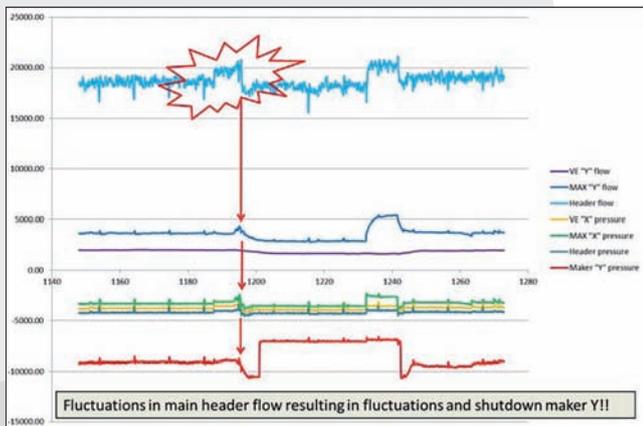


JOA SECONDARY TECHNOLOGY MAKER DE-DUSTING STABILIZATION

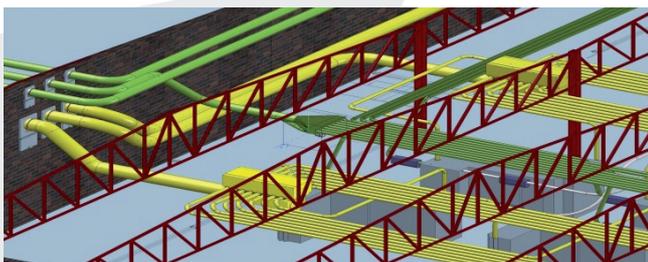
Maker uptime improvement

Extensive on-site measurements have proven MAX de-dusting produces up to 60% fluctuation in capacity and related dynamic pressure. This fluctuation seriously impacts neighboring maker VE stability.

The example graph below proves that starting maker X increases capacity in the main header (due to empty MAX section), resulting in a reduction of the available VE (negative) pressure of maker Y with 300 Pa, causing an unwanted stop of maker Y.



An important conclusion from the measuring program is separating VE- and MAX de-dusting will improve VE stability. For larger Secondary's, this is done by dedicated VE- and MAX dust filters. In medium size set-ups, separate collectors are connected to a shared dust filter. So separating VE- and MAX is achieved without increased investment in filter area.



Filter technology for maker de-dusting and feeding

JOA pulse on demand, compressed air cleaned dust filters (JOA-JET series) are the standard for VE- and MAX de-dusting. Integrated with our fit for purpose high efficiency fans with frequency converter, the installation provides adequate extraction power for de-dusting and feeding applications.



Depending on local legislation and plant conditions, alternatively mechanical filters (JOA-MII series) may be considered, due to the low dust loaded exhaust air from the MAX extraction.



SUSTAINABLE SOLUTIONS

Balancing and decoupled energy optimization

To optimize maker performance, it is necessary to keep the dynamic pressure peaks of the VE de-dusting within a range of +/- 150 Pa. This is handled by replacing the VE pipe collector by the patented JOA Carrousel™.



The Carrousel provides:

1. Balancing of all de-dusting pipes from the Carrousel to the maker VE connection, with the Carrousel false air unit. This simplifies the PID control and guarantees independent maker start – stop – stand-by operations, without influencing neighboring makers.
2. Through the Carrousel the makers are decoupled from the de-dusting fan, allowing the frequency controller to optimize energy usage, without influencing (neighboring) maker stability.

Related JOA Technology

- JOA Feeding technology; ΔVAT™ Sensor, for gentle feeding with optimized tobacco loading.
- JOA pulse separator™ for advanced SHORTS recovery.

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JOA Main Office

Delftechpark 25
2628 XJ Delft
The Netherlands
T +31(0)15 25 72 796
info@joa.nl

JOA North America

8349-M Arrowridge Blvd
Charlotte NC 28273
United States of America
T +1 704 523 0777
info@joa-nam.com

JOA Complex Russia

Donskoy Business Center
5th Donskoy Proezd 15
Building 2 Office 215
117334 Moscow, Russia
T +7 495 955 5107

More information:
www.joa.nl

