

Apparatus for determination of bulk density EN ISO 3923 / Scott-Volumeter, ASTM B964 (Carney Funnel)

This Apparatus is used for the bulk density determination of powders (metal powders) under standardized conditions.

Therefor the sample material is filled into a funnel and collected by a measuring beaker with defined volume and the sample mass is determined by difference weighing.

This procedure applies on powders running unimpeded through a 2,5 mm nozzle.

Powders that are not running through the 2,5 mm nozzle but are passing a 5 mm nozzle are also in the range of this standard.

Normative Reference:

- Metal powders – Determination of bulk density– part 1: (ISO 3923-1:2008)
- Test Methods for Flow Rate of Metal Powders Using the Carney Funnel ASTM B964



Pic: complete apparatus Art. L50566064

Appartus for Determination of bulk density: (Art: L50566061)

Complete apparatus made of stainless steel including stable and non-slip stand. The funnel height can be varied.

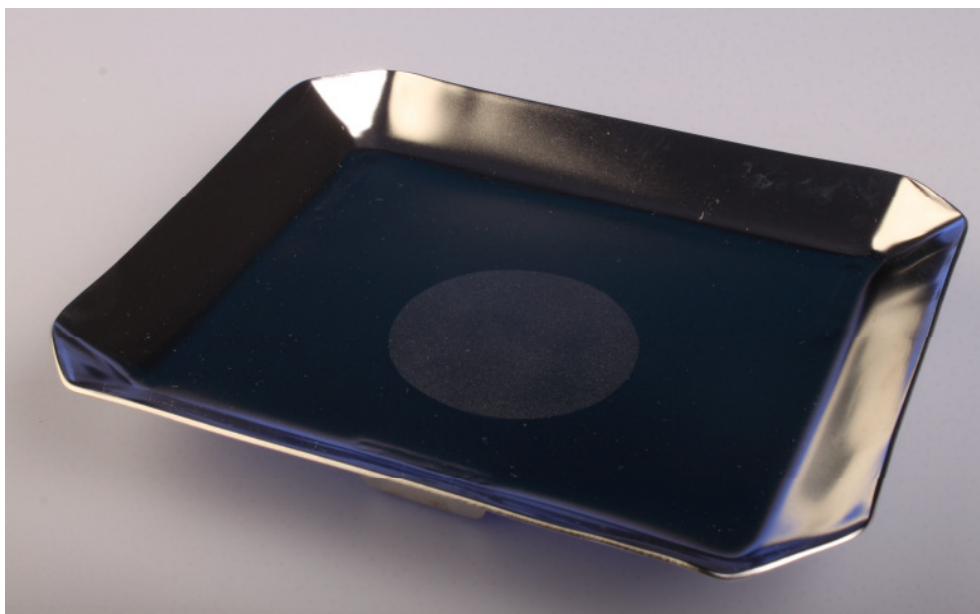
The clear setup allows easy operation and cleaning.

Consisting of:

- funnel, stainless steel
- nozzle, Ø 2,5 mm, stainless steel
- nozzle, Ø 5,0 mm, stainless steel
- measuring beaker 25 ml, stainless steel
- tripod, stainless steel
- wiper blade
- spacer block 25 mm
- manual
- sample test report

Accessories:

- stainless steel tray for measuring beaker (Art: 534680W)
- calibration certificate for measuring beaker (Art: 5346802Z)
- Collecting tub, stainless steel (Art: L505660A)



Pic. Stainless steel tray

Stainless steel tray:

For collection of overflowing sample . The measuring beaker is placed on the mark of the tray to ensure a standardized setup.

Calibration certificate for measuring beaker:

Certification of DIN conformity with 3 comparing measurements.

Collecting tub:

The complete apparatus is placed in the collecting tub. Overflowing sample material can be caught by the tub so the laboratory desk stays clean.

Needed laboratory devices/Option:

- Precision balance +/- 0,01 g (Art: 5346804)

Similar apparatuses and their components:

L50566061:

Apparatus for determination of bulk density -DIN-EN-ISO-3923-1 / ASTM B 964

<http://www.hll.de/12/1/AD223/TDUwNTY2MDYx/Landgraf HLL L50566061 HLL.html>

L50566063:

Apparatus for determination of flow rate - DIN-EN-ISO 4490 / ASTM B213-13

<http://www.hll.de/12/1/AD223/TDUwNTY2MDYz/Landgraf HLL L50566063 HLL.html>

L50566064:

Apparatus for determination of bulk density DIN-EN-ISO-3923-1 / ASTM B 964 and flow rate DIN-EN-ISO 4490 / ASTM B213-13

<http://www.hll.de/12/1/AD223/TDUwNTY2MDY0/Landgraf HLL L50566064 HLL.html>

<u>Components</u>	<u>Article</u>		
	Determination of bulk density- Art. L50566061- DIN-EN-ISO-3923-1	Determination of flow rate- Art. L50566063- DIN-EN-ISO 4490	Determination of bulk density and flow rate- L50566064- DIN-EN-ISO-3923-1 & DIN-EN-ISO 4490
Nozzle 2,5 mm			
Nozzle 5,0 mm			
Calibrated nozzle (40 +/- 0,5 s)			
Measuring beaker 25ml			
Chinese Emery Grit			
Tripod			