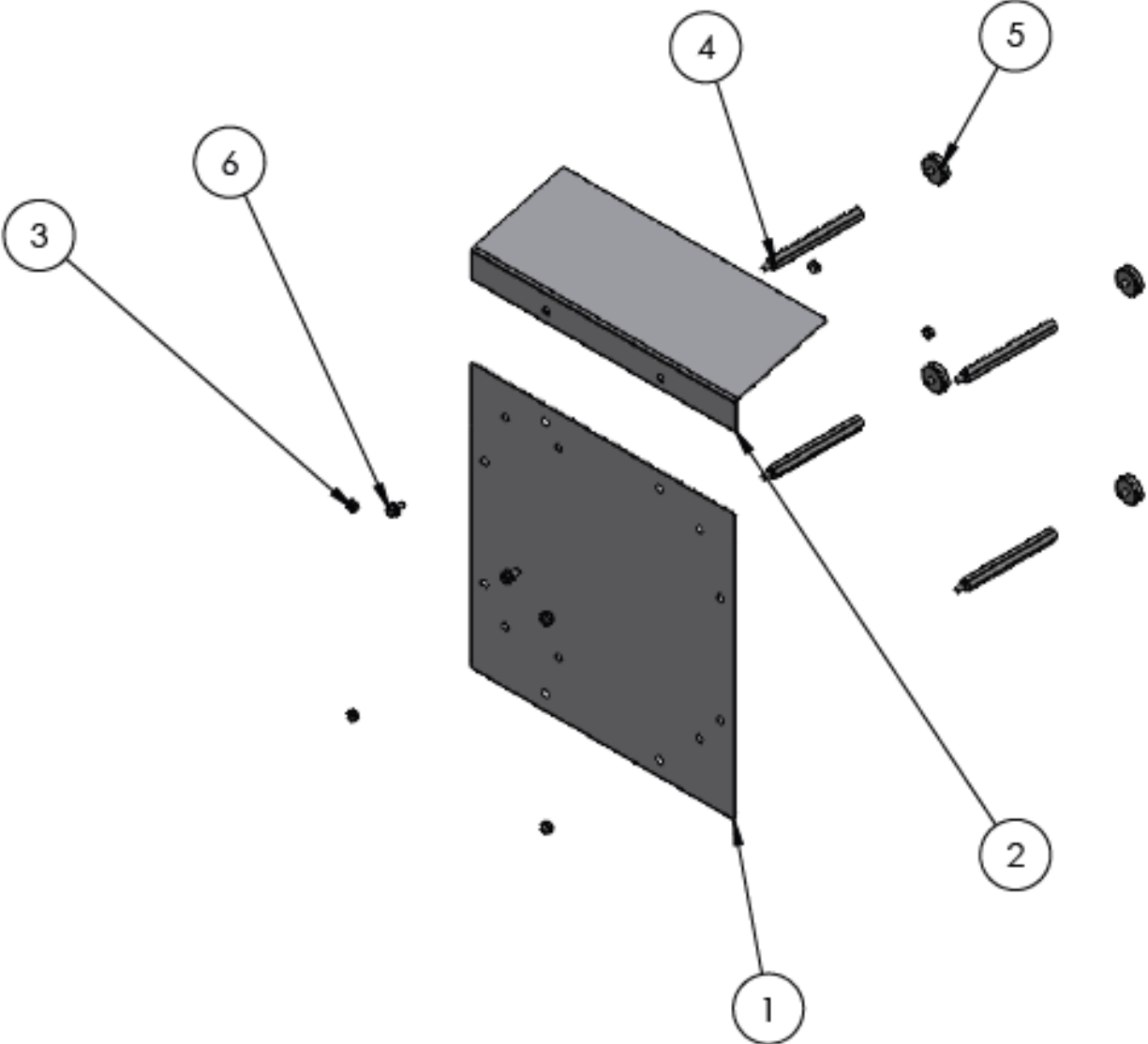


# BAFFLE SIZING AND INSTALLATION GUIDE



## BAFFLE INSTALLATION LOCATION REQUIREMENTS

1. The baffle cannot be installed in a location subject to a pinwheel of coolant caused by a rotating spindle or from coolant impact on a surface.
2. The baffle cannot be installed where spray from a nozzle or its resulting splash could enter the baffle. A nozzle is never allowed to be pointed toward the baffle.
3. The baffle must be installed such that it can deflect any additional spray that may come towards it.
4. Wall mounted baffles must be sealed on their uppermost edge.
5. Ceiling mounted baffles must be sealed on the edge closest to the spindle

**Failure to comply with these installation requirements can result in immediate filter failure.**

## BAFFLE DESIGN

A baffle **MUST** decrease the inlet air speed to the mist collector below 10 mph. The bigger the baffle, the better it works.

