



WATER TREATMENT PLANTS

to concentrate suspended mineral particles after flocculation and sedimentation, and to recycle the process water.

FIELDS OF APPLICATION

The MS WATER TREATMENT PLANTS find their application in :

- The clarification of washing waters in mines, quarries and sand pits.
- The treatment of site drainage and seepage waters.
- The thickening of clays and valuable fines (kaolins, etc)

As well as in the treatment of any industrial water containing mineral particles :

- Mineral Industry
- Stone cutting Industry
- Agrofood Industry, etc.

MODULAR DESIGN

- Steel settling tank with overflow weir, on concrete base,
- Static bridge, with mechanism driving the raisable pendular scraper,
- Control bungalow, installed on the bridge, and containing : the control and monitoring cabinet, the flocculant preparation unit "DOSAFLOC", the flocculant dosage monitoring unit "CONTROLFLOC",
- Recycled water tank with water pump under load
- Automatized pumping section for the concentrated sludges.

EVOLUTION

- MS has also designed a surface scraping device to eliminate foams, hydrocarbons, and floating particles.
- Downstream, a sludge pressing section could transform the semi-liquid sludge into solid cakes.

PERFORMANCE

- The range of 8 water treatment plants, from DR6 to DR20 covers applications from 150 to 1600 m³/h, containing up to 80 t/h of suspended solids.
- Optimisation of the flocculant consumption (and, if required, coagulant).
- Precise measurement of the scraper resisting torque to optimize thickening of sludge.
- Possible telemaintenance.

ERGONOMICS

- Easy access by stairs, gangways with galvanized gratings,
- Insulated control room with air-conditioning,
- Synoptic supervision board.

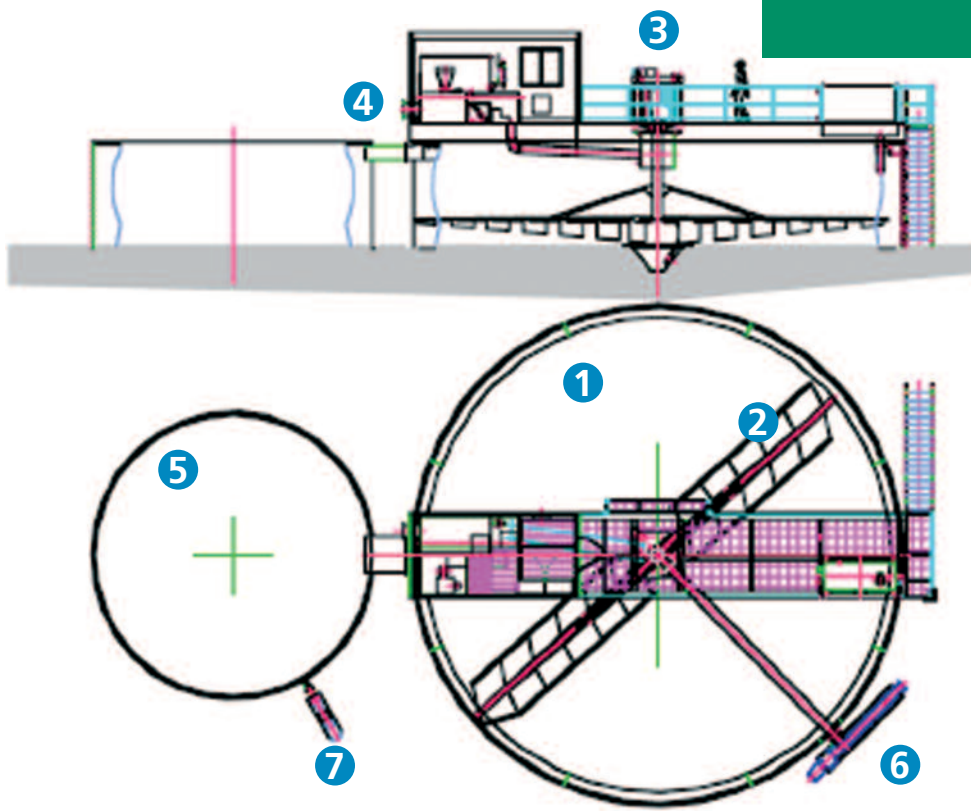
OPTIONS

- Vertical mud pump.
- Full cover of the thickener tank (option).
- Air conditioning on the control room

SAFETY

The MS Water Treatment Plants comply with CE standards of personnel safety and ergonomics.

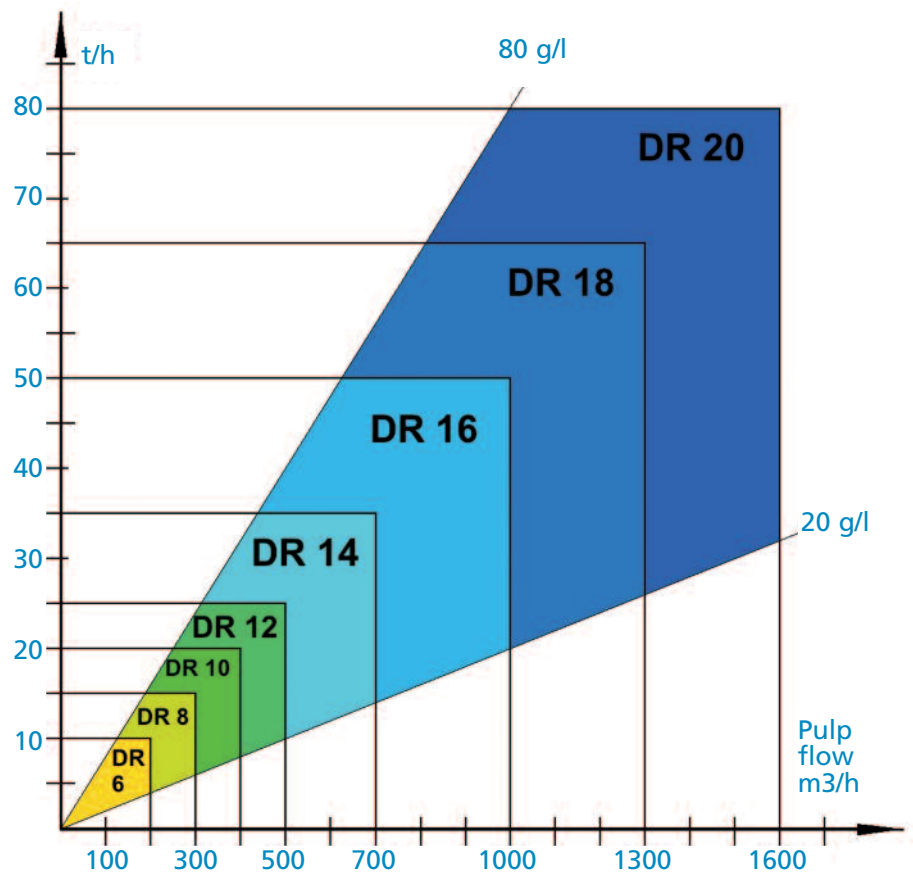




- 1 *Settling tank with peripheral overflow channel*
- 2 *Pendular scraper*
- 3 *Scraper raising and driving mechanism*
- 4 *Control bungalow*
- 5 *Recycled water tank*
- 6 *Sludge pump*
- 7 *Water pump*

PRE-SELECTION CHART

Suspended solids



CONTROLFLOC :
measure of settling velocity
and monitoring
of the flocculant
injection by PLC.