

GAS/ HELIUM PYCNOMETER FOR TRUE DENSITY & POROSITY MEASUREMENTS



OVERVIEW

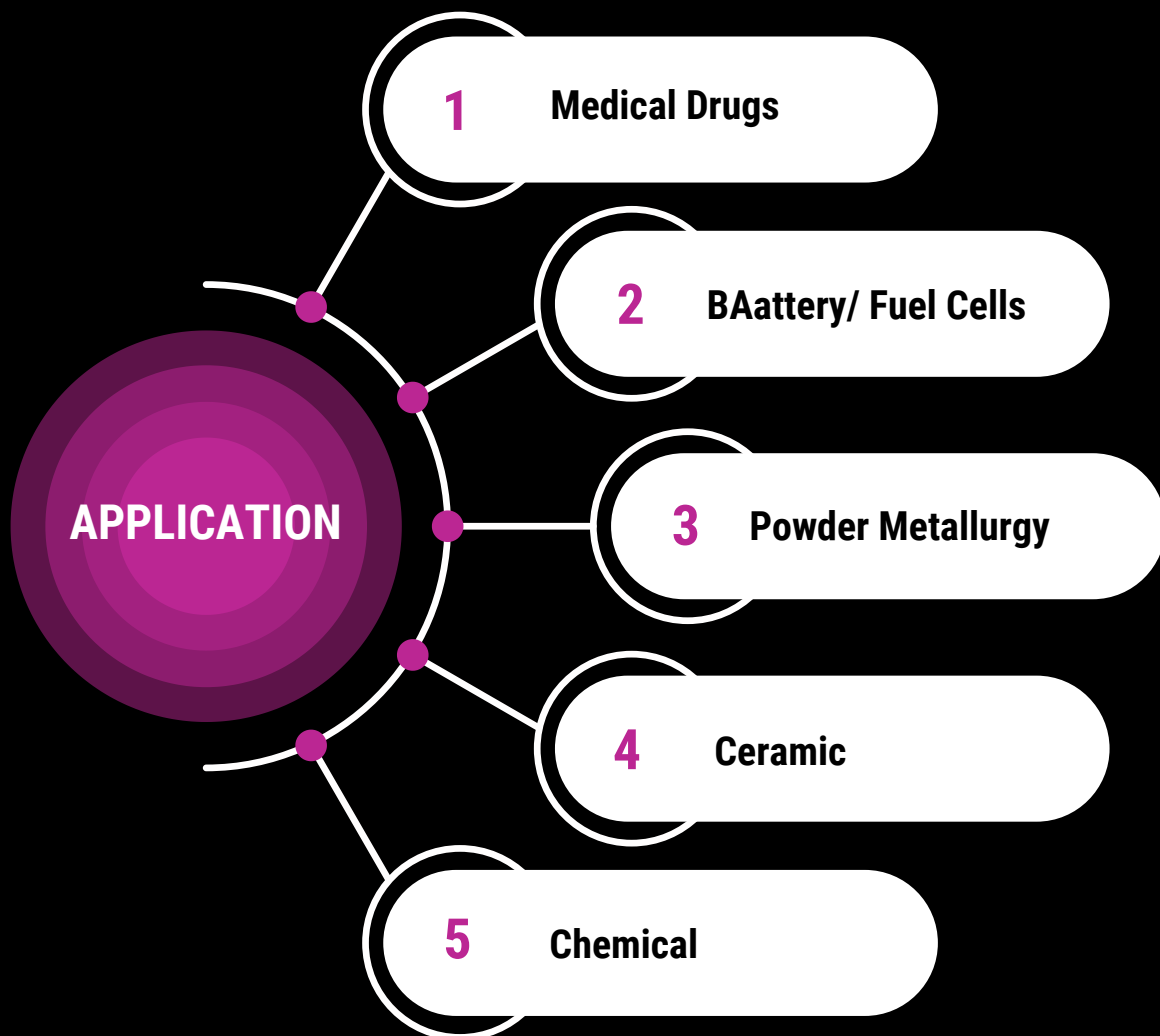
The M19 Gas Pycnometer consists of sealed sample chamber, or a vacuum chamber, control valve manifold and a high precision vacuum pressure gauge to indicate the measured volume or density, the unit is mounted on a stainless steel stand.

The device is simple, reliable & repeatable allowing consistent quality, precision control system & software based automated calculations & test reporting.

OPERATIONS

The Gas Pycnometer is used to determine the true volume & density of powders & bulk solids. The true volume of a solid is calculated from the measured drop in pressure when a known amount of gas is allowed to expand in a test chamber. This technique of pycnometer excludes any pore volume accessible to the gas. Helium is preferred gas since it exhibits ideal gas behaviour, however, any non-corrosive gas including compressed air can be used for the testing.

