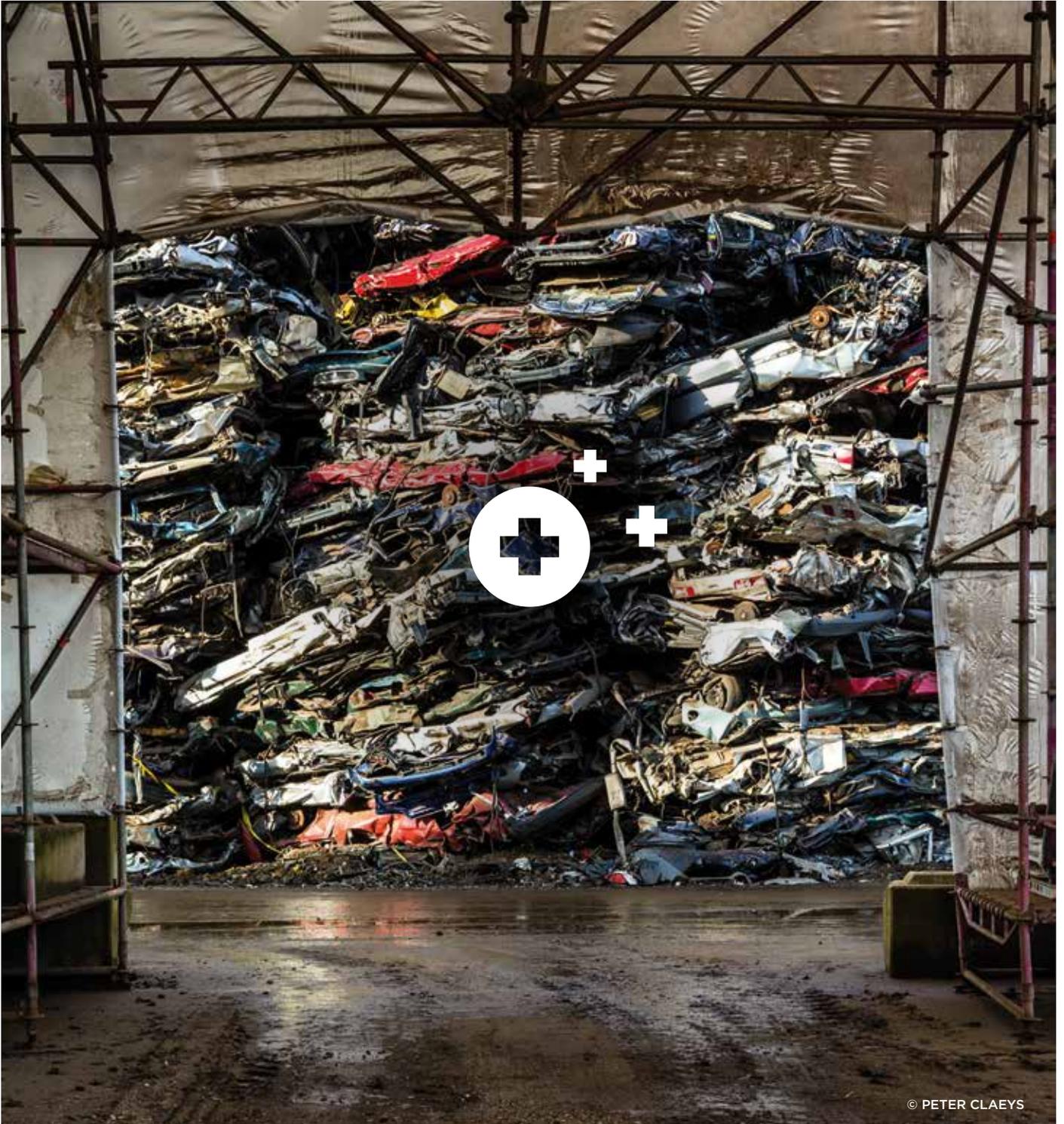




YOUR WASTE IS VALUABLE

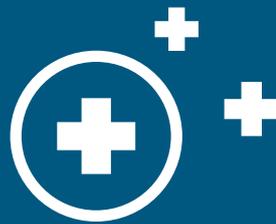




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TECHNOLOGICAL INNOVATION  
+ HIGH QUALITY SOLUTIONS

- Ad Rem -

# WE HAVE STRONG ROOTS

## **COMPANY PROFILE**

Ad Rem is a company that is specialized in the research, designing, engineering, and construction of separation equipment for the recycling-, mineral- and food-processing industry. A wide range of different technologies are used in these separation installations. The young company Ad Rem has strong roots. Ad Rem is a joint venture between Group Galloo and the Valtech Group, both being strong companies in their field of expertise. Group Galloo being one of the largest and most renowned recycling companies in Europe.

The Valtech Group is a holding containing 15 niche market engineering and construction companies that are mainly active, or are closely connected, to the recycling industry.

The recycling expertise of Group Galloo together with the engineering ingenuity of the Valtech Group makes a strong foundation. The ambitious staff of Ad Rem are putting in all effort to maintain Ad Rem's position as a front runner in the industry.

During our existence we have been optimizing and developing new ways for separating diverse waste streams and materials. We are continuously upgrading, modifying and searching for new solutions for our customers.





# PRE TREAT MENT LINES

## **PRETREATMENT LINES**

The Ad Rem pretreatment lines are used to prepare the material for further separation. These systems are critical to ensure the best separation of recyclable materials. The lines are custom made and can be scaled to fit your needs.



