



Bollegraaf  
Archive  
Shredding  
Solutions.

Sorting your business



**Bollegraaf**  
RECYCLING SOLUTIONS



## Bollegraaf Sorting your business.

**At Bollegraaf, we appreciate the fact that, like any other profit-driven operation, the recycling industry is subject to economic changes. We help you sort your business and make it as profitable as possible.**

Although domestic recycling initiatives continue to gain momentum and consumer demand for recycled goods is increasing, commodity prices for recycled materials tend to fluctuate. In this respect, you are always looking for the best possible return on your investment. Sorting waste is our specialty. Keeping your operation profitable is our ultimate goal. We believe that the key

to a profitable recycling installation is creating the highest possible value for your recyclables. In order to do this, your aim should be to maximize separation quality while keeping your operational costs to a minimum. With a track record of 50+ years in the industry, we can help you achieve just that.

Bollegraaf's extensive experience in the recycling industry makes us the ideal partner for finding the best solution for your business model. Your business inspires our engineers and technicians to build machines, systems, and installations tailored to your needs. It is the very reason we keep innovating and improving our machines.

Our technological advancement offers you maximum flexibility, efficiency and the highest throughput. Choose Bollegraaf and make the most out of waste.

We invite you to see it with your own eyes. Join us for a visit to one of our reference projects or take a tour around our production facility in the Netherlands. I hope to see you there.

Sincerely,  
Heiman Bollegraaf, CEO



**Archive Shredding Solutions.**

**Bollegraaf Archive Shredding Process.**

Optimizing output in terms of economic value against the lowest possible costs per tonne. This is the short-term goal for every installation that Bollegraaf provides. The long-term goal is to ensure permanently low operating costs and achieve an optimal return on investment.

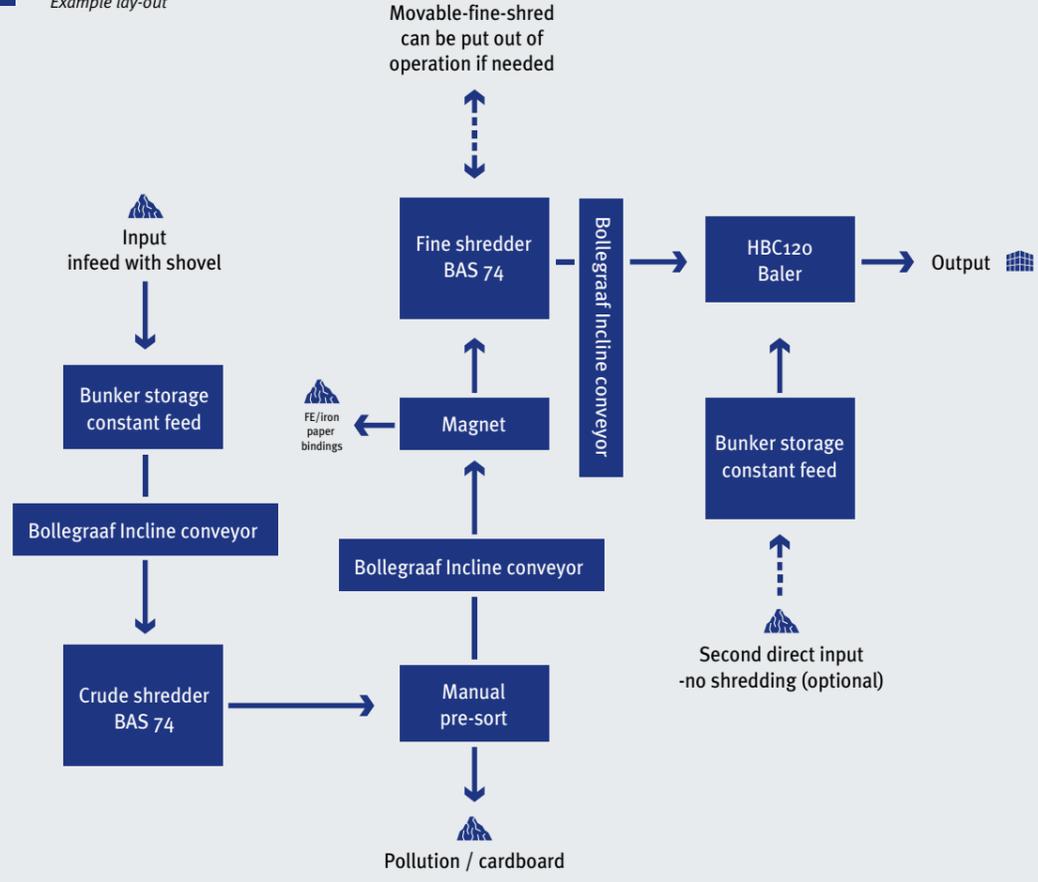
Significant savings can be achieved at many offices by freeing up valuable office space that is occupied by filing cabinets or boxes full of documents. However, when it comes to classified and confidential documents, out of sight doesn't necessarily mean out of mind. That's why at Bollegraaf we invest a lot of time into offering products and installations that meet the required legal standards for the destruction of such confidential documents. The result of this effort: your peace of mind.

**Advantages of working with Bollegraaf**

With more than 50 years of experience worldwide, Bollegraaf is one of the most knowledgeable suppliers on the planet. We know there is no single specification for the composition of your waste; it can vary per country, per region, or per city. The requirements for the output of the separation system may also vary, depending on the available markets for recycled products. This is why we believe versatility is key. It inspires us to engineer, build and deliver tailor-made solutions that are easy to use, have a low cost of ownership, perform to your specifications, and offer an excellent return on investment.

