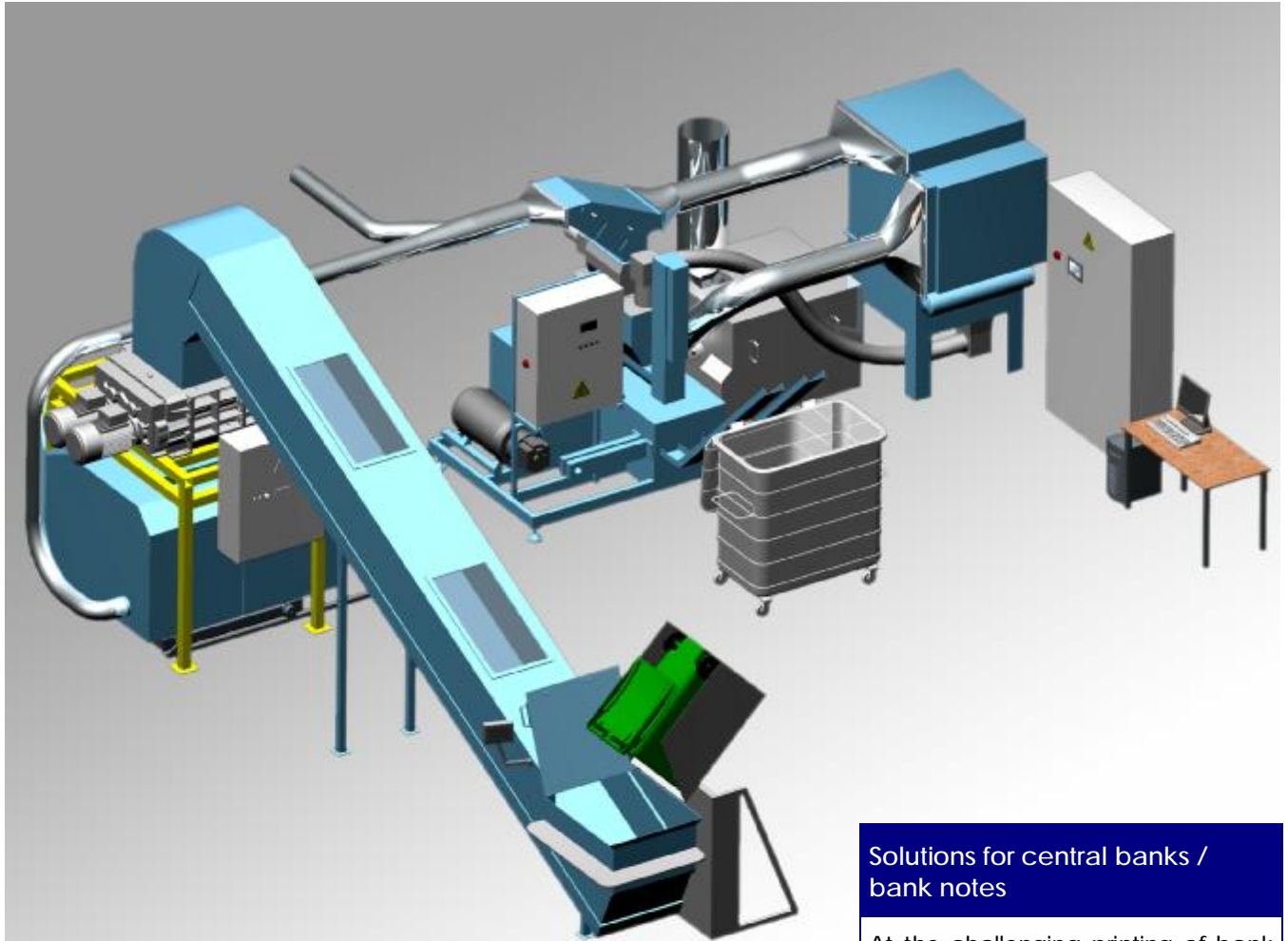


Hunkeler Currency Disposal System



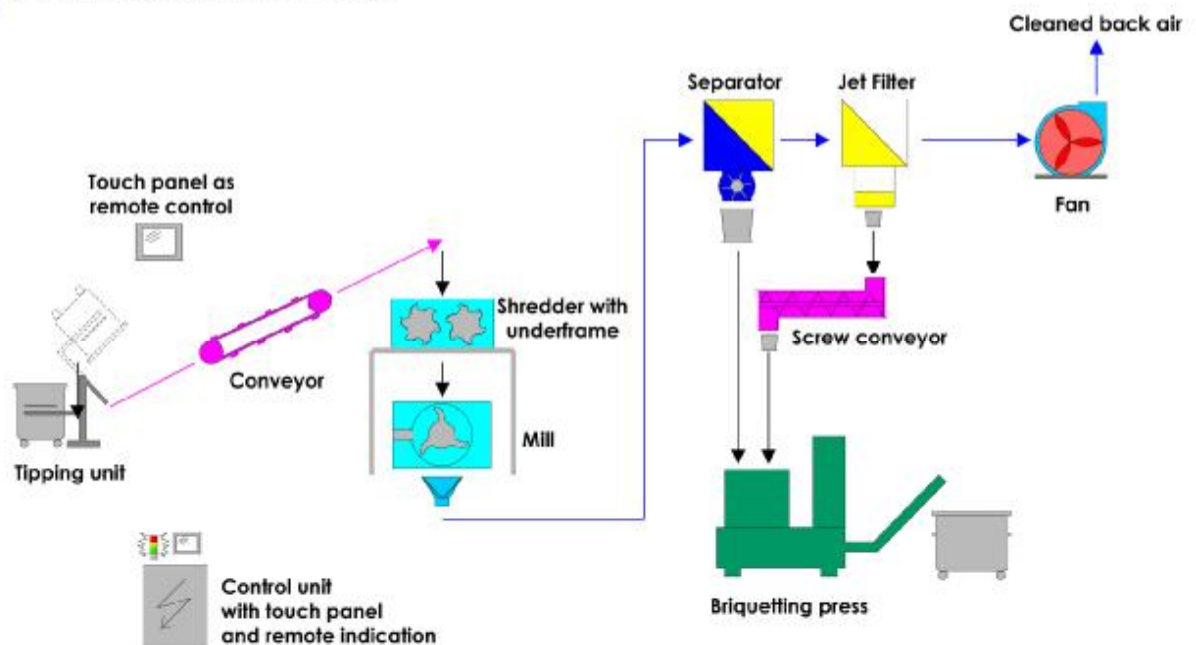
Solutions for central banks / bank notes

At the challenging printing of bank notes production waste accumulates such as misprints, hologram, edge strip, dust etc. A professional disposal is a condition that the fastidious production of notes perfectly succeed. The requirements for a fully automatic disposal system is many-sided: to fulfil all safety aspects without interference of the production process, guaranteed product quality, production safety, integration of the different collection points and materials into one central disposal system, as well as continuous transparency during the entire process. Several central banks all over the world are confident customers of Hunkeler due to our certainty and reliability. You will feel sure with our wide range of solutions for several type of capacities.



HUNKELER CURRENCY DISPOSAL SYSTEM

Solution for national banks



Hunkeler Systeme AG,
Industriestrasse 2, CH-4806 Wilkon
T: +41/62-745 64 64 – F: +41/62-745 63 61
info@hunkeler.ch / www.hunkeler.ch

