

# HELIX CORE

Automatic Lifting,  
Dedusting and Polishing of  
Tablets & Capsules & Softgels



SENSUM



*Computer  
Vision  
Systems*

# HELIX CORE

Automatic Lifting, Dedusting and Polishing of Tablets & Capsules & Softgels

**HELIX CORE** is a machine for vertical lifting, dedusting and polishing of tablets, capsules and softgels of various shapes and sizes. The products are conveyed in gentle manner to different heights at adjustable speed, controlled via user friendly graphical interface.

Compact, mobile and modular design makes **HELIX CORE** ready to use in a wide variety of production and packaging processes (e.g. tablet pressing or coating, capsule filling or weighting, metal checking, blistering, bottle filling) with simple cleaning and low maintenance.

## CONVEYING HEIGHT:

650 - 2900 mm  
(2 - 11 segments)

## PRODUCT INPUT:

Direct input or from **HELIX CORE** product container.



## TECHNICAL DATA



### ELECTRICAL CONNECTION

230V, 1/N/PE,  
10A, 50/60Hz



### COMPRESSED AIR

4-6 Bar  
60 Nm<sup>3</sup>/h



### CLIMATES (EXHAUST AIR)

200 Nm<sup>3</sup>/h min,  
100-200 mBar



### NOISE LEVEL

< 70 dB



### DIMENSIONS L x W x H

L, W = 700 mm  
H = 3100 mm  
(11 segments)



### WEIGHT

~ 130 - 190 kg



### CONSTRUCTION

CE, GMP, FDA  
acceptable  
materials

## USER FRIENDLY DEVICE

- Autonomous operation
- Compact and mobile
- User friendly graphical interface
- No product specific format parts
- Ergonomic tool-free design
- Simple cleaning and low maintenance

## CONVEYING CAPACITY



### ROUND TABLETS

Ø7 × 3 mm

5.000.000 products/hour



### OBLONG TABLETS

16 × 9 × 6 mm

500.000 products/hour



### CAPSULES

size 3 - Ø6 × 16 mm

600.000 products/hour



### SOFTGELS

7 oval - Ø4 × 7 mm

700.000 products/hour

Conveying capacity depends on type and size of product.

## USE OF HELIX CORE MACHINE

### INLINE PERIPHERALS

**HELIX CORE** can be connected to inline peripherals such as metal detectors, empty capsule detectors, diverter switches, etc.

### CONTAINMENT SOLUTION

**HELIX CORE** can be used for contained automatic lifting, dedusting and polishing of highly potent products.

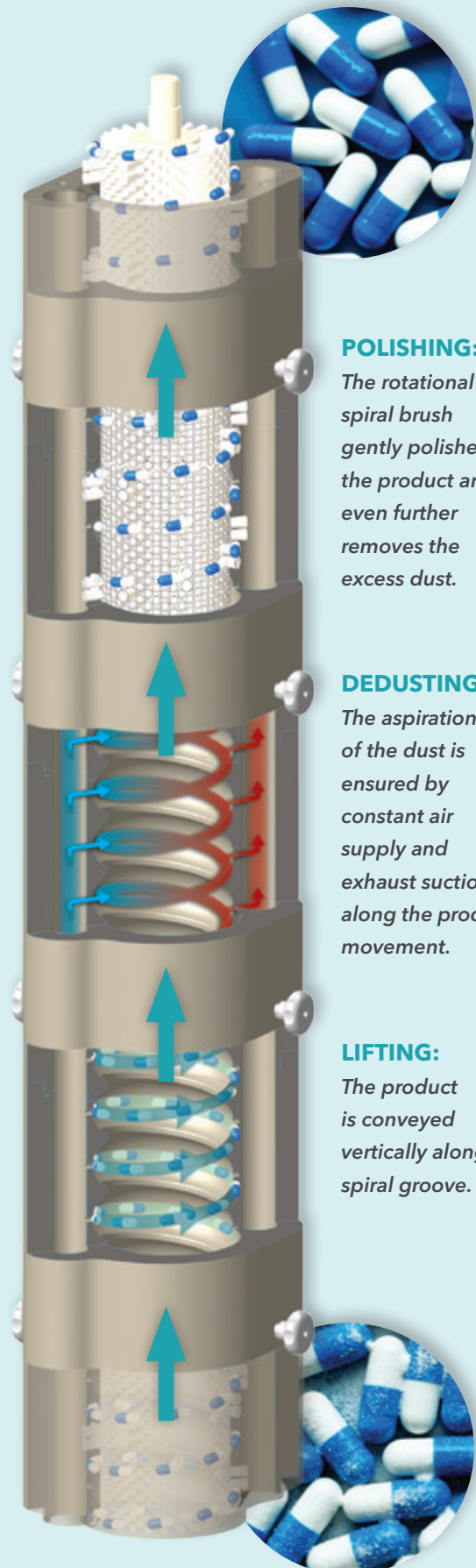
### INLINE WITH SENSUM SPINE INSPECTION MACHINE

**HELIX CORE** integration with Sensum **SPINE** inspection machine enables autonomous quality control of pharmaceutical products.



## FUNCTIONALITY

**HELIX CORE** simultaneously lifts, dedusts and polishes any type of tablet, capsule or softgel.



### POLISHING:

The rotational spiral brush gently polishes the product and even further removes the excess dust.

### DEDUSTING:

The aspiration of the dust is ensured by constant air supply and exhaust suction along the product movement.

### LIFTING:

The product is conveyed vertically along spiral groove.



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Tehnološki park 21  
1000 Ljubljana  
Slovenia, EU

[www.sensum.eu](http://www.sensum.eu)  
[info@sensum.eu](mailto:info@sensum.eu)



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**ABOUT SENSUM:**

We develop, produce and sell innovative automatic visual inspection solutions in pharmaceutical industry. We have a strong R&D cooperation with the Imaging Technologies Lab, Department of Electrical Engineering, University of Ljubljana to keep in touch with the latest scientific developments.