

Feeding and dedusting device

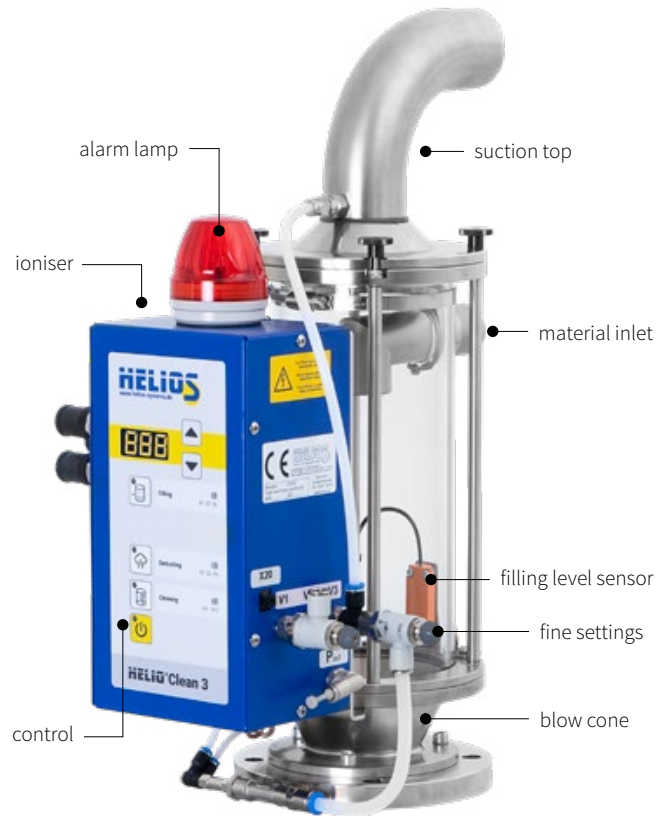
The new HELIO®Clean-3 feeding and dedusting device was especially developed for injection moulding process with small to medium size throughputs and is sophisticated to be mounted directly on an **injection moulding unit**, a **drying container** or a repositioning adapter.

- ▶ small size and effective
- ▶ compact / lightweight
- ▶ simply operating
- ▶ special glass construction
- ▶ 1 or 2 components version
- ▶ optimal price / performance ratio
- ▶ air shifting by ion shower
- ▶ sifter cleaning with ions

material throughput up to 25 kg/h*

*depending on the bulk material and the required dedusting degree. Example related to PMMA/PC/COC/COP

HELIO®Clean 3 basic element



Conveying venturi suction lance



type		short	long
suction lance length		380 mm	810 mm
conveying hose set	standard	3 m DN 32	3 m DN 32
conveying hose set	optionally	5 m DN 32	5 m DN 32

suction lance: stainless steel suction lance according to Venturi principle, adjustable ambient air suction and suction protection.

conveying hose set: conveying hose with compressed air line

Separation dust collection container

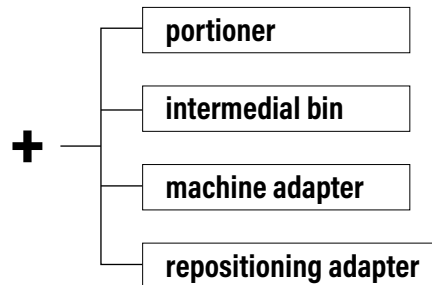


dust collection container	5,5 liter	16,5 liter
Höhe	300 mm	470 mm
Staubabfuhrleitung	5 m DN 50	5 m DN 50

The removed dust is separated in a dust collection container. The integrated exhaust air filter ensures dust-free ambient air.

Basic unit HELIO®Clean-3

- ① HELIO®Clean-3 sifter basic element
- ② venturi suction lance + conveying hose set
- ③ dust removal hose
- ④ dust collection container



Element 1 portioner



The HELIOS portioner enables a reproducible, always the same size dedusting portion with controlled transfer to a downstream (drying) container.

