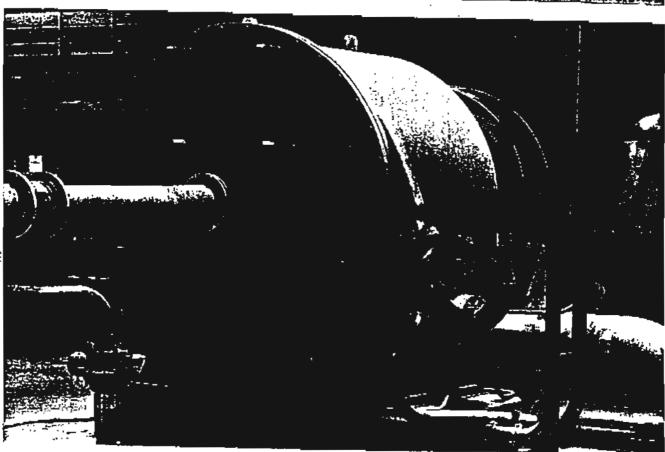
Turbo Separator, type ATS

VOITH

for presiushed secondary fibres





Application

The Volth turbo separator, a highly efficient cleaning unit, is used in conjunction with the type AP waste paper pulper for the processing of unsorted secondary fibres.

This combination ensures trouble-free continuous operation for a virtually unlimited period. It need not be shut down for the cleaning of the pulper even if the furnish contains a high percentage of impurities.

In this two-stage pulping process, the secondary fibres are presiushed; they leave the pulper through a screen plate with large diameter perforations. Any floating and flat impurities such as polystyrene, cork, cellophane, etc., as well as specifically heavy contraries such as stones, staples, etc., are en-

trained by the flowing stock. The turbo separator discharges them separately as lightweight contraries and heavy dirt particles. At the same time, this machine also provides additional stushing.

Basic Arrangement

Horizontal vat with wear-resistant cladding and feet and hinged cover on the front side; screen plate box with exchangeable screen plate, flanged onto the vessel. Horizontal shaft runs in grease-lubricated antifriction bearings. Shredding assembly of stainless steel, working edges have wear-restistant hard-faced overlay.

Operation

The presiushed secondary fibres coming from the pulper flow continuously

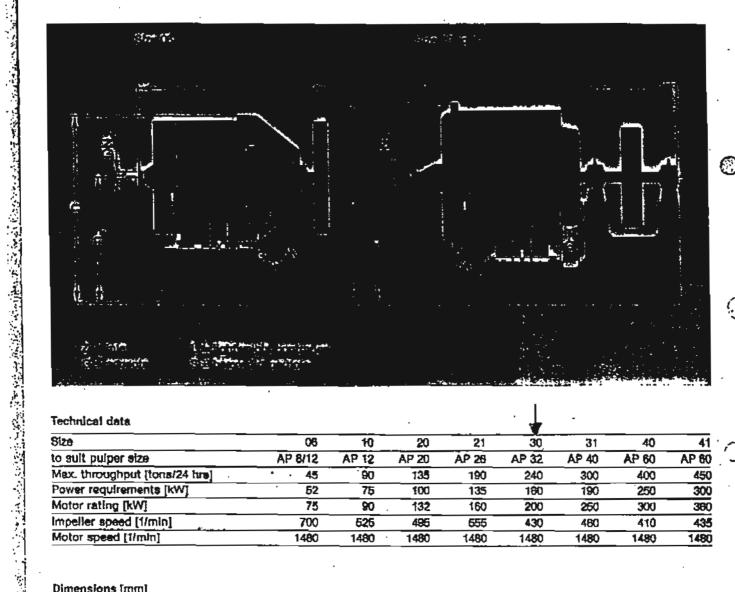
through the turbo separator which provides additional slushing. The special design of the machine and the flow produced inside the vat provide the separation of lightweight contraries and heavy dirt particles contained in the stock. These components leave the turbo separator at different points. The lightweight contraries flow to a rescreening stage under the control of a timer-controlled valve. A centrifugal cleaner (KS 200/6 or KS 200/15) with an automatic dirt trap discharges impurities which have a higher specific gravity than the stock.

The turbo separator is driven via a flat belt drive.

In addition to the advantages of continuous operation, the process results In Improved slushing action and pro-

duces a better cleaning effect than the single-stage irrangement. With the same specific energy consumption, the process boosts the slushing capacity of the pulper by about 50%.