Refer to Figure 1 for the dimensions required to calculate the air speed in MPH for a baffle used on a mist collector with a given CFM.

Refer to Figure 2 for a chart displaying the MPH at a given CFM for a particular baffle size.

If your calculated flow rate in MPH is < 10MPH, the baffle will decrease the inlet air speed enough to demonstrate positive effects.

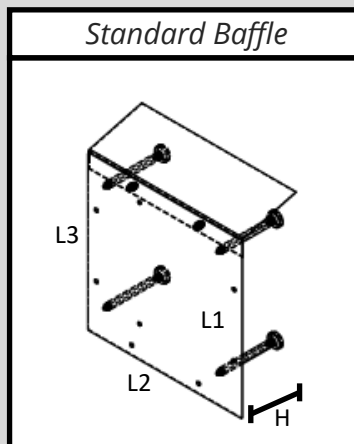


FIGURE 1

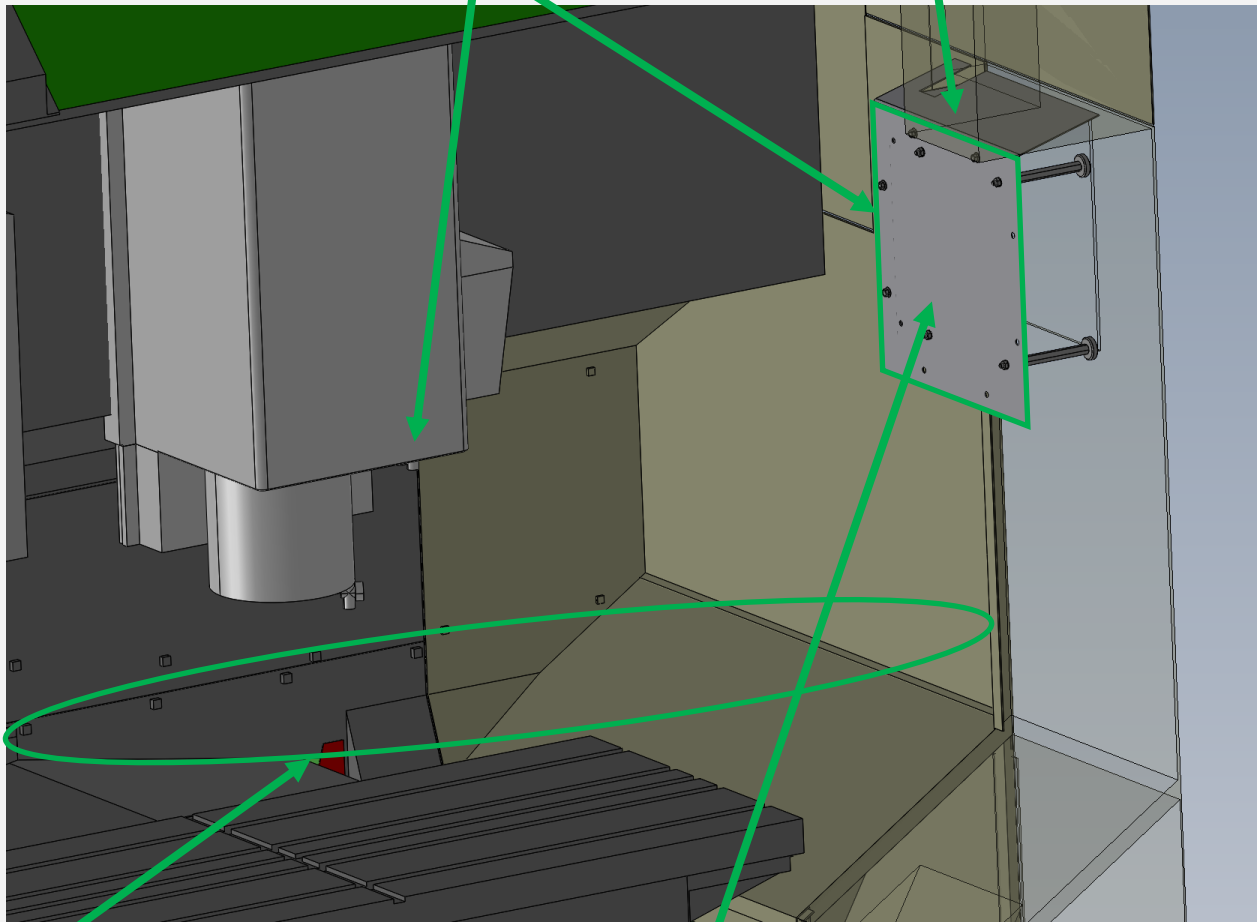
Air Speed With 15" X 15" Baffle	
CFM	MPH
700	5.1
1000	7.3
1200	8.7
2300	16.7
Air Speed With 25" X 25" Baffle	
CFM	MPH
700	3.1
1000	4.4
1200	5.2
2300	10.0