Type	HCDS 150	HCDS 250	HCDS 450
Shredder	RS 30	RS 40-480	RS 40-750
Granulator	2645 HSA	3560 HSA	4590 HSA
Briquetting press	RB 5	RB 330	RB 440
Storage conveyor	customer requirement	customer requirement	customer requirement
Throughput	150-200 kg/h	300-350 kg/h	400-450 kg/h
Type of material	Bank note bundles	Bank note bundles	Bank note bundles
Size of shreds	6 x 6 mm	6 x 6 mm	6 x 6 mm
Sound level	79-82 dB (A)	79-82 dB (A)	79-82 dB (A)
Dust emission	0.1 mg/m ³ after the jet-filter	0.1 mg/m ³ after the jet-filter	0.1 mg/m ³ after the jet-filter
Density of briquettes	0.9 - 1.1 kg/dm ³	1.0 - 1.15 kg/dm ³	1.0 - 1.15 kg/dm ³
Air transport	Vacuum fan	Vacuum fan	Vacuum fan
Separator	PR 4 with rotor gate	with rotor gate	with rotor gate
Jet-filter	JF 4	JF 4	JF 4
Control unit	SPS Siemens S7 with touch panel, remote control, remote indication and visualisation system	SPS Siemens S7 with touch panel, remote control, remote indication and visualisation system	SPS Siemens S7 with touch panel, remote control, remote indication and visualisation system
Security system	with double lock device and monitoring for all activities	with double lock device and monitoring for all activities	with double lock device and monitoring for all activities
Voltage	3 x 400/230 V - 50 Hz	3 x 400/230 V - 50 Hz	3 x 400/230 V - 50 Hz
Energy consumption	29 kW/h	53 kW/h	71 kW/h

Components description



Feeding



Shredding



Granulating



Separating



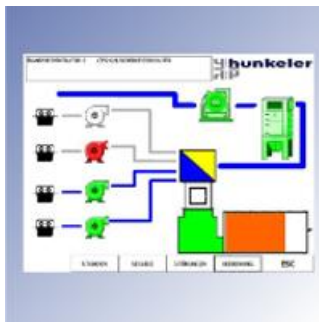
Filtering



Briquetting



Controlling



Visualising

Feeding

The bank notes can be fed manually or by tipping device on the conveyor belt which forwards it closed to the shredder. To transport the shreds for a longer distance it is necessary to use an air transportation system such as a chopper fan. It generates the necessary air flow to transport the waste through a system of pipes to the briquetting press.

Shredding

Complete sheet packs or whole bundles of bank notes are getting pre-chopped into smaller pieces by efficient shredders.

Granulating

The granulator reduces the material to small particles to fulfil the requirements of security level.

Separating

The shred particles of banknotes are getting separated from the transportation air and fed into the briquetting press.

Filtering

The jet-filter furifies the air of dust. By means of a screw conveyor the dust is fed to a briquetting press, which compacts it into briquettes.

Briquetting

The chamber briquetting press compacts the security conform reduced particles to briquettes with a enormous high density. The output of the briquettes happens automatically.

Control unit / Remote diagnosis

The heart of each system solution. The art of mastering measurement and control means using a minimum amount of energy, maintaining high availability, and being adaptable to change.

A user friendly visualisation panel shows each procedure step to users. By means of remote diagnosis, the availability of the equipment is increased and maintenance costs decreased. Status messages are received online by designated recipients, in particular at the Hunkeler Operations Centre, where necessary actions can promptly be taken.



Excellence in Paper Processing



When it comes to paper-processing, Hunkeler is your partner in four areas: waste disposal, digital, web finishing and manufacturing. Our work in these areas results in a highly productive synergy. This, and our entirely holistic approach, puts us in a position to effectively deal with the most demanding requirements.

Disposal

We ensure waste in paper, bank notes, cardboard and poly wraps processes is efficiently disposed of. By using single units or complete systems specific to customers' needs, we increase production efficiency.

Digital

We develop successful system solutions for computer centres, Print On Demand (POD), direct mailing and form producers, printers, stationary stores and book binding companies.

Web finishing

Our equipment enables simple printed paper webs to take on any of a vast range of forms for publicity and advertising materials. Modular equipment handles small as well as large runs fully automatically.

One-stop manufacturing

We manufacture machine parts on request. Benefit from our experience in the manufacturing of single parts, prototypes, or short/intermediate production runs. Hunkeler, your one-stop business.



Hunkeler Systeme AG
Industriestrasse 2
CH-4806 Wikon
Phone +41/62-745 64 64
Fax +41/62-745 63 61
e-mail info@hunkeler-systems.com
web www.hunkeler-systems.com

