

# Heat Pipe Bender

## Precision Heat Pipe Bending Tool

The ATS Heat Pipe Bender is a precision engineering tool designed to give engineers and technicians accurate and thermally reliable heat pipe bends.

The tool gives the user the ability to apply the right amount of leverage and torque in order to get the right bend. The tool also stops a user from over bending and thus reducing the heat pipes thermal performance.



*\*Image for illustration purposes only*

### FEATURES AND BENEFITS

- » Made from aluminum and hard anodized for durable, long use
- » Any round heat pipe size in the ATS heat pipe family can be used
- » Other manufacturers round heat pipes may be used, providing they are within the same size ranges as ATS'
- » Tool prevents the collapse of the heat pipe during bending
- » Mountable to lab benches, vises, production workstations and other fixtures
- » Custom mounting approaches available
- » Both the measure arm and the bending arm are attached to the fixture with screws to the appropriate bend radius position.
- » Bending Angle Supported: 10 to 170 degrees

### BENDING TIPS

- » **Bend Radius**  
Minimum bend radius is 2.5x the diameter of the heat pipe being bent. The tool provides 2 bend radii 2.5x and 3x heat pipe diameter
- » **Qmax**  
Every 45 degree bend reduces Qmax by about 2.5%
- » **Use Care!**  
To insure the best result please use care when inserting

» **Customization Available!**  
ATS will develop custom mounting!

Heat Pipe Bender Part Number	Diameter of Heat Pipe that Tool Can Bend (mm)	Inside Bend Radii (mm)	Bend Angle Radii (degree)
ATS-HP-D3TOOL	3	7.5 and 9	10 to 170
ATS-HP-D4TOOL	4	10 and 12	10 to 170
ATS-HP-D5TOOL	5	12.5 and 15	10 to 170
ATS-HP-D6TOOL	6	15 and 18	10 to 170
ATS-HP-D7TOOL	7	17.5 and 21	10 to 170
ATS-HP-D8TOOL	8	20 and 24	10 to 170
ATS-HP-D9TOOL	9	22.5 and 27	10 to 170
ATS-HP-D10TOOL	10	25 and 30	10 to 170
ATS-HP-D12TOOL	12	30 and 36	10 to 170

### COMPATIBILITY

- » All ATS Round Heat Pipes
- » Other manufacturers round heat pipes within ATS size ranges
- » Can be used with other manufacturers heat pipes outside the ATS HP size range at user's discretion. ATS does not advise this nor does ATS warranty that it will work nor will we take liability

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