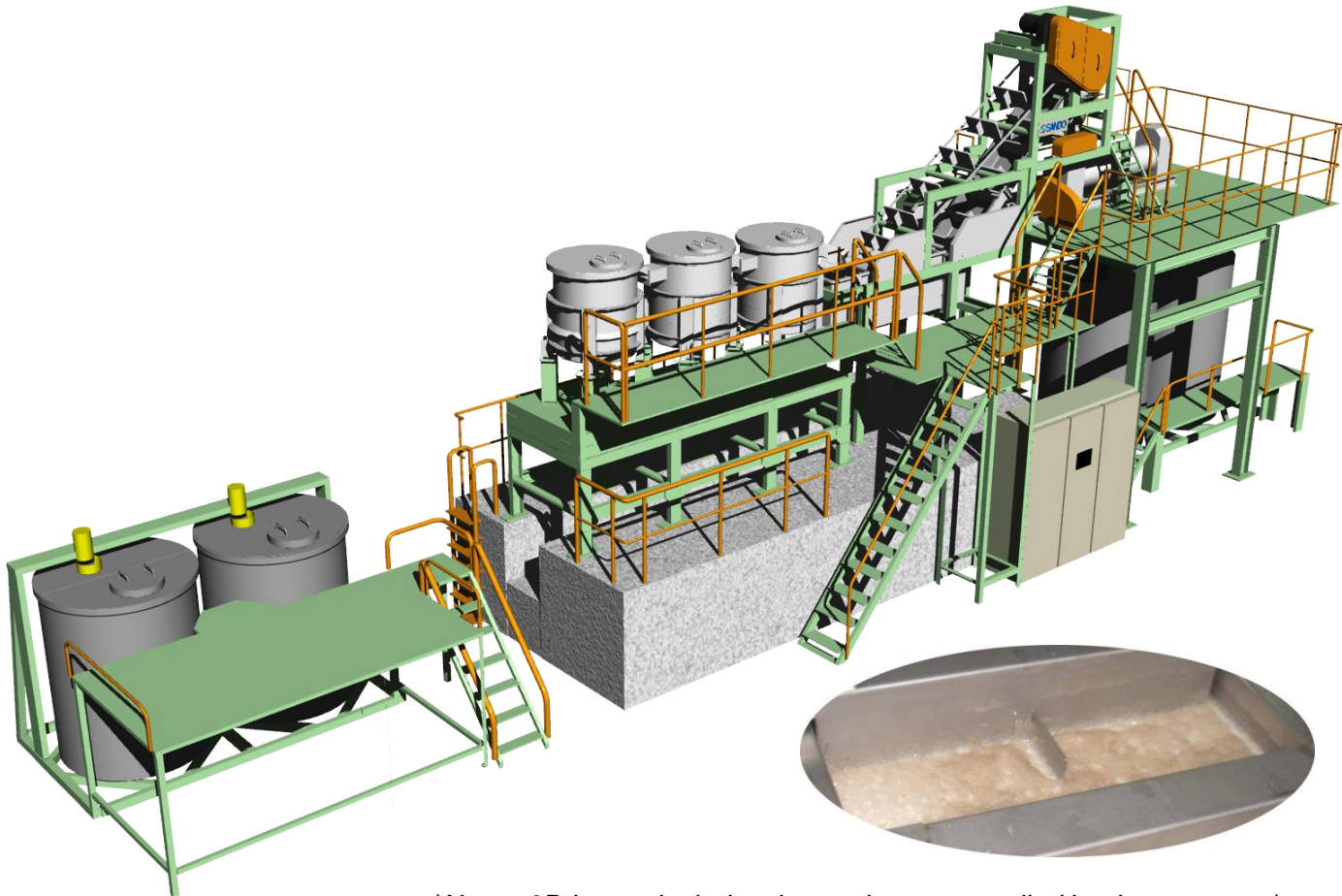


*Measures COD of waste water and recycling of PVA*

# **NEO-PERCLER**



(Above 3D image includes the equipment supplied by the customer)

## ■ **OUTLINE**

COD in the waste water is the most difficult one to be reduced. Sando Iron Works Co.,Ltd. has developed PVA recovery system "NEO- PERCLER". By the combination of the equipment and coagulant, PVA of the waste water from desizing process is almost perfectly eliminated, and consequently high COD figure caused by PVA disappears.

NEO-PERCLER can not only eliminate PVA from the waste water, but also make the recovered PVA reusable for warp sizing. Combining the finishing mill and weaving mill, to reuse the recovered PVA for warp sizing agent is economical to payback the initial investment and running cost of NEO-PERCLER. NEO-PERCLER is the right solution to save money, preventing pollution.



## ■ FEATURE

### 1. High Recovery

Combining the NEO-PERCLER, over 90% PVA in the waste water can be recovered.  
Only PVA can be recovered from the waste water with starch, CMC, acrylic and oil.

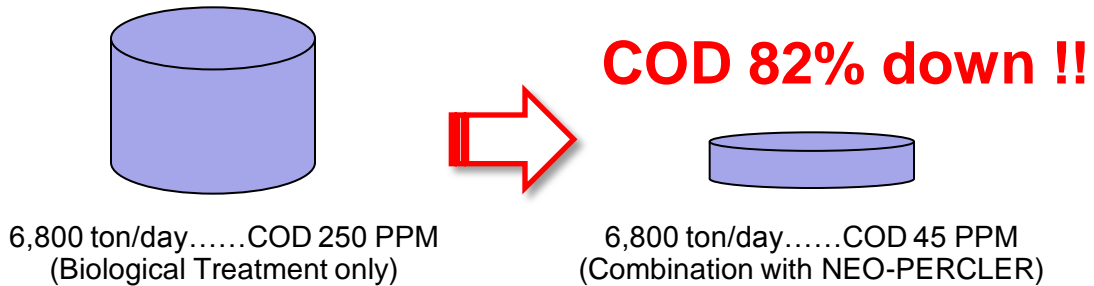
### 2. Easy operation and maintenance free

NEO-PERCLER is very easy to operate and maintenance free.

### 3. Recovery PVA

Recovered PVA can be reused together with starch.  
The yarn with recovered PVA is flexible, and suitable for air-jet loom.

## ■ COD of WASTE WATER



## ■ Example of weaving with recovered PVA

(Figures from our associated weaving factory)

1. Fabric construction  $C/T45 \times C/T45$  Width: 1,650mm  
135 x 72
2. Composition of sizing agents

	Amount	Purity	Purity Amount	Ratio %
New PVA	40	0.95	38.0	37.6
Recovered PVA	380L	0.10	38.0	37.6
Modified starch	20	0.87	17.4	17.3
acryl	10	0.28	2.8	2.8
Wax	5	0.95	4.75	4.7
Total	455 Kg		100.95 Kg	100%

○Finished amount...777L

○Finished concentration...13.0%

### 3. Condition of sizing

- Temperature of sizing ..... 83 °C  
Speed of sizing ..... 80 m/min.  
Temperature of drying ..... 105~115 °C  
Pick up ratio ..... 1.0 ton  
Sizing ratio ..... 12.8 %  
Viscosity (Method by Visco-cup) ..... 25 sec.



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