

Porius Meterial

TWS-153PM

Matsuhaku Density

Suitable for :

Vulcanized rubber, Non-foam plastic, Carbon true density, True denPowder metallurgy industry, Downstream electrical tools of powder metallurgy, Pneumatic tools, Sewing machine, Sports equipment, Computer fan, General fan, Auto parts, Hand tools, New materials research lab....etc.

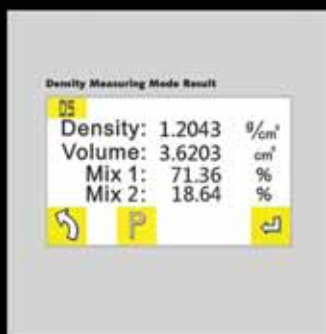
Principle :

According to ASTM B311, B328; MPIF 42, 57; JISZ2505, Z2506; GB / T 5163 standard, applying the Archimedes principle buoyancy method. Using the boiling water method, immersion method, vacuum saturated waterproof treatment. It can direct show bulk density and porosity data.



Specification

MODEL		TWS-153PM
Max weight :		150g
Weighting precision :		0.001g
Density precision :		0.0001 g/cm ³
Wet density :		0.0001 g/cm ³
Porosity :		0.01%
Volume precision :		0.01%
Mix ratio :		0.01%
Mode	Bulk density :	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Oil-content sample :	Show Oil-content directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly



Functions :

1. The infrared temperature sensor can automatically detect water temperature and perform water temperature compensation.
2. With automatic temperature compensation, manual temperature compensation, and solution compensation functions.
3. Directly read body density, apparent porosity, wet density, volume in absorbent product density measurement mode.
4. Built-in five groups of memory functions can measure five groups of samples at the same time in absorbent product density measurement mode.
5. Directly display the value for the development research of new materials. With HI and LO limit functions and buzzer, the device determines whether the specific gravity of the test object is qualified in non-absorbent product density measurement mode: It has the function of two groups mixing ratio.
6. Built-in oil content measurement mode can directly read the oil content of the product.
7. With RS-232 & USB Interface.
8. Large size water tank design is adopted to reduce the error caused by the buoyancy of the suspension rail. The water tank size is 148 × 100 × 85mm.



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Vulcanized rubber, Non-foam plastic, Carbon true density, True denPowder metallurgy industry, Downstream electrical tools of powder metallurgy, Pneumatic tools, Sewing machine, Sports equipment, Computer fan, General fan, Auto parts, Hand tools, New materials research lab....etc.

Functions :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder ture density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.



Density Measuring Mode Result

DS
Density: 1.2043 g/cm³
Volume: 3.6203 cm³
Mix 1: 71.36 %
Mix 2: 18.64 %

* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



BK+ Measuring Mode Result

BK+
Bulk DS : 7.9073 g/cm³
Wet DS : 7.0085 g/cm³
Porosity : 60.10 %
Absorption : 9.38 %
Apparent DS : 16.1286 g/cm³
Open pores : 10.6294 cm³
Close porosity : 4.12 %
Total porosity : 64.22 %

Bulk Measuring Mode Result

Bulk
Bulk DS : 7.9073 g/cm³
Wet DS : 7.0085 g/cm³
Porosity : 60.10 %
Absorption : 9.38 %
Apparent DS : 16.1286 g/cm³
Open pores : 10.6294 cm³
Close porosity : 4.12 %
Total porosity : 64.22 %

MODEL		TWS-153PY
Max weight :		150g
Weighting precision :		0.001g
Density precision :		0.0001 g/cm ³
Wet density :		0.0001 g/cm ³
Porosity :		0.01%
Absorption :		0.01%
Apparent DS :		0.0001 g/cm ³
Open pores :		0.0001 g/cm ³
Close porosity :		0.01%
Total porosity :		0.01%
Mix ratio :		0.01%
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total
	Bulk density (Adopting water saturation method)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	(Five groups of memory functions)	
	Powder true density	Powder products : Show Powder true density
Nonabsorbent material :		Show Density, Volume, Mix ratio directly

Principle :

According to ASTM B311, B328; MPIF 42, 57; JISZ2505, Z2506; GB / T 5163 standard, applying the Archimedes principle buoyancy method. Using the boiling water method, immersion method, vacuum saturated waterproof treatment. It can direct show bulk density and porosity data.



