

INDUSTRIAL WASTEWATER TREATMENT



AS-ASLI WWTP TECHNOLOGY

The technology under the trade-mark of AS-ASLI WWTP enables to separate water-dilutable paints and starch adhesives from industrial wastewater in the production process.

Further, this technology may be used to treat wastewater containing cutting emulsions, e.g. in automotive industry. The principle of the treatment consists of chemical stabilization, coagulation, sedimentation and subsequent filtration and dewatering in a filter-press.

The pre-treated water is discharged into a sewage canalisation.

Advantages

- minimal built-up area
- possible to be placed near the production
- possible to separate adhesives as well as paints in different technological procedures
- possible to use existing tanks and pipe systems
- not operation-intensive
- no penalties for discharging polluted wastewater
- minimal operation costs
- economical return in cca 1–3 years



Possible to use in following industrial branches

- paper industry
- wood industry
- furniture industry
- construction industry
- textile industry
- printing industry
- automotive industry



The principle of treating wastewater in AS-ASLI WWTP

The continuously produced wastewater from the production is homogenized in an accumulation tank where it is being mixed with a low-speed mixer and pumped through a pipe mixer into a coagulative-sedimentation reactor. After the homogenization, the pollution level of the wastewater is almost always the same.

In the pipe mixer, the pH of the wastewater is corrected to the required value with **an alkali stabilizer**.

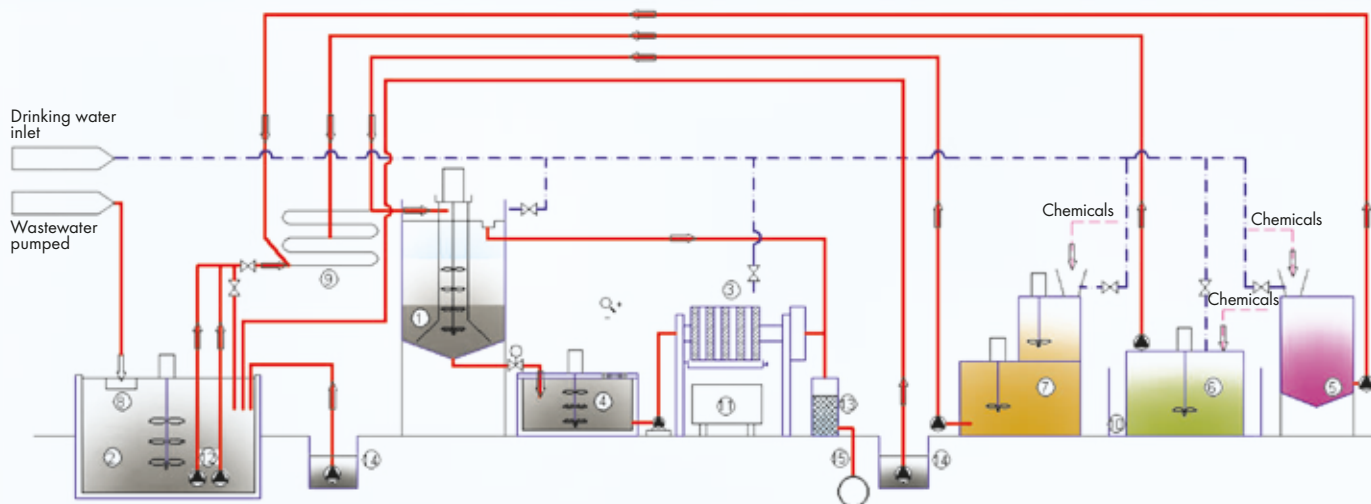
The pollution from the wastewater is coagulated by **dosing a coagulant**. Thus, neutralization of the wastewater to the required value of pH is also secured in accordance to requirements of discharging wastewater into a sewage canalisation.

A more effective filtration and dewatering of coagulated products is secured by adding an organic flocculant.

The treated wastewater meets the values for being further treated in a biological WWTP.



Technological scheme



Legend

- | | |
|--------------------------------------|--------------------------------------|
| 1 Coagulative reactor | 9 Pipe mixer |
| 2 Accumulation tank | 10 Collecting tank |
| 3 Dewatering of coagulated pollution | 11 Container |
| 4 Homogenization sludge tank | 12 Sludge pumps |
| 5 Stabilizer - pH correction | 13 Post-treatment filter |
| 6 Preparation of coagulant | 14 Underground dewatering tank |
| 7 Preparation of flocculant | 15 Outlet into a sewage canalisation |
| 8 Mechanical pre-treatment | |



A list of reference realizations of AS-ASLI WWTPs

MORApack s.r.o.	Odry	Paper industry
ORPA, a.s.	Lanškroun	Paper industry
ORPA, a.s.	Hostačov	Paper industry
MAXIS, a.s.	Valašské Meziříčí	Textile industry
JITONA, a.s.	Klatovy	Furniture industry
Collins & Aikman	Hodonín	Automotive industry
VALEO Compressor, s.r.o.	Humpolec	Automotive industry
HET spol. s r.o.	Ohnič u Teplic	Construction industry
KM - BETA, s.r.o.	Kyjov	Construction industry
KRONODOOR, a.s.	Jihlava	Wood industry
CVM MORAVIA, s.r.o.	Moravský Písek	Printing industry
SMURFIT KAPPA CZECH	Žimrovice u Opavy	Paper industry
TI AUTOMOTIVE, s.r.o	Jablonec nad Nisou	Automotive industry



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