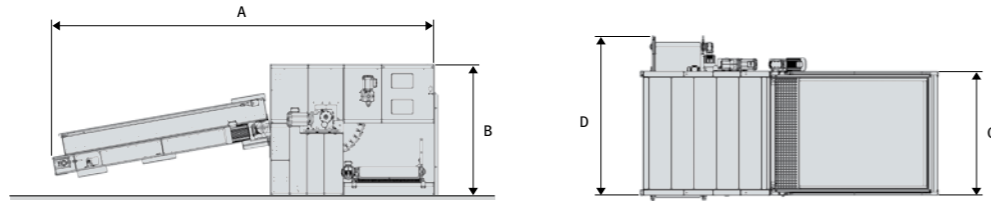


PaperSpike®  
Main  
specifications.



	Length (A)	Height (B)	Working width (C)	Max. width incl. motor (D)
<b>PaperSpike 1600</b>	5011 mm	1805 mm	1600 mm	2235 mm
<b>PaperSpike 2000</b>	5285 mm	1805 mm	1995 mm	2760 mm
<b>PaperSpike 2500</b>	5285 mm	1805 mm	1995 mm	3260 mm

	Motor power	Speed	Temp. sensor
Feeder belt	4 kW	285 1/min.	✓
Sorting roller	4 kW	41 1/min.	✓
Striker shaft	0,75 kW	152 1/min.	
Discharge conveyor	0,75 kW	152 1/min.	



The system is patented. Patents - Germany DE 101 43897 A1, Europe P1 291 092 A2, North America 10/304 983 and Canada 2 4 11 833.  
Disclaimer - All information in this document has been provided with the greatest diligence. However, we cannot guarantee its accuracy or any changes that may have occurred in the meantime. Therefore, any liability is expressly excluded.  
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About  
Bollegraaf.

Bollegraaf Recycling Solutions is a leading global engineer and manufacturer of turnkey recycling solutions and recycling equipment, based in the Netherlands. Bollegraaf Recycling Machinery b.v. and Lubo Systems b.v. are production companies of the Bollegraaf Group.

We focus on the innovative character and reliability of our solutions and the high quality of our products and services. With a track record of 50+ years in the industry, we have the experience to achieve this. Bollegraaf invests heavily in research and development, as well as in the latest manufacturing equipment and facilities. All this is to ensure a profitable and sustainable business for our clients.

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

10-2014



Bollegraaf  
PaperSpike®



# PaperSpike® 2G (System Grumbach)

This is an overview of the most important features and options for our PaperSpike® range.



## Advantages.

### 1 Feeder belt

- Transports the materials into the machine in the thinnest layer possible.

### 2 Rotating disc roller

- Constructed of discs holding spikes. Minimal maintenance yet optimal accessibility via the secured service hatches at the side.

### 3 Spring mounted spikes

- To spike and retain cardboard residue. Spring mounted for optimum durability and protection against unwanted residue in the material flow. Side protection against oversteering. Spikes can be replaced easily and independently.

### 4 Service doors

- Secured, spacious access for service purposes.

### 5 Striker shaft

- System to remove spiked cardboard from the roller. Extremely functional design for high reliability and minimal maintenance.

### 6 Automatic, adjustable dosing mechanism

- To optimize the quantity of the infeed and to avoid malfunctioning because of clogging materials. Springs easily adjustable to wish.

### 7 Cardboard extraction belt

- Transports the separated cardboard for discharge. Available in various lengths.



## Combination with screens from Lubo Systems

The PaperSpike® is a unique machine in combination with the sorting systems from Bollegraaf Recycling Machinery and the star screens manufactured by Lubo Systems (part of the Bollegraaf Group).

## Type of feed

The feed to the PaperSpike® must comprise of loose material. Packages with paper, cardboard or similar must be opened and evenly distributed before reaching the PaperSpike® as otherwise they can fall through as „unwanted material“ during the sorting process.

The paper flow should be as even as possible, and be distributed across the whole width of the machine. If paper lies on top of cardboard then the paper will be transported with the spiked cardboard. If the material is fed in multiple layers then the lowest cardboard can no longer be spiked.

Bollegraaf  
PaperSpike®

The PaperSpike® is a system for removing cardboard residue, sized between A3 and A5, left behind after the screening of cardboard and used paper, from the paper flow. The PaperSpike® is manufactured exclusively for Bollegraaf by Grumbach.

The principle is astonishingly simple and yet effective: The material is spread out into the thinnest possible layer and fed into a rotating disc roller, which is equipped with spikes. The paper, which has very little strength, is not retained by the spikes and falls through. The cardboard on the other hand, is spiked, transported to the cardboard extraction belt and removed from the spikes by means of a striker shaft.



See  
PaperSpike®  
at work.



For a short introduction video of PaperSpike®, please visit our YouTube channel.