

# 粉末冶金結構件體積密度測試儀

## Bulk Density Tester for Powder Metallurgy

### KBD-120P/1200PN KBD-300P/600P

適用於：粉末冶金上游工業、新材料研究實驗室。

Suitable for: Powder Metallurgy Industry, New Material Research Lab.

原理：根據ASTM B311、B328；MPIF 42、57；JIS Z2505、Z2506、GB/T5163規範。採用阿基米德原理浮力法應用煮沸法、真空飽和法、準確直讀量測數值。

Principle: According to ASTM B311, B328; MPIF 42, 57; JIS Z2505, Z2506; GB/T 5163, by adopting the buoyancy method of Archimedeian principle, and by applying boiling water method, vacuum saturation method, it can show the measuring result directly.



KBD-120P/1200PN功能：

- 模式1、直接讀取結構件的體密度、有效孔隙率、濕密度、體積。
- 模式2、直接讀取燒結含油軸承含油率。
- 模式3、可依現場操作習慣直接讀取不吸水的比重和體積。

KBD-300P/600P功能：

- 模式1、直接讀取結構件體密度與含油合金之有效孔隙率、濕密度、體積。
- 模式2、直接讀取燒結含油軸承含油率。

★採用大水槽設計，降低吊欄線的浮力所造成的誤差。水槽尺寸150x100x90mm，KBD-1200PN可依樣品長度訂製合適的水槽。

型號 Model	KBD-120P	KBD-1200PN	KBD-300P	KBD-600P
秤重範圍 Weighing Range	0.001g~ 120g	0.01g~ 1200g	0.01g~ 300g	0.01g~ 600g
密度精度 Density Precision	0.0001 g/cm <sup>3</sup>	0.001 g/cm <sup>3</sup>	0.001 g/cm <sup>3</sup>	0.001 g/cm <sup>3</sup>
設定 Settings	溫度補償設定、溶液補償設定、防水處理油的密度設定 Settings of water temperature and solution compensation, density setting of water-proofing oil			

Functions:

- Can directly show the bulk density, effective porosity, wet density and volume of powder metallurgy products.
- Can directly show the oil content, effective porosity of sintered oil-impregnated bearing.
- KBD-120P/1200PN series can directly show the density and volume of impermeable products.
- The machines have the function of water temperature compensation setting, solution compensation setting, and density setting of water-proofing oil.
- The machines can be connected to the PC or printer by RS-232.
- By adopting the design of big tank, it can decrease the deviation caused by supporting wire's buoyancy.
- Standard size of water tank: 150X100X90mm.
- The water tank length of KBD-1200PN can be customized according to the customers' demand.