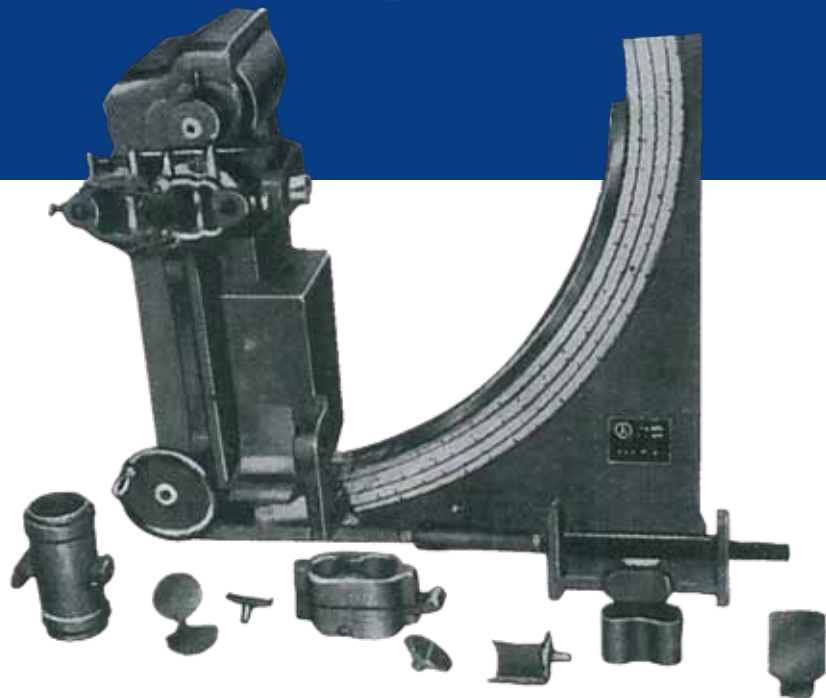




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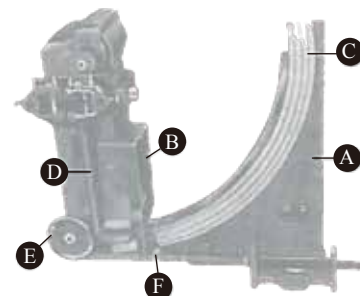
Apparatus for green sand quality control

Universal Molding Sand Strength Tester NKU



This is for measuring various types of strength of molding sand and related materials: compression and shear strength of green sand, baked sand, and core binders, tensile strength of core, and others. It has a precision of highest level and yet easy to use and sturdy.

The tester consists of (A) bed plate, (B) swing weight, (C) measure grade, (D) press arm, (E) handle, and (F) magnetic iron piece, level gauge, and several other parts.



● Specification

Height:	514 mm	
Floor area:	557 mm x 315 mm	
Capacity:	green mold compression strength:	1.32 kg/cm ²
	baked mold compression strength:	6.60 kg/cm ²
	green mold shear strength:	1.04 kg/cm ²
	baked mold shear strength:	5.20 kg/cm ²
	core ensile strength:	20.80 kg/cm ²
	core binder:	20.80 kg/cm ²

Fix the tester on a flat concrete block or a sturdy wood block. The swing weight (B) is adjusted to the horizontal position using a level gauge and a pair of adjusting screws on the bed plate (A). The horizontal position can be easily found by matching the zero line of the aluminum press arm (KK) that is attached at the end of the swing arm (B) and the zero line of the measure grade (C). Then the moving indicator (G) is attached to the press arm (KK), while rotating the handle (E) counter-clock-wise to place the press arm (D) at the end position. The moving indicator (G) is a magnetic iron piece which is left staying at the position corresponding to the moment of breakage of a sand test piece.

Press pieces (AA) and (M) are inserted in a concave provided by removing bolts (JJ) and (K) in the same manner as in the case of green sand mold. Strength is read from the position of the moving indicator on the measure grade "DRY COMP".



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