Optional portioner also available for regrind.

virgin material portioner

usable without intermedial ring for:

- HELIOS intermedial bin 0,5 liter
- HELIOS drying container 6 / 12 liters

usable with intermedial ring for:

- HELIOS drying container 18 – 75 liters
- HELIOS intermedial bin 5,0 liters
- third-party drying container from 132 mm inlet upwards

Element 2 intermedial bin



0,5 liter
height 87 mm



5 liter
height 225 mm

mounting on a processing machine / repositioning adapter

- intermedial bin 0,5 liter
- intermedial bin 5 liter

Element 3 machine adapter



Machine adapter with claw guides for mounting on a processing machine / repositioning adapter.

Dust-tight, polished outlet flat sliding guide, lockable, 4x90° adjustable.

L-sliding guides for sliding rails [mm].
80×15 | 80×20 | 100×20 | 100×25 |
special sizes on request

Element 4 repositioning adapter



adaption to conveying systems

The repositioning adapter is a compact device to adapt a HELIO®Clean-3 set to an existing conveying system.

Set 1

- HELIO®Clean-3 basic element
- intermedial bin
- machine adapter



Set 2

- HELIO®Clean-3 basic element
- portioner
- intermedial ring



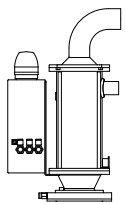
Set 3

- HELIO®Clean-3 basic element
- portioner
- intermedial bin
- machine adapter



Set 4

- HELIO®Clean-3 basic element
- portioner
- intermedial bin
- machine adapter
- repositioning adapter



HELIO®Clean-3
basic element

+

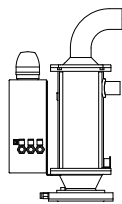


intermedial bin 0,5l

+

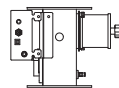


machine adapter



HELIO®Clean-3
basic element

+



portioner

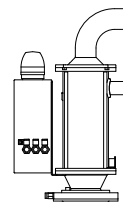
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intermedial ring
(optional)

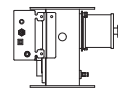
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Trockenbehälter



HELIO®Clean-3
basic element

+



portioner

+

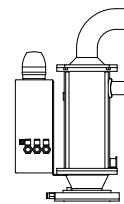


intermedial bin 0,5l

+

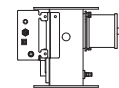


machine adapter



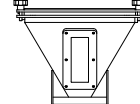
HELIO®Clean-3
basic element

+



portioner

+



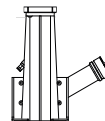
intermedial bin 0,5l/5l

+



machine adapter

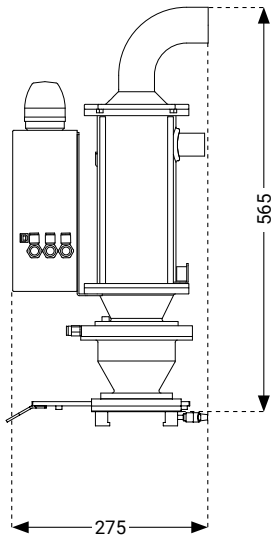
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repositioning adapter

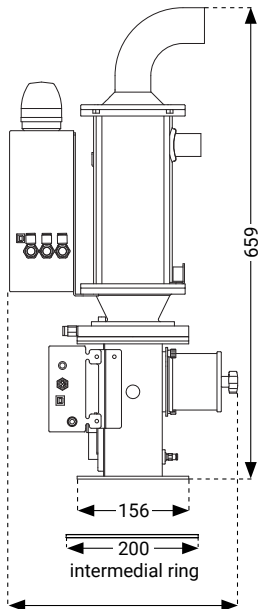
Set 1

- ▶ HELIO®Clean-3 basic element
- ▶ intermedial bin
- ▶ machine adapter



Set 2

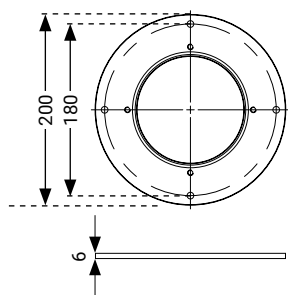
- ▶ HELIO®Clean-3 basic element
- ▶ portioner
- ▶ intermedial ring



