

**KLUNIVERSITY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**METALLURGY LABORATORY**

**PLANETARY BALL MILLING**

SL.NO	Name of the equipment	Purchased date Bill No	Cost
1	Planetary ball mill	4-05-2017 /100042	15,01,624.00



**DESCRIPTION:** Tungsten carbide lined bowl of 250 ml

Tungsten carbide elongated balls of Dia : 6 mm

Tungsten carbide elongated balls of Dia : 10 mm

Like in a planetary system the grinding jar rotates on a orbit around the centre. This rotational movement is the self-rotation of the grinding container superimposed. The resulting centrifugal and acting acceleration forces lead to strong grinding effects

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**ULTRASONIC FLAW DETECTOR**

SL.NO	Name of the equipment	Purchased date Bill No	Cost
1	Ultrasonic Flaw Detector	30-03-2017 /201708	2,52,148.00



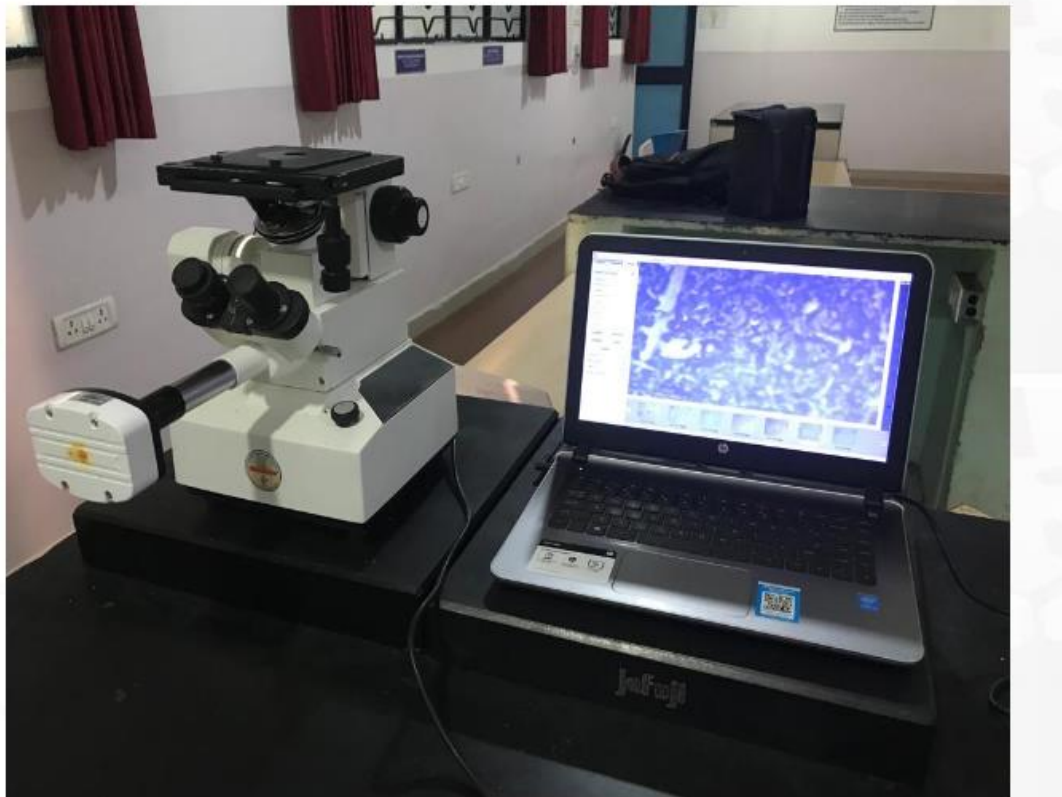
DESCRIPTION: Model no : radent SWIFT SCAN 360

For the metal/air boundaries commonly seen in ultrasonic flaw detection applications, the reflection coefficient approaches 100%. Virtually all of the sound energy is reflected from a crack or other discontinuity in the path of the wave. This is the fundamental principle that makes ultrasonic flaw detection possible.

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**ADVANCED INVERTED METALLURGICAL MICROSCOPE**

SL.NO	Name of the equipment	Purchased date Bill No	Cost
1	Advanced Inverted Metallurgical Microscope with Image Analyser	01-10-2016/056	1,92,997.00



**DESCRIPTION:** Magnification range: 100X-2000X Objective lenses: 10X, 20X, 40X, 100X Eye piece: 10X 360

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