



# MaxFlow

The New Generation of Out-Flow Screen and Fractionator



## FEATURES AND BENEFITS

The MaxFlow is the latest developed "Outward Flow Screen", which provides high efficiency screening with a fine slot basket at large ranging consistencies from 1.0 to 3.0%. With its unique design, dramatic power saving can be achieved, 30 to 50% less energy than conventional screen at your mill.

Benefits;

1. "Slender Cylinder" leads to lower power input.
2. "Top and Bottom Feed and Center Rejecting System" for less reject thickening.
3. "Dilution Water Supply" to improve screen capacity.
4. "USO Foil" rotating at lower speed results in less power.
5. "NWSuper 2" provides further better sticky removal.
6. "Dual Step Cylinder" compromise better screening.

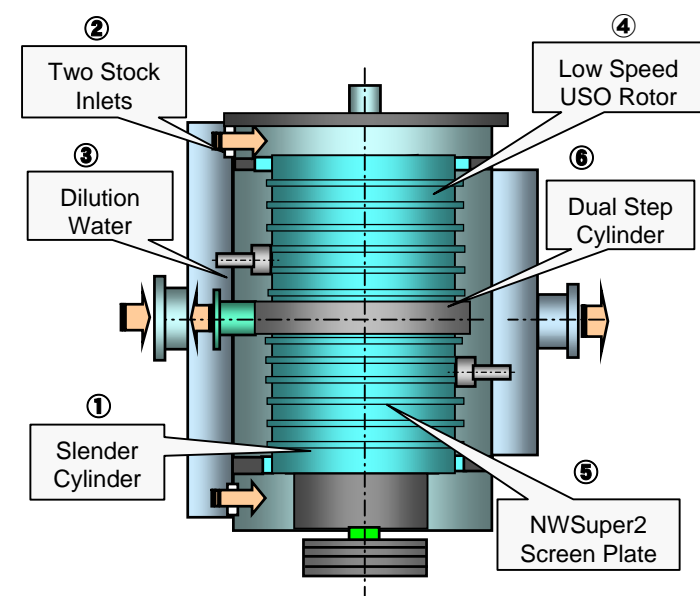
## Applications

- Coarse and Fine screening for deinking process.
- Coarse and Fine screening for brown grade stock.
- Thick stock screening at Wet-End process.
- Broke paper treatment process.
- Pulp plant screening.
- Fractionation of Long/Short fibers



# MaxFlow, The Latest Out-Flow Screen

## ADVANTAGES



**Slender Cylinder:**  
Smaller diameter and longer cylinder allows much less power consumption as explained below.

$$\begin{aligned} 600\text{mm}\Phi\text{-}600\text{mmH (1.13m}^2\text{), 17m/s (540rpm)} &= P1(\text{KW}) \\ 400\text{mm}\Phi\text{-}900\text{mmH (1.13m}^2\text{), 17m/s (812rpm)} &= P2(\text{KW}) \\ P2 &= P1 \times (0.4/0.6)^5 \times (812/540)^3 \times (0.9/0.6) \\ P2 &= 0.67 \cdot P1 (30\% \text{ Less Power}) \end{aligned}$$

**Two Stock Inlets:**  
Top and Bottom inlet allows less stock consistency thickening at reject area, which allows to use the entire cylinder surface for screening job.  
**Intermediate Dilution Water:**  
Long cylinder design means higher reject thickening. Dilution water works to avoid such undesirable condition.

**Low Speed USO Rotor:**  
The USO was designed based on the Hydro-dynamic fluid analysis, of which configuration is very thin and it rotates at lower speed than others. The type of the rotor is selected depending on the furnish and amount of the contaminants contained in the stock.

**Dual Step Cylinder:**  
Center portion (Reject area) can be replaced by the cylinder having different slot width.

**NWSuper2:**  
NWSuper2 is a quite unique designed plate, which assures hydro-dynamically blocking of fine size sticky passing through the slot.

	Cylinder (mm) Dia. - Height	Open Area 0.20mm Slot	Installed Motor KW
MAX400	400 $\phi$ -800H	0.0418m <sup>2</sup>	22 – 45KW
MAX500	500 $\phi$ -975H	0.0639m <sup>2</sup>	37 – 75KW
MAX600	600 $\phi$ -1350H	0.1162m <sup>2</sup>	55 – 132KW
MAX700	700 $\phi$ -1570H	0.1585m <sup>2</sup>	95 – 175KW
MAX1000	1000 $\phi$ -1700H	0.2534m <sup>2</sup>	132 – 250KW
MAX1300	1340 $\phi$ -2020H	0.4035m <sup>2</sup>	190 – 350KW

Approximate throughput of the MaxFlow can be calculated as follows: (Example: slot 0.25mm / MAX700 / 2.0% cons.)  
 $0.1585\text{m}^2 \times 0.25/0.20(\text{mm}) \times 2.0(\text{m/s}) \times 2.0\% \times 60\text{s/min} \times 1440\text{min}$   
 = 684.7 BD.Tons/Day



**AIKAWA FINEBAR**  
AIKAWA GROUP

AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694

**AFT**  
AIKAWA GROUP

AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250

**POM**  
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# GranFlow

The New Generation of In-Flow Screen



## FEATURES AND BENEFITS

The GranFlow is an excellent "Inward Flow Screen", which provides high efficiency screening with a fine slot basket, because of gentle screening thanks to the principle of the inward flow. With its unique inflow design, required power is much less than the conventional screen, and sticky removal performance is also significantly superior.

Benefits;

1. "Top and Bottom Feed and Center Rejecting System" for less reject thickening.
2. "USI Foil" rotating at lower speed results in less power consumption.
3. "NWSuper 2" provides further better sticky removal.
4. Screen plate life is much longer than others.
5. Less cylinder damages by heavy foreign materials.

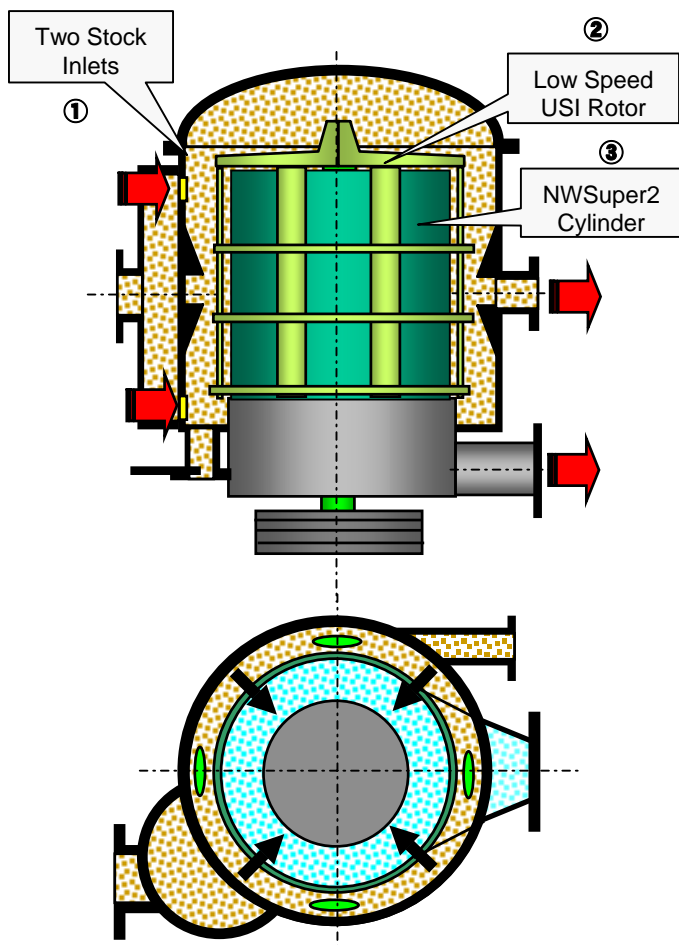
## Applications

- Fine screening for deinking process.
- Fine screening for brown grade stock.
- Thick stock screening at Wet-End process.
- Broke paper treatment process.
- Fractionation of Long/Short fibers





# GranFlow, Excellent In-Flow Screen



## ADVANTAGES

### Inward Flow Principle:

The centrifugal force separates larger and heavy particles from the stock and forces them away from the screen plate. The fine reject material is lifted from the plate by a vacuum created by the hydrofoils. These contaminants are held away from the plate by centrifugal force until they are rejected. The vacuum preventing plugging of the plate works in the same direction as the centrifugal force so that effective cleaning of the plate is accomplished with a weaker vacuum than conventional screens, resulting in the use of fine slot, in gentle screening to obtain superior sticky removal efficiency.

### Two Stock Inlets:

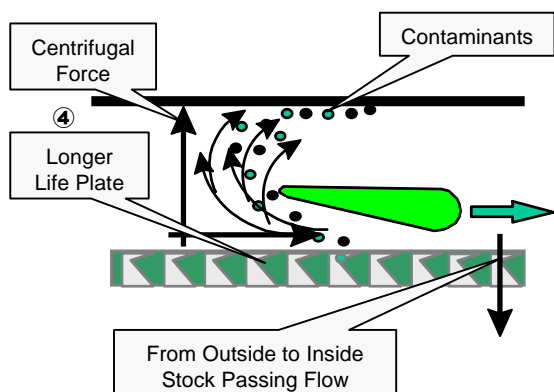
Top and Bottom inlet allows less stock consistency thickening at reject area, which allows to use the entire cylinder surface for screening job.

