

**THICKENER  
UNIT  
MPS-TKN**

# MPS-TKN MIYAY THICKENER UNIT

MIYAY thickener Unit is one of the traditional equipment used in the mining and chemical industries to increase the density and obtain clean water in solid-liquid separation processes. The MIYAY thickener Unit provides low operating costs for the recovery of reusable process water and they reduce the need for settling ponds by minimizing the amount of water consumption.

## ADVANTAGES

- ▣ maximum capacity
- ▣ Advanced control system
- ▣ Increased downstream density
- ▣ Lower flocculant dosing
- ▣ Better stripping system
- ▣ Improved overflow clarity
- ▣ Low operating cost
- ▣ Easy installation, maintenance and operation

## Usage Areas In Industry

- ▣ Water Treatment
- ▣ Plants Industrial
- ▣ Wastewater Facilities
- ▣ Mineral Processing Industry
- ▣ Chemical Industry
- ▣ Metallurgical Fields

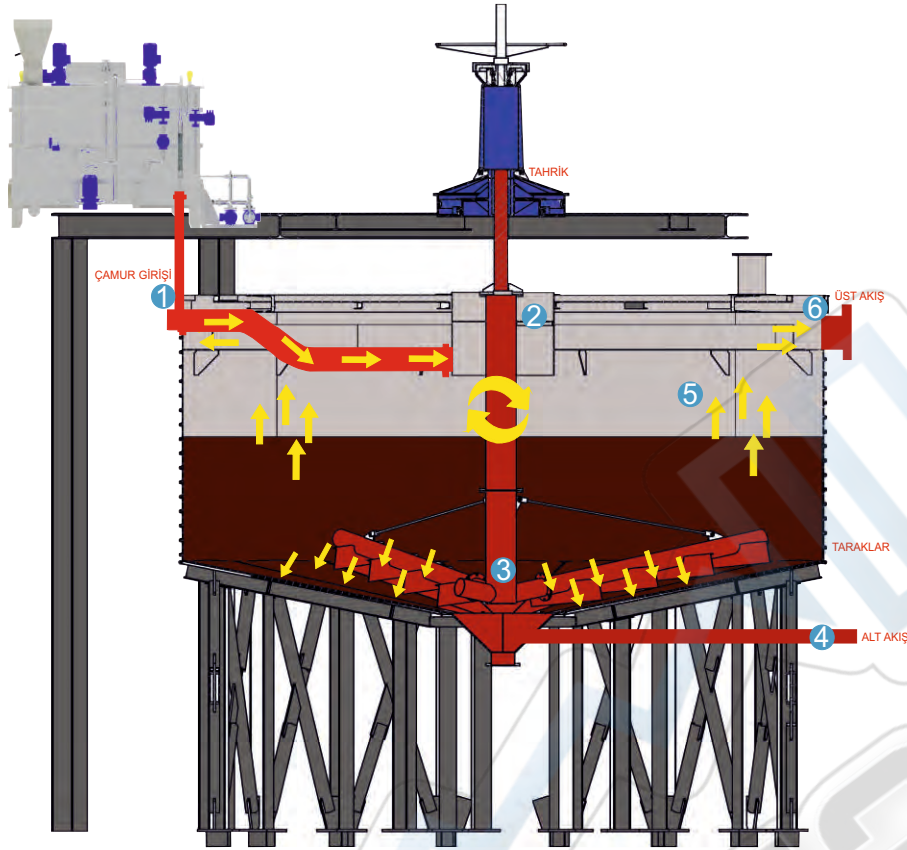
## FEATURES

- ▣ Tank productions with varying diameters and heights according to the characteristics of the sludge
- ▣ Diameter 4m-30m production
- ▣ Special production gearboxes
- ▣ Special production thickener mechanism (rakes)
- ▣ Durable drive design
- ▣ Free flow or pump fed
- ▣ Fully automatic filtration/dewatering process
- ▣ Fully automatic automation system specific to Thickener
- ▣ Torque controlled drive system
- ▣ High level protection with linear scale and field sensors
- ▣ Tank design that is easy to clean and prevents material accumulation
- ▣ Robust steel design





# MPS-TKN MİYAY THICKENER UNIT



1-The fed sludge is passed through a static mixer with the dosed flocculant and mixed to form larger agglomerations. The thickening material collapses to the bottom of the thickener unit.

2-The mixture of sludge and flocculant is distributed in its place by type so that the material does not enter the main precipitation zone in the concentrator.

3-Flocculated solids settle to the bottom of the condenser and form a dense slurry in the compression zone.

4-The condensed solids are transported to the downstream cone of the thickener unit. It is drawn from a downstream pipe by means of a slurry pump. The size distribution of decaying solids varies depending on the type of material, but in general they vary between 35-50% by weight.

5-Clean water rises above the condenser and overflows through the embankments around the unit.

6-The clean water collected in the overflow gutters exits the flanges and flows into water storage tanks or water pools by gravity for reuse.







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