FIGURE 2

## EXAMPLE OF A CORRECT BAFFLE INSTALLATION

The baffle cannot be installed where spray from a nozzle or its resulting splash could enter the baffle.

Wall mounted baffles must be sealed on their uppermost edge.



The baffle cannot be installed in a location subject to a pinwheel of coolant caused by a rotating spindle or from coolant impact on a surface.

The baffle must be installed such that it can deflect any additional spray that may come towards it.

## HOW TO MEASURE AND REQUEST A BAFFLE

Start by identifying the location of the mist port. Using a tape measure, record the maximum allowed space around the port. An example of this is provided below (FIGURE: 1).

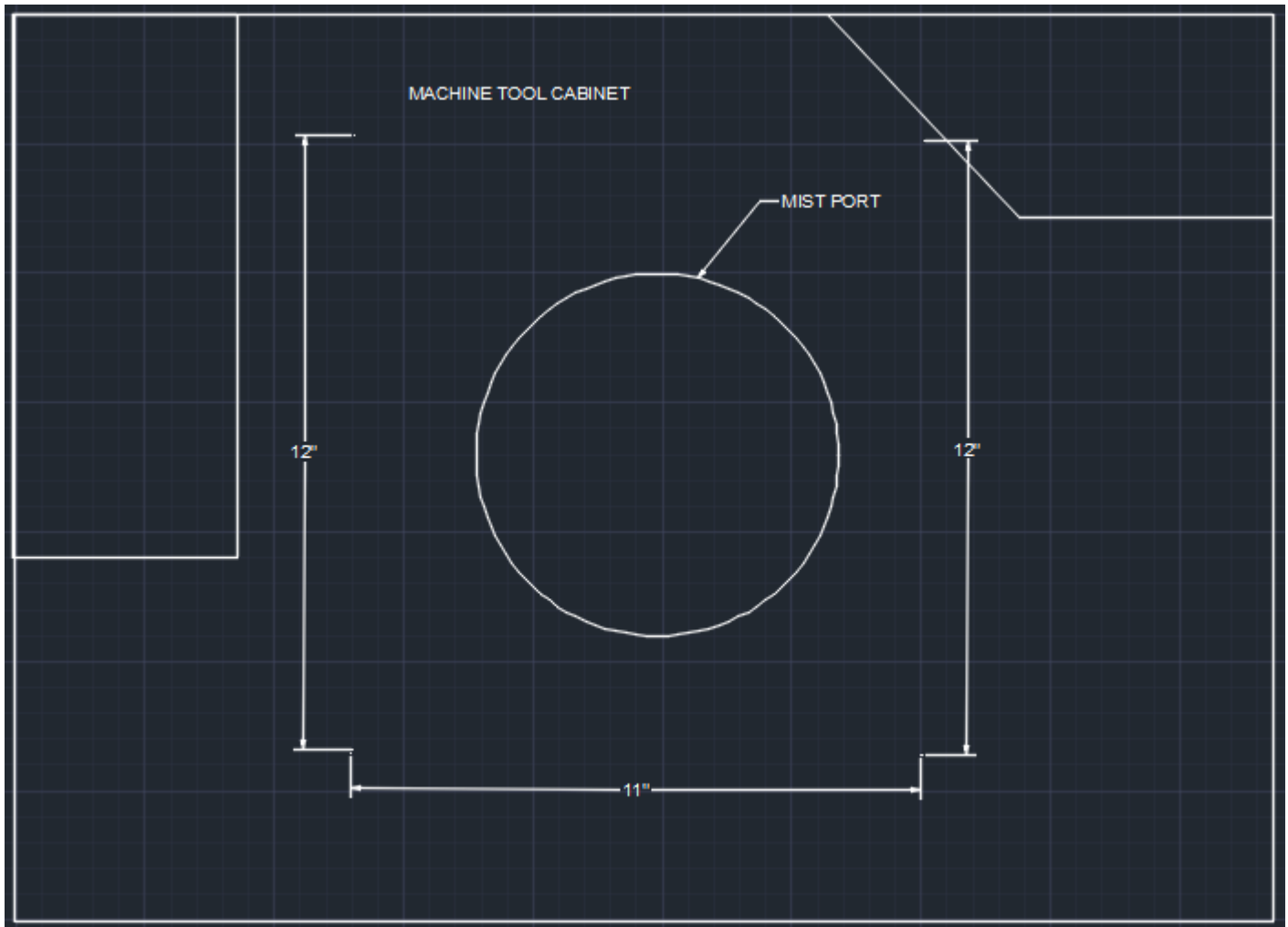


FIGURE: 1

Next, measure the distance (H) from any moving parts within the machine. If a spindle travels toward the mist port, move the spindle such that it is as close to the port as possible, this measurement must be greater than 5", otherwise a custom baffle must be requested. (See Below , FIGURE: 2)

