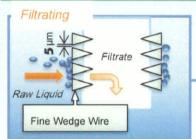
The Super Micro Slits will open up new possibilities!

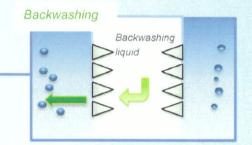
Example of strainer built-in products



High precision(5µm Order) AutoFilter with 6 cylinders (dia.42.7) installed

- <u>Utilization of surface filtration's merit</u>
 Backwashing for preventing clogging is made effective by using "Fine Wedge" wire screen on a surface filtration basis.
- Continuous operation without interruption of filtration is possible.



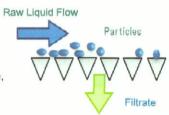


Applications of Inertial Filtration

"Fine Wedge" materializes the Products!

Features of Inertial Filtration

- Filtration is made when raw liquid flows across the slits between wedge-shaped wires. The resultant effect is that the screen is hardly clogged, since particles skim over the screen surface by inertial force.
- Even if particles remain on the screen surface, they can be easily washed off.



FineArc-60

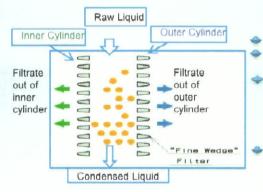
Pressure injection-Type 60degree Arc Screen



Finecular

Bi-cylindrical Structure Inertial Filtrator 10µm and upward (Backwashing is not needed.)





Slot width: 20 ~ 50µm

The screen can separate fine solid on the order of dozens of microns from liquid. Application: preliminary processing in advance of various fine filtration equipment, recovery of resin powder, resist film and chemical plant's various particles, recovery of sludge and grindstone particles in the coolant and others.

Processing capacity: 35m²/h with slit width 30µm and nozzle discharge speed 10m/s.

- Filtration is made by adopting 'Fine Wedge' filter for an outer cylinder and an inner cylinder and letting raw liquid run between them at a high velocity.
- By utilizing inertial filtration the equipment will work uninterruptedly without backwashing for a long period.
- The closed circulation system prevents evaporation, odor leaks and contamination.

QUALITY CONTROL

Slit Measuring



Slit Measuring Device (Automatic measuring by a high-precision camera)

Example of 5µm order slit measuring dia.48.6 50F

Result of slit measuring (unit: μ m)

50F10µm

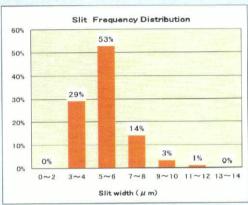
50F 5µm

Min.= 3

Max.= 11

Ave.= 5.5

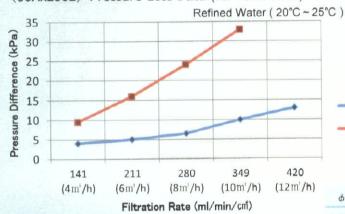
Ave. = 5.5 St.Dev = 1.5



For reference : JIS G3556 Industrial Woven Wire Cloths
'Allowance of slits'
Nominal size 26µm, Max. +25µm, Ave. ±40µm

'FINE WEDGE' PRODUCT INFORMATION

(50Ax250L) Pressure Loss Data (for reference)



Various Screen Parts

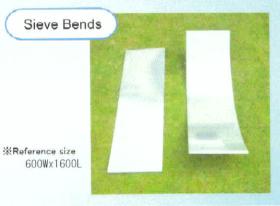


%The material can be formed into various shapes according to each purpose.

Cylindrical Strainer Parts



φ27.2 (20A)	φ51.0 (-)	φ101.6 (90A)
φ34.0 (25 A)	φ60.5 (50A)	φ114,3 (100A)
φ42.7 (32A)	φ76.3 (65A)	1
φ48.6 (40A)	φ89.1 (80A)	ϕ 400



FINE WEDGE

Technical Product Information



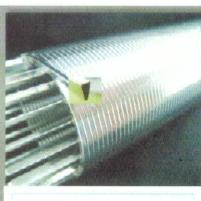
The world's top-level technology

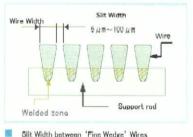
Properties of "Fine Wedge" wire products:

- High strength and durability give a long operating life.
- Design is available flexibly according to each purpose.
- Easy maintenance.

Section width of 'Fine Wedge' wire and Screen Opening Ratio

Wire 0	Code	11CF	75F	50F	35CF	25 CF
Wire Wid		1.0	0.75	0.5	0.35	0,25
Slit Width	50µm 30µm 20µm 15µm 10µm 5µm	4.8% 2.9% 2.0% 1.5% 1.0% 0.5%	6.3% 3.8% 2.6% 2.0% 1.3% 0.7%	9.1% 5.7% 3.8% 2.9% 2.0% 1.0%	12.5% 7.9% 5.4% 4.1% 2.8% 1.4%	





Slit Width between 'Fine Wedge' Wires

TOYO SCREEN