The device is fully automated with variable pressure control system.



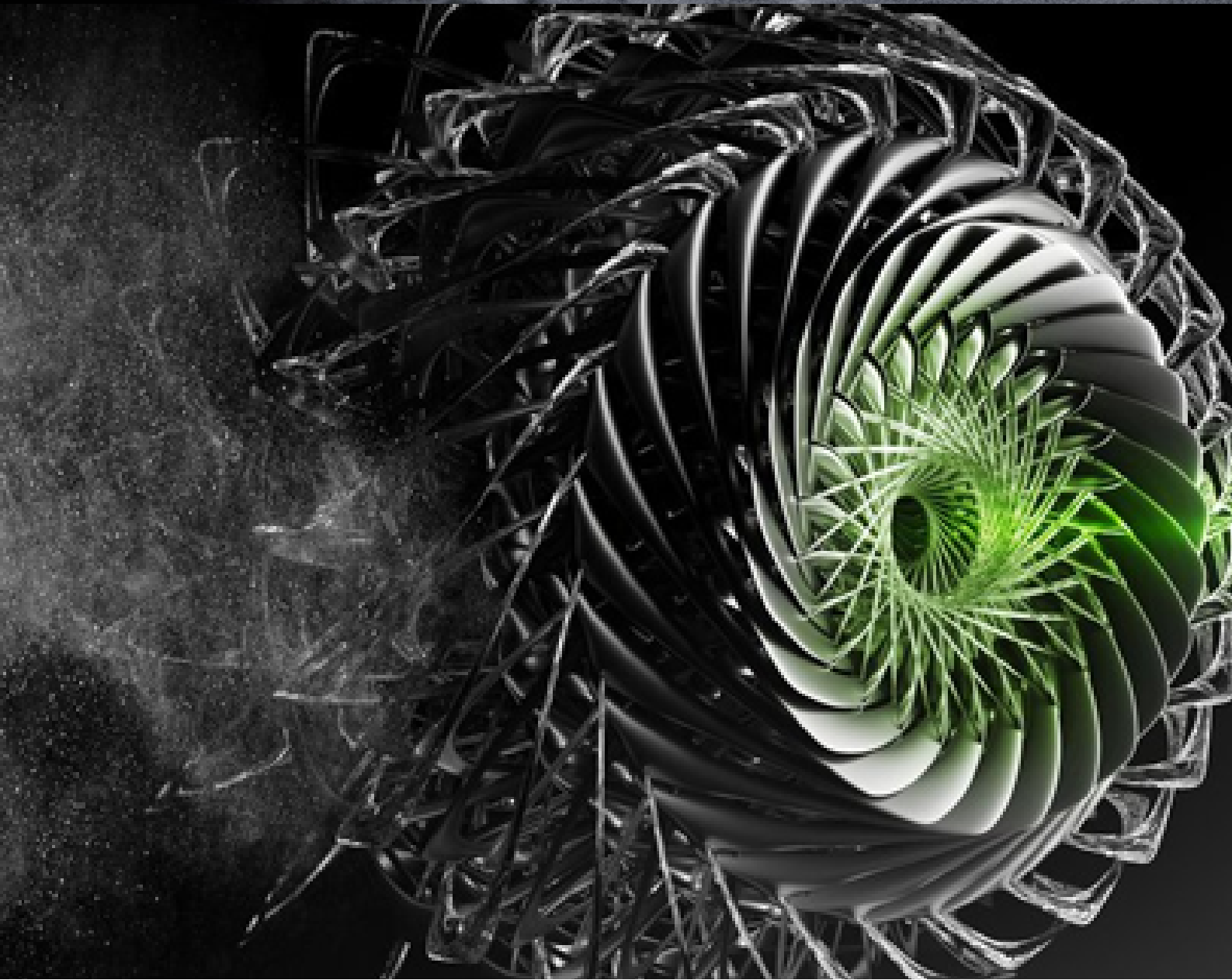
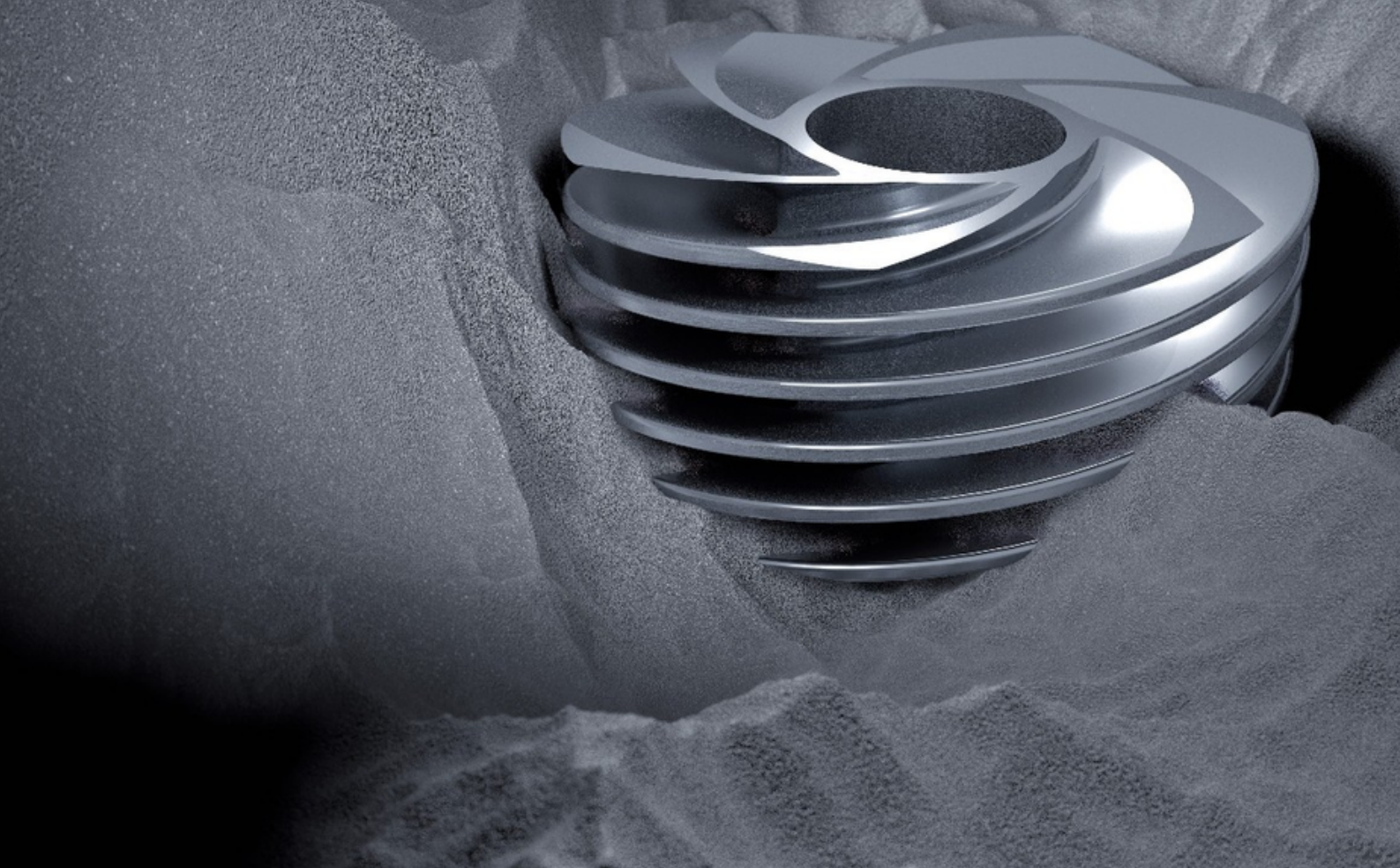