### Low Speed USI & Standard Rotor:

The USI was designed based on the Hydro-dynamic fluid analysis, of which configuration is very thin and it rotates at lower speed than others. The type of the rotor is selected depending on the furnish and consistency, The standard rotor is used for high consistency stock screening, of which rotor needs to be run faster.

### NWSuper2:

NWSuper2 is a quite unique designed plate, which assures hydro-dynamically blocking of fine size sticky passing through the slot.



	Cylinder (mm) Dia. - Height	Open Area 0.15mm Slot	Installed Motor KW
GFF400	400 $\phi$ -410H	0.0204m <sup>2</sup>	11 – 22KW
GFF600	600 $\phi$ -575H	0.0429m <sup>2</sup>	19 – 37KW
GFF800	854 $\phi$ -775H	0.0850m <sup>2</sup>	37 – 55KW
GFF1000	955 $\phi$ -1000H	0.1250m <sup>2</sup>	45 – 75KW
GFF1200	1200 $\phi$ -1150H	0.1795m <sup>2</sup>	55 – 110KW
GFF1500	1530 $\phi$ -1500H	0.3026m <sup>2</sup>	90 – 150KW
GFF1900	1900 $\phi$ -2000H	0.4992m <sup>2</sup>	150 – 250KW

Approximate throughput of the GranFlow can be calculated as follows: (Example: slot 0.20mm / GFF1200 / 1.0% cons.)  
 $0.1795\text{mm}^2 \times 0.20 / 0.15(\text{mm}) \times 1.8(\text{m/s}) \times 1.0\% \times 60\text{s/min} \times 1440\text{min}$   
 = 372.2 BD.Tons/Day



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694



AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250





# GranFlow-H

The Newest Generation of In-Flow Screen

## FEATURES AND BENEFITS

The GranFlow-H is the latest developed "Inward Flow Screen", which provides high efficiency screening with a fine slot basket because of gentle screening thanks to the principle of the inward flow. With its unique design, dramatic power saving and excellent sticky removal can be accomplished. The consumed power of the GranFlow-H is much less than your conventional screen. (about 30 to 50% less).

Benefits;

1. "Slender Cylinder" leads to lower power input.
2. "Top and Bottom Feed and Center Rejecting System" for less reject thickening.
3. "USI Foil" rotating at lower speed results in less power.

4. "NWSuper 2" provides further better sticky removal.
5. "Dual Step Cylinder" compromise better screening.

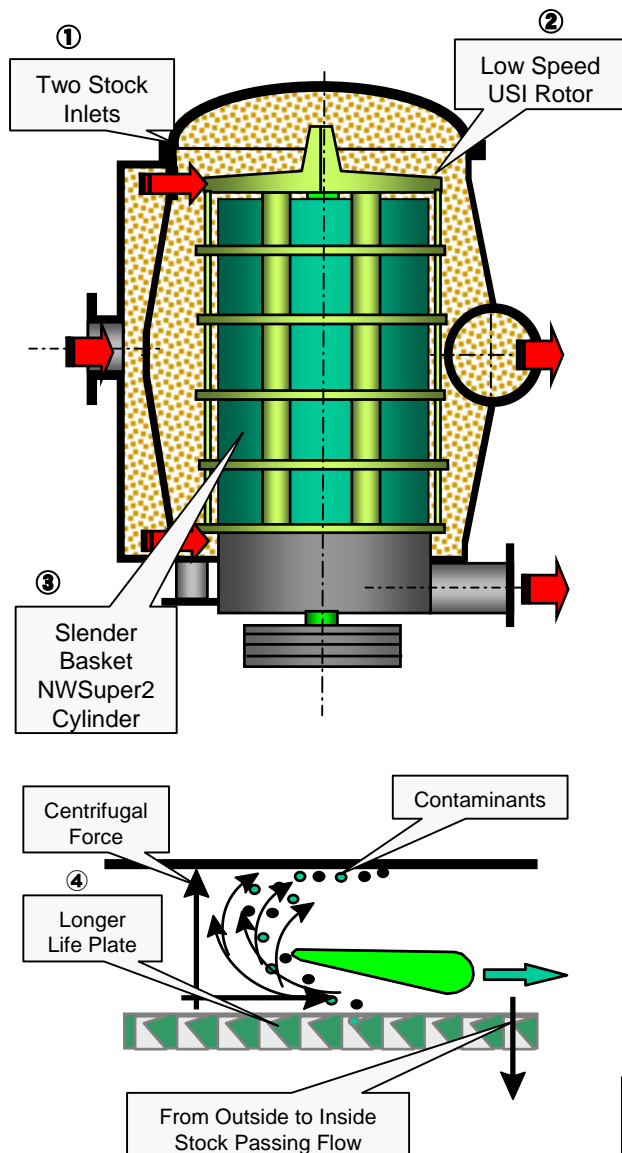
## Applications

- Fine screening for deinking process.
- Fine screening for brown grade stock.
- Broke paper screening process.
- Fractionation of Long/Short fibers



# GranFlow H, The Latest In-Flow Screen

## ADVANTAGES



### Inward Flow Principle:

The centrifugal force separates larger and heavy particles from the stock and forces them away from the screen plate. The fine reject material is lifted from the plate by a vacuum created by the hydrofoils. These contaminants are held away from the plate by centrifugal force until they are rejected. The vacuum preventing plugging of the plate works in the same direction as the centrifugal force so that effective cleaning of the plate is accomplished with a weaker vacuum than conventional screens, resulting in the use of fine slot, in gentle screening to obtain superior sticky removal efficiency.

### Two Stock Inlets:

Top and Bottom inlet allows less stock consistency thickening at reject area, which allows to use the entire cylinder surface for screening job.

### Slender Cylinder:

Smaller diameter and longer cylinder allows much less power consumption as explained below.

$$\begin{aligned}
 &600\text{mm}\Phi\text{-}600\text{mmH} (1.13\text{m}^2), 17\text{m/s} (540\text{rpm}) = P1(\text{KW}) \\
 &400\text{mm}\Phi\text{-}900\text{mmH} (1.13\text{m}^2), 17\text{m/s} (812\text{rpm}) = P2(\text{KW}) \\
 &P2 = P1 \times (0.4/0.6)^5 \times (812/540)^3 \times (0.9/0.6) \\
 &P2 = 0.67 \cdot P1 (30\% \text{ Less Power})
 \end{aligned}$$

### Dual Step Cylinder:

Center portion (Reject area) can be replaced by the cylinder having different slot width (Option Specification)

### NWSuper2:

NWSuper2 is a quite unique designed plate, which assures hydro-dynamically blocking of fine size sticky passing through the slot.

### Low Speed USI Rotor:

The USI was designed based on the Hydro-dynamic fluid analysis, of which configuration is very thin and it rotates at lower speed than others..

	Cylinder (mm) Dia. - Height	Open Area 0.15mm Slot	Installed Motor KW
GFF400H	400 $\phi$ -665H	0.0312m <sup>2</sup>	11 – 22KW
GFF600H	600 $\phi$ -920H	0.0673m <sup>2</sup>	19 – 30KW
GFF800H	854 $\phi$ -1230H	0.1353m <sup>2</sup>	37 – 55KW
GFF1000H	955 $\phi$ -1570H	0.1996m <sup>2</sup>	45 – 75KW
GFF1200H	1200 $\phi$ -1750H	0.2650m <sup>2</sup>	55 – 110KW

Approximate throughput of the GranFlow H can be calculated as follows: (Example: slot 0.20mm / GFF1200H / 1.0% cons.)  
 $0.2650\text{mm}^2 \times 0.20/0.15(\text{mm}) \times 1.8(\text{m/s}) \times 1.0\% \times 60\text{s/min} \times 1440\text{min}$   
 = 549.5 BD.Tons/Day



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694



AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250







# Renewal by Max-Tech

Performance of Your Screen Can be Improved

## FEATURES AND BENEFITS



### Applications

- KBC UV Screen, PS&PH Screen.
- Voith Conventional Screens.
- Andritz Conventional Screens
- Conventional Out-Flow Screens

Improved Capacity of KBC 24PS Screen  
 Furnish: Mixed Waste contained OCC  
 Slot Width: 0.25mm, Feed Consistency: 2.0%  
 Through-Put: 200-250T/D  
 Absorbed Power: 25-35KW (3.2 KWH/Ton)



The MaxFlow is the latest developed "Outward Flow Screen" using a quite unique technologies, which provides high efficiency screening and reduces dramatically energy consumption. With its unique technologies, your existing and/or idle screens can be renewed, resulting in capacity improvement and energy saving by 30-50%.

What parts are modified ?

