1994 – founding of engineering office for efficient individualised stock preparation solutions
2004 – 2011 cooperation with Metso Paper: GW delivers superior pulper cleaning systems for Metso projects
2013 – change of ownership to Michael Hellenbrand
Consulting + Engineering
efficient stock preparations since 1994

Efficient
Stock Preparation

- pulper cleaning
- coarse screening
- pulping
- reject handling
- wire + felt guides
- vacuum pumps
- shut down repairs

On-site optimisation
Flow sheet
Motor data
CAD planning
3D simulations
Pump data
energy
Pipe dimensions
Start-up
Control circuits

Efficient Stock Preparation
targeted holistic
Made in Germany

ROI

GW FASERTECHNIK
• continuous production
• high consistency up to 4-6 % in pulper
• low energy consumption – some plants run with max. 12 kwh/t
• fibre loss in reject below 8 %
• flakes in pulper accept below 6 %
• pulper volume circulation 120-130 x per day
• optimised design of machinery for life-times + reduced maintenance requirements
GW Pulpers
for your efficient pulping

- energy efficient high quality pulping for waste paper, virgin fibre and special raw materials - 

optimised design and results

• individual rotor design depending on raw material + function
  = consistency 4-6 %
  = fast submersion of raw material
  = fast separation / pulping
  = low energy consumption (7 to 12 kWh/t)
• sizes from 8 to 80 m³
• optimised open screen area if applicable
• heavy reject trap(s) if applicable
GW Raggers for your continuous production

- removes safely wires, plastics continuously from pulpers - optimised design and results

• driven top pressure wheel with exchangeable wear teeth = more traction on the tail

• optional measuring device monitoring forces below pulper surface

• optional automated control for in-time reaction = reduced accident hazard
GW Reject Pump
for your efficient pulper cleaning

- resistant high performance pump to move stock from pulper to screens -

**optimised design and results**

- centered inlet – DN400
- centered outlet – DN400 – on top
- optimised rotor*
- reduced rag building = reduced plugging*
- reduced energy consumption (average 20-30 kW)*
- frequency controlled

*article about rotor results including Papierfabrik Vreden, Solidus Solutions Bad Nieuweschans

**SINCE 2017 all stainless steel housings**
GW Junkscreen
for your efficient pulper cleaning

- reject removal – light and heavy -
  optimised design and results
  • centered inlet
  • centered light reject outlet on top
  • heavy reject trap at the bottom

for maintenance/ revisions:
1 man can open door easily

optional: bearing available also adjustable from the outside

SINCE 2017 all stainless steel housings / door covered with Duplex inside
GW Dewatering Drum for your efficient pulper cleaning

- dewater the light reject removed with the GW Junkscreen -

  optimised design and results

- conical screen
- stainless steel wheels with constant lubrication
- shower pipe
- water tank with level transmitter
- collected water is used for washing the GW reject pump
• continuous production – with only 1 pump since over 30 years
• high consistency – up to 4 %
• low energy consumption
• 1.5 % less fibre loss in reject than market competitors – saving long and strong fibres!
• efficient removal of light and heavy reject
• efficient wear protection for high life-times
GW Vortexdrives
for your efficient coarse screening

- removes light and heavy reject -

optimised design and results

• centered inlet
• reject outlet on top
• door opens easily
• optimised rotor = low energy consumption + efficient separation of rejects
• wear resistant materials
• low energy consumption
• consistency up to 4 %
• optional: bearing available also adjustable from the outside
GW heavy reject cleaners (SSLs) for your efficient coarse screening

- efficient removal of heavy reject between GW Vortexdrives and GW Lastvortex - optimised design and results

  • consideration of centrifugal forces, optimised times for removal and reject thickening
  • pressure decrease between Vortexdrives
  • backwashing insert increases life-time
  • various wear resistant coatings available (e.g. aluminium oxide, rubber)
  • 4 sizes for correct throughput
Last step in the GW coarse screening:
Saving your long and strong fibres!!

optimised design and results with separate horizontal and vertical screen

- intensified opening and screening
- optimised separate speed control
- reject thickening for better handling afterwards
- optimised separate control of stock consistency in both machines
- pressure decreasing side-effect
- stock consistency up to 4 %
Solidus Solutions (former Smurfit Kappa): 2016/17 new pulper cleaning for mill Coevorden = total reject amount reduced from 8 to 6 %; 2011 new pulper cleaning for mill Bad Nieuweschans = 1) higher capacity and 2) efficiency 3) saving energy in the coarse screening.


Eska, Netherlands: 2016 – 2 GW pulper rotors for 2 ST5 pulpers – better pulping results and less energy consumption

Papierfabrik Palm, Wörth: 2016 consulting on capacity increase of stock preparation lines from GW delivery of 4 lines in 2005

Aviretta GmbH: 2014/15 modification and new installation of the stock preparation for changing from graphic paper to packaging papers, change of HC pulper to MC pulper

Model AG, Switzerland: 2016 Reject Pump for Tetrapak line, 2003: SP320 pulper, Reject Pump, Junkscreen

Jass Fulda: 2016 consulting on control programming and optimisation of pulper cleaning

Kartonfabrik Porstendorf: Last Vortex S – saving long and strong fibres

Smurfit Kappa Argentina: ST5 new rotor = energy saving 25 % + less „cutting“ of plastics = less wearing in subsequent equipment

Filter manufacturer: ST4 new rotor = energy saving 15 % + 33 % time savings when pulping special raw material

Stora Enso Maxau: broke pulper AK26 – new rotors and screens = 20 % energy saving + capacity increase of about 40 %
Contact and Address

Efficient Stock Preparation

Contact us for your efficient
• stock preparation
• reject handling
• difficult-to-get-by and optimised spare parts

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