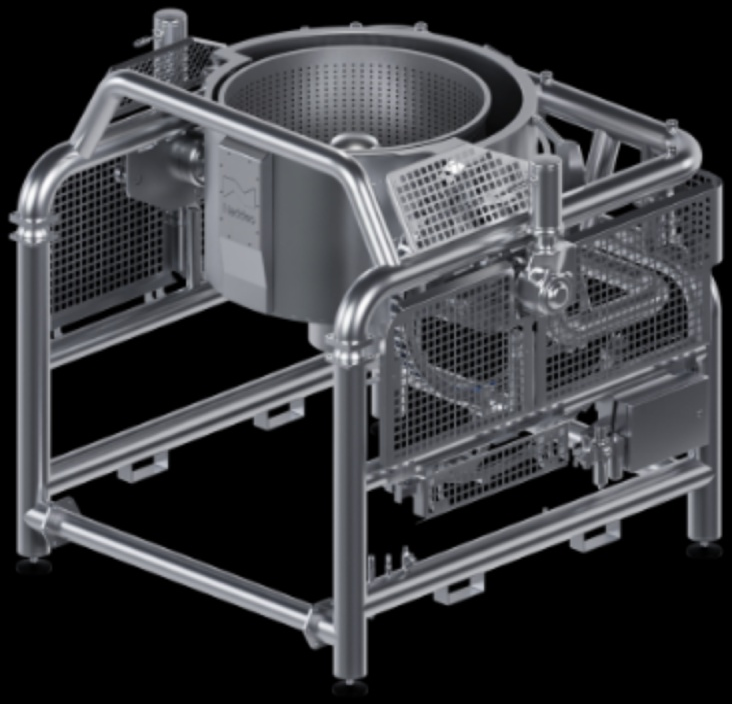
Naddeo



DRYING

ADRY 110

Automatic centrifuge

POWER	23.3 Kw
VOLTAGE	400V
FREQUENCY	50Hz
WEIGHT	1900Kg

General configuration

The ADRY110 is an automatic tilting-basket centrifuge developed for industrial applications requiring high stability, precise motion control and continuous operation. The machine consists of:

- Stainless steel supporting structure with floor-fixing plates;
- Anti-vibration feet to absorb the stresses generated during the operating cycle;
- Rotating stainless steel basket with Ø 3 mm perforations;
- Curved bottom and central cone to improve product drainage and distribution;
- Stainless steel torque motor directly coupled to the basket;
- Dual brushless drive system with coaxial gear reducers for basket tilting;
- Encoder for position control;
- Vibration sensor for dynamic monitoring;
- Discharge chute for product conveying;
- Side guards;
- Laser safety barriers;
- Onboard electrical panel with inverter for speed management.

Functional characteristics

The distinctive feature of the ADRY110 is its direct basket drive system. Rotation is provided by a stainless steel torque motor directly coupled to the basket, eliminating intermediate transmission components and allowing a maximum speed of 700 rpm. This solution provides direct and precise rotation control while reducing the mechanical complexity of the system. Basket tilting is managed by two brushless motors with coaxial gear reducers coupled to the main shaft, a configuration that allows precise control of position, acceleration and movement throughout the different phases of the cycle. The encoder and vibration sensor also provide continuous monitoring of the machine's operating conditions.

Technical-functional summary

The ADRY110 is a centrifugation solution featuring an advanced drive architecture based on the combination of a direct-drive torque motor and a dual brushless system for basket tilting. This configuration provides accurate cycle control, high movement repeatability and continuous monitoring of operating conditions. Integrated safety systems, encoders, vibration monitoring and electronic speed management complete a machine designed to ensure reliability, precision and continuity in the surface water removal process.