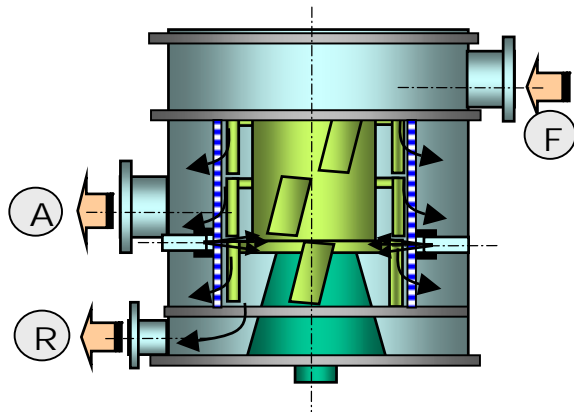
1. Screen Casing to be added dilution water injection pipe.
2. Screen Cylinder adopting intermediate dilution water system.
3. Rotor having USO feature, and Lowering the rotation speed.

# Renewal of Unemployed Screen

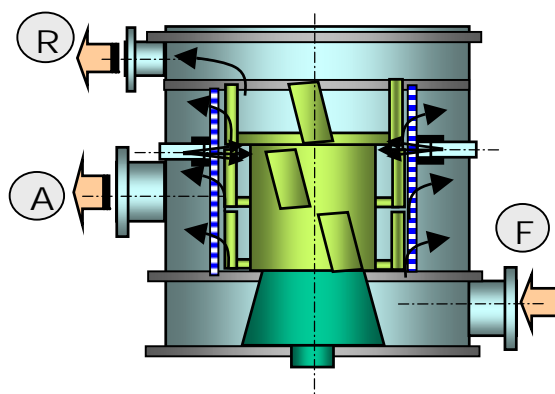
## ADVANTAGES

Your unemployed screen can be renewed to the most modern screen, which give you capacity improvement by 50% and power saving by 50%, resulting in that specific power consumption is reduced to 25% comparing the original one.

Down Flow Screen



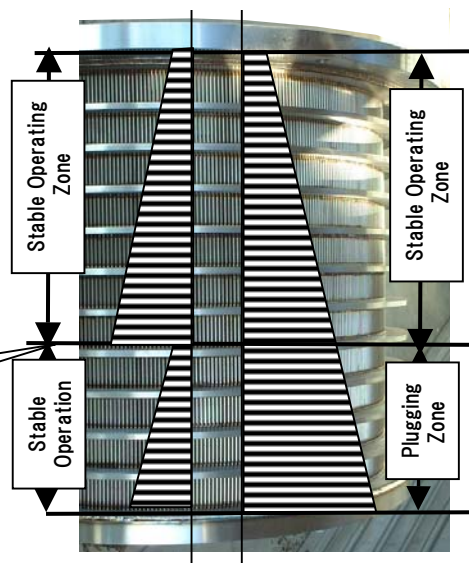
Up Flow Screen



Intermediate  
Dilution Water

Intermediate  
Dilution Water

Reject Thickening  
MaxFlow vs Conventional



	Original Status	Renewal-1	Renewal-2
Slot Width	0.30mm	0.25mm	0.25mm
Feed	160T/D	320T/D	240T/D
Accept	115T/D	260T/D	200T/D
Reject	45T/D	60T/D	40T/D
Absorbed KW	105KW	55KW	35KW
<b>Power Consumpt.</b>	<b>21.9KWH/T</b>	<b>5.1KWH/T</b>	<b>4.2KWH/T</b>

Example of Power Saving Result  
Screen Model: KBC 30PS (23m/sec)  
Furnish: Japanese OCC  
Rotor Model: USO MaxFlow Model  
Speed: 17m/sec(Renewal-1), 15m/sec(Renewal-2)

**AIKAWA FINEBAR**  
AIKAWA GROUP

AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694

**AFT**  
AIKAWA GROUP

AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250

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# Super Screen

The Most Efficient Pulp Plant Screen

SuperScreen "FS-2"



## FEATURES AND BENEFITS

The Super Screen, developed on the principle of Inward Flow, provides high efficiency screening with a fine slot basket at large range of the consistencies from 1.0% to 3.0%. With its unique inflow design, required power is much less than the conventional pulp screens, and plate life is much longer than the others, because of less damage of screen cylinder by heavy materials such as stone, debris and shives.

There are two models, FS-1 and FS-2. FS-1 is used as the screen after the low consistency cleaners of the bleaching stage, FS-2 is used at hot screening stage, before or after washing stage.

## Applications

- Hot Stock Screening after the Knotters.
- Unbleached Pulp Screening after Washing.
- Bleached Pulp Screening before/after Cleaners.

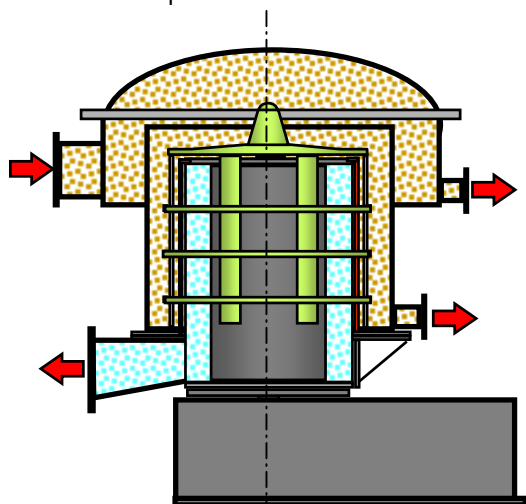
In the past, most of pulp plant employed screens with holes. In recent year, however, rubber chips, plastic pieces and various contaminants have become evident in the raw materials, affecting the product quality and the operating efficiency of paper machines. Super-Screen providing NWSuper2 is the most effective in improving those problems.

SuperScreen "FS-1"

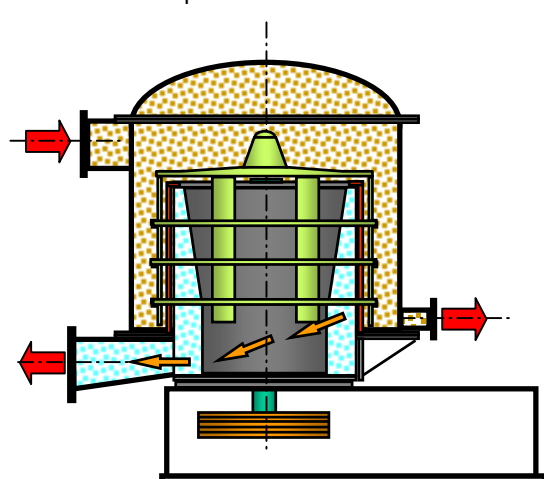


# Sper-Screen, Excellent Pulp Plant Screen

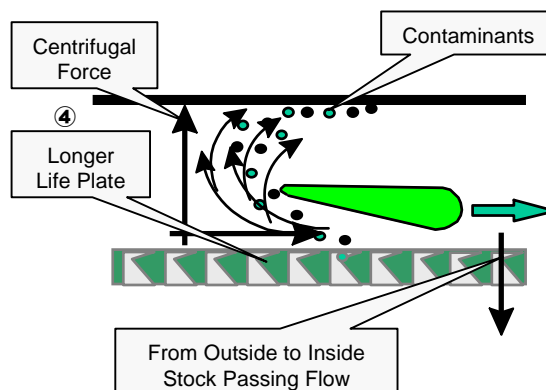
SuperScreen "FS-2"



SuperScreen "FS-1"



## ADVANTAGES



### Inward Flow Principle:

The centrifugal force separates larger and heavy particles from the stock and forces them away from the screen plate. The fine reject material is lifted from the plate by a vacuum created by the hydrofoils. These contaminants are held away from the plate by centrifugal force until they are rejected.

The vacuum preventing plugging of the plate works in the same direction as the centrifugal force so that effective cleaning of the plate is accomplished with a weaker vacuum than conventional screens, resulting in the use of fine slot plate with less power consumption.

Approximate capacity of the SuperScreen can be calculated as follows:

Example: slot 0.20mm / FS-1200 / 1.5% cons. HW.

$0.1650\text{m}^2 \times 0.20/0.15(\text{mm}) \times 2.0(\text{m/s}) \times 1.5\%$   
 $\times 60\text{s/min} \times 1440\text{min} = 570 \text{ BD.Tons/Day}$

Example: slot 0.25mm / FS-1200 / 1.5% cons. Unbleached S.W.

