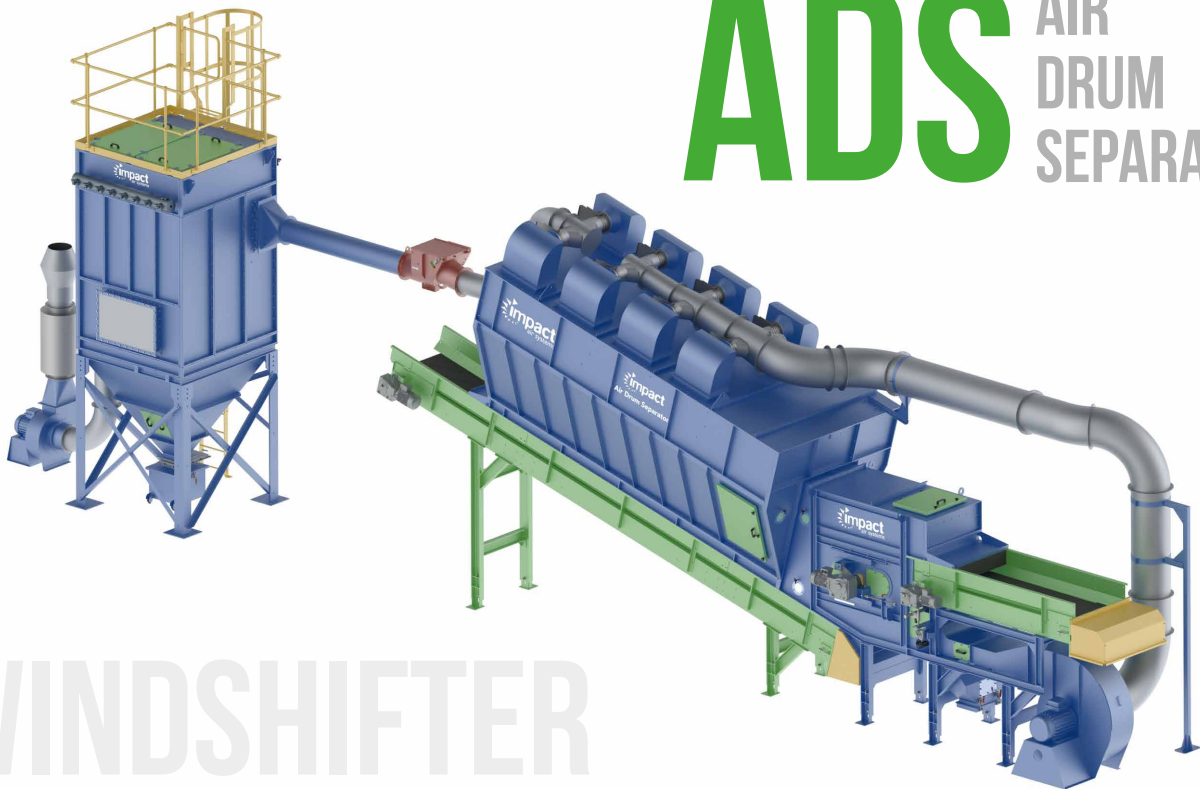


EFFICIENCY
RECOVERY
QUALITY
PROFITABILITY

RECYCLABLE MATERIAL RECOVERY

NEXT-GEN **ADS** AIR DRUM SEPARATOR



WINDSHIFTER



SRF MSW ASR C&D METAL PLASTIC C&I COMPOST RDF



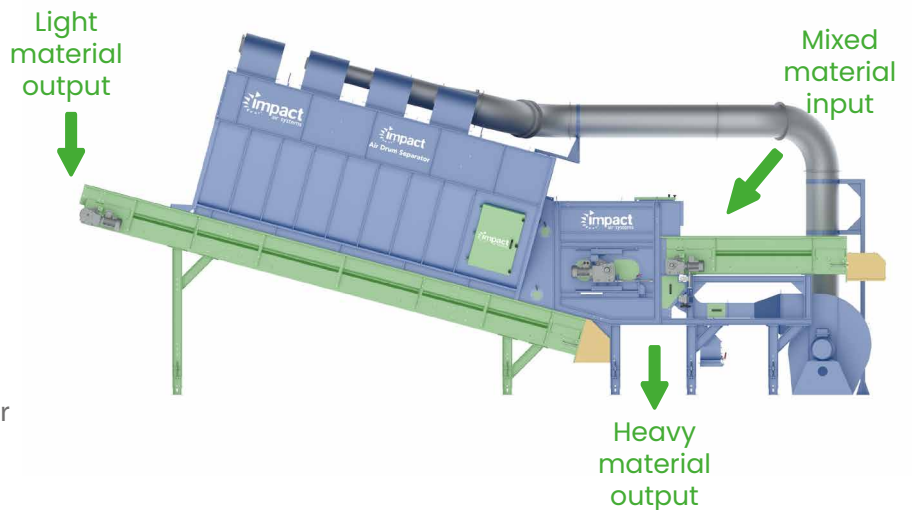
Cleaner Material Streams. Smarter Separation.

