

iTest

IPC 4-Parameter Tablet Tester

DUST-TIGHT «DT» OR CONTAINMENT «C» OEB3-4

PHARMA **TECHNOLOGY** 



The **iTest** is a new generation of automatic tablet testing system for integrated in process control (IPC).

Intended for use as a stand-alone equipment with its own HMI or in combination with an upward conveying tablet deduster from Pharma Technology, the module offers premium analysis capabilities for weight, thickness, hardness and diameter - all in a compact «DT» dust-tight or «C» containment OEB3-4 design.

At the heart of the unit's design is the strict separation of dust or tablet fragments from the production stream, resulting in uninterrupted manufacturing. Tablets are sampled directly on the press and conveyed through a flexible hose to the tester via vacuum. The pinch valve placed at the input of the equipment, the optional H13 Hepa Filter and the light negative pressure are all elements which avoid environmental contamination and ensure increased safety for operators.

Sample tablets are tested for each parameter against pre-programmed recipes.

An utmost care has been taken to simplify the design for cleaning procedures. This new tester design, which includes a clear separation between product area and mechanical/electrical parts, increases safety during maintenance operations. All parts are accessible and easily disassembled without the use of tools, making the system extremely easy to service and maintain.

Vacuum conveying of samples



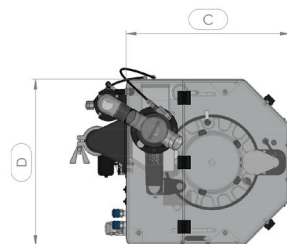
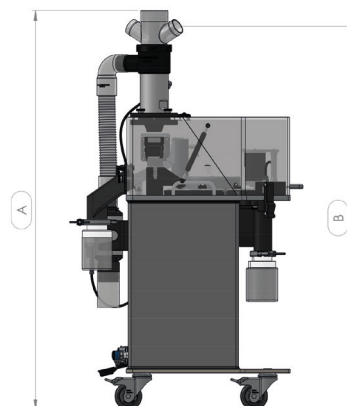
Non-tested tablet recovery



- Complete separation between product and mechanical/electrical area to increase operator safety
- «DT» Dust-tight & «C» Containment OEB3-4 version
- Extremely quiet testing environment with no air turbulence
- CFR 21 Part 11 compliant software
- Data can be extracted in Excel or PDF
- Storage on USB stick, via Ethernet
- Easy cleaning, validation and calibration
- Tablet centering device

Weighing measurment:	
Weighing cell	Sartorius WZA224-L
Weighing unit	1 mg / 0,1 mg (adjustable)
Weighing range	10 mg - 50 g
Weighing accuracy	±1 mg in stable environment
Thickness measurment:	
Drive	Stepper-Motor
Measurement principle	Magnetic Sensor
Measurement unit	mm (inch)
Measurement range	3 - 18 mm
Measurement accuracy	± 0,05 mm
Hardness measurment:	
Drive	Stepper-Motor
Force measurement	Load measurement cell
Measurement principle	Strain measurement strip (DMS)
Force Units	N (Kp, Sc)
Measurement range	4-400 N, extended 8-800 N
Measurement accuracy	± 2 N (with 800 N ±4 N)
Force increase	250 N/sec
Work speed pressure jaw	0,35 mm/sec
Approach and Return speed pressure jaw	8,5 - 17 mm/sec adjustable
Diameter measurment:	
Drive	Stepper-Motor
Measurement principle	Stepper-Motor
Measurement unit	mm (inch)
Measurement range	3 - 25 mm
Measurement range Oblong	5 - 20 mm
Measurement accuracy	±0,1 mm

4-P Tester



Oblong tablet orientation device



Technical data :	
Containment level	Standard "DT" Dust tight, or "C" OEB3-4 containment
Samples conveying	Dust-Tight Vacuum Conveying (optional Venturi)
Requested air extraction	Between 120 - 200 m3/h
Dust extraction connection	Flex Connect © (Ø56,3 mm)
Requested compressed air	80 - 350 l/min - Min. 4,5 bar **
Compressed air connection	KS4
Power supply & Frequency	110V/230V - 50 Hz/60 Hz
Non-Metallic Contact Parts	POM C - PU - Silicone
Contact parts finishing	Ra ≤ 0,8 µm
Frame parts	Stainless steel 304
Frame finishing	Mirror polished
Frame mounted on wheels	Yes
IQ-OQ protocol	Available
Material certificates	Available
Total height (A) (without HEPA filter)	1176 mm
Inlet height (B) (Double inlet)	1130 mm
Floor dimensions (Cx Dx)	490 mm x 490 mm
Inlet chute 4-P tester	Mini Flex Connect © (Ø42 mm)
Outlet chute 4-P tester	TC DIN 32676 DN50
Packaging	Wooden Box
Net weight 4-P tester (+/- 5Kg)	75 Kg

4-P Tester «C» containment OEB3-4



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