Steinemann
CENTRAL VACUUM SYSTEMS

Disposal Logistics for Open End Spinning

Facts

- clean filter screen of each OE rotor spinning machine only guarantees a constant negative pressure at each rotor, which is essential to produce high quality yarn with best efficiency results
- waste disposal management of chambers fully automated solution by CVS
- longer machines are producing more waste / -waste chambers remain the same size: more frequent emptying is necessary
- logistic challenge of secondary material flow: waste to be moved over long distances uncompacted in the mill to deposit waste area
- two waste chambers need to be cleaned / each machine
- intermediate waste storage in the mill disturbs your primary material flow
- uncontrolled feeding of compactors cause “waste traffic” and waiting time

ConVacc AG
Wilerstrasse 2180
CH-9230 Flawil
Switzerland

Tel. +41 71 394 14 14

cvs@steinemanngroup.com
www.steinemann-cvs.ch

Complete Solution with CVS

- only high vacuum of CVS guarantees a fully automatic solution for all waste chambers

- secured efficiency / quality. Controlled frequent emptying of fibre and yarn trash chambers guarantees constant air management at spinning boxes of OE rotor spinning machine

- constant air management:
  - no yarn breaks due to insufficient negative pressure
  - less work for robots
  - less down time of spinning boxes
    Note: customers have reported 20% less thread breaks
  - less risk of "Moiré-effect"
  - less risk of "Avivage-buildup" (polyester)

- increased efficiency / quality.
  Note: customers have reported 1% efficiency increase

- smooth logistic / no labor costs. No movements of staff in the mill for waste handling – controlled logistic guarantee

- solved logistics of secondary material flow

before emptying

after emptying

Typical Example of Waste Quantities

Basic Data (examples)

Material	Yarn count	Production	Waste amount	No. of Machines
Cotton	NE 8	250 kg/h each machine	1,5% of production	15 with 360 rotors each

Daily waste amount of 15 O/E machines with each 360 rotors:

approx. three 20' Containers = total 99 m³!

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