

iFlex

Innovative Tablet Deduster

PHARMA TECHNOLOGY



Website



We believe in the art of **Innovation**

PRODUCT OVERVIEW

The iFlex deduster combines patented dedusting technology with an integrated metal detector to guarantee product quality, compliance, and efficiency. Transparent, modular segments in Tritan Copolyester allow robustness, full process visibility, quick cleaning, and adjustable conveying heights. Its modular design also enables multiple height options, while enlarged dust extraction channels and central air jets ensure high dedusting efficiency.



Tablets are conveyed upward against a vacuum airflow, where dust becomes airborne, is extracted, and collected in a separate chamber before passing through a metal detection system. With a self-regulating vibrating base and a modular dust-tightness design, the unit is upgradable in containment level from Dust-Tight to High Containment. The iFlex is easy to operate and maintain. Fully Pharma 4.0 ready, it integrates seamlessly into digitalized manufacturing environments.

4.0

Industry



ATEX



Ready



Patented



FDA Compliant

AVAILABLE CONTAINMENT LEVEL



Standard Dust Tight

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



Containment

For toxic products with safe disconnection, reducing PPE requirements.



High Containment

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



HIGH PERFORMANCE DEDUSTING

Improved process efficiency & product quality

- Patented dedusting technology
- 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

Ensure safe and clean production environment

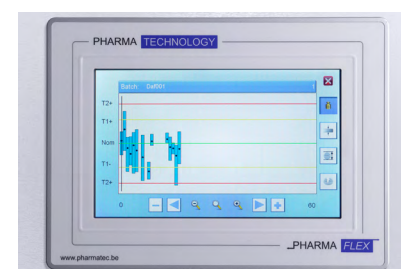
- Prevents dust emission for operator safety
- Avoids cross-contamination
- Reduces room cleaning time
- Upgradable up to OEB5 level



LIGHT & MODULAR SEGMENTS

Engineered for efficiency, easy handling and cleaning

- Seamless, impermeable FDA-compliant high-tech polymer
- Lightweight for easy assembly and disassembly (< 1kg)
- 360° transparency for process monitoring
- Highly resistant to chemical detergents & solvents



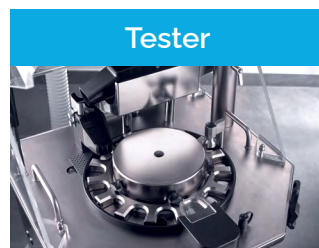
INTUITIVE SOFTWARE

Centralized control, reporting & audit trail

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

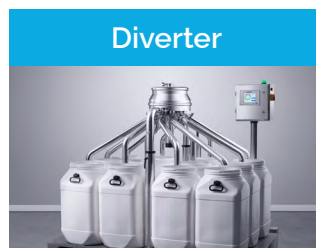


AUXILIARY EQUIPMENT



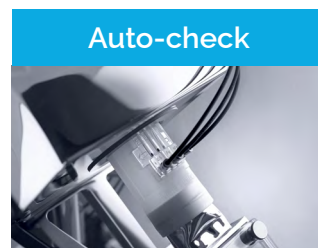
Tester

4 Parameters
tablet tester



Diverter

Automatic Diverter
from 2 to 12



Auto-check

Automatic testing
for metal detector



Clip & Cut

Easy & Safe ≤OEB5
sampling system

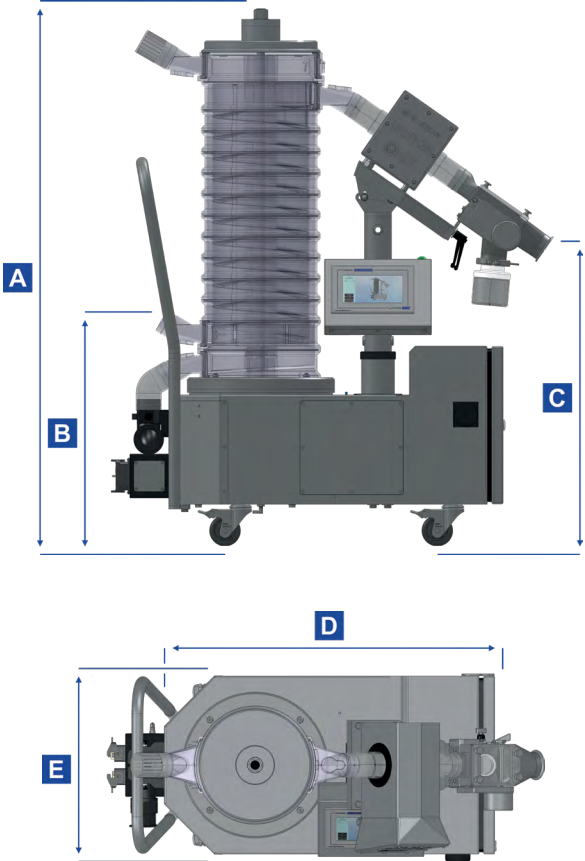


cGMP DESIGN

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

Technical data all units :	
Inlet chute	Flex Connect © (Ø56,3 mm)
Outlet chute	TC ASME BPE 2,5"
Minimum product size	Ø 4 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)	<68 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