GP- 50 DYNAMIC REPORT PROGRAM

Unprecedented data visualisation & collaboration using M19 software control program. Experience the power of advanced control system that virtually eliminates user bias throughout the data aquisition and result interpretation stage, redefining the way data is generated & consumed by researchers & quality professional in laboratories.

SPECIFICATION

ANALYSIS SPECIFICATION	MEASUREMENT RANGE
Standard	ASTM D5550-14, ASTM 4892-14, ASTM B923-10
Analysis Gases	Helium, Nitrogen
Sample Cell Volume	0.1-135
Sample Cell Material	Stainless Steel
Standard Sample Cell	135, 50, 10, 4, 5, 1.8, 0.25 cm ³
Volume Repeatability	+/- 0.01%
Volume Accuracy	+/-0.03%
Pressure Transducer Type	Absolute (Digital)
Pressure Resolution	0.0001 psi
Temperature Range	15-50' C
Pressure Accuracy	0.01%
Test Mode	Pressure mode, Ambient mode, vaccum mode
Comunication	USB port
Types of Samples	Solid, Powder, Slurry, Granules, Monolith, Paste
Vacuum Pump	2Stage direct oil vacuum pump 3x10 ⁻³ mbar, 54 db noise level
Power Supply	220 VAC 50 Hz





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