

### Industrial Technology Virtual Learning

### 9-12 Metals :Taps May 4, 2020



#### Lesson: May 4, 2020 Objective/Learning Target:

# Students will explain how to use a tap and be able to differentiate between types and sizes .

Тар















(Cut and Cloan)



(Clean Only)

TAP

- Used to cut threads into a drilled hole.
- Used to clean up threads in an already threaded hole.



## TAP WRENCH

### Used to turn the Tap

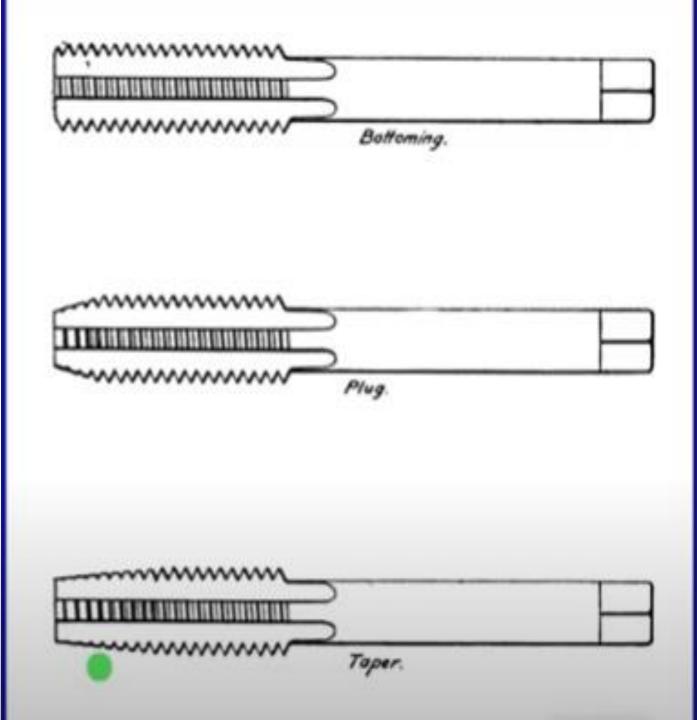




### **TYPES of TAPS**

- Bottoming
- Plug
- Taper





## Sizes of Taps

Diameter and Pitch





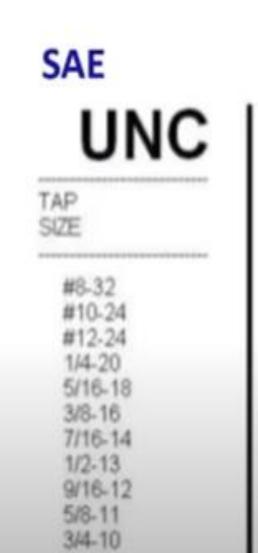
**Tap Sizes** 

#### Metric

M4x0.7
M5x0.8
M6x1
M8x1.25
M8x1
M10x1.5
M10x1.25
M12x1.75
M12x1.25
M14x2
M14x1.5

#### Pipe

Description
1/8" - 27 NPT
1/4" - 18 NPT
3/8" - 18 NPT
1/2" - 14 NPT
3/4" - 14 NPT
1" - 11-1/2 NPT
1-1/4" - 11-1/2 NPT
1-1/2" - 11-1/2 NPT
2" - 11-1/2 NPT
1/8" - 28 BSP
1/4" - 19 RSP



UNF	
TAP SIZE	
#8-36 #10-32 #12-28 1/4-28 5/16-24 3/8-24 7/16-20 1/2-20 9/16-18 5/8-18 3/4-16	



## Using a Tap

#### • Turn ½ to ¼ turn at a time.

### Reverse to clear metal chips.

• Lube as needed.

### **Review Questions**

What is a tap used for in a drilled hole?

2.)What tool is used to turn a tap?

3.) list the 3 types of taps.

4.) what 2 features are used to size a tap?

5.) how far do you turn a tap before reversing?