

Hydrocyclone Test Rig

CAPABILITY SHEET · FEED · SPLIT · SAMPLE · ANALYSE · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	A hydrocyclone has no moving parts. That is exactly why it has to be tested, not just calculated.
WHY IT MATTERS	A hydrocyclone separates by a pressure-driven vortex alone, and that flow is modelled empirically, so how one design splits one exact slurry is found by running it.

THE RIG

FEED	A slurry feed tank with an agitator and a variable-speed pump, so feed pressure is a controlled setting.
CYCLONE	A hydrocyclone with interchangeable apex and vortex-finder inserts, in a wear-resistant lining chosen for the material under test.
SAMPLE & ANALYSE	Sample ports on the feed, overflow and underflow, sampled at the same moment, with particle-size analysis of every sample.
RECORD	A control and data acquisition system that logs every trial, so the cut point and the split are read from data.

THE TEST

ORDER	Mount, feed, split, sample, analyse, record and vary. One trial gives one data point; the working picture comes from several.
LIMITS	Every result is set against the customer's own material and process, which the customer provides.

CONFIGURATIONS

SINGLE-CYCLONE LOOP	One size, for static tests on a single material.
MULTI-SIZE RIG	Interchangeable cyclone bodies, for a scale-up programme.
CLOSED-LOOP PILOT PLANT	Its own conditioning and stream recovery, for long trial campaigns.

STANDARDS & SCOPE

STANDARDS	ISO 13501, developed from API RP 13C, defines how hydrocyclone separation performance is measured. ISO 9276 governs particle-size reporting, and ISO/IEC 17025 for calibration.
SCOPE BOUNDARY	This is the pilot-scale rig that finds how a hydrocyclone splits a customer's own slurry. It is not a mechanical desilting machine, not a single-phase pressure-loss rig, and not a general load frame.
STATUS	Neometrix engineers hydrocyclone test rigs to order, and no delivered hydrocyclone test rig is claimed.

DEFENCE PROGRAMMES DESK

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