$0.1650\text{m}^2 \times 0.25/0.15(\text{mm}) \times 1.5(\text{m/s}) \times 1.5\%$   
 $\times 60\text{s/min} \times 1440\text{min} = 530 \text{ BD.Tons/Day}$

	Cylinder (mm) Dia. - Height	Open Area 0.15mm Slot	Installed Motor KW
FS-400	400 $\phi$ -410H	0.0192m <sup>2</sup>	19 – 25KW
FS-600	600 $\phi$ -575H	0.0401m <sup>2</sup>	30 – 45KW
FS-800	854 $\phi$ -775H	0.0781m <sup>2</sup>	45 – 75KW
FS-1000	955 $\phi$ -1000H	0.1148m <sup>2</sup>	75 - 90KW
FS-1200	1200 $\phi$ -1150H	0.1650m <sup>2</sup>	90 – 150KW
FS-1500	1530 $\phi$ -1500H	0.2778m <sup>2</sup>	110 – 190KW

**AIKAWA FINEBAR**  
AIKAWA GROUP

AIKAWA Shizuoka/Japan  
 Phone +81 54 261 1102  
 Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
 Phone +62 21 572 3220  
 Fax +62 21 572 4257

AFT Varkaus/Finland  
 Phone +358 207 429 200  
 Fax +358 207 429 280

AFT Incheon/Korea  
 Phone +82 32 814 2825  
 Fax +82 32 815 2825

FINEBAR/USA  
 Phone +1 860 645 5340  
 Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
 Phone +81 3 3271 7465  
 Fax +81 3 3281 2875

AFT Helsinki/Finland  
 Phone +358 207 429 200  
 Fax +358 9 3509 0442

AFT Strasbourg/France  
 Phone +33 3 8855 3525  
 Fax +33 3 8855 3520

AFT Singapore/Asia  
 Phone +65 6246 1354  
 Fax +65 6246 1694

**AFT**  
AIKAWA GROUP

AIKAWA Shanghai/China  
 Phone +86 21 6235 0597  
 Fax +86 21 6235 0670

AFT Lennoxville/Canada  
 Phone +1 819 562 4754  
 Fax +1 819 562 6064

AFT Montreal/Canada  
 Phone +1 514 481 6111  
 Fax +1 514 481 3335

POM Helsinki/Finland  
 Phone +358 975 175 200  
 Fax +358 975 175 250

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# Head Box Screen

The Most Efficient Approach Flow Screen

Model "B-2300"



## FEATURES AND BENEFITS

The Aikawa Head Box Screen Model B & BF employ the unique "Inward Flow" design, so you can take various advantages as the most advanced approach-flow screening. And the polishing quality of the stock contact part for both inlet and outlet side is the best in the world. (Refer to the picture mentioned below) Over 90% of approach flow screen in Japan are Aikawa made Inward Flow Screens.

Benefits;

1. Significantly Lower Pulsation
2. Grater Screening Efficiency
3. Much Lower Horse Power Consumption
4. Longer Life of Screen Plate
5. Dramatic Improvements in Paper Product Quality
6. Best Possible Protection Ahead of the Paper Machine

Model "BF1200"



## Applications

Various Approach Flow Screening;

- Printing & Writing Paper
- News & Light Weight Coated Paper
- Specialty Paper
- Multi Paper Board
- Liner Board, Corrugating Board
- Tissue & Toilet Paper

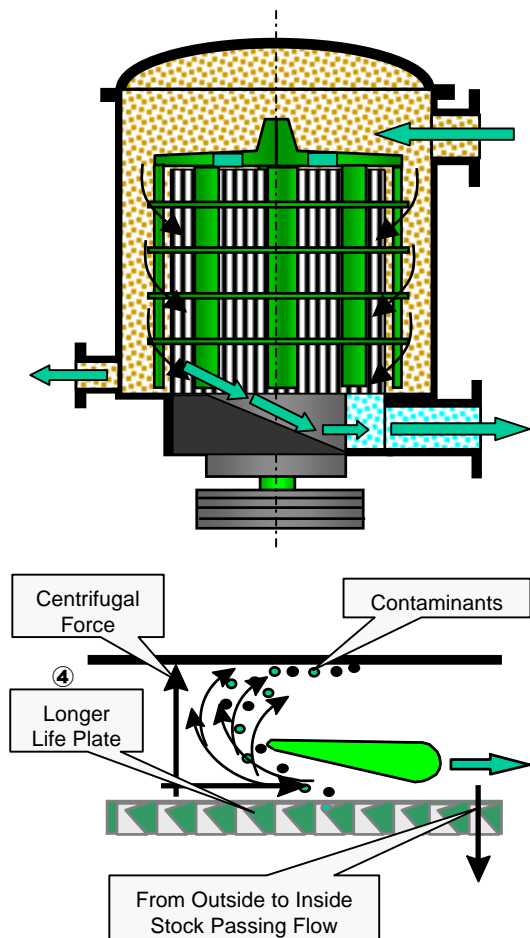
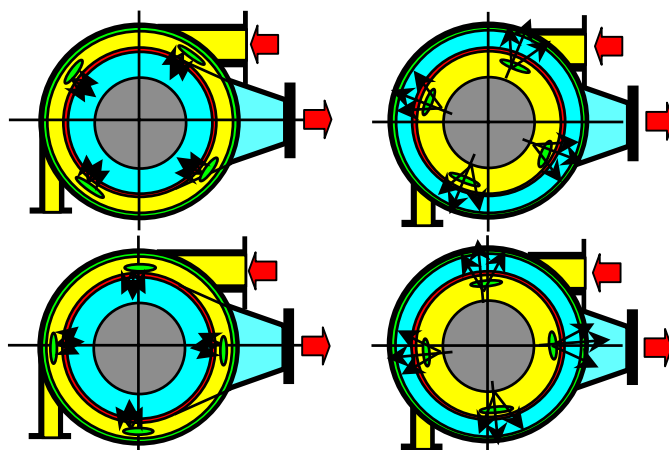


# Approach Flow Screen Model "B & BF"

Head Box Screen "Model B&BF"

## ADVANTAGES

Pulsation Comparison Inflow vs. Outflow



### Inward Flow Principle:

The centrifugal force separates larger and heavy particles from the stock and forces them away from the screen plate. The vacuum preventing plugging of the plate works in the same direction as the centrifugal force so that effective cleaning of the plate is accomplished with a weaker vacuum than conventional screens, resulting in much less power consumption.

### No Pulsation Effects:

The accepts flow is to the inside of the cylinder, where the effects of pulsations outside the basket are balanced. The stock then exits the screen below the cylinder, down and away from the rotating element action. Thus, the accepts flow to the paper machine has no trace of pulsation, resulting in more uniform sheet profile.

	Cylinder (mm) Dia. - Height	Open Area 0.20mm Slot	Installed KW Model "B" 10m/s-12m/s	Installed KW Model "BF" 14.5m/s	Installed KW Model "FH" 15m/s-18m/s
Model-400	400 $\phi$ -410H	0.0273m <sup>2</sup>	7.5-11KW	NA	19 – 25KW
Model-600	600 $\phi$ -575H	0.0576m <sup>2</sup>	11-19KW	NA	30 – 45KW
Model-800	854 $\phi$ -775H	0.1142m <sup>2</sup>	30-37KW	NA	45 – 75KW
Model-1000	955 $\phi$ -1000H	0.1678m <sup>2</sup>	37-45KW	55KW	75 - 90KW
Model-1200	1200 $\phi$ -1150H	0.2409m <sup>2</sup>	45-55KW	75KW	90 – 150KW
Model-1500	1530 $\phi$ -1500H	0.4057m <sup>2</sup>	55-75KW	95KW	110 – 190KW
Model-1900	1900 $\phi$ -2000H	0.6717m <sup>2</sup>	95-110KW	132KW	NA
Model-2300	2350 $\phi$ -2390H	0.9928m <sup>2</sup>	110-132KW	150KW	NA



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694



AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250





# MaxSaver

The Latest Developed Reject Saver Screen



## FEATURES AND BENEFITS

The MaxSaver is the latest developed "Outward Flow and UpFlow type Reject Processing Screen", which provides high efficiency screening and high performance for useful fiber recovery with a fine slot cylinder. The reject is continuously discharged from the reject outlet located at the top of the screen after washing by the reject sealing water, resulting in quite less fiber losses. The heavy contaminants are discharged periodically at the metal trap located at the bottom of the screen.

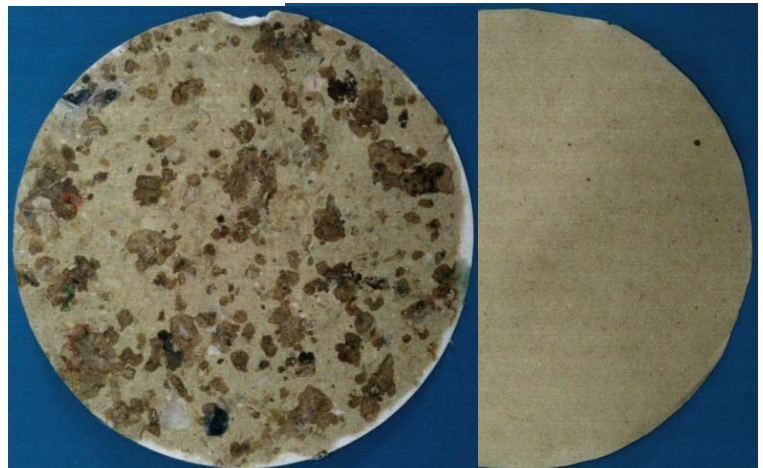
Benefits;

1. "UpFlow type Reject Screen".
2. "Intermediate Dilution Water Supply" to improve screen capacity and deflaking of remaining paper flakes.
3. "USO Foil" rotating at lower speed results in less power.
5. "NWSuper 2" provides further better sticky removal.

