

Defender Series Core Chucks

Model AA (Axial Activated)



Introduction

This manual is included with Montalvo's model AA Axial Activated mechanical core chucks as part of the documentation. Product characteristics, correct usage, normal maintenance and assembly/disassembly are covered. Please retain this document for the life of the product.

Technical Characteristics

Axial Activated mechanical core chucks are expanding type. Carbon steel construction ensures a durable product with a long life. Lugs are heat treated, allowing them to safely handle significant weight and torque. Expansion occurs with the axial pushing of the cardboard core onto the flange of the chuck's cage. The required force to expand the jaws varies from size to size (custom specifications are available).

Features

- Optimal grip
- Durable construction for the heaviest loads and longest duty cycles
- Many custom specifications available

Usage

Axial Activated mechanical core chucks are designed and built to be used in many industries such as paper, cardboard, plastic films, converting, coating, laminating and printing on machines like:

- Roll Stands
- Unwinders
- Rewinders

Jaw expansion is designed to activate with an axial motion on the flange of the chuck's cage and/or on the flange of the E-Flange core ejection option.

Defender AA core chucks are designed to be mounted on machines mentioned above using hexagon socket head screws. Customer specified flange dimensions ensure a fast installation with little or no machine alterations. Any other explicit customization requested has to be approved by the customer, and Montalvo is responsible only in case of a production failure and/or error according to customer's design.

Heat treated components reduce mechanical wear and extend product life. The nickel plating option enhances resistance to wear and corrosion.


Montalvo is not responsible for any customization done by the customer.

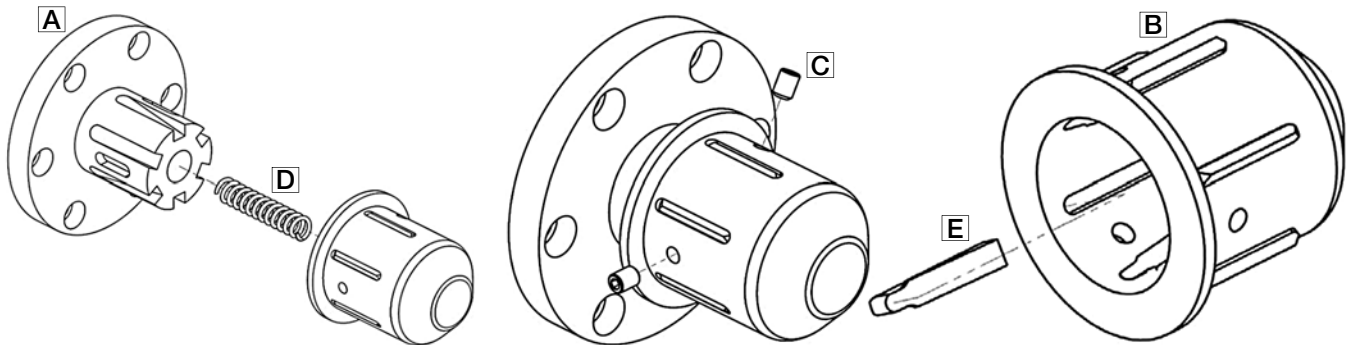
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Maintenance


Montalvo recommends inspecting and a general cleaning of the chucks every month. In particular, it is recommended to clean the chucks of any dust, fibers or dirt with compressed air to ensure optimal functioning. It's a good practice to perform more detailed cleaning of the chucks at regular intervals.

 If the lugs become worn and unable to grip as desired, they must be changed.



Disassembly

- 1 Lay the chuck, **flange A** down, on the surface of a drill press (Caution - remove any bits from drill press chuck).
- 2 Push the **cage B** with the drill press to fully compress the chuck. Use cloth to help seat (and protect the finish of) the chuck. *Axially push the cage to avoid accidental release of the compressed spring.*

 If you have chucks with the E-Flange ejection option: first remove the screws and the cylindrical pins from the E-Flange, then follow instructions **3** and **4**:

- 3 Remove **screws C** and gently release the compression of the pillar drill, in order to let the **spring D** decompress.
- 4 Pull the cage up to remove it.

Assembly

- 1 Lay the chuck, **flange A** down, on the surface of a pillar drill and remove any tool from the spindle.
- 2 Insert the **spring D** in the bore of the hub and **lugs E** in their vents on the **cage B**.
- 3 Fix the lugs using magnets placed on the sides of the lugs outside the cage.
- 4 Gently rotate the cage, to avoid dropping the lugs, and insert it on the hub; match tapped holes for screws (on the cage) and holes for sliding the screws on the hub.
- 5 Push the **cage B** with the pillar drill to fully compress the chuck. Use cloth to help seat (and protect the finish of) the chuck. *Axially push the cage to avoid accidental release of the compressed spring.*
- 6 Tighten the screws on the cage, applying a few drops of thread lock.