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Porius Meterial

TWS-214PC

Matsuhaku Density

Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.



Functions :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Density Measuring Mode Result

DS
Density: 1.2043 g/cm³
Volume: 3.6203 cm³
Mix 1: 71.36 %
Mix 2: 18.64 %

* Optional Accessories : Automatic Vacuum Siphon device MHV-2



* Optional Accessories : Automatic temperature control wax furnace



* Optional Accessories : TWS-168 Printer



MODEL		TWS-214PC
Max weight :		210g
Weighting precision :		0.0001g
Density precision :		0.0001 g/cm ³
Wet density :		0.0001 g/cm ³
Porosity :		0.01%
Absorption :		0.01%
Apparent DS :		0.0001 g/cm ³
Open pores :		0.0001 g/cm ³
Close porosity :		0.01%
Total porosity :		0.01%
Max ratio :		0.01%
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method) (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Wax sealing method)	Porous absorbent material : Show Bulk density directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly

Principle :

According to ASTM B311, B328; MPIF 42, 57; JISZ2505, Z2506; GB / T 5163 standard, applying the Archimedes principle buoyancy method. Using the boiling water method, immersion method, vacuum saturated waterproof treatment. It can direct show bulk density and porosity data.



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Porius Meterial

Matsuhaku Density

TWS-214PM



Suitable for :

Powder metallurgy industry, Downstream electrical tools of powder metallurgy, Pneumatic tools, Sewing machine, Sports equipment, Computer fan, General fan, Auto parts, Hand tools, New materials research lab....etc.

Feature:

Max weight : 210g

Weighting precision : 0.0001g

Density precision : 0.0001g/cm³

Principle :

According to ASTM B311, B328; MPlF 42, 57; JISZ2505, Z2506; GB / T 5163 standard, applying the Archimedes principle buoyancy method. Using the boiling water method, immersion method, vacuum saturated waterproof treatment. It can direct show bulk density and porosity data.

Density Measuring Mode Result

DS	Density: 1.2043	g/cm ³
	Volume: 3.6203	cm ³
	Mix 1: 71.36	%
	Mix 2: 18.64	%

Oil Content Measuring Mode Result

OIL	Oil content: 18.13	%
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MODEL		TWS-214PM
Max weight :		210g
Weighting precision :		0.0001g
Density precision :		0.0001 g/cm ³
Wet density :		0.0001 g/cm ³
Porosity :		0.01%
Volume precision :		0.01%
Mix ratio :		0.01%
Mode	Bulk density :	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Oil-content sample :	Show Oil-content directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	(Five groups of memory functions)	
	Bulk density (Wax sealing method)	Porous absorbent material : Show Bulk density directly
Nonabsorbent material :		Show Density, Volume, Mix ratio directly

BK Measuring Mode Result

BK	Bulk DS: 6.8895	g/cm ³
	Porosity: 8.36	%
	Wet DS: 7.0643	g/cm ³
	Volume: 16.5824	cm ³

Oil Content Measuring Mode Result

Bulk	Bulk DS: 6.8895	g/cm ³
	Porosity: 8.36	%
	Wet DS: 7.0643	g/cm ³
	Volume: 16.5824	cm ³



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Porius Meterial

Matsuhaku Density

TWS-214PY

PY TOUCH TYPE



Suitable for :

Powder metallurgy industry, Downstream electrical tools of powder metallurgy, Pneumatic tools, Sewing machine, Sports equipment, Computer fan, General fan, Auto parts, Hand tools, New materials research lab....etc.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM D 3574, GB / T1033, T533 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

* Optional Accessories :
Pycnometer



* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



MODEL		TWS-214PY
Max weight :		210g
Weighting precision :		0.0001g
Density precision :		0.0001 g/cm ³
Wet density :		0.0001 g/cm ³
Porosity :		0.01%
Absorption :		0.01%
Apparent DS :		0.0001 g/cm ³
Open pores :		0.0001 g/cm ³
Close porosity :		0.01%
Total porosity :		0.01%
Mix ratio :		0.01%
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	(Five groups of memory functions)	
	Powder true density	Powder products : Show Powder true density
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly



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TWS-300/600PC



Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

BK+ Measuring Mode Result

BK+	
Bulk DS :	6.407 g/cm ³
Wet DS :	7.008 g/cm ³
Porosity :	60.10 %
Absorption :	9.38 %
1 2 3 4 5 P	
BK+	
Apparent DS :	16.128 g/cm ³
Open pores :	10.029 cm ³
Close porosity :	4.12 %
Total porosity :	64.22 %
1 2 3 4 5 P	

Bulk Measuring Mode Result

Bulk	
Bulk DS :	6.407 g/cm ³
Wet DS :	7.008 g/cm ³
Porosity :	60.10 %
Absorption :	9.38 %
1 2 3 4 5 P	
Bulk	
Apparent DS :	16.128 g/cm ³
Open pores :	10.029 cm ³
Close porosity :	4.12 %
Total porosity :	64.22 %
1 2 3 4 5 P	

Feature of product

Max weight : 300g / 600g

Weighing Precision: 0.01g

Density precision : 0.001g/cm³



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* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



TWS-300/600PM



Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

MODEL		TWS-300PM	TWS-600PM
Max weight :		300g	600g
Weighting precision :		0.01g	
Density precision :		0.001 g/cm ³	
Wet density :		0.001 g/cm ³	
Porosity :		0.01%	
Volume precision :		0.01%	
Mix ratio :		0.01%	
Mode	Bulk density :	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume	
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume	
	Oil-content sample :	Show Oil-content directly	
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly	

Feature of product

Max weight : 300g / 600g

Density precision : 0.001g/cm³



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* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



TWS-300/600PY



Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



MODEL		TWS-300PY	TWS-600PY
Max weight :		300g	600g
Weighting precision :		0.01g	
Density precision :		0.001 g/cm ³	
Wet density :		0.001 g/cm ³	
Porosity :		0.01%	
Absorption :		0.01%	
Apparent DS :		0.001 g/cm ³	
Open pores :		0.001 g/cm ³	
Close porosity :		0.01%	
Total porosity :		0.01%	
Mix ratio :		0.01%	
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity	
	Bulk density (Adopting water saturation method)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity	
	(Five groups of memory functions)		
	Powder true density	Powder products : Show Powder true density	
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly	



Porius Meterial TWS-1200 PC

Matsuhaku Density

Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



MODEL		TWS-1200PC
Max weight :		1200g
Weighting precision :		0.01g
Density precision :		0.001 g/cm ³
Wet density :		0.001 g/cm ³
Porosity :		0.01%
Absorption :		0.01%
Apparent DS :		0.001 g/cm ³
Open pores :		0.001 g/cm ³
Close porosity :		0.01%
Total porosity :		0.01%
Max ratio :		0.01%
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method) (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	true density (VIAA sensing method)	Porous absorbent material : Show Bulk density directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly



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Porius Meterial TWS-1200 PM

Matsuhaku Density



Suitable for :

Ceramic industry, pill medicine, porous material research institutes, construction, geological exploration, roadway research, permanent magnet Sm, Co, Nd, Dy, secondary battery, Li, Ni, Co, Mn, and mixed rare earth, Mn Zn ferrite, Ni Zn ferrite, NdFeB, and Sm Co, rare earth magnetic material, treating water collapse material.

Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



MODEL		TWS-1200PM
Max weight :		1200g
Weighting precision :		0.01g
Density precision :		0.001 g/cm3
Wet density :		0.001 g/cm3
Porosity :		0.01%
Volume precision :		0.01%
Mix ratio :		0.01%
Mode	Bulk density :	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Oil-content sample :	Show Oil-content directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly



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Suitable for :

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Mode :

1. BULK : Adopting water saturation method for porous material.
2. BK+ : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. Powder true density : For powder products, use a pycnometer (optional) to directly read the true density of the powder.
4. DS : Nonabsorbent material.

Principle :

According to ASTM C20 / C134 / C373 / C329 standard,

The machine equipped 4 functions,

Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity directly.

* Optional Accessories :
Automatic Vacuum Siphon device MHV-2



* Optional Accessories :
Pycnometer



TWS-1200 PY

MODEL		TWS-1200PY
Max weight :		1200g
Weighting precision :		0.01g
Density precision :		0.001 g/cm ³
Wet density :		0.001 g/cm ³
Porosity :		0.01%
Volume precision :		0.01%
Mix ratio :		0.01%
Mode	Bulk density :	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Oil-content sample :	Show Oil-content directly
	Nonabsorbent material :	Show Density, Volume, Mix ratio directly



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