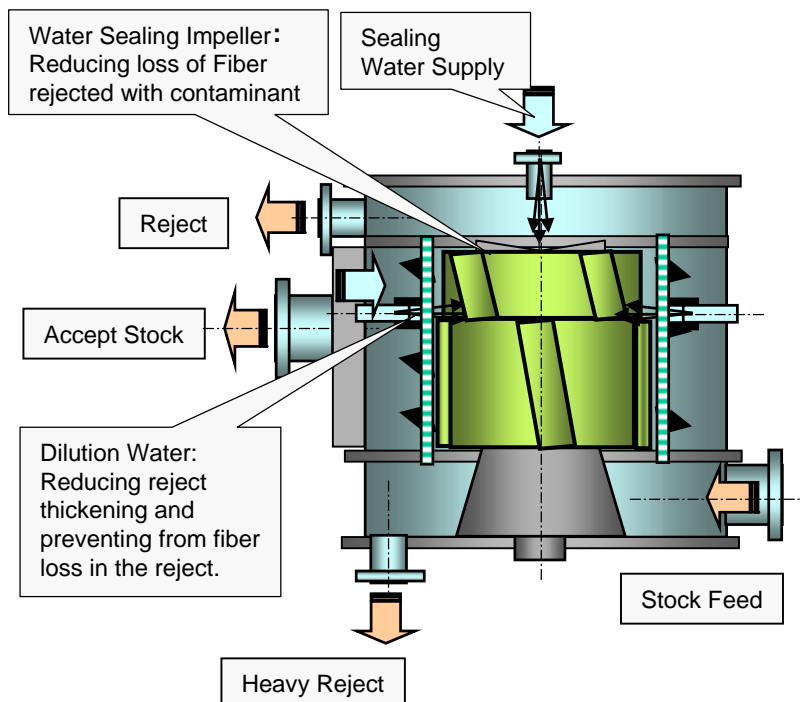
## Applications

- Final reject processing of coarse and fine screening of de-inking process.
- Final reject processing of coarse and fine screening for brown grade stock.
- Final reject screening for Broke-Paper.
- Final reject screening at Pulp plant.

OCC Processing, Reject and Accepts from the MaxSaver



# MaxSaver, Outward Flow Reject Screen



## ADVANTAGES

### Intermediate Dilution Water:

Additional water dilutes thickened stock to lower the consistency, resulting in stable operation, better screening and higher fiber recovery performance.

### Water Sealing Mechanism:

The sealing water works as a washing water of the rejected material at the end of the cylinder, resulting in useful fiber can be recovered at the end side of the screen cylinder.

### Low Speed USO Rotor:

The USO was designed based on the Hydro-dynamic fluid analysis, of which configuration is very thin and it rotates at lower speed than others.

### NWSuper2:

NWSuper2 is a quite unique designed plate, which assures hydro-dynamically blocking of fine size sticky passing through the slot.

Rotor & Screen Cylinder for MaxSaver



Throughput Capacity of MaxSaver

Model	Slot	OCC, MW	News
MXS400	0.15mm	18ADT/D	24ADT/D
	0.20mm	26ADT/D	34ADT/D
	0.25mm	36ADT/D	47ADT/D
MXS500	0.15mm	27ADT/D	35ADT/D
	0.20mm	40ADT/D	52ADT/D
	0.25mm	55ADT/D	72ADT/D

	Cylinder (mm) Dia. - Height	Open Area 0.20mm Slot	Installed Motor KW
MXS400	400 $\phi$ -400H	0.0210m <sup>2</sup>	22 – 37KW
MXS500	500 $\phi$ -500H	0.0320m <sup>2</sup>	37 – 55KW

Inlet Stock Consistency: 1.0% - 1.5%

OCC means Japanese OCC.

MW means Mixed Waste

For AOCC, the capacity must be (X 0.85) for JOCC.

Screen rotation speed is around 17m/sec.



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

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Phone +1 860 645 5340  
Fax +1 860 645 5343

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Phone +81 3 3271 7465  
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Phone +358 207 429 200  
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Fax +65 6246 1694



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Phone +86 21 6235 0597  
Fax +86 21 6235 0670

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Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
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# FR-Screen

## Inward Flow Type Reject Screen



### FEATURES AND BENEFITS

The FR Screen, developed on the principle of Inward Flow, provides high efficiency screening with a fine slot basket, especially superior sticky removal is achieved. With its unique inflow design, required power is much less, and plate life is much longer than the conventional outward flow reject screens.

There are two models, one is a continuous rejecting type and the other is a periodical reject discharging type, which are selected depending on the customer's demands.

Usually, periodical reject discharging type is recommended in order to reduce loss of the fiber contained in the reject.

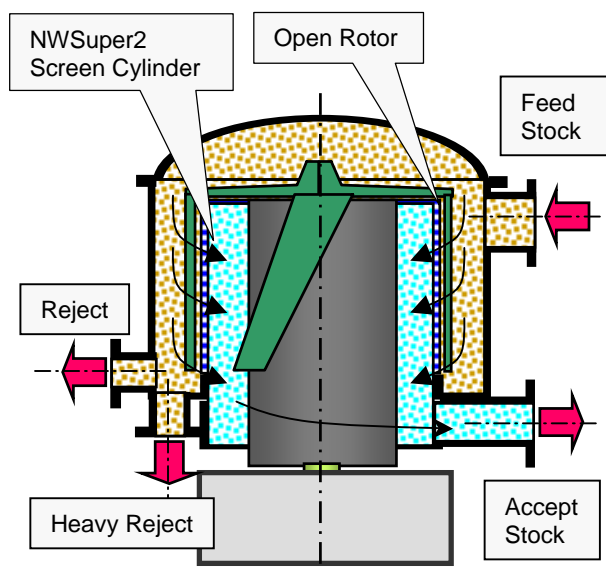
The continuous rejecting type is recommended as the final stage screen of approach flow screening process, which must be considered to be "Pulsation Problem Free".

### Applications

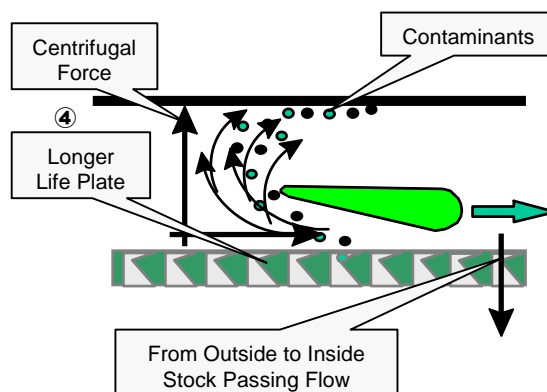
- Final reject processing of coarse and fine screening of de-inking process.
- Final reject processing of coarse and fine screening for brown grade stock.
- Final reject screening for Broke-Paper.
- Final reject screening at Approach Flow.



# FR-Screen, Inward Flow Reject Screen



## ADVANTAGES



Open Rotor for FR-Screen  
(Model FR800 & FR400)



### Inward Flow Principle:

The centrifugal force separates larger and heavy particles from the stock and forces them away from the screen plate. The fine reject material is lifted from the plate by a vacuum created by the hydrofoils. These contaminants are held away from the plate by centrifugal force until they are rejected.

### Open Rotor:

The rotor is a complete open foil type, which never cause impurities hanging problem on the foils, and therefore the screen plate never be damaged by the contaminants, which resulting in longer plate life than conventional screen.

Approximate capacity of the FR-Screen can be calculated as follows:

Example: slot 0.20mm / FR-600 / 1.0% cons.  
 $0.0348\text{m}^2 \times 1.0(\text{m/s}) \times 1.0\% \times 60\text{s/min} \times 1440\text{min} = 30 \text{ BD.Tons/Day}$

Continuous Rejecting Operation: 30BD.T/Day

Periodical Rejecting Operation: 20BD.T/Day

	Cylinder (mm) Dia. - Height	Open Area 0.20mm Slot	Installed Motor KW
FR400	400 $\phi$ -290H	0.0182m <sup>2</sup>	11 – 22KW
FR600	600 $\phi$ -378H	0.0348m <sup>2</sup>	22 – 37KW
FR800	854 $\phi$ -515H	0.0881m <sup>2</sup>	37 – 55KW

Inlet Stock Consistency: 1.0% - 1.5%

Screen rotation speed is around 15m/sec.



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

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Phone +81 3 3271 7465  
Fax +81 3 3281 2875

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Phone +358 207 429 200  
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Fax +33 3 8855 3520

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Phone +65 6246 1354  
Fax +65 6246 1694



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Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250





# JF-Sorter

Deflaking & Sorting for Reject Processing



## FEATURES AND BENEFITS

The JF-Sorter is a high performance reject processor, which defibers paper flakes and removes foreign materials with a special designed hole strainer. It works in cycles automatically controlled by a programmable controller, of which cycles consists of Screening Stage, Defibering Stage, Washing Stage and Reject Dumping Stage.

