

# Centrifugal Separators

LGN Group — Technical Guide

## Overview

This guide consolidates best practices and engineering know-how for modern processing plants. Use it to shorten commissioning time, reduce downtime, and improve product quality and energy efficiency.

## Key Topics

- Separation Theory & Bowl Designs
- Clarification vs. Purification
- Sizing & Efficiency Factors
- Operation & PM
- Yield Improvement Tips

## Practical Notes

- Design for cleanability and safety.
- Instrument and log critical parameters.
- Schedule preventive maintenance aligned with production windows.

## Included Technical Files

File	Description
Separation Efficiency Metrics	Essential engineering reference
Flowrate Calculations	Day-to-day operations aid
Preventive Maintenance Plan	Quality & reliability support

## Commissioning / Maintenance Checklist

- Verify materials and seals vs. product and temperature.
- Confirm utility capacities (water, steam, air, power).
- Calibrate sensors; validate interlocks and alarms.
- Run CIP; inspect hygienic joints and gaskets.
- Record baselines for flow/pressure/temperature/energy.

## Contact & Support

LGN Group provides sourcing, installation, and lifecycle support for leading process equipment brands. For detailed engineering assistance or spare parts, contact us.

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