System Specifications
AP300.

Specifications

Maximum input weight	Up to 30kg
Production rate	Approx 5-6 min per sample

System with primary crushing module	
Maximum input lump size	Up to 150mm
Big Boyd crushed product size	10 - 15mm
Boyd Crusher product size	3mm
Final output particle size	95% passing 100μm
Batch size	Up to 10 samples

System without a primary crushing module	
Maximum input lump size	Up to 55mm
Crushed product size	3mm
Final output particle size	95% passing 100μm
Batch size	Up to 10 samples

System Dimensions

System with primary crushing module	
Length	8200mm
Height	2500mm
Width	2800mm

System without a primary crushing module	
Length	7000mm
Height	2500mm
Width	2800mm

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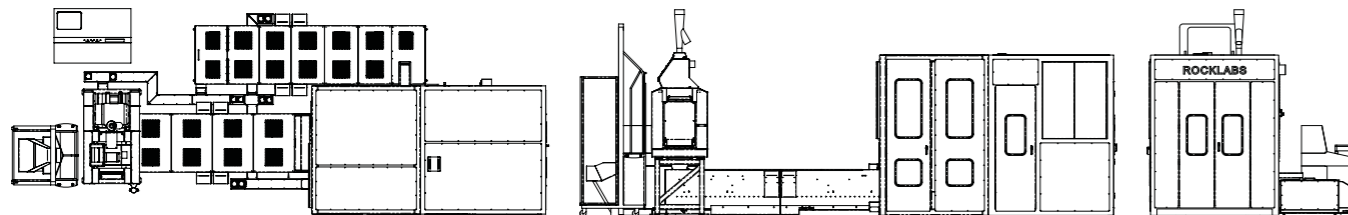
World Leaders in Sample Preparation Equipment
Automated Systems and Certified Reference Materials

AP300
Automated Systems.

AP300 Automated Systems

Introduction

The AP300 Automated System (show below) is designed to process up to 300 samples per day. This System was built in combinations of different modules: Primary Crushing module, Crushing-Splitting modules, Conveyor modules, Pulverising-Splitting modules, Sample collecting modules and a LCD touch screen control console.
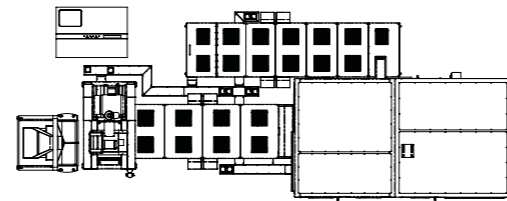
Main features, at a glance.

- Has a control console with weighing scale, touch screen panel, flashing buttons for clear indication of process and PLC.
- Sample is weighed and PLC calculates the percentage of split required for each split.
- Stainless bins used for loading sample and collecting waste sample on roller conveyors.
- Crushing-Splitting module consists of a bin lifter, shaking screen and our latest design of LSD (Linear Sample Divider).
- New designed shaker screen removes fines under 2mm, remixing with the crushed coarse fraction before splitting.
- Pulverising-Splitting module consists of the latest double-tier head for fine pulverizing and LSD for accurate splitting.
- Sensors are use throughout the System to control various moving components and for safety purposes.
- In the final sample collecting module, the final splits (duplicate split and remainder) are collected in steel cups on an X-Y table.
- Dust extraction ports are allocated in different areas of the System.
- Sample lifter can lift a sample up to 30kg. Big Boyd crusher for processing samples up to 150mm top size.
- Large sample lumps are pre-crushed with Big Boyd primary crusher before further crushing with the Boyd Crusher.
- The Big Boyd primary crusher has a new blockage sensor and thermocouples to monitor the bearing temperatures.