intermedial ring

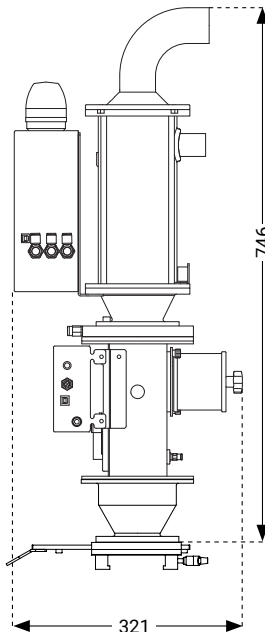
for mounting on

- 0,5 l intermedial bin
- or 18/20/30/50/75 liter drying container



Set 3

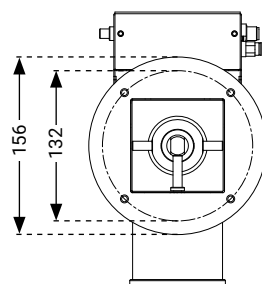
- ▶ HELIO®Clean-3 basic element
- ▶ portioner
- ▶ intermedial bin
- ▶ machine adapter



portioner

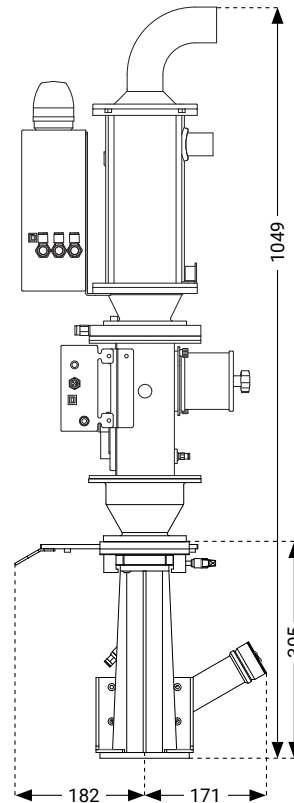
for mounting on

- 0,5 liter intermedial bin
- 6 / 12 liter drying container

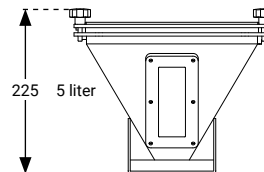
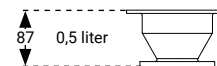


Set 4

- ▶ HELIO®Clean 3 basic element
- ▶ portioner
- ▶ intermedial bin
- ▶ machine adapter
- ▶ repositioning adapter



intermedial bin



HELIO®Clean 3 basic element

sifter (optional)	special glass, Al-nickel plated special glass, stainless steel hardened
conveying line	DN32 stainless steel, PUR-H
dust collector	steel, powder coated
material throughput	max. 25 kg/h*
dedusting portion	0,38 - 0,5 liter
conveying line	DN 32
conveying height	max. 8 m
electrical connection	~ 100 - 240 V AC, 50/60 Hz
power consumption	max. 20 W
pneumatic connection	min. 6 bar, 3/8"
compressed air quality	max. oil content ≤ 0,01 mg/m ³
temperature range	0 - 40 °C

* depending on the bulk material to be dedusted and the required dedusting degree

HELIO®Clean-3 modular elements

portioner	stainless steel, max. 150°C
intermedial bin 0,5 liter	Al, nickel-plated
intermedial bin 5 liter	stainless steel
machine adapter	steel nickel-plated / stainless steel
repositioning adapter	stainless steel

machine adapter

Machine adapter with claw guides.

Dust-tight, polished outlet flat sliding guide, lockable, 4x90° adjustable.

L-sliding guides for sliding rails [mm]:

80×15 | 80×20 | 100×20 | 100×25 |

special sizes on request