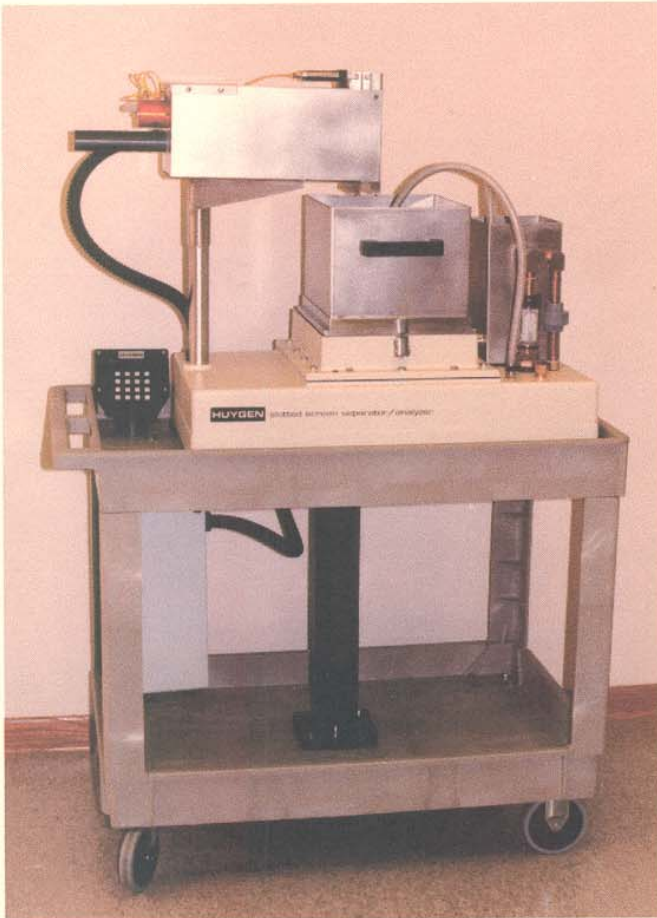


HUYGEN SLOTTED SCREEN SEPARATOR MODEL 1600



The Huygen Model 1600 Slotted Screen Separator features a removable flat screen (Somerville type), for the quantitative analysis of shives, nits, flakes, plastic particles, stickies and other contraries in diverse paper pulps. The Model 1600 can be programmed to provide easier and faster processing of larger pulp samples than the classical Somerville method. An automatic dosing unit allows the operator to screen larger quantities of pulp without remaining in attendance -- and averts the formation of time consuming fiber networks. The operator simply loads up to 500 grams o.d. pulp in the dosing unit, presses the START button and walks away. The ability to screen larger pulp samples not only improves the statistical accuracy of the contaminants determination, but also permits the collection of clean fibers for further laboratory processing. To protect expensive beating machines (Valley, PFI Mill, etc.), many labs will add a screen tank on the accepts drain to collect pulp samples that are free of abrasive contaminants.

As an analytical tool, the Somerville unit excels in producing repeatable and reproducible results compared to other laboratory screening designs. The Somerville technique, as defined in TAPPI T 275 sp-98, ensures that essential parameters for achieving repeatable results are controlled by design: constant water flow rate, defined low pressure head controlled by a weir, precise screen plate specifications (size, number, position and dimensions of slots), screen backflush/oscillation rate and screening time.

While the Model 1600 can be operated in the one dose Somerville standard, its microcomputer controls allow other cycles to be programmed for optimal screening times and multiple doses. A cycle can be defined by the time between doses, time after last dose, and backflush rate. This custom cycle can then be saved as one of 3 custom cycles that then can be later recalled, even after power shutdown. The microcomputer has seven cycles: Somerville, shives, stickies, demo and three customer custom cycles.

New Design Enhancements

- **Automatic sequenced dosing system** capable of handling 250 grams o.d. pulp samples at 5% consistency or 500 grams o.d. at 10% consistency.
- **Programmable dosing** volumes and time intervals between doses.
- **Automatic fast fill** reduces set-up time.
- **Doser water knife** with adjustable flow rates for increased dilution, agitation and screening rates.
- **Three-point selectable oscillation/backflush rate**, including the classical 700 cpm Somerville rate.
- **Adjustable flow rates** for the classical Somerville 8.6 l/min and higher flows for faster screening.
- **Variable area flowmeter** for ease in establishing flows through the calibrated nozzle and auxiliary dilution spray.
- **Programmable cycle** including automatic fill, backflush start/stop, dosing and system drain.
- **Waterproof keypad and alphanumeric display** for simple set-up of the fractionating program, including one easily repeated standard/default cycle.
- **Improved flat screen** made of 316 stainless steel with 756 slots of .006" (.15mm) width.

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OPTIMIZING SOMERVILLE SCREENING