Benefits;

1. Fully pressurized operation
2. Fiber free rejects
3. Highest screening efficiency
4. Minimum space requirement
5. Ease of maintenance
6. Low power consumption

## Applications

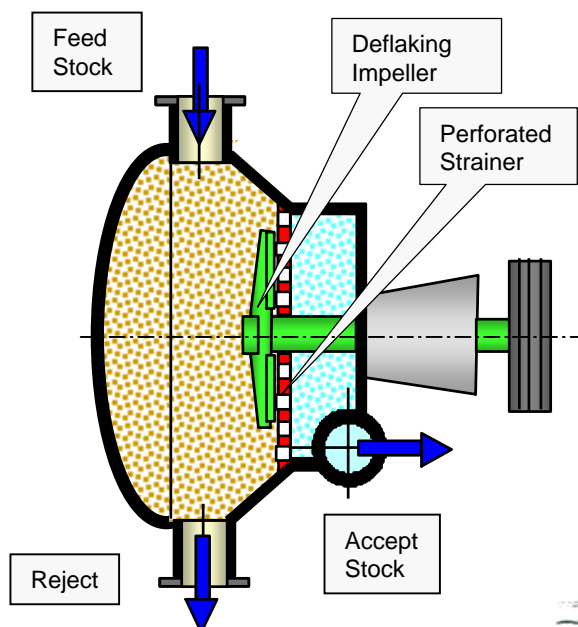
The JF-Sorter processes rejects from all types of screening equipment. The major applications are:

- Light weight rejects discharged from various "Separators" such as Double Separator etc.
- Processing of final rejects from perforated screens.
- Replacing a mainstream perforated screen and deflaker in a small capacity production line.
- Recovery of useful fibers in sludge from paper and pulp mills.





# JF-Sorter, Hole Reject Processor



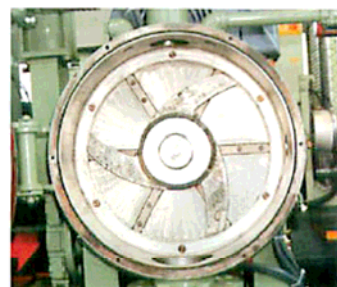
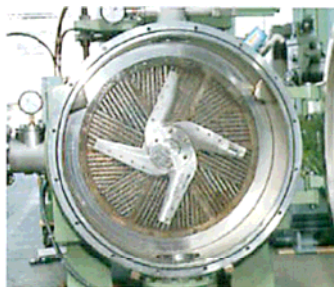
## ADVANTAGES

### Operating Principle:

The stock is introduced to the stock chamber in which a specially designed impeller rotates, ensuring the passage of fibers through a perforated strainer. Contaminants are stopped by the perforated strainer and build up in the stock chamber. Then, contaminants are washed and separated from the good fibers. Finally, rejects cleared of fibers are discharged. The duration of the screening cycle depends on the contamination degree of the stock to be screened.

### Rotor & Plate Configuration:

Various rotor and plate configurations are available for the "JF-Sorter", For OCC and other difficult furnishes to be deflaked, specially designed configuration is used.



### Capacity Table: AD.T/D

Reject from coarse hole screens = x 0.70

Light Weight Reject from Separator = x 0.70

Reject from slot screens = x 0.85

Reject from Approach flow screens = x 1.0

	Plate OD	Chamber Volume	Installed Motor KW
JF500	580 mm $\phi$	0.15m <sup>3</sup>	22 – 30KW
JF700	820 mm $\phi$	0.38m <sup>3</sup>	45 – 55KW

Hole Diameter	Feed Consistency	JF500			JF700		
		News Magazine	Mixed Waste	JOCC AOCC	News Magazine	Mixed Waste	JOCC AOCC
2.0 mm	1.0-1.8 %	19.0T/D	15.0T/D	13.5T/D	40.0T/D	33.0T/D	29.5T/D
2.5 mm	1.4-2.2 %	25.0T/D	20.0T/D	18.0T/D	54.5T/D	43.5T/D	39.0T/D
3.0 mm	1.6-2.6 %	31.0T/D	25.0T/D	22.5T/D	68.0T/D	54.5T/D	49.0T/D
3.5 mm	1.6-3.0 %	38.0T/D	30.5T/D	27.5T/D	83.0T/D	66.0T/D	59.5T/D
4.0 mm	2.0-3.2 %	45.5T/D	36.0T/D	32.5T/D	98.5T/D	79.0T/D	71.5T/D
4.5 mm	2.0-3.5 %	53.5T/D	43.0T/D	38.5T/D	117.0T/D	93.5T/D	84.0T/D
5.0 mm	2.0-3.5 %	62.0T/D	50.0T/D	45.0T/D	135.5T/D	108.5T/D	97.5T/D



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

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Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

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Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694



AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250





# DRS Screen

Hole and Slot Reject Processor with Deflaking



## FEATURES AND BENEFITS

The "DRS" is a "Compound Function Reject Screen", which defibers paper flakes and removes big size contaminants with a perforated strainer and small size impurities with a slot cylinder. So that, with a single machine, both rejects from hole and slot screens can be treated. It works in cycles automatically controlled by a programmable controller, of which cycles consists of Screening Stage, Defibering Stage, Washing Stage and Reject Dumping Stage.

Compound Function & Benefits;

1. Deflaking of paper flakes.
2. Coarse screening with a perforated strainer.
3. Fine screening with a slot screen cylinder.
4. Minimum space requirement.
5. Ease of maintenance.
6. Low power consumption.

## Applications

The DRS-Screen processes rejects from all types of screening equipment. And accepts can be forwarded to the next stage as a completed stock. The major applications are:

- Light weight rejects discharged from various "Separators" such as Double Separator etc.
- Processing of final rejects from perforated screens.
- Processing of final rejects from slot screens.



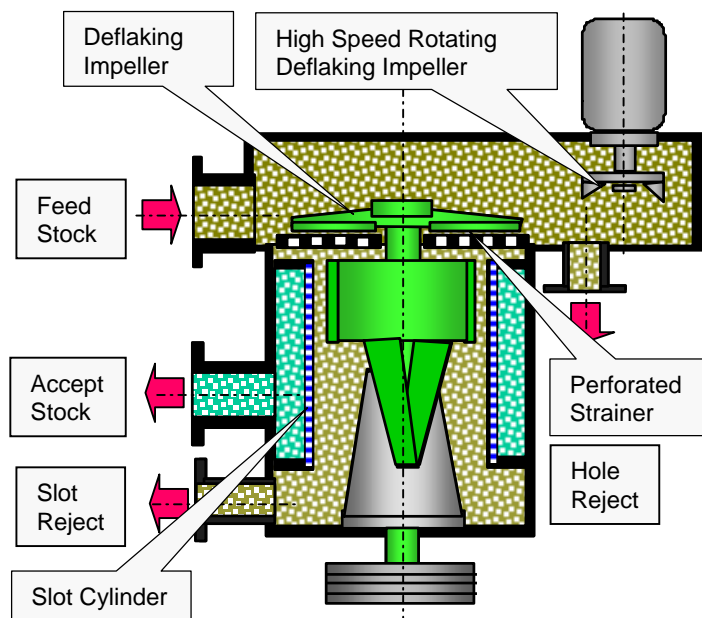
# DRS, Hole & Slot Reject Processor

## ADVANTAGES

Operating Principle & advantages:

The stock is introduced to the primary stock chamber in which two specially designed impellers rotates, ensuring the passage of fibers through a perforated strainer. The high speed rotating impeller is used as a deflaker in case the feed stock contains a lot of paper flakes. The stock passed through the perforated strainer is screened again by the slot cylinder in the secondary stock chamber. Contaminants are stopped by the perforated strainer/slot cylinder, and build up in the stock chambers. Then, contaminants are washed and separated from the good fibers. Finally, rejects cleared of fibers are discharged.

Thus, both rejects hole and slot can be treated with a single machine and the accepts can be sent to forward as a clean stock.



Capacity (Production Rate) Table

Model	Slot	OCC, MW	News
DRS500	0.15mm	21ADT/D	28ADT/D
	0.20mm	31ADT/D	40ADT/D
	0.25mm	39ADT/D	50ADT/D
DRS700	0.15mm	42ADT/D	56ADT/D
	0.20mm	62ADT/D	80ADT/D
	0.25mm	78ADT/D	100ADT/D

Inlet Stock Consistency: 1.0% - 1.5%

OCC means Japanese OCC.

MW means Mixed Waste

For AOCC, the capacity must be (X 0.85) for JOCC.

The capacity is varied depending on the contamination of the feed stock.

It is recommended to have a safety factor (X0.85) for the capacity mentioned above.

Semi-Open Rotor and NWsuper2 Cylinder



	Cylinder (mm) Dia. - Height	Open Area 0.20mm Slot	Installed Motor KW
DRS500	500 $\phi$ -442H	0.0346m <sup>2</sup>	45 + 22KW
DRS700	740 $\phi$ -615H	0.0698m <sup>2</sup>	75 + 37KW



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

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Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

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Phone +82 32 814 2825  
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Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250







# Alpha-Screen

Hole Screen Providing Deflaking Function



## FEATURES AND BENEFITS

The Alpha-Screen is a "Compound Function Screen", which defibers paper flakes and removes continuously foreign materials from the stock. Contaminants are washed and separated from the good fibers and dewatered. Finally, rejects cleared of fibers are continuously discharged at the end of the machine as shown on the picture. Thus, the Alpha Screen provides two functions of a conventional horizontal hole screen and a conventional hole reject processor.