Refined Separation

Impact Air Systems has redefined material separation with its next-gen Air Drum Separator (ADS). Built on decades of expertise and direct industry feedback, the ADS offers exceptional separation of lightweight from heavier fractions across MSW, C&D, SRF, ASR, and more.

The Impact ADS efficiently separates mixed material streams into light and heavy fractions using advanced airknife technology. Positioned at the end of a material in-feed conveyor, the system directs a controlled, high-velocity upward airflow through a strategically placed air knife nozzle. This powerful airstream lifts and propels lighter materials over a rotating drum into a designated collection area, while heavier items remain unaffected by the airflow and drop out in front of the drum for separate recovery.

Key innovations like adjustable air nozzle angles, variable fan speeds, ATEX-compliant dust control, and self-cleaning drum and belt scrapers—address the limitations of traditional windshifters, delivering cleaner streams, higher throughput and maximum material value. With British-built durability, flexible control settings and rapid ROI, the ADS is a smart, operator-friendly solution for demanding waste environments.



Key Advantages

The next-gen ADS design addresses long-standing industry challenges with a suite of advanced features and flexible controls that allow operators to tailor performance to different feedstocks.

- ✓ Exceptional density separation for cleaner, high-purity material streams
- ✓ Maximises material value, boosting overall profit potential
- ✓ Rapid return on investment with competitive pricing and low operating costs
- ✓ Cuts landfill fees by diverting more recoverable material
- ✓ High-capacity throughput to meet the demands of modern recycling operations

