



## iTest 4-Parameter Tablet Tester

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

The **iTest** is a fully automatic tablet testing system for integration with a tablet compression machine to perform automated in-process control (IPC). The system is intended for use either as a stand-alone equipment with its own HMI or in combination with a PharmaTechnology tablet deduster. The iTest offers premium analysis capabilities for weight, thickness, hardness and diameter - all in a compact dust-tight (DT) or containment OEB3-4 (C) design.

At the heart of the unit's design is an efficient elimination of dust and tablet fragments from the sampling stream, guaranteeing uninterrupted operation of the tablet tester and the overall tablet production line. Tablets are sampled directly from the tablet press' sampling gate and conveyed through a flexible hose to the tester using suction vacuum. This allows the tester to be positioned freely in the room and offers optimal tablet dedusting. The pinch valve placed at the inlet of the iTest, the optional H13 Hepa Filter and the light under pressure inside the tablet measurement area eliminate environmental disturbances during measurement and increase operator safety.

Sampled tablets are tested for each parameter against pre-programmed recipes. All measurement data is fed back to the tablet press control system for purposes of batch reporting and automated process control.

An utmost care has been taken to simplify the design for cleaning procedures. The tester design features a sealed separation between the contaminated product area and the electro-mechanical section of the machine. All product contact parts are easily accessible and disassembled without the use of tools, allowing extremely fast cleaning and maintenance.

## **KEY BENEFITS**

- Sealing between the tablet test section and electro-mechanical section underneath to avoid product contamination and minimize cleaning
- Precise measurement in a disturbance free environment without air flows and vibrations
- Pneumatic sample conveying by suction for optimal tablet dedusting
- Available in stand-alone version with local HMI, or HMI integrated in i-range PT tablet deduster
- Available in Dust-tight (DT) and Containment OEB3-4 (C) version
- Optional tablet alignment device in hardness tester for special shaped tablets
- CFR21 part 11 compliant software, including batch reporting and audit trail



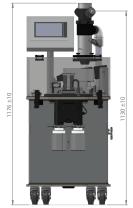
## TECHNICAL SPECIFICATIONS

Weighing Measurement	
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 Measurement	
Drive	Stepper-Motor
Measurement Principle	Magnetic Sensor
Measurement Unit	mm or inch
Measurement Range	3 - 18 mm
Measurement Accuracy	±0.05 mm
Hardness Measurement	
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 Measurement	
Drive	Stepper-Motor
Measurement Principle	Stepper-Motor
Measurement Unit	mm (inch)
Measurement Range	3 - 25 mm
Measurement Range (Oblong)	5 - 20 mm











Technical data	
Containment level	Standard "DT" Dust tight, or "C" ≤ OEB3-4 containment
Samples conveying	Dust-Tight vacuum suction (optional venturi if not sufficient vacuum at the customer location)
Requested air extraction	Between 150-200 m³/h
Dust extraction connection	Mini Flex Connect ©
Requested Compressed air	min. 4 bar
Compressed air connection	QS8
Power supply & Frequency	110V/230V - 50 Hz/60 Hz
Polymer contact parts	PMMA - PX 280 FDA - POM C
Contact parts finishing	RA < 0.8 μ
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 (CxD)	484 mm x 490 mm
Inlet chute	4-P tester Flex Connect ©
Outlet chute	4-P tester TC DIN 32676 DN 50
Packing	Box on 1US pallet
Net weight (4-P tester +/- 5 kg)	75 kg
HMI	7" Touchscreen Display