- **Versatility:** our installations can be easily adjusted to fluctuations in input streams and/or output requirements. Even daily variations in waste streams can be handled by the adjustability/fine-tuning possibilities of most of our machines. This ensures that a Bollegraaf installation will last for many years and remain up-to-date. Even if the market changes, our installations have the ability to change with it.
- **Quality:** we believe in putting quality above all else. That's why we only use name brand components from experienced suppliers. This ensures our installation will provide the durability you require so you get efficient performance every day with as little downtime as possible. We guarantee your installation will be trouble-free for many years to come.
- **Customization:** we always put our customers first. Our worldwide delivery program consists of complete sorting systems for the waste paper industry and plastics recycling, collectors of industrial waste and household waste, municipalities, and companies that produce voluminous waste. We also feature R&D backup for custom-built products so we can always offer our customers a one-stop shopping experience that meets their exact requirements, whatever they may be.
- **Eco-friendly:** we are not just active in an industry that's rapidly going green. At Bollegraaf we are also very aware of our own corporate responsibilities towards the environment. From our water-based green paint to investments in the latest innovations for reducing energy and oil consumption to the use of recycled materials for all our communication and promotional activities, we are making a conscious effort to help protect our planet.
- **Experience:** 50+ years of worldwide experience in all areas of recycling. We know the local market characteristics and requirements as well as local laws and regulations, and we anticipate market changes in collaboration with our clients. We know recycling!

Example lay-out



[www.bollegraaf.com/archiveshredding](http://www.bollegraaf.com/archiveshredding)

## Example lay-out of an archive shredding solution installation

The purpose of the installation is to separate and shred (confidential) document archives.

The remaining (mixed) paper is then baled and shipped for re-use.



**5** Next the material goes back on a conveyor to the second shredder (fine shred). The ferrous metals are removed using a belt magnet. There is also a bunker (feeder belt) here that gives the system additional flexibility if one shred phase can be omitted (for example, non-confidential information).

**6** After this second shred the material then goes to the HBC baling press.

**1** Material is fed into the bunker.

**2** The Bollegraaf feeder belt ensures a constant flow of material to the first shredder. The shredder's feedback system (automated feed control) warns the feeder belt that it might become too full.

**3** Material enters the first Bollegraaf shredder where it goes through a course shred (crude shred).

**4** The material then goes through a manual pre-sort where as much contamination as possible is removed (such as cardboard).

Dedicated technology for strong solutions



**Bollegraaf**  
RECYCLING MACHINERY



**Lubo Systems**  
SCREENING & RECYCLING

Bollegraaf Recycling Solutions is the trading name of Bollegraaf Recycling Machinery bv and Lubo Systems bv.

See also [www.bollegraaf.com/used](http://www.bollegraaf.com/used) for our daily updates on in-stock used machinery



### Bollegraaf Chain Belt Conveyor

The Bollegraaf sliding belts are used, among other things, as sorting belts carrying light but large-size materials. Sliding belts glide through a sliding track made of steel. The underside of the rubber belt has been given a synthetic layer, making the friction coefficient low. The Bollegraaf troughed belt conveyors are used to quickly and efficiently carry a wide range of materials such as glass, cans, sand, wastepaper, etc. over longer distances.



### Bollegraaf BAS Shredder

Bollegraaf offers you several types of shredders (high speed (HBS), low speed (BAS), cardboard (CS)) for a large variety of waste management solutions. Our unique range of low speed shredders (BAS) are built using two axes which turn into each other. These axes are each powered by their own engine. The BAS shredder has a very solid construction,

which keeps the maintenance costs very low and makes the lifespan long. The BAS shredder can be equipped with small knives (fine shredder - 12 mm) and wide knives (crude shredder - 35 mm) that influence the capacity and output size. Our BAS shredders range is ideal for confidential archive shredding.



### Bollegraaf HBC Baler

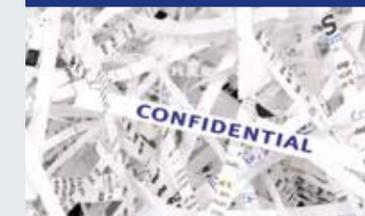
The world-renowned Bollegraaf fully automated HBC balers turn large quantities of various types of waste into homogenous bales. The capacity and pressure force of the HBC balers ranges from 25 to 180 tonnes. In addition to the HBC range, Bollegraaf also offers a full range of sheer balers (HBK series) and small, semi-automated balers (SA series).



### Bollegraaf BIOS Operating System

Bollegraaf's own operating and control system, BIOS (Bollegraaf Information and Operating System), controls the performance of everything from single machines up to complete sorting installations.

## Confidential Archive Shredding



Bollegraaf shredding solutions can be individually tailored to meet your specific requirements for confidential archive shredding. Ask our technical archive shredding consultants for more information.

Bollegraaf Recycling Solutions is the trading name of Bollegraaf Recycling Machinery bv and Lubo Systems bv.

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### **Bollegraaf Recycling Solutions**

Tweede Industrieweg 1  
9902 AM Appingedam  
Nederland  
Tel: +31 (0)596 65 43 33  
Fax: +31 (0)596 62 53 90  
info@bollegraaf.com  
www.bollegraaf.com

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