

Bollegraaf



Paper Spike®
(system Grumbach)



Bollegraaf. Big in making recyclables small.

Bollegraaf Paper Spike® (system Grumbach)

Bollegraaf Recycling Machinery is a world leader in development and manufacture of high quality machines and systems for the Recycling Industry. Its comprehensive range of products include Automatic Balers – 5 to 100t per hour capacity, Conveyors – chain, steel, through and slide-belts, Shredders – 1.5 to 35t per hour, Reel Splitters – for reels up to 3,500 mm long and 2,750 mm diameter, Trommels, Starscreens, etc, through to its ability to completely design & manufacture Major Commingled MRF systems 'in-house'. Thereby offering customers the considerable benefit of having one supplier responsible & one service contact. Having completed some 180 MRF systems Worldwide Bollegraaf offers the recycling market a formidable proven track record and a wealth of leading-edge design experience to reach the best solution. To further strengthen its lead in Commingled MRF designs, Bollegraaf has introduced the Paper Spike®.

Paper Spike® (system Grumbach)

The Paper Spike® is designed to deal with Curbside Paper / Commingled collections and is placed after Screens to remove the remaining OCC from News and Pam. The principle is simple but very effective. The material is fed in a single layer into the Paper Spike®. The belt spikes then pierce the Paper and Cardboard. Then due to the various properties of rigidity, Paper immediately drop off the spikes, whereas Cardboard stick onto the spikes and is transported to the end of the line, where they peel off and fall into a separate section.

The Bollegraaf Paper Spike® (System Grumbach) is developed by a German Waste Paper merchant. Bollegraaf Recycling Machinery has the exclusive rights to sell the Paper Spike® all over the world.

Patent

The system is patented and the patents pending are: Germany DE 101 43 897 A1, Europe EP 1 291 092 A2, USA 10/304 983 and Canada 2 411 833.

Models

The Paper Spike® can be supplied in three different widths, 1,200 mm (3'11"), 1,600 mm (5'3") and 2,000 mm (6'7"), depending on the capacity required. The Paper Spike® 2000 is able to process a maximum of 12.5 tons per hour of presorted material and it's possible to place several Paper Spikes® next to each other.

Combination Paper Spike® and Lubo star screens

The Bollegraaf Paper Spike® (system Grumbach) and the Lubo Screening Technology making a good combination of technologies for the automatic separation of waste paper. Lubo Screening & Recycling Systems is member of the Bollegraaf Recycling Machinery Group.

Cost benefits

By using the Paper Spike®, small pieces of cardboard are removed from the paper stream (where large pieces of cardboard have already been removed) saving on the overhead and need for several sorters.

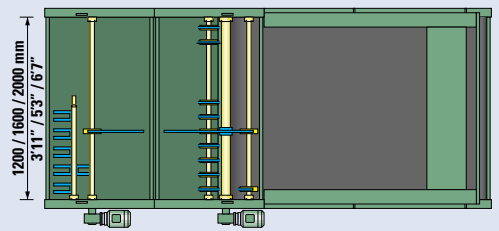
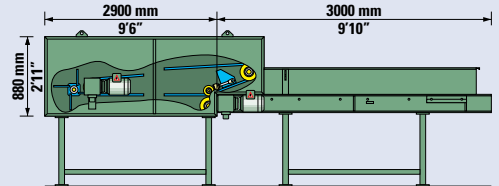
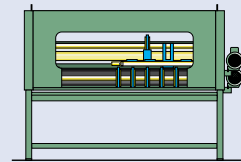
Technical Specifications	1200	1600	2000
Feeding conveyor			
Motor	2.2 kW (3 HP)	2.2 kW (3 HP)	2.2 kW (3 HP)
Conveyor width	1,200 mm (3'11")	1,600 mm (5'3")	2,000 mm (6'7")
Conveyor length	3,000 mm (9'10")	3,000 mm (9'10")	3,000 mm (9'10")
Side height	300 mm (1')	300 mm (1')	300 mm (1')
Head pulley diameter	160 mm (6 ^{1/4} "	160 mm (6 ^{1/4} "	160 mm (6 ^{1/4} "
Tail pulley diameter	160 mm (6 ^{1/4} "	160 mm (6 ^{1/4} "	160 mm (6 ^{1/4} "
Belt speed	max. 200 m/min. (11 ft/sec.)	max. 200 m/min. (11 ft/sec.)	max. 200 m/min. (11 ft/sec.)
OCC separator			
Motor	3 kW (4 HP)	4 kW (5.5 HP)	5.5 kW (7.5 HP)
Length	2,900 mm (9'6")	2,900 mm (9'6")	2,900 mm (9'6")
Width (inside)	1,200 mm (3'11")	1,600 mm (5'3")	2,000 mm (6'7")
Number of V-belts	7	10	12
Number of spikes per V-belt	52	52	52

*Subject to modifications

This brochure is offered to you by:



Paper Spike®



General drawing Paper Spike®



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