

ELECTRO-MECHANICAL  
**ROTOVARIATOR**



GRUPPO

**PIERALISI**

## ELECTRO-MECHANICAL ROTOVARIATOR

*The electro-mechanical ROTOVARIATOR is designed and manufactured by the Pieralisi Group and patented worldwide for application on decanter centrifuges of the FP 600, JUMBO and GIANT series including already installed decanters.*

The ROTOVARIATOR controls feed flow to the decanter consistent with:

- maximum torque allowed on the reduction gear
- percentage of dry solids in feed flow
- required cake dryness

- required separation efficiency.

The ROTOVARIATOR does not consume energy because it restores to the main motor the energy absorbed.

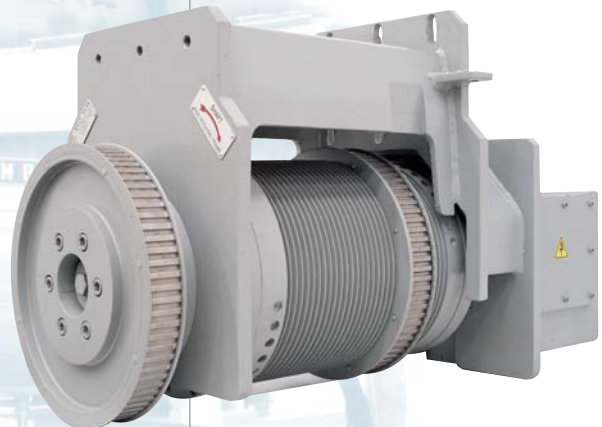
The ROTOVARIATOR can be used on Pieralisi decanter centrifuges either in the **dewatering of sludges** or in all types of processes where **one or two liquid phases must be separated from the solids.**

In all cases the ROTOVARIATOR ensures:

- continuous variation of the differential speed between the decanter

bowl and scroll

- continuous measurement of torque resistance in comparison to maximum allowable torque, thus protecting the mechanical



transmission components by varying either feed flow of the pump and/or bowl differential speed.

For **dewatering of sludges with poly-electrolite**, this system optimizes consumption of flocculant to a minimum and simultaneously maximizes dry solid concentration in the cake.

Use of the ROTOVARIATOR makes it possible "to see what is happening inside the decanter", and thus

- save flocculant and
- reduce the volume of discharged sludge.



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