

Components & Parts

Experience matters

1991 Founded as RETEK Goslar Recycling GmbH as spin-off from German ore mining company **PREUSSAG** AG – Germany, first solutions for recycling of WEEE development of delamination systems for compound materials to recover and separate metals

2007 Take over by E-Waste Solutions Inc. Canada, driven by Alfred Hambsch former owner and president of **GEEP** – Canada (Global Electric and Electronic Processing Inc., Barrie, Ontario, Canada)

2008 Renaming to RETEK Engineering GmbH, adaptation of technology to compound materials like e.g. mixed metal scrap.

2013 Renaming to UMS – Urban Mining Solutions GmbH

2014 Founding of Mesatex as production center on loan basis and as UMS development and testing center



Since machines were not available on the market or did not meet the requirements, UMS developed and continues to develop its own components and solutions to increase the efficiency of material processing and separation.

UMS extended this even to operational parts based on its own processing and operational know-how experienced during running Mesatex production center.

Eddy Current Separator (ECS)

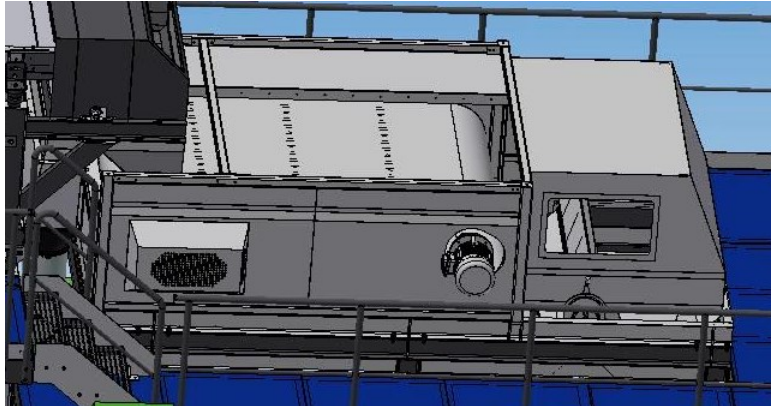


Eddy Current Separators (ECS)

The ECS allows the separation of conductive parts e. g. aluminum from solid mixtures.

UMS and one partner have developed together our own Eddy Current Separator, since no product was available on the market fulfilling our requirements at the time.

The ECS applies Lenz's rule, describing the fact that a conductive particle is forced by mechanical impulses if moved through an alternating magnetic field. Making use of this principle the ECS is able to sort e. g. high-purity aluminum fractions or other metals out of a material stream.



To reach the best sorting results an optimized material feed and an even distribution to the ECS is required. UMS is in the position to provide its own proven solutions for this.

UMS optimizes and adds the ECS to existing systems also not limited to selection, positioning and integration therein.

Due to its own processing and operational know-how UMS can combine the ECS with other machines to improve and to achieve output fractions with highest added value.

Technical data

Model	Working width (mm)	Power of belt drive (kW) at 400 V	Max. belt speed (m/s)	Power of magnetic roller drive (kW) at 400 V	Capacity (m³/h)
ECS 0400	400	1.1	3	3	3
ECS 0500	500	1.5	3	3	4
ECS 0600	600	1,5	3	3	5
ECS 0800	800	2.2	3	4	7.5
ECS 1000	1,000	2.2	3	5.5	9
ECS 1500	1,500	4	3	7.5	15
ECS 2000	2,000	5.5	3	7.5	20

We offer the ECS as single machines without or with the supporting steel structure as well as the necessary control system. Extension of or integration into your operating system is also possible.

How to Proceed

If you request an offer or want to purchase an Eddy Current Separators (ECS) directly, please contact our department for component and parts as follows

phone: +49 (0) 21 91 / 422 22 64

email: parts@urbamine.de