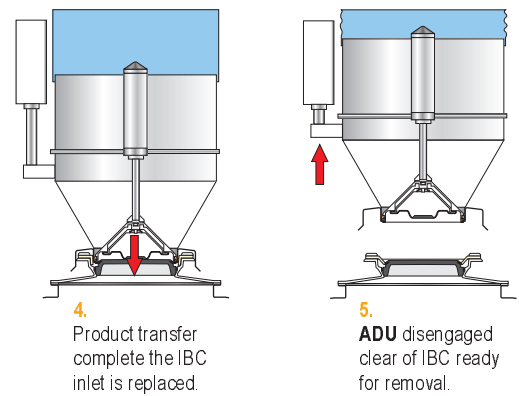
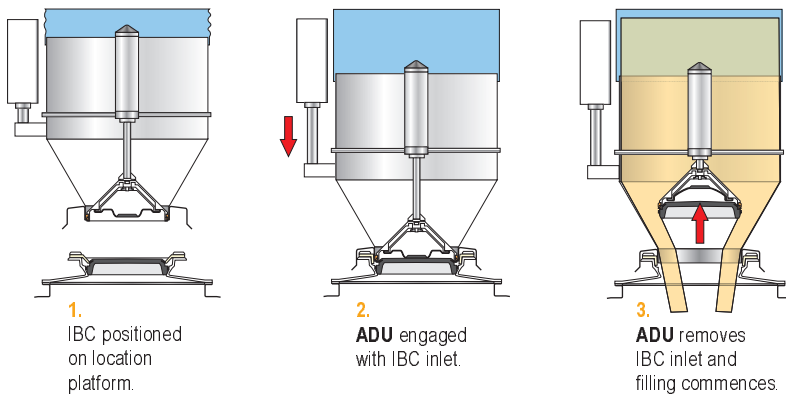


# AUTOMATIC DOCKING UNIT (ADU)

**General:**

The Automatic Docking Unit (ADU) is part of the unique Matcontainer range of equipment for the processing, storage and distribution of solids. It enables the automatic contained transfer of materials from bulk storage and process vessels to IBCs without operator intervention to remove and replace lids.



**Operation:**

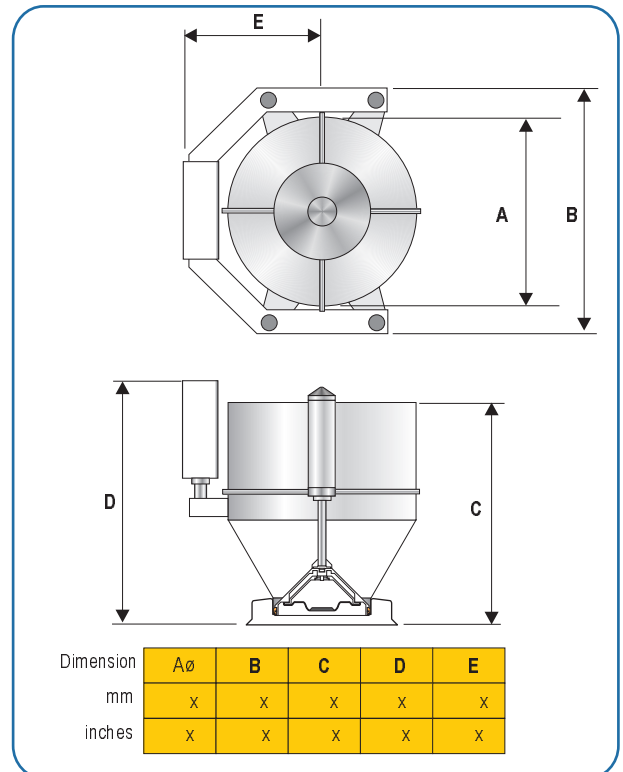
The ADU is mounted below some powder process point and connected to it via a flexible connection. An IBC fitted with a special lid is placed under the ADU. When the docking sequence is initiated the ADU lowers to engage with the lid in the IBC. A cone valve located in the ADU outlet forms a dust tight "alpha-beta" connection with the IBC lid using a sealed vacuum system. The cone valve and lid combination is then lifted internally creating a generous annulus for material to flow through to the IBC from the process above. When product transfer is complete an airwash is conducted to clean the interface surfaces of powder before replacing the lid into the IBC inlet and finally disengaging the ADU from the IBC. (Air displaced from the receiving IBC and from the airwash process must be vented, ideally back into the process overhead).

**Cleaning:**

The ADU may be manually dry cleaned by first brushing then wiping or washing internal surfaces. This may be done while in-situ (using access steps or platform or other means). Alternately the ADU may be disconnected from services and removed using a forklift cradle for cleaning off-line. In some circumstances it may be possible to integrate the ADU into an automated CIP system.

**Options:**

IBC weigh platform and ADU support framework to monitor weight of product transferred and avoid overfilling.



This information and data is provided for illustrative purposes only and does not form part of any contract or agreement. The information and data may be updated and changed from time to time.

**POWDER HANDLING SYSTEMS**

**TABLET HANDLING SYSTEMS**



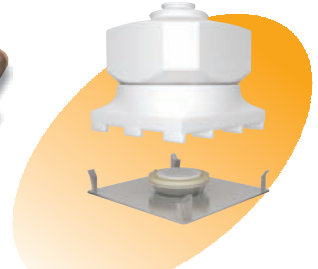
Intermediate Bulk Containers (IBCs)



IBC Discharge Stations



IBC Filling Systems



Bulk Tablet IBC and Tablet Discharge Stations



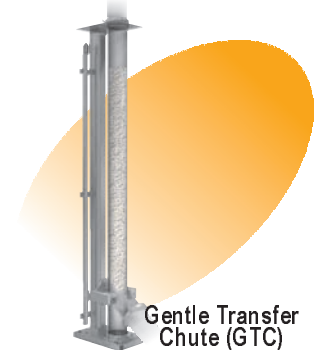
IBC Blenders



IBC Washing



Silo / hopper Discharger Valves



Gentle Transfer Chute (GTC)

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