## HOW TO MEASURE AND REQUEST A BAFFLE (CONTINUED)

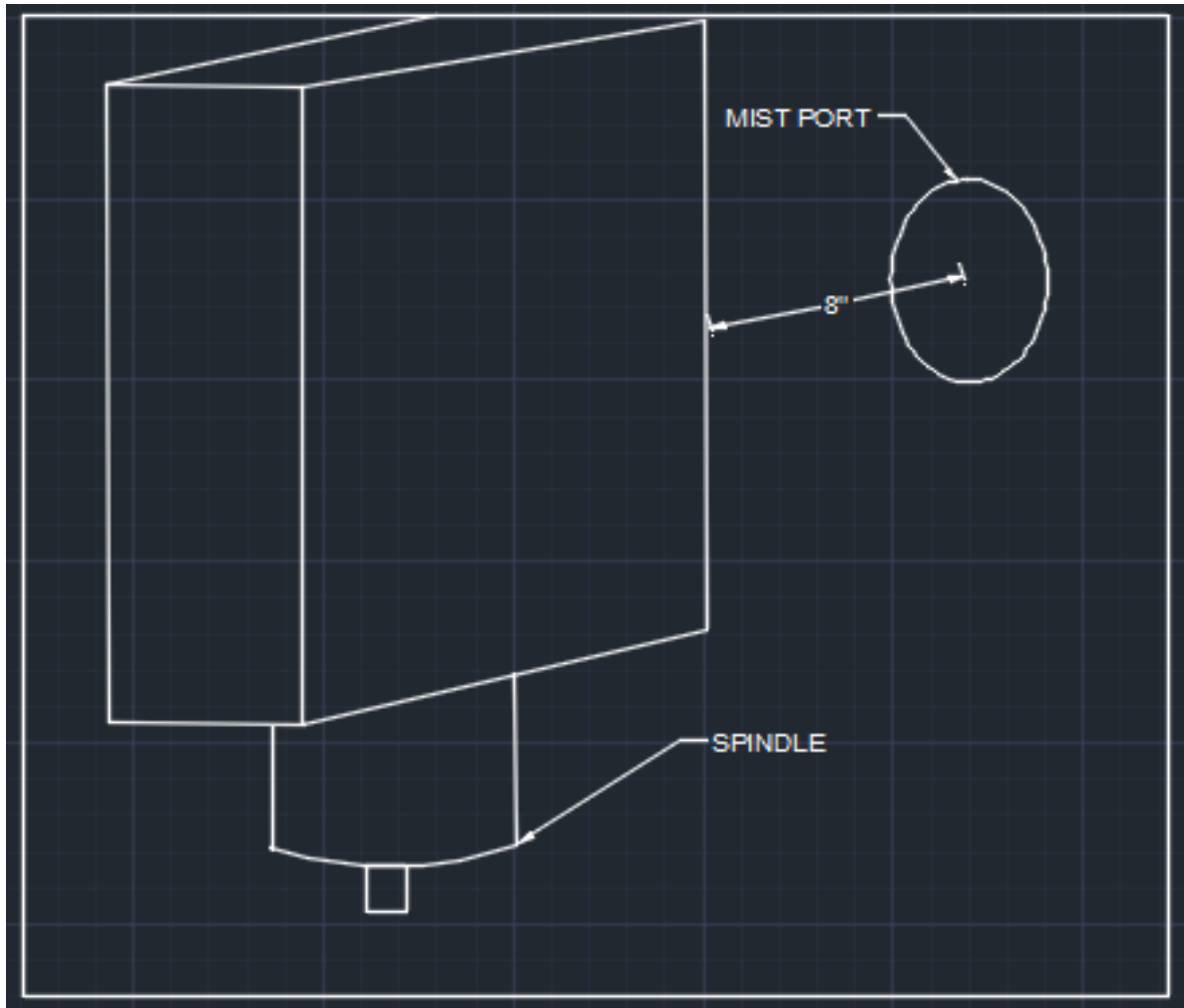


FIGURE: 2

From the previous measurements, a baffle can be supplied. Wall mounted baffles must have a shield on top to protect the port from coolant dripping down. Ceiling mounted baffles must be sealed on the edge closest to the spindle. You must specify if a baffle is being wall mounted or ceiling mounted to receive the correct baffle.

The baffle must be installed such that it can **deflect any additional spray** that may come towards it. One additional side of the baffle may be shielded to protect the port from oncoming spray, which must be specified. See below for configurations.