Benefits;

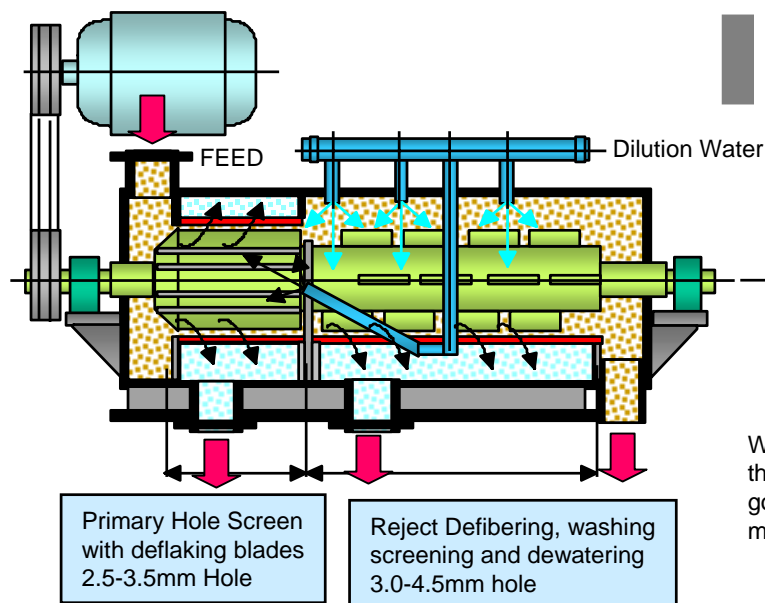
1. Efficient deflaking performance.
2. Much bigger capacity compared with the conventional reject processor.
3. Rejects dewatered, reducing handling and disposal costs.
4. System simplification is achieved, because of elimination of the secondary hole screen.
5. Easy maintenance and low operation costs.

## Applications

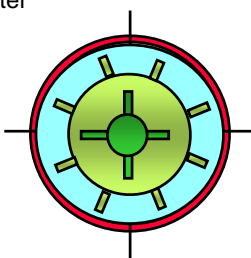
- Replacing a mainstream perforated screen and deflaker in a small capacity production line.
- Processing of rejects from perforated screens.
- Replacing a vibration hole screen.



# Alpha-Screen, Hole Reject Processor



## ADVANTAGES



Water Sealing at the end of the primary screen zone in order to recover good fiber in the primary screening chamber as much as possible

### Operating Principle & advantages:

The stock is introduced to the primary stock chamber, which works as a horizontal hole screen, and then the paper flakes are deflaked and pass through the perforated cylinder plate. The contaminants and remaining paper flakes are sent to the secondary chamber, in which paper flakes are deflaked again, and good fibers and washing water pass through the perforated plate. The contaminants are discharged continuously under fiber free with few retained water. Thus, You can simplify your existing stock processing line and reduce handling and disposal costs.

Capacity (Production Rate) Table

	Installed Motor	Rotation Speed	Open Area Primary	Open Area Secondary	OCC, Main Stream	Magazine Rejects	JOCC Rejects
Alpha100	75-110KW	20-25m/sec	0.1104m <sup>2</sup>	0.1206m <sup>2</sup>	160AD.T/D	100AD.T/D	60AD.T/D
Alpha100S	110-132KW	20-25m/sec	0.1459m <sup>2</sup>	0.1206m <sup>2</sup>	200AD.T/D	140AD.T/D	84AD.T/D

Inlet Stock Consistency: 2.0% - 3.5%

Standard diameter: primary = 4.0mm, Secondary = 3.0mm

Various size perforations are available depending on the application.

OCC, Main Stream means the expected capacity in case that the Alpha Screen is used as a main stream hole screen.

Magazine Rejects and JOCC Rejects means the expected capacity in case that the Alpha Screen is used as a reject processor from the primary hole screens. In case of the rejects processing from the tertiary hole screen, the capacity must be ( x 0.85 for the above mentioned capacity table)



AIKAWA Shizuoka/Japan  
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Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

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Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

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Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694



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Phone +86 21 6235 0597  
Fax +86 21 6235 0670

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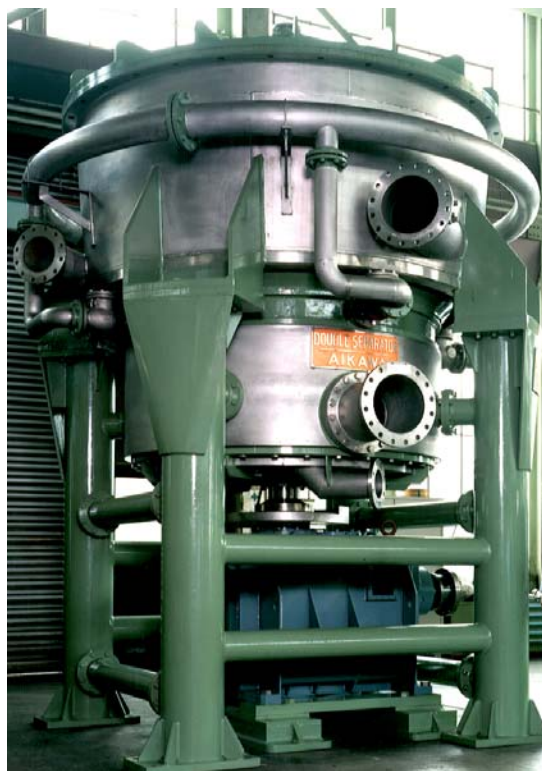
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# ADS Separator

Hole & Slot Screen providing Deflaking Function



## FEATURES AND BENEFITS

The "ADS" is a "Compound Function Screen", which provides five (5) functions mentioned below. With a single machine, both coarse and fine screening is accomplished. The accepts can be sent to the final chest with no further screening requirements.

1. Deflaking of paper flakes.
2. Coarse screening with a perforated strainer.
3. Vortex removal of light weight contaminants.
4. High Consistency Cleaner removal of heavy contaminants.
5. Fine screening with a slot screen cylinder.

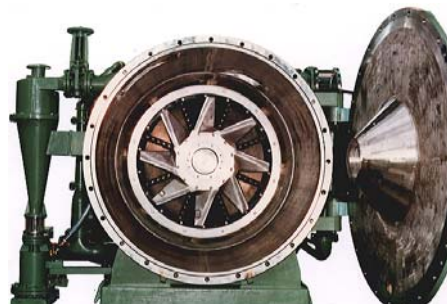
Benefits;

- Simplifies the stock preparation system, and less cost.
- Lowers installed cost by providing a complete screening system in one machine. And much less required floor space.
- Simplifies operation and maintenance.
- Improves stock quality, less sticky problems.
- Eliminates additional pumps and chests.

## Applications

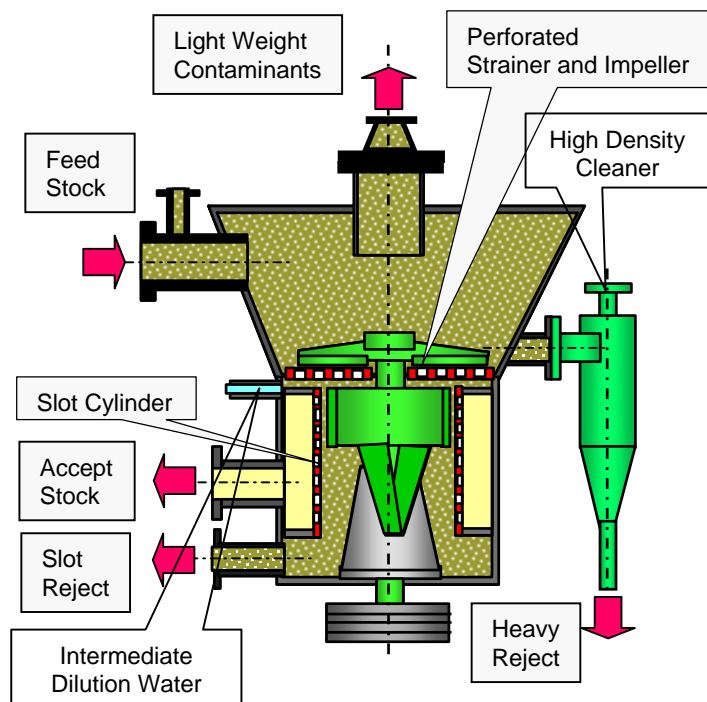
The ADS is available in both horizontal and vertical models with capacities ranging from 30 T/D to 700 T/D.

- Screening and Deflaking just after the Pulper (The ADS removes contaminants before they are broken down in later processes.
- Screening and Deflaking of rejects from coarse screening process, and the accepts of ADS is sent to forward as a completed stock.





# ADS, Five Functions Screen



## ADVANTAGES

Operating Principle & advantages:

The ADS is divided into two major sections by function. In one section, there is a perforated strainer blocking contaminants and an impeller for deflaking; These are installed in a tub that collects light weight impurities at the center of a vortex hydrodynamically. The other one is a fine screening zone consisting of a slot cylinder and a rotor.

