

MUD BALANCE

Instructions for use

XYM series mud balance, its main components: mud cup, mud cup lid, balance barrel, weight, scale, etc. are all made of stainless steel. After mirror polishing or shot blasting, it has the characteristics of durability, beauty, impact resistance, corrosion resistance, stable measurement data and high precision. It is a special instrument mainly used to measure the density of drilling fluid and other liquid substances. It is widely used in the analysis and determination of liquid density in major oil fields, geological exploration and laboratories.

Main technical parameters


Model	Name	Measuring range	Measurement accuracy	Mud cup capacity
XYM-1	Mud balance	0.96-2.0g/cm ³ (8.0-171b/gal)	0.01g/ cm ³ (0.1lb/gal)	140 cm ³
XYM-2	Mud balance	0.96-2.5g/cm ³ (8.0-211b/gal)	0.01g/ cm ³ (0.1lb/gal)	140 cm ³
XYM-3	Mud balance	0.96-3.0g/cm ³ (8.0-251b/gal)	0.01g/ cm ³ (0.1lb/gal)	140 cm ³
XYM-5	Mud balance	0.7-2.4g/cm ³ (5.8-201b/gal)	0.01g/ cm ³ (0.1lb/gal)	140 cm ³
XYM-7	Mud balance	0.1-1.5g/cm ³ (0.8-131b/gal)	0.01g/ cm ³ (0.1lb/gal)	140 cm ³


Operation


1. The base of the instrument should be placed on a horizontal plane.
2. Measure the temperature of the drilling fluid and record it on the drilling fluid report.
3. Remove the lid of the cup and fill the clean and dry mud cup with the drilling fluid to be measured. If air bubbles enter the drilling fluid, tap the mud cup gently until the air bubbles overflow outside the cup (the cement slurry needs to be shaken 25 times when measuring the cement slurry).



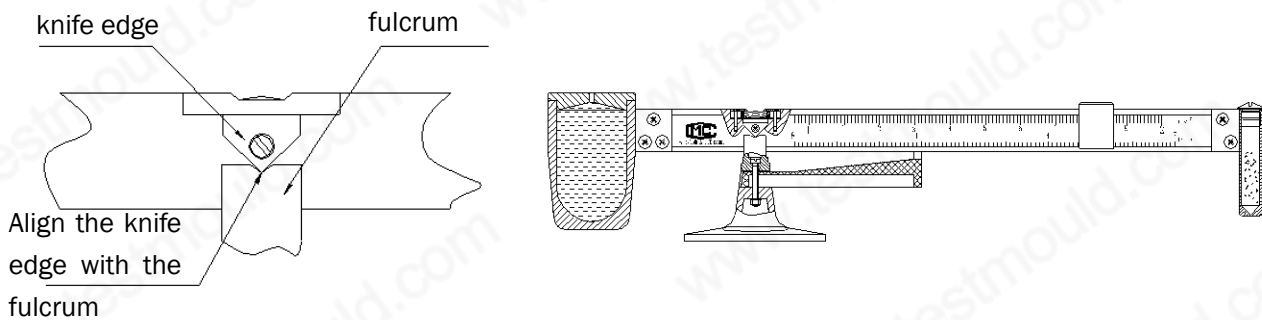
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4. Put the lid on the mud cup filled with drilling fluid and turn the lid to squeeze out the excess drilling fluid and air from the small hole in the middle of the lid.
5. Wipe off the excess drilling fluid on the outer surface of the instrument and the cup lid.
6. Align the knife edge of the instrument with the fulcrum.
7. Move the rider to the vicinity of the knife edge, and then slowly move the rider to the right to keep the balance arm in a horizontal balance position (for the balance arm, use the bubble level to measure the balance).
8. Reading; the engraved line on the left side of the rider is the measured density value of the drilling fluid.



Note

- Do not unscrew the top screw plug on the balance cylinder unless the instrument is recalibrated.
- Do not unscrew the rider bottom screw unless recalibrating the instrument



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