

SA880308

Mid Victorian Mark III Gramme Dynamo & Motor No.1122 by Breguet of Paris

Price

Sold**Item Reference: SA880308****Date of manufacture: 1880**

Dimensions

Height = 61 cm (24.0")

Width = 37 cm (14.6")

Depth = 33 cm (13.0")

Description

For sale, a museum quality Mark III Gramme Dynamo and DC motor by Breguet of Paris. The machine is comprised of four inverted horse-shoe magnets held upright by a brass central casing. In the central cavity of the casing between the magnet ends is a gramme ring attached to a spindle which emanates from the side of the casing. A toothed gear wheel held on the spindle is contacted by a much larger 13.5" brass gear wheel on its own spindle supported by beautifully turned brass columns either side. The machine can be hand operated via a brass arm with a turned wooden handle which may be applied to either side for ease of use. The brass top plate applied to the casing is further engraved with the name, Mon' Breguet and the serial number 1122. Able to produce direct current, Zenobe Gramme's machine was the first to produce power on an industrial scale (rather than simply for philosophical demonstrations) and is considered a critical milestone in the development of the modern motor. Although designed as a hand cranked dynamo, Gramme and his assistant stumbled by chance onto the fact that it would also act as DC electric motor if supplied with a constant voltage. This examp...

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