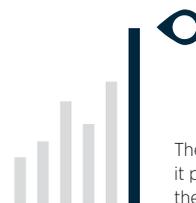
# SCAVENGER

The Scavenger is the ideal machine to prepare shredder light fraction for further treatment. With this equipment it is possible to precisely separate shredder waste into different sub fractions being a fines fraction, a fuel fraction and a heavy fraction. The simplicity together with the low overall cost of the system makes the recycling of these low value wastes very attractive. This process can play a crucial part in reaching the 2015 End of Life Vehicle Directive (Directive 2000/53/EC) goals.

Depending on the type of Scavenger the processing rate of shredder waste ranges from 5 to 50 tonnes per hour making it a good fit for shredding equipment ranging from 1000 up to 8000hp.



ENERGY EFFICIENT  
LOW MAINTENANCE COSTS  
COMPACT DESIGN



The Scavenger makes it possible to reach the 95% recycling rate





NEW TECHNOLOGY

# LCD DEPOLLUTION



LCD screens are an example of electronics which have not been designed with recycling in mind. Most LCD screens which are now end of life use mercury lamps as a backlight for the screen. Because mercury is very toxic in small amounts it is necessary to contain the mercury which is liberated during recycling. The easiest way to do this would be to disassemble the LCD screen and remove the mercury lamps before sending the screen through a shredder. This process however is time consuming and thus very expensive.

Ad Rem has developed a fully automated process to remove hazardous waste materials coming from LCD's after shredding. The process is capable of processing 1 metric tonne per hour and can be scaled to comply to your needs.



+

+

HIGH CAPACITY  
MERCURY REMOVAL  
FULLY AUTOMATED





# SEPA RATION LINES

## SEPARATION LINES

With our unique separation lines it is possible to recycle more materials at a higher throughput while guaranteeing an excellent quality of the output fractions. A large range of materials such as ASR, WEEE, incineration scrap and plastic waste can be treated with our systems.



# DENSE MEDIUM

# MEDIUM



Ad Rem has been successful in designing the most advanced dense medium drum yet, with the highest precision in separation of plastics and non-ferrous metals. This high precision of the dense medium drum is achieved by using a very stable medium. A typical dense medium bath is relatively deep, which makes it difficult for the suspended particles to remain in suspension. An unstable medium means that water can be found at the top of the bath, while a dense sludge remains at the bottom. With our unique drum a stable medium with a homogenous density can be guaranteed.

With this new dense medium separator, you can separate a wide range of materials such as ASR, WEEE, plastics and minerals. Depending on the chosen size of the drum, particle sizes ranging from 4 to 200 mm can be treated.



RECOVERY OF ALL METALS  
HIGH CAPACITY AND ACCURACY  
FOR PARTICLE SIZES AS SMALL AS 4 mm



UP TO  
**40T**  
PER HOUR



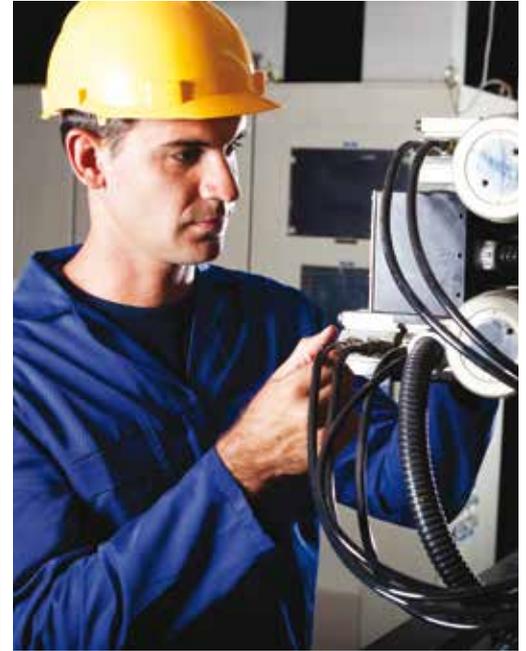
# HEAVY MEDIA

The heavy media separator is the ideal tool to recover all metals from your shredder residues and to achieve the highest aluminum quality. The separation drum is especially designed to avoid decantation of medium in the material and thus avoiding misplaced items.

The heavy medium drum separates materials at a speed between 10 and 40 tonnes per hour and treats particle sizes from 4 to 200 mm, so that no metals are lost.



CLEAN, HIGH GRADE ALUMINUM  
HIGH CAPACITY  
LOW MEDIUM CONSUMPTION



NEW TECHNOLOGY

# DOUBLE DENSITY

Why sell Zorba and buy back aluminum, if you can easily separate it yourself?

The Ad Rem double density separation allows you to separate your Zorba mix into magnesium, clean aluminum and a high density metals fraction. The unique design of the drum makes it possible to separate materials at two densities in just one step. This not only reduces the cost of the system but also increases the capacity and the speed of the separation. The double density drum can be used for capacities up to 10 tonnes per hour.

This process guarantees you a stable quality of your aluminum and a good return on investment.



CLEAN ALUMINUM  
SEPARATION OF ZORBA  
DOUBLE DENSITY IN ONE STEP





# PLASTIC SEPARATION



**WE CAN HELP YOU  
TO “CLOSE THE LOOP”**

Each year, millions of tons of plastics end up in landfill. Not only is this damaging for the environment, you also throw away a valuable commodity. Knowing that recycling of plastics requires only 20% of the energy necessary to produce virgin plastics, you quickly realize that plastic recycling is the future. With our technology, we can help you to “close the loop”.

We separate and recycle plastics from electrical and electronic waste, as well as from automobile shredder residues. The Ad Rem plastic separation system reveals the true potential of your waste materials.



**+**  
**+** PRODUCTION OF RDF  
HIGH ACCURACY SEPARATION  
PLASTICS FROM WEEE AND ASR

# CONTACT US



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