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rectificat data								
Size	06	10	20	21	30	31	40	41
to suit pulper size	AP 8/12	AP 12	AP 20	AP 26	AP 32	AP 40	AP 60	AP 60
Mex. throughput [tons/24 hrs]	· · 45	90	135	190	240	300	400	450
Power requirements [kW]	. 52	75	100	135	180	190	250	300
Motor rating [kW]	75	80	. 132	160	200	250	300	380
Impeller speed [1/min]	700	525	495	555	430	480	410	435
Motor speed [1/mln]	1480	1480	1480	1480	1480	1480	1480	1480

Dimensions [mm]

h _t	2055	2120	2225	2225	2535	2535	2995	2995
h ₂	1500	1400	1400	1400	1600	1600	1800	1800
	1815	2840	3020	3020	3170	3170	3985	3985
DN ₁	150	200	200	200	300	300	350	350
DN ₂	150	200	200	200	300	300	350	350
DN ₃	100	125	125	125	150	150	200	200

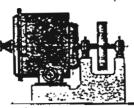
Dimensions and design subject to change.

Volation Screening and Cleaning Machines — if reliability is what you are looking for!

Stock screening and stock cleaning two important process stages. Paper quality and trouble-free operation of paper machines greatly depend on the cleaning result obtained.

And whatever you slush, Volth machinery can cope with every screening and cleaning problem. Engineering and technology are matched with modern production methods and with the impurities found in waste paper today.

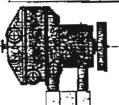
Voith screens and cleaners are suitable for all production grades thanks to closely graded sizes, and keep energy requirements down. Advanced design and the choice of the most suitable materials ensure long operating life, simplify maintenance and thus increase availability.



Turboseparator®

For effective hole screening and further opening of the stock in the preparation of waste paper. Hole diameter 2.0—3.0 mm.

f Sizes		
Throughput [V24 h]	45-450	
Motor rating [kW]	75-360	



Turbowasher

For forward screening in the rejects line. Fibre-free elutriation of impurities.

Hole diameter 2.0—3.0 mm.

3 Sizes
Throughput [V24 h] 20—115

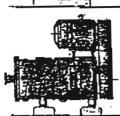
Motor rating [KW] 110—160



Sortex®

Pressureless final-stage screen for the dewatering of concentrated contaminants. Hole diameter 4.0—12.0 mm.

1 Size	
Throughput [t/24 h]	60
Motor rating [kW]	22
Final dryness of the rejects [% b.d.]	1624



Turbosorter

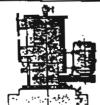
For effective slotted screening at stock consistencies of 3.0—4.0%. Slot widths 0.35—0.55 mm.



Vertical screen

For fine screening at stock consistencies of 0.8—1.0%.
Hole diameter 1.0—2.0 mm.
Slot widths 0.15—0.35 mm.

12 Sizes		
Throughput [V24 h]	801,400	
Motor rating [kW]	15-280	_



Minisorter

For final-stage fine screening at stock consistencies of 0.8-1.0%. Hole diameter 1.0-2.0 mm. Slot widths 0.15-0.35 mm.