## HOW TO MEASURE AND REQUEST A BAFFLE (CONTINUED)

Standard baffles can be ordered in the following sizes:

10" X 10"

12.5" X 12.5"

15" X 15"

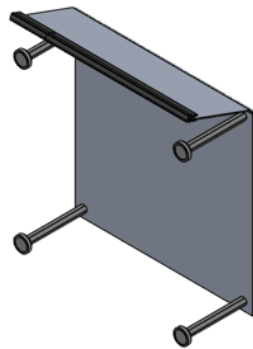
17.5" X 17.5"

20" X 20"

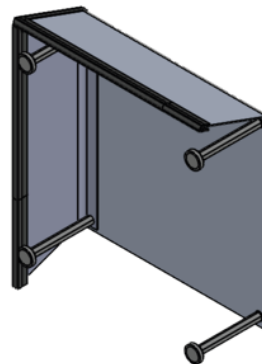
ALL STANDARD BAFFLES WILL BE 5" OFF THE MOUNTING SURFACE

Using dimensions from Figure: 1 and Figure: 2;

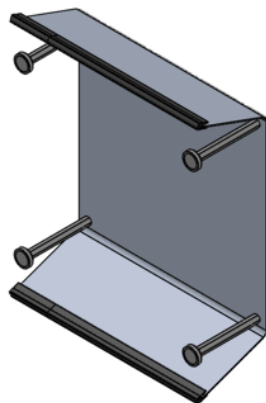
We would need to order a 10" X 10" CONFIG 1 to fit in the allowed space.



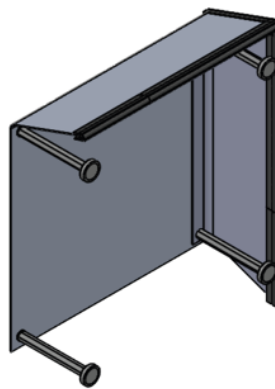
CONFIG 1



CONFIG 2



CONFIG 3



CONFIG 4