# iTec DT

## SEGMENTABLE **STAINLESS STEEL** TABLET DEDUSTER
## **DUST-TIGHT**
## METAL DETECTOR

PHARMA TECHNOLOGY

Our iTec range is also available in stainless steel. These Pharma Technology (PT) units are based on a segmented 316L stainless steel spiral, with stackable 275 mm modules that can be removed individually for easy dismantling, cleaning, and validation.

This spiral offers a high degree of robustness. The cover is fully transparent, and clear segments in the tower provide a direct view to tablets throughout the process.

Utmost care has been taken to simplify the design in order to reduce the amount of parts to be assembled /disassembled, and to eliminate the need for tooling.

This modular system also allows for adjustable height gain. Additional modules can be added, in increments of five, to increase the machine's height. Five different conveying heights are available, from 500 mm to 1250 mm.

This unit can handle tablets or capsules of any size at a very high speed. The stainless steel spiral is mainly used for effervescent and micro-tablets, as dust extraction perforation holes can be customized per customer request.

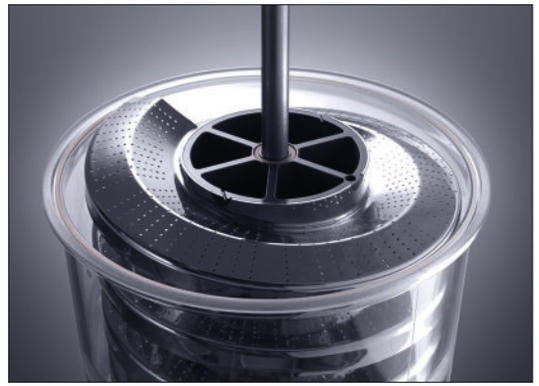
Enlarged circumferential dust extraction channels and central air jets on the tablets improve dedusting efficiency.

A self-regulating vibrating base, with accelerometer, makes it unnecessary to adjust gaps of springs on the unit's base when changing the deduster's tower height, or when transitioning from one product to another.

Several metal detector brands are available, such as LOCK, CEIA.

The iTec generation includes dust-tight cover features to reduce operator exposure to the product and to dust contamination in the production room. Dust-tight systems are modularly upgradable to containment and high-containment washable solutions.

Stainless Steel Modular Spiral

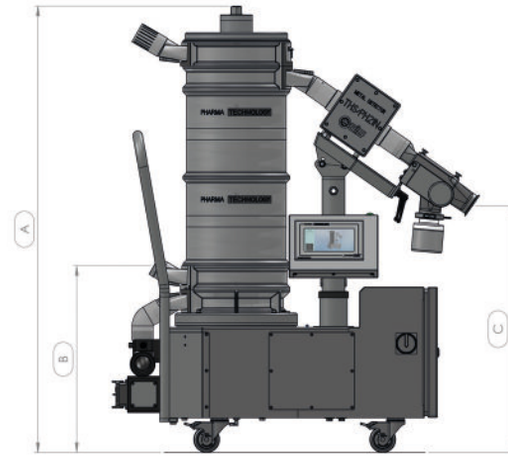


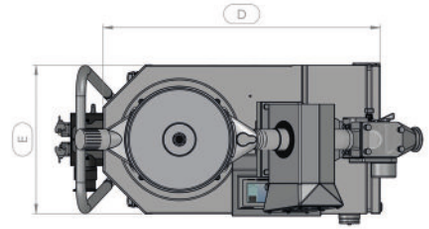
Round metal check dust-tight connectivity

| Technical data PTC iSeries : | 500 | 750 | 1000 | 1250 |
|---|---|---|---|---|
| Total height (A) | 1367 mm | 1642 mm | 1917 mm | 2192 mm |
| Inlet height (B) | 579 mm | 579 mm | 579 mm | 579 mm |
| Outlet height (C) Ceia | 764mm | 1039 mm | 1314 mm | 1589 mm |
| Outlet height (C) Lock | 780 mm | 1055 mm | 1330 mm | 1605 mm |
| Floor dimensions (DxE) | 860 mm x 470 mm | 860 mm x 470 mm | 860 mm x 470 mm | 860 mm x 470 mm |
| Net weight (+/- 5Kg) Ceia | 249 Kg | 260 Kg | 270 Kg | 280 Kg |
| Gross weight (+/-10Kg) Ceia | 289 Kg | 299 Kg | 310 Kg | 320 Kg |
| Net weight (+/- 5Kg) Lock | 245 Kg | 255 Kg | 266 Kg | 276 Kg |
| Gross weight (+/-10Kg) Lock | 285 Kg | 295 Kg | 306 Kg | 316 Kg |
| **Containment level available :** | **Standard «DT» Dust-Tight, «C» Containment OEB3-4, or «HC» High-Containment OEB5 washable** | | | |

| Technical data all units : | | |
|---|---|---|
| Inlet chute | Flex Connect © (Ø56,3 mm) | |
| Outlet chute | TC ASME BPE 2,5 | |
| Minimum product size | Ø 4 mm / Microtabs: Ø 2 mm | |
| Maximum product size | Ø 25 mm | |
| Conveying adjustment | Vibration Intensity | |
| Self emptying | Yes | |
| Requested air extraction | Adjustable 150 - 200 m³/h - pressure drop 150 - 1500 Pa | |
| Dust extraction connection | TC ISO 1127 DN 50 | |
| Requested compressed air | 80 - 350 l/min - Min. 4,5 bar * | |
| Compressed air connection | KS4 | |
| Noise level (without product) | <70 dB (A) | |
| Power supply | 110 V to 230 V ± 10 % | |
| Frequency | 50 Hz / 60 Hz | |
| Non-Metallic Contact Parts | Tritan MX 711 - POM C - 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 | |
| Packaging | Wooden Box | |
| **Metal detector :** | **Ceia THS/PH21 N** | **Lock Insight** |
| Accuracy stainless steel | 0,40 mm | 0,50 mm |
| Accuracy ferro | 0,25 mm | 0,30 mm |
| Accuracy non-ferro | 0,30 mm | 0,35 mm |
| **Capacity / Speed exemples :** | **tablets / hour** | |
| Round Ø4 x 3,2 mm | 21.900.000 | |
| Round Ø 8 x 2,8 mm | 3.100.000 | |
| Round Ø 13 x 3,9 mm | 600.000 | |
| Round Ø16,2 x 4.2 mm | 430.000 | |
| Oblong 16 x 5 x 4,2 mm | 1.500.000 | |
| Oblong 21,3 x 10,4 x 7 mm | 330.000 | |

* Depending on options




PHARMA TECHNOLOGY

Rue Graham Bell 8
B-1402 Nivelles, BE
Tel: +32 67 70 13 00
info@pharmatec.be
www.pharmatec.be

«C» Containment
OEB3-4

«HC» High-Containment
OEB5 washable

Optional 4-P IPC Tester