

AIR FLOAT CUT-OFF
WITH HORIZONTAL TRAVELING AXIS



FOX[®] Air Float Cut-Off

with Horizontal Traveling Axis

Fox[®] grinding and cutting equipment has proven reliability and offers the most productive casting finishing equipment for the rugged, dirty foundry environment. Designed for maximum up time with the highest quality components, Fox[®] equipment has innovative designs that are assembled and arranged for easy service.

The Fox[®] Air Float Cut-Off machine is ideal for gate, runner and riser removal on small to medium size castings, or removing castings from trees. With quick and easy fixture change over, the Air Float system excels at cutting castings produced in small to medium runs. The machine is also well suited for processing castings that are too heavy for operators to handle, as the air float feature makes moving several hundred pounds almost effortless.

Along with fast positioning of large parts, the Air Float Cut-Off Machine incorporates a vacuum hold-down system for the casting gondola. An alignment laser is used to provide quick alignment of the cut path. The gondola can be repositioned after each cut or left in position for processing of the many of the same part number.

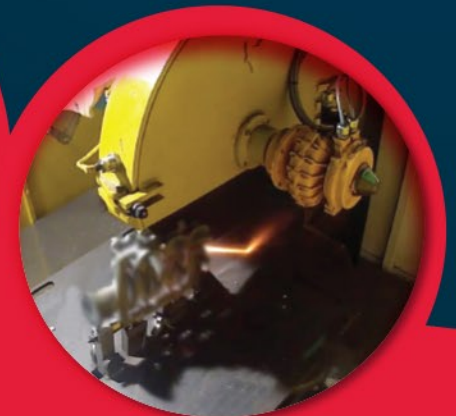


Model No.	Wheel Size	Wheel Speed	Motor	Area of Travel	Table Size
2PMCDH-AF	30 in x ¼ in x 1 ½ in (760 mm x 6 mm x 38 mm)	14,200 SFPM at 30 in (72 m/s at 750 mm)	40 HP (30 kW)	32 in Horizontal	6 ft x 6 ft (1.8 m x 1.8 m)
4PMCDH-AF	24 in x 3/16 in x 1 in (600 mm x 5 mm x 25 mm)	14,200 SFPM at 24 in (72 m/s at 600 mm)	40 HP (30 kW)	20 in Horizontal	6 ft x 5 ft (1.8 m x 1.5 m)
6PMCDH-AF	20 in x 3/16 in x 1 in (500 mm x 5 mm x 25 mm)	14,200 SFPM at 20 in (72 m/s at 500 mm)	40 HP (30 kW)	20 in Horizontal	6 ft x 5 ft (1.8 m x 1.5 m)

**Features and options subject to change without notice*

The Air Float Cut-Off with Horizontal Traveling Axis is a specially designed cut-off system that provides control of the saw with joysticks from a Control Panel located outside of the machine enclosure.

Standard Air Float Cut-Off machines allow easy cutting with vertical movement of the saw and manual operation. However, this model provides vertical saw travel as well as horizontal travel to move the saw forward and backward, all powered by hydraulics. The Cut-Off saw incorporates a hydraulic down-pressure system to efficiently cut risers and/or gates from a variety of castings. Hydraulic down force provides for quicker, cooler cuts with less blade wear.



Specifications

Spindle: sealed cartridge style bearings, safety guard with hinged opening for maintenance access.

Backbone: heavy-duty structural steel, balance for ease of use, can be manually or hydraulically operated.



Travel Controls: System is hydraulically actuated by controls for both vertical and horizontal motion. Two joystick controls are located at the operator panel.

Air Float Table: Table is heavy-duty construction and Blanchard ground. The table can be turned over if worn or damaged, or completely replaced. Incorporated with the Pneumatic/Vacuum system. Emergency kick switch tied to E-Stop for greater safety.

Casting Gondola: Stabilized with 3 floatation pads. Optional tooling can be purchased and can incorporate clamping system components.



Hydraulic Unit: 10 HP (7.5 kW) Multi-station manifold with pressure gauge and relief valve.

Pneumatic/Vacuum System: Foot operated electric control pedal for floatation to keep hand free for gondola movement. Pneumatics allow the gondola to float for easy movements, the vacuum system secures the gondola to the table during cutting.

Rotating Wheel Safety Guard: The wheel cover is closed anytime the operator is not standing on the mat behind the operator panel. This feature allows the operator to move or change parts without stopping the saw.



Laser Alignment System: Low-power laser mounted on the wheel guard for easy alignment of cut-off wheel. Laser is visible while operator has the vacuum system foot switch depressed.



Enclosure: Right and left sides have hinged steel doors for easy access to the cut-off machine, generally for maintenance. The front door is supported on overhead rails. The door has a Lexan window with an easily replaceable Plexiglas splatter shield. The backside of the enclosure has an opening for the horizontal travel. Opening around horizontal travel function is enclosed to minimize the amount of swarf that escapes into the surrounding area. Top of enclosure will have a standard flanged round connection for dust extraction.

Options

Clamping System & Tooling

- Manual clamping
- Hydraulically actuated clamping
- Customer designed fixtures to securely nest castings
- Where practical and available, replaceable stops/rests will be incorporated into the tooling design



MORE SOLUTIONS

VULCAN CAN ACCOMMODATE ALL OF YOUR METAL REMOVAL NEEDS

Standard Air Float Cut-Off Machine

Standard Air Float Cut-Off machines offer the same convenience of using the gondola to easily move heavy castings, with manual saw movement. For more information such as photos, video and brochure, visit our website or scan the code below.



Other Cut-Off Machines

Fox® provides several models of Swing Frame, Table-Mounted and Post-Mounted Cut-Off Machines for fast, clean metal removal. Visit our website to see the full line of Fox® Cut-Off machines.



Automated Solutions

Vulcan also offers automated solutions like Robotic Finishing Cells for highly efficient metal removal. If you are interested in robotic integration, visit our website or scan the code below.



Visit our website for more information at www.vulcangroup.com