The stock rotating speed in the tub is accelerated by the impeller to form a vortex. Light weight impurities gathered at the center of the vortex are discharged continuously. Heavier contaminants are slung outward by centrifugal force and are forced into a high density cleaner. Flakes in the stock are deflaked by the impeller and passed through the strainer. Deflaked fibers thus obtained are accepted through the slot cylinder.

### Major Specification & Capacity Table

Hole diameter = 3.5mm, Slot width = 0.20mm, Basket size (mm)

	Installed Motor	Rotation Speed	Open Area Hole Plate	Open Area Slot Basket	Basket Dia.-Height
ADS50	55KW	20-23m/sec	0.038m <sup>2</sup>	0.0250m <sup>2</sup>	557 $\phi$ -280h
ADS100	95KW	20-23m/sec	0.0609m <sup>2</sup>	0.0397m <sup>2</sup>	700 $\phi$ -345h
ADS200	190KW	20-23m/sec	0.1605m <sup>2</sup>	0.0833m <sup>2</sup>	1100 $\phi$ -467h
ADS300	300KW	20-23m/sec	0.2202m <sup>2</sup>	0.1321m <sup>2</sup>	1340 $\phi$ -582h
ADS400	400KW	20-23m/sec	0.2802m <sup>2</sup>	0.1925m <sup>2</sup>	1600 $\phi$ -710h



	Mixed Waste	Magazine News	OCC
ADS50	80T/D	108T/D	65T/D
ADS100	127T/D	170T/D	100T/D
ADS200	265T/D	360T/D	210T/D
ADS300	422T/D	570T/D	338T/D
ADS400	615T/D	830T/D	492T/D

Hole diameter = 3.5mm  
Slot width = 0.20mm  
Feed Consistency = 3.0%  
Perforated screen cylinder  
Is also available depending on the customer's demand.

**AIKAWA FINEBAR**  
AIKAWA GROUP

AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

AIKAWA Jakarta/Indonesia  
Phone +62 21 572 3220  
Fax +62 21 572 4257

AFT Varkaus/Finland  
Phone +358 207 429 200  
Fax +358 207 429 280

AFT Incheon/Korea  
Phone +82 32 814 2825  
Fax +82 32 815 2825

FINEBAR/USA  
Phone +1 860 645 5340  
Fax +1 860 645 5343

AIKAWA Tokyo/Japan  
Phone +81 3 3271 7465  
Fax +81 3 3281 2875

AFT Helsinki/Finland  
Phone +358 207 429 200  
Fax +358 9 3509 0442

AFT Strasbourg/France  
Phone +33 3 8855 3525  
Fax +33 3 8855 3520

AFT Singapore/Asia  
Phone +65 6246 1354  
Fax +65 6246 1694

**AFT**  
AIKAWA GROUP

AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
Fax +1 819 562 6064

AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250

**POM**  
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# AVS & ScreenFilter

Conventional Outward-Flow Screen  
Pressurized Liquid / Solid Separator



## FEATURES AND BENEFITS

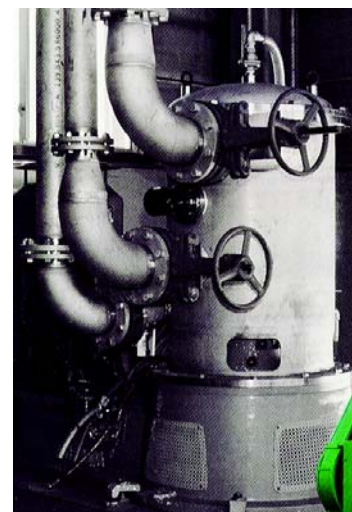
The AVS is a conventional type pressurized screen using a conventional screen basket (hole or slot), and the ScreenFilter is a pressurized separator of solid from various liquid using a small holes such as 0.20mm diameter etc. Both AVS and ScreenFilter has same operating principle, which are outward flow types.

Benefits;

1. Totally enclosed pressurized operation.
2. Easy maintenance and less required floor space.
3. Various screen cylinders are available depending on the application.

## Applications

- Coarse and Fine screens for various stock preparations system.
- Separation of fibers from black liquor.
- Recovery of good fibers from various filtrates and liquid.
- Recovery of useful fibers from white water.



# AVS & ScreenFilter

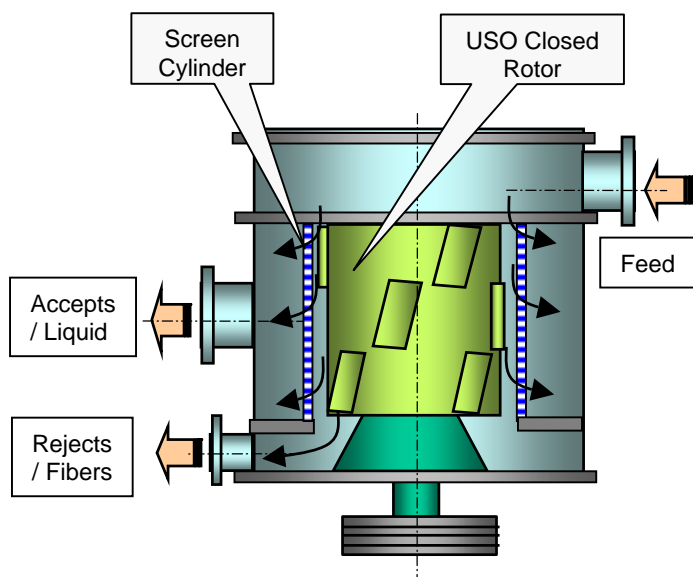
## ADVANTAGES

### AVS Screen:

The AVS is a conventional pressurized screen. Depending on the application, perforated or slotted cylinder is used. The latest developed rotor (USO) and Cylinder (NWSuper2 or Profile Hole Plate) are available to meet any application.

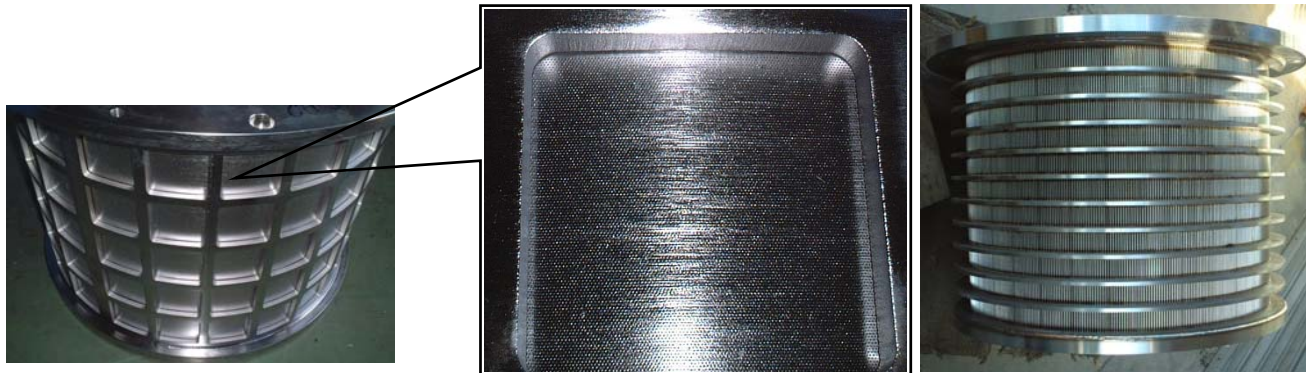
### ScreenFilter:

The ScreenFilter is a pressurized fiber recovery machine from various filtrates/liquid. The cylinder is a very small perforation model which is made with a electron beam drilling method. Usually the hole size is about 0.20mm diameter.



Electron Beam Hole Cyliner

AVS Slot Cylinder



Capacity of Screen Filter (Throughput of Feed Volume)

Model	Motor	Cylinder(mm)	250ppm	750ppm	1250ppm	2000ppm	Rotor
AVS500	37KW	500 $\phi$ -442h	5.3m <sup>3</sup> /m	4.3m <sup>3</sup> /m	3.8m <sup>3</sup> /m	3.4m <sup>3</sup> /m	18-21m/s
AVS700	75KW	740 $\phi$ -615h	10.9m <sup>3</sup> /m	8.9m <sup>3</sup> /m	7.8m <sup>3</sup> /m	7.2m <sup>3</sup> /m	18-21m/s
AVS1000	150KW	1100 $\phi$ -817h	21.6m <sup>3</sup> /m	17.6m <sup>3</sup> /m	15.4m <sup>3</sup> /m	14.1m <sup>3</sup> /m	18-21m/s

Screen cylinder hole diameter = 0.20mm, PPM means inlet liquid consistency  
Rotor means rotation speed.



AIKAWA Shizuoka/Japan  
Phone +81 54 261 1102  
Fax +81 54 261 4135

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AFT Varkaus/Finland  
Phone +358 207 429 200  
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Phone +65 6246 1354  
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AIKAWA Shanghai/China  
Phone +86 21 6235 0597  
Fax +86 21 6235 0670

AFT Lennoxville/Canada  
Phone +1 819 562 4754  
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AFT Montreal/Canada  
Phone +1 514 481 6111  
Fax +1 514 481 3335

POM Helsinki/Finland  
Phone +358 975 175 200  
Fax +358 975 175 250