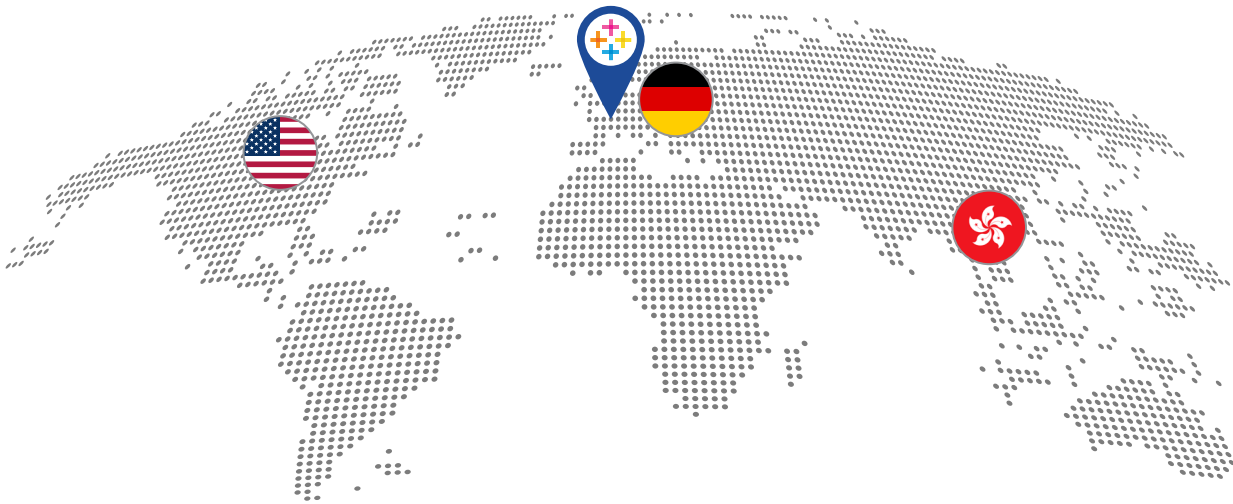


Technical data iFlex :	500	750	1000	1250	1500
Total height (A)	1361 mm	1636 mm	1911 mm	2186 mm	2461 mm
Inlet height (B)	579 mm	579 mm	579 mm	579 mm	579 mm
Outlet height (C) Ceia	763 mm	1038 mm	1313 mm	1588 mm	1863 mm
Outlet height (C) Lock	779 mm	1054 mm	1329 mm	1604 mm	1879 mm
Floor dimensions (DxE)	860 mm x 470 mm	860 mm x 470 mm	860 mm x 470 mm	860 mm x 470 mm	860 mm x 470 mm
Net weight (+/- 5Kg) Ceia	235 Kg	240 Kg	246 Kg	252 Kg	258 Kg
Gross weight (+/-10Kg) Ceia	275 Kg	280 Kg	286 Kg	292 Kg	298 Kg
Net weight (+/- 5Kg) Lock	231 Kg	237 Kg	242 Kg	248 Kg	254 Kg
Gross weight (+/-10Kg) Lock	271 Kg	277 Kg	282 Kg	288 Kg	t294 Kg
Containment 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 Ø4 x 3,2 mm	18,900,000
Round Ø8 x 2,8 mm	3,000,000
Round Ø13 x 3,9 mm	600,000
Round Ø16,2 x 4,2 mm	400,000
Oblong 16 x 5 x 4,2 mm	1,200,000
Oblong 21,3 x 10,4 x 7 mm	300,000

* Depending on options



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.

CONTACT **US**

Pharma Technology HQ	Pharma Technology Germany	Pharma Technology America	Pharma Technology Asia - Pacific
Rue Graham Bell 8, B-1402 Thines (Nivelles) Belgium Tel: +32 67 70 13 00, info@pharmatec.be	Gausstrasse 36 D-21502 Geesthacht Germany Tel: +49 15 90 44 12 686 info@pharmatec.be	56 W. Ethel Rd, Suite3 Piscataway NJ 08854 USA Tel: +1 973-668-3197 info@pharmatec-inc.com	Unit 01, 15/F, Jupiter Tower, 9 Jupiter Street Fortress Hill Hong Kong Tel: +852 92426421 info@pharmatec.be