4 Sizes		,
Throughput [V24 h]	8-65	
Motor rating [kW]	3-22	•



Centrifugal cleaners

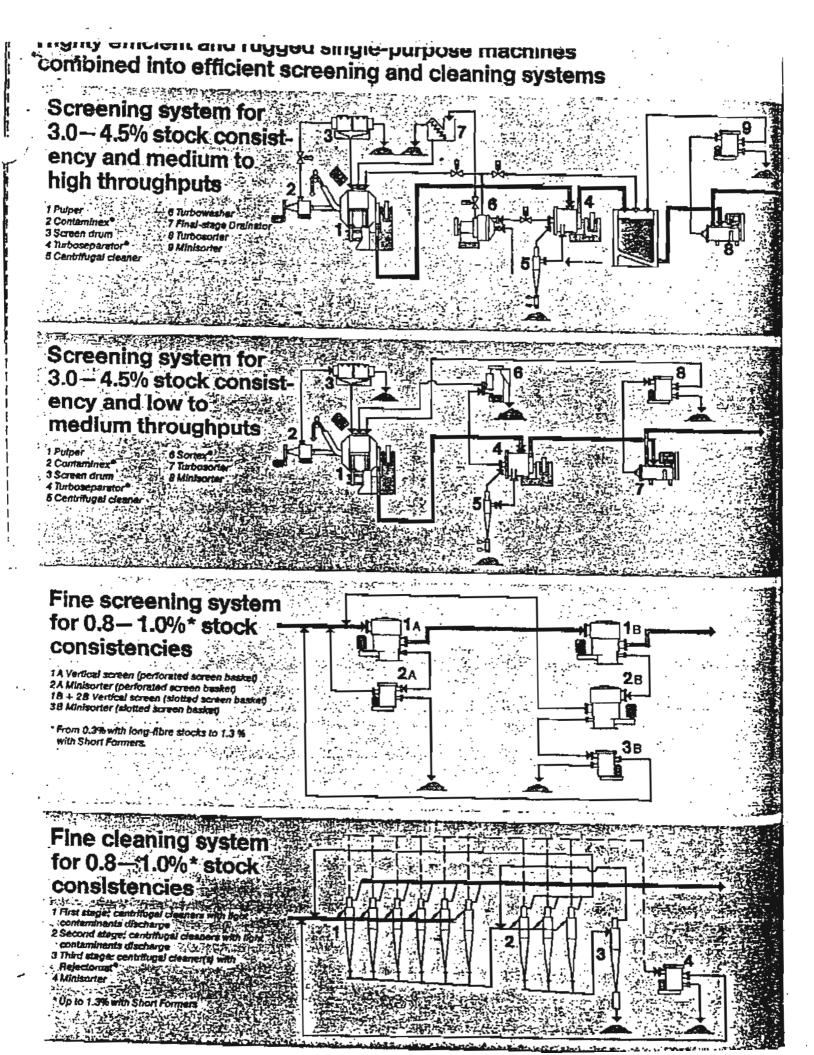
In block arrangement with 6 units each for the effective discharge of fine heavy contaminants and light contaminants (sticky impurities).

2 Sizes	160/6E	250/3E
Throughput [I/min] per block	2,850-3,600	18,000
Stock consistency [% b.d.]	0.6-2	0.5-1.4

Olimensions and Rustrations non-committal, Subject to change.

For detailed power data please refer to our

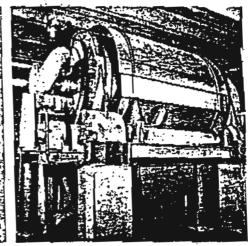




Pulper waste removal by Contaminex® and screen drum for trouble-free. : continuous operation and thus higher production capacity

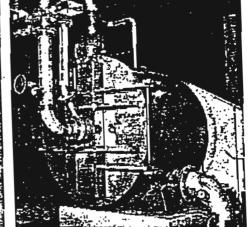
Turboseparator with wear-resistant basalt lining for particularly effective" hole screening. Unaffected by coarse Impurities thanks to disc-screen " *** principle. Very effective separation of heavy contaminants at 1.5-2.0% stock consistency by integrated (§ centrifugal cleaners (Voith patent). Very good overall efficiency of the Turboseparator stage by final-stage

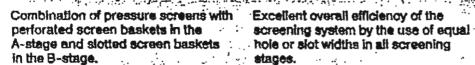
screening with Turbowasher with perforations equal in size to or smaller than those of the Turboseparator. Higher production by forward screening. Drip-free thickening of the fibrefree rejects by a final-stage Drainator (dewatering screw). For high purity requirements, especially for the separation of stickes, subsequent slotted screening stage with Turbosorter and Minisorter. The same slot width on both machines substantially increases the overall efficiency.



Screening system with all the advantages of system No.1 A Sortex® is installed as final-stage screen instead of Turbowasher and 100 final-stage Drainator. The accepts of this screen flow back into the pulper in a The contaminants have a consistency of approx 15%.

Simple arrangement with very good overall efficiency of the system.



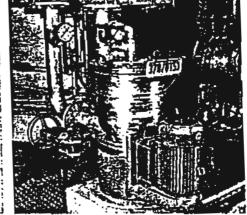


A-stage for the separate ohiefly flat contaminants. A-stage for the separation of

B-stage for the removal of chiefly cubic contaminants, e.g., sticky imourities.

Each final stage has a Minisorter for the fibre-free discharge of trash. : ...

... hole or slot widths in all screening staces.



Multi-stage centrifugal cleaner system. The Minisorter with very fine slots all for the discharge of fine heavy contain effectively discharges the light contraints and impurities with a low training the first and second specific gravity of different sizes and stages fibre-free. shapes, such as stickles.

Special centrifugal cleaners with light contaminants discharge in the first and second stages separate parti-cularly sticky impurities.

Centrifugal cleaners with Rejectomet in the third stage discharge heavy 'Roll contaminants in concentrated form and fibre-free

The Minisorter with very fine slots also



