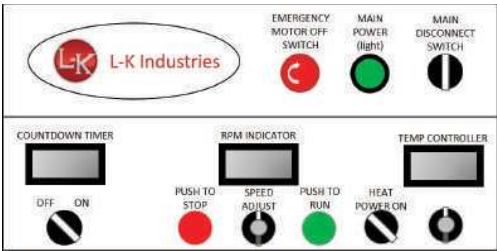


Benchmark S Laboratory Centrifuge

The Benchmark S is an economical alternative to the Benchmark C and offers features distinct from the Melton Centrifuge. It meets requirements for ASTM D4007/API 10.3, ASTM D1796, ASTM D2709, ASTM D2273, ASTM D91, ASTM D96/API 10.4, ASTM D893 and API 2542. It is designed for determining S&W content in crude oil or refined petroleum at locations without Class I, Division 2 requirements. The Benchmark S is optimal for laboratory settings or refineries using 100-mL capacity tubes and preferably installed on benchtops. It comes with a standard 4-place trunnion arm configuration. The unit may be hard-wired, or a power cord may be purchased separately from L-K Industries.

FEATURES	BENEFITS
Variable speed motor with LCD Display and electronic braking	Reach speeds up to 2000 rpm; controlled stops
Manual temperature control (Ambient to 200°F)	Real-time adjustment; better process control
Integrated timer	Reduces variation in testing
Specifically designed collars, shields and cushions	Less tube breakage at higher G-forces
Latching emergency stop button and locking lid	Prevents unsafe operation
Fully insulated body; outer solvent-resistant, powder coating	Better temperature control (prevents heat loss); sturdy and resilient



"Benchmark S"

Weight	Size
110 lbs	28" x 33" x 18"

Available Configurations

B, C, D or E tube styles	120VAC or 240VAC (50-60 Hz, single phase)
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Our Benchmark Maintenance Plan! - Pg 24

* Recommended configuration shown (see details in appendix). For pricing on other configurations, please visit www.lk-ind.com.

Centrifuge Tubes

All L-K Industries centrifuge tubes are made in-house. Tubes are calibrated volumetrically in the manufacturing facility or gravimetrically in our onsite ISO/IEC 17025 accredited laboratory. With innovations such as 2-mm wall thickness and wide-neck threads, L-K Industries can take pride in being a market front-runner in glassware.

Tube Types:



Finger (A)
12.5-ml

Hand-crank or
Mini-Melton

Applicable Standards:
API 2542



Pear-Shaped (B)
100-ml

Extended capillary tip
for accurate readings

Applicable Standards:
API 2542, ASTM
D96/API 10.4



Long Cone (C)
8", 100-ml

Laboratory settings
(Benchmark models)

Applicable Standards:
ASTM D4007/API 10.3
ASTM D96/API 10.4



Short Cone (D)
6-3/8", 100-ml

Transport models with
limited space

Applicable Standards:
ASTM D4007/API 10.3
ASTM D96/API 10.4



Capillary (E)
8", 100-ml

Best for refined fuel
products

Applicable Standards:
ASTM D2709

*Starting price shown. Complete price list is available in the appendix (Pg 26).
Settling tubes for magna particle testing also available.

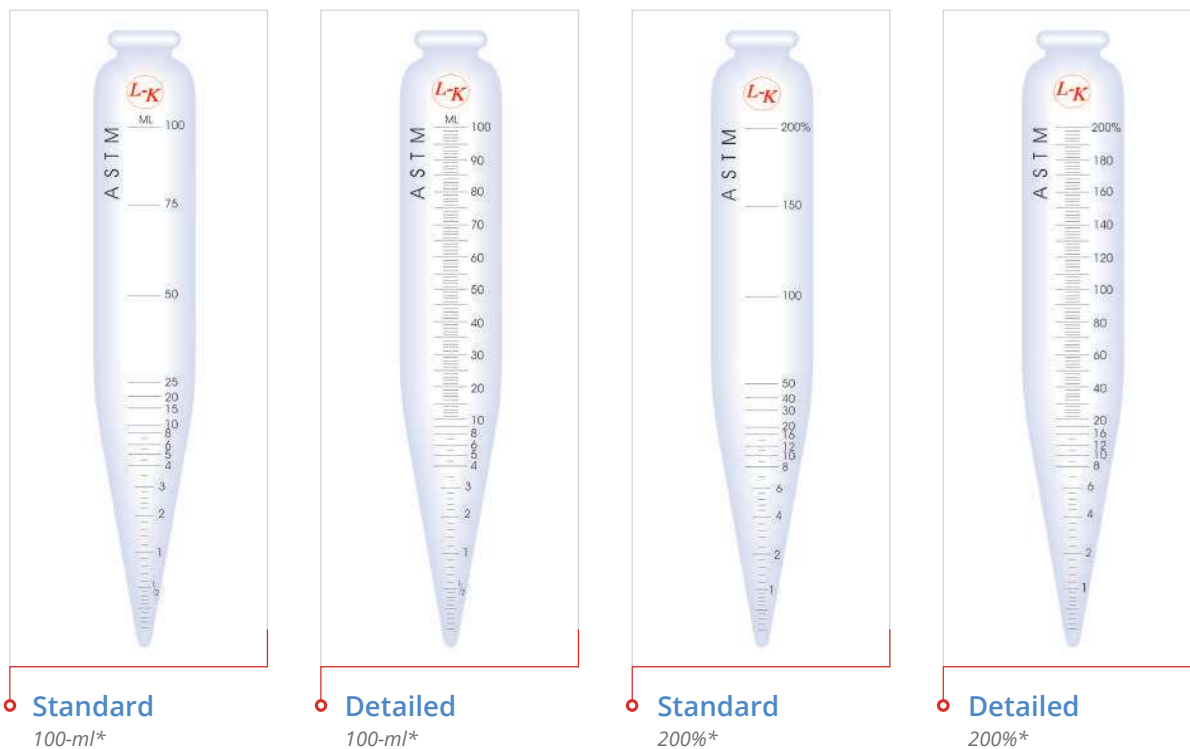
FEATURES	BENEFITS
Conforms to ASTM & API standards	Can be used in regulatory environments
ISO/IEC 17025 calibrations	Unmatched accuracy
Permanently etched, yellow markings	Higher visibility and longer life
Sand spot	Hand-labeling tubes in field or laboratory
Customizable & serialized	Specific to customer needs & traceable
Manufactured in-house	Short lead times
Wide-thread, thick-wall configurations	Durability; high-speed capability

Available Configurations:

- A, B, C, D, E tube styles
- Wide-neck or standard threads
- 100-ml or 200% markings
- ISO/IEC 17025 calibration
- Standard or detailed markings

Centrifuge Tubes

Available Markings:



*All tubes shown are tooled top. Standard tubes have detailed markings up to 10-ml (20%) mark; detailed tubes have detailed markings up to 100-ml (200%) mark.

Tips & Definitions:

- When using 100-ml tubes, ADD the S&W volume of two separate samples to account for dilution
- When using 200% tubes, take the AVERAGE of two sample tubes
- Certified – marked tubes are gravimetrically calibrated by an accredited laboratory
- Verified – marked tubes are volumetrically checked in-house (factory)
- Non-verified – marked tubes sold directly to the customer off the production line without verification

Available Tops & Threads:

