

KD70DT
Series



Table with 7 columns: Model (KD7010), Weight, Outlet height X, Overall height Z, Ø Tablet inlet/outlet, Suction port, and values for sizes 250, 500, 750, 1000, 1250, 1500.

Table with 7 columns: Model (KD7015A), Weight*, Outlet height Y*, Overall height Z, Ø Tablet inlet/outlet, Suction port, and values for sizes 250, 500, 750, 1000, 1250, 1500.

*Values depend on the selected metal detector

Conveying Capacity (all conveying ranges)

Table with 2 columns: Round Ø size and Conveying Capacity (tablets/hr).

Processable tablet thickness: 2 mm and above (standard version)

Optional: Special version available for thinner tablets

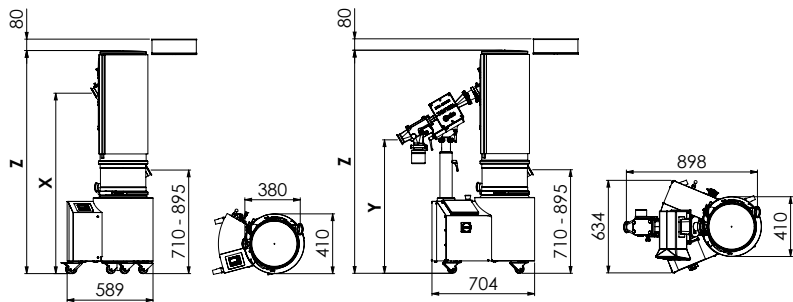


Table with 5 columns: Model (KD7030), Weight*, Outlet height X, Overall height Z, Ø Tablet inlet/outlet, Suction port, and values for sizes 400, 800, 1200, 1600.

Table with 5 columns: Model (KD7035A), Weight*, Outlet height Y*, Overall height Z, Ø Tablet inlet/outlet, Suction port, and values for sizes 400, 800, 1200, 1600.

*Values depend on the selected metal detector

Conveying Capacity (all conveying ranges)

Table with 2 columns: Round Ø size and Conveying Capacity (tablets/hr).

Processable tablet thickness: 3 mm and above (standard version)

Optional: Special version available for thinner tablets

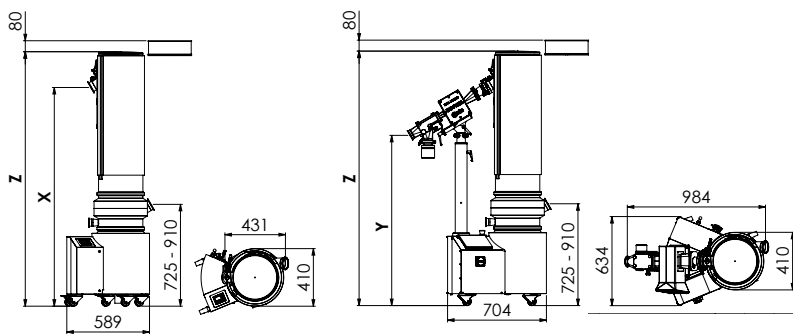


Table with 3 columns: KD7015A/35A Metal detector type, CEIA N DT (100x40), Lock Insight DT (95x38), and values for Ferrous (Fe), Non-Ferrous (70Cu30Zn), and Stainless Steel (AISI316).

Table with 2 columns: Technical Data and values for Power supply, Maximum current, Compressed air, Air extraction, Noise emission, Protection rating, Explosion protection, OEL Level, and Filter cartridge.



KRÄMER, THE SWISS ORIGINAL SINCE 1975

Krämer AG specializes in dedusting, conveying, capsule polishing and handling equipment for the pharmaceutical, nutraceutical and vitamin industries. Since Krämer's invention of the first vertical vibratory tablet deduster more than 45 years ago, the company has developed innovative equipment for customer-specific applications, and produced many industry firsts which have now become standards for every Krämer machine. In cooperation with tablet press, capsule filling and packaging line manufacturers, we have developed machines to address increasingly potent drug products which require dust tight (DT), containment (C), and high containment (HC) for certifiable operator protection. Our KD70DT and WIP Series is SMEPAC certified and meets the required ATEX guidelines. For standard applications we offer our KD60 Series, which also has our patented drive unit and can be equipped with a metal detector from various manufacturers.

More than 10'000 Krämer dedusters and capsule polishers ensure a smooth daily operation in pharmaceutical plants. Multinational to regional manufacturers of tablets and capsules appreciate the quality and reliability of our products.

Krämer AG Switzerland
Grindelstrasse 23
CH-8303 Basersdorf
Phone +41 44 838 44 66

Kraemer US, LLC
240 West Crescent Avenue
Allendale, New Jersey 07401, USA
Phone +1 201 962 8200

Krämer AG (Switzerland) China Office
Room 2601, Block D, No. 80 Caobao Rd.
Xuhui District, Shanghai 200235, China
Phone +86 138 1841 6666

www.kraemerag.ch



Truly Swiss Made



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KD70DT
Series

FOR THE
CLEANEST
TABLETS



The Swiss Original since 1975.

EVERYTHING AT A GLANCE

PROCESS VIEWING



- The KD70DT Series features a PETG dust tight, hinged, lift off window for optimal process viewing and ease of access to the helix for easy removal for cleaning
- The window is gasketed for dust tightness to meet OEB3 and OEB 4 hazardous dust requirements
- In addition, dust agitation compressed air nozzles are supplied for the cleanest tablets possible

METAL DETECTION



- Compact combination unit of deduster and dusttight metal detector from Ceia or Loma/Lock
- All metal detectors offer best in class calibrated detection levels for the detection of ferrous (FE), non-ferrous (NFE) and stainless steel (SS) particles in tablets
- Total electrical integration with the deduster for transmitting metal detector signals to the tablet press

CONTAINMENT AND ATEX



- The KD70DT Series dedusters have been independently tested and certified to meet OEB 3 and OEB 4 containment levels in accordance with ISPE – SMEPAC requirements as well as the EC Machinery Directive 2006/42/EC and Directive 94/9/EC (ATEX-95)
- Optional HEPA filters M-class are available to meet both certifications



CONNECTION PORTS



- 2 inch Tri-Clamp vacuum dust collection port with optional hose adaptors for ease of assembly of a dust collection hose
- The quick connect plug allows for use of preassembled cables with power supply as well as signal wire options for communication to upstream equipment such as tablet presses
- The base contains a lockable gas strut which allows easy vertical adjustment of the deduster to meet the press outlet height

DRIVE SYSTEM



- The KD70DT Series vibratory drive features the Krämer patented counterweight system which allows for operation of the deduster with no vibration being transmitted to up stream or down stream equipment
- Because of the counterweight the machine is extremely quiet, low maintenance and allows for precise vibration control which is extremely gentle on the tablets
- The silicone membrane prevents dust from entering the vibratory drive unit

INLET



- The tablet inlet can be rotated 360° with no tools, independent of the tablet outlet
- With the use of an optional rectangular tablet inlet 110 x 70 mm and various inlet adapters, the deduster can be easily adapted to the outlet configurations of different tablet presses
- If the adapter is not being used, a hose can directly be attached to the Tri-Clamp inlet



OPERATOR INTERFACE



- The stand-alone deduster KD7010 and the KD7030 use the frequency converter KC7020 with LCD screen. The operator can turn the machine on and off, and choose the necessary conveying speed to operate with the tablet press



- The combined units KD7015A and KD7035A use the KC7070A touchscreen controller, which displays the deduster, metal detector and diverter (if equipped) operating settings and parameters in one location for ease of operation



- The remote control function of both controllers allows connection and operation through the tablet press controls if so equipped, and the KC7070A has an optional M2M OPC UA interface via TCP/IP. This communication protocol between the tablet press and deduster enables the exchange of machine alarms, status, and various deduster functions, as well as the integrated VNC server for remote access for diagnostics



MAIN FEATURES

- KD7010 and KD7015A available in conveying heights from 250 to 1500 mm, in 250 mm increments
- KD7030 and KD7035A available in conveying heights from 400 to 1600 mm, in 400 mm increments
- Upward conveying of tablets with diameter 3 - 25 mm resp. 35 mm by means of continuously adjustable vibration
- Optional application for conveying mini/micro tablets from Ø 1.5 mm
- Designed according to cGMP specifications
- Lowest noise level < 68 dB
- Compact combination of dusttight deduster and metal detector for minimal footprint
- Deduster on telescopic column for flexible adjustment of tablet inlet height
- Classification: Atex Zone II 2D/-Db 140 °C
- Certification: OEB4 (1 µg/m³ to < 10 µg/m³) acc. SMEPAC with optional HEPA filter M-class
- Easy assembly and disassembly, no tools are needed
- Easy cleaning

AVAILABLE VERSIONS OF THE KD70DT SERIES



AVAILABLE OPTIONS



KV2010/2020 DIVERTER

manual or automatic 2-way dust tight diverter used for continuous filling of containers with tablets



V4000/5000 DIVERTER

automatic 2- to 12-way dust tight diverter used for continuous filling of containers with tablets



KT2010 MD TESTER

insertion device for metal detector test tablets without breaking containment (C)