JOEST®

J-Flow Air Separator

The J-Flow is a compact gravity classifier with an internal air circuit that separates heavy from light particles in the air stream. The bulk materials should be free-flowing and have no baking or strong dusting properties. The J-Flow is used for post-cleaning of metal fractions (ASR processing) in order to separate residual foils, textiles, fluff, dust, foam, polystyrene and other light parts. The aim of this sifting is to ensure that almost no metals are lost.

The typical particle size range is between approx. 20 and up to 120 mm. But also longer pieces up to a size of 300 mm can be sifted effortlessly in the J-Flow. For better sortability, fractions with a grain size range that is not too wide are usually fed in, e.g. 20 to 50 mm and/or processed from 50 to 100 mm.

Due to the integrated lightweight separator, the J-Flow has a very compact design. The recirculation air is generated by radial impellers connected in parallel, which allow precise control to ensure cleaner separation. The higher power of the radial impellers produces a more powerful airflow, ensuring clean separation of light particles even at higher loads.

With the frequency converter, the airflow rate of the J-Flow air separator can be customized and easily adjusted to suit the product being processed.

APPLICATIONS

- ICW (cable fraction after optical sorting)
- Zorba (Ne metals from eddy current separator)
- Zurik (stainless steel fraction after optical sorting)
- Printed circuit boards (after optical sorting)
- Shredder-Heavymaterial

A member of the JOEST group

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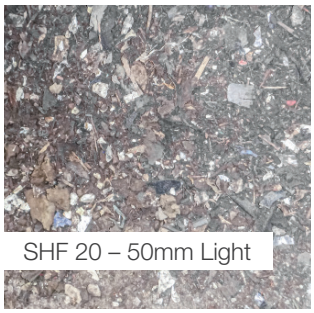
MATERIAL

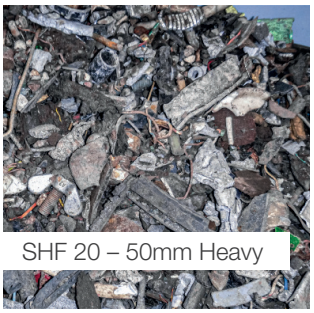

AL scrap heavy


AL scrap light


ICW heavy


8 - 20mm Light


SHF 20 – 50mm Light

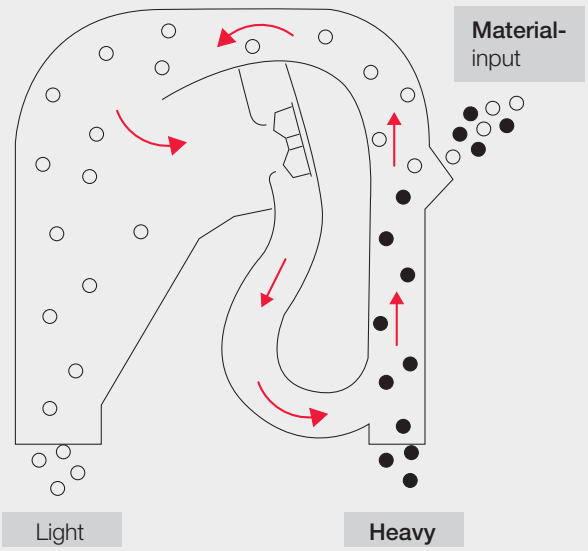

SHF 20 – 50mm Heavy


8 - 20mm Light


8 - 20mm Heavy

ADVANTAGES

- ☑ Compact design with inner air circuit due to radial impellers
- ☑ Can be easily retrofitted
- ☑ Good accessibility, easy cleaning
- ☑ Simple installation and commissioning
- ☑ Low space requirements and implementation costs
- ☑ Low operating costs
- ☑ Low investment due to compact system
- ☑ Simple control with frequency converter for step-less reproducible air volume adjustment
- ☑ Individual settings possible



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TECHNISCHE DATEN

Typ	Arbeitsbreite mm	Abmessungen Breite x Länge x Höhe m	Durchsatz	Luftfluss	Gewicht max.	Power max.
J-Flow 450 *	450	0,6 x 1,9 x 1,8	1,5 bis zu 3	6.000		1x4
J-Flow 900	900	1,1 x 1,9 x 1,8	3 bis zu 6	12.000	900	2x4
FUF 800/-200x1500	800	1,3 x 1,5 x 0,7	3 bis zu 6		550	2x0,95
J-Flow 1350 *	1.350	1,6 x 1,9 x 1,8	4,5 bis zu 9	18.000		3x4
FUF 1250/-200x1600 *	1.250	1,7 x 1,6 x 0,9	4,5 bis zu 9			2x
J-Flow 1800	1800	2,1 x 1,9 x 1,8	6 bis zu 12	24.000	1600	4x4
FUF 1700/-200x1800	1800	2,2 x 1,8 x 1,0	6 bis zu 12		950	2x1,6

* Available from around December 2022

All data in the table are approx.