A Windshifter Built For Performance

Where Engineering Meets Exceptional Resource Recovery

CASE STUDY

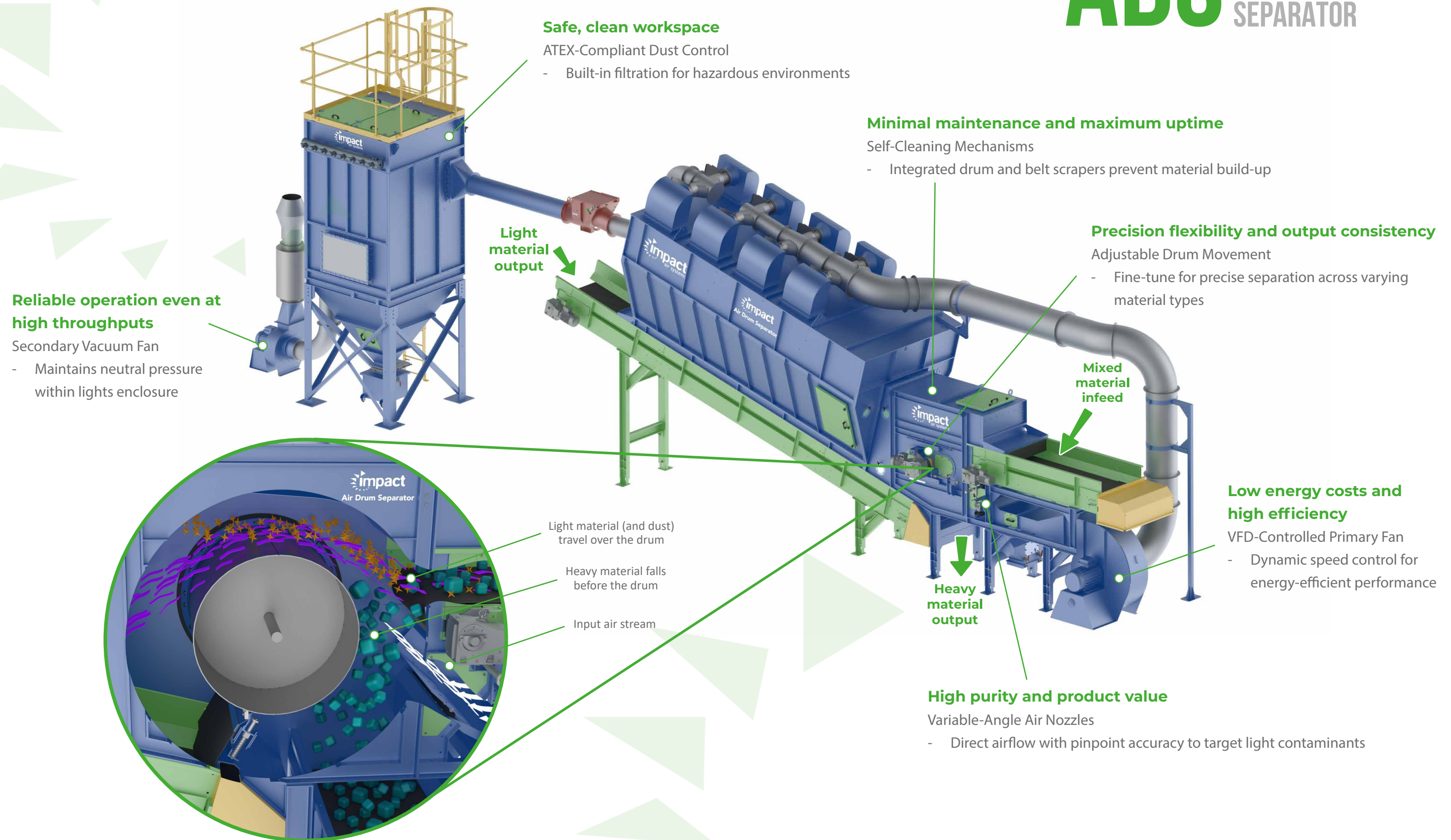


Proven in real-world conditions, such as ENVA's plastics recovery facility, the next-gen ADS consistently achieves spectacular results, improving material purity and boosting profitability. Available in various widths and supported by Impact's in-house demonstration facility, customers can trial the system with their own materials before buying. With solutions installed in over 20 countries, Impact Air Systems pairs innovative engineering with a global footprint, giving waste processors the performance, flexibility, and future-proofing they need to meet rising standards and sustainability goals.



ENVA Testimonial

"Impact's next-gen ADS has been a fantastic addition to our process," says Bernard McCulloch, Engineering Services Manager at ENVA. "It's significantly improved the purity of our plastic streams and runs consistently with minimal intervention. The results have been nothing short of spectacular."



Technical Specifications

	ADS900	ADS1200	ADS1500	ADS2000
Feed Belt Working Width (mm)	750	1050	1350	1850
Installed Fan Power (kW)	18.5	30.0	37.0	45.0
Filter Vacuum Fan	5.5	7.5	7.5	11.0
Filter Model (m ²)	36.0	48.0	64.0	84.0
Throughput (m ³ /h)	50.0	70.0	90.0	125.0
Compressed Air Requirement (bar/ psi)	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90
Mains Power Supply (amps)	100	125	160	160
Overall Length (metres)	12.0	12.3	13.3	13.8
Overall Width (metres)	2.8	3.3	3.6	4.0
Overall Height (metres)	5.5	5.7	5.9	6.1
Overall Weight (kgs)	7000	8000	9000	11000

Reliable and Compliant Filtration

We only supply the most trusted and highly recommended filters, ensuring your operations benefit from superior dust control and compliance with the highest environmental and safety standards.

Our Tubular Reverse Jet Filters provide powerful and consistent dust extraction using anti-static polyester needle felt tubular bags. An advanced electronic pulse-jet cleaning system ensures optimal bag performance by periodically reversing airflow to dislodge accumulated dust into a collection hopper below.

- Meets all compliance standards: Fully compliant with HSE, COSHH, and ATEX Directive (2014/34/EU) - where applicable
- Exceptional air quality: Engineered to meet and exceed stringent workplace air purity standards
- Cost-effective operation: Intelligent cleaning cycles reduce wear and save on energy



Resource Recovery Demonstration Facility

The proof is in the performance, which is why we offer a no-obligation opportunity to put our technology to the test. Our advanced density separation systems don't just deliver superior separation—they also help reduce costly landfill tax by significantly decreasing your waste volume.

At our dedicated demo facility, you can witness your own material being processed through our Air Drum Separator (ADS) or Zigzag Air Classifier (ZAC). Simply bring a sample—or send it to us—and you'll receive:

- Live video footage of your material being processed
- A sample of the cleaned, separated output
- Expert advice tailored to your specific application

Take the guesswork out of your investment. See the performance, feel the quality, and calculate the savings—firsthand.



Why Choose Us?

Since 1989, Impact Air Systems has been designing and delivering smart, reliable, air-based solutions for material handling and waste recovery. From factories producing cans and cartons to high-throughput recycling plants, our systems help businesses capture more value, cleanly and efficiently.

With a deep engineering heritage, a dedicated service division, and a team focused on long-term support, we're proud to be a trusted partner to leading recyclers and producers worldwide.

- Over 35 years of experience in air technology and recycling solutions
- Regionally based technical sales team supported by global agents and partners
- 150+ installations annually across the world
- Trusted British engineering known for durability and innovation
- Complete in-house service: design, CAD, project management, commissioning
- Dedicated aftercare service



Protecting your investment and minimising downtime

To help ensure a long, productive and trouble free operation, we provide a range of professionally managed and effective maintenance services. Our extensive understanding of your system and its components make us perfectly placed to look after it.

Service and Support - Here for you

Preventative and Reactive Servicing

Our service includes a full internal and external inspection of your air system, including the following:

- Airflow readings to check system performance
- Vibration and temperature recording of fan bearings and motors
- Filter unit inspection including cleaning system and filter bags
- Greasing of bearings
- General housekeeping

Critical Consumables

- Filter bags, cartridges and filter spares for all filter unit makes and models
- Bearings, couplings & drive belts
- Electric motors & control gears
- Motor and gearbox assemblies
- Rotary valve rubber seals
- Chopper fan blades
- Heavy duty plastic paper/dust collection bags/sacks
- Fabricated metal parts including ducting on request

Contact us today for your solution!



3 Kingsley Street, Leicester, UK
+44 (0)116 2448855 | sales@impactairsystems.com
www.impactairsystems.com

Scan here to
see it in action

