iTec

PHARMA TECHNOLOGY

Innovative Stainless Steel
Tablet Deduster

Website

We believe in the art of **Innovation**

PRODUCT **OVERVIEW**

The iTec deduster combines high quality 316L stainless steel spirals with patented Flex Connect metal check technology to ensure reliable dedusting, closed transfer, and maximum compliance. Its modular continuously TIG welded segment of 275 mm allows easy dismantling, cleaning, and validation, while transparent covers and clear tower sections provide continuous visibility of the process.

For guaranteed product quality, the iTec integrates vibration-free metal detection with accuracy down to 0.4 mm stainless steel particles. The system ensures consistent performance across any tablet shapes or sizes while remaining simple to operate and maintain. Designed for user-friendly handling, automatic self-emptying, and seamless Pharma 4.0 connectivity, the iTec provides an advanced solution that combines efficiency, safety, and regulatory readiness.

- 4.0 — Industry
- Ex — ATEX
- OPC UA — Ready
- Patented
- 21 CFR Part 11 — FDA Compliant

AVAILABLE **CONTAINMENT LEVEL**

≤OEB2
Standard Dust Tight

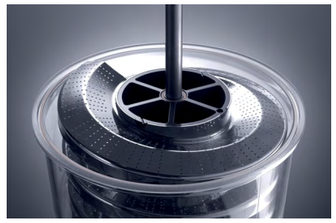
Reduces operator exposure and prevents dust contamination in the production room.

≤OEB4
Containment

For toxic products with safe disconnection, reducing PPE requirements.

≤OEB5
High Containment

For highly toxic drugs, with Washing-In-Place or Washing-Offline functionalities.



HIGH PERFORMANCE DEDUSTING

Improved process efficiency & product quality

- Continuous TIG welding for to avoid cross-contamination risk
- 100% emptying with any tablet shapes
- High throughput
- Constant long-run dedusting performance

KEY BENEFITS **IN ONE LOOK**

INTEGRATED **METAL DETECTOR**

Easy assembly & containment

- Flex Connect sleeve ensuring vibration isolation
- High-level detection of FE, NFE, and SS particles
- Auto-check for Continuous Process Verification (CPV)
- Easy product recipe creation

DUST TIGHT AS STANDARD

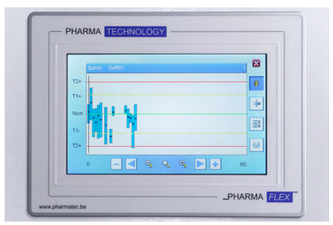
Ensures safe and clean production environment

- Prevents dust emission for operator safety
- Avoids cross-contamination
- Reduces room cleaning time
- Upgradable up to OEB5 level

ROBUST & MODULAR SEGMENTS

Durable stainless steel design for demanding applications

- Segmented 316L stainless steel spiral for strength and reliability
- Stackable 275 mm modules for flexible height adjustment
- 360° transparency for process monitoring
- Suitable for microtabs and effervescent tablets



INTUITIVE SOFTWARE

Centralized control, reporting & audit trail

- Full control through one intuitive HMI
- 180° rotating touchscreen
- Multiple sensors, including tightening sensor
- Upstream and downstream interface

cGMP DESIGN

Ergonomic design for safety and easy integration

- Engineered to avoid dead space and cross-contamination
- Strict separation between product and technical areas
- Ergonomic & compact footprint
- Fast format changeovers and easy cleaning

AUXILIARY EQUIPMENT

4-P Tester

W-T-H-L
tablet tester

Diverter

Automatic Diverter
from 2 to 12

Auto-check

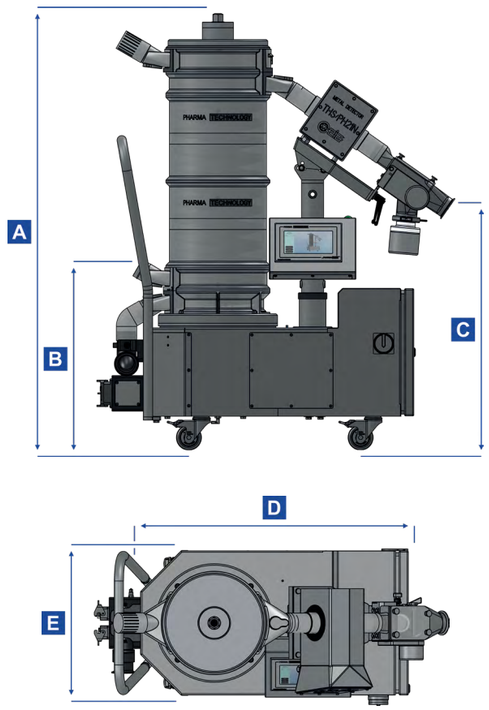
Automatic testing
for metal detector

Clip & Cut

Easy & Safe ≤OEB5
sampling system

iTec

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 m^3/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 < 0,5 µm
Frame mounted on wheels	Yes
IQ-OQ protocol	Available
Material certificates	Available
Packaging	Wooden Box



Technical data iFlex :	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	764 mm	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
Level available : Standard «DT» Dust-Tight, «C» Containment OEB3-4, or «HC» High-Containment OEB5 washable				

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 Ø 4 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

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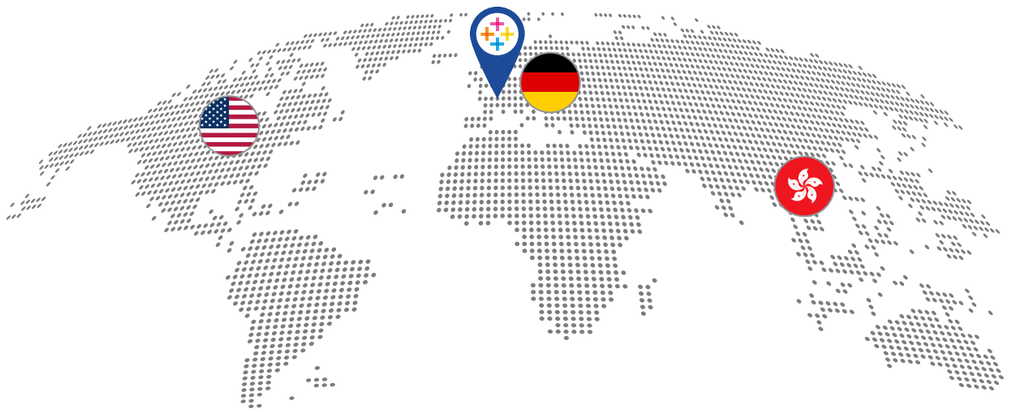

ISO9001 Certified | **8%** Invested in R&D | **12** Patents granted | **+2500** Customers

Since 1993, Pharma Technology has been a global leader in pharmaceutical and nutraceutical process equipment, specializing in tablet and capsule dedusting, polishing, metal detection, in-process control, external lubrication, and sorting solutions for the Oral Solid Dose (OSD) industry.

Thanks to long-standing partnerships with customers, we develop customized handling solutions designed to meet each company's specific production and compliance needs.

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