

(HTL) Haas Jaw Boring Ring

HTL Features

- Easy fine jaw adjustment to prevent too much material removal when re-cutting jaws.
- ID clamping also possible, to allow turning jaw diameters for internal workholding.
- Pin fits perfectly into the counterbore of our Haas lathe jaws for easy placement.
- Pins are reversable to reach larger diameter jaw clamping
- Each HTL size can cover 3 chuck sizes. See next page for details







HTL Operating Specifications

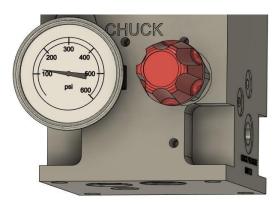
Haas Part Number	Haas Description	Max Gripping (kgf/cm2)	Max Gripping (psi)	Max speed (rpm)	Matching chuck	Alternate Chuck	Alternate Chuck
05-0507	HTL-100-3	8	113	800	6	5	8
05-0508	HTL-125-3	8	113	700	8	6	10
05-0509	HTL-160-3	8	113	600	10	8	12



• It is recommended not to exceed 113 psi (8kgf/cm²) chuck pressure.

-This will extend the life of your pins, and avoid possible deformation, while maintaining uniform pressure on each jaw

- At this low pressure, it is also recommended not to exceed the max speeds shown on the above table.
 - -This will prevent the possibility of the ring being ejected while cutting

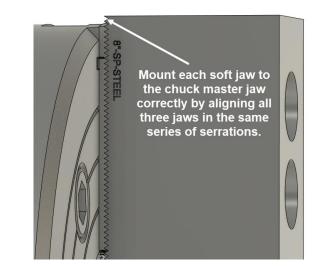


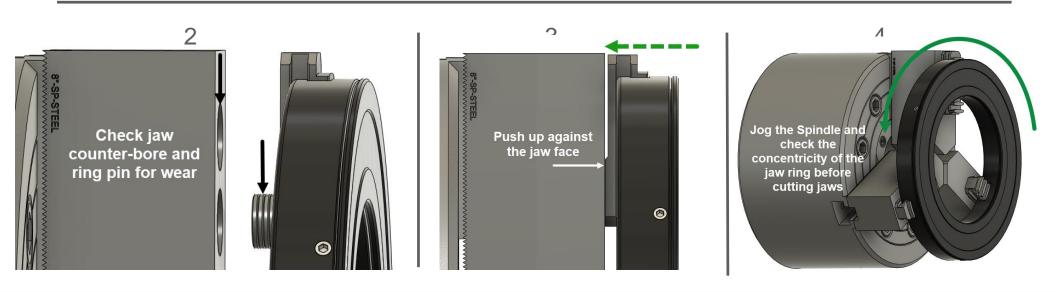




Mounting the Jaw Ring

- 1. Check each jaw position to make sure they are set to the same serrations
- 2. Check the chuck jaw counterbore where the pin locates to make sure there is no elongation. Also check the Pin for wear.
- 3. Place pins evenly against the jaw face.
- 4. Jog the spindle and make sure the ring rotates with little or no eccentricity









Tips on boring jaws

• Use the Haas Jaw Boring VPS Template to easily generate programs to rough and finish your jaw diameters.

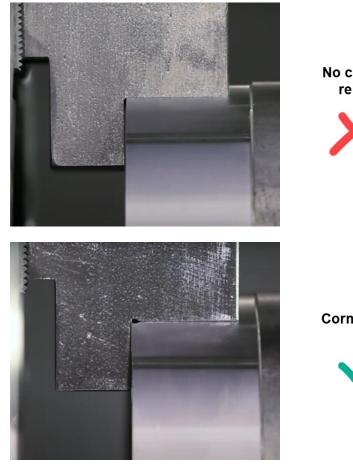


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• Form corner reliefs to guarantee material is fully seated to the back of the jaw face



No corner relief



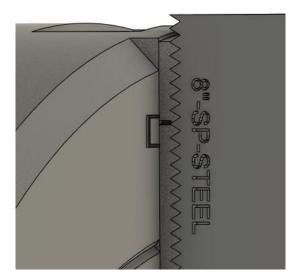
Corner relief



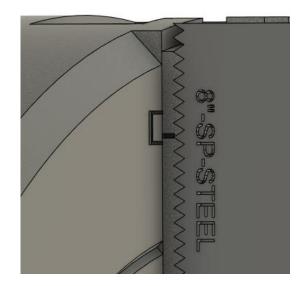


Tips on boring jaws: Jaw stroke

• For re-occurring jobs that require frequent minimum recutting of the jaws, it is recommended to set the jaw stroke to min travel (top of the master jaw notch)



- For automation (APLs or robots), it is recommended to set the jaw stroke from the middle to the bottom of the master jaw notch ,
- The extra stroke travel before clamping will provide more clearance to allow for irregularities in the robot load



*It is recommended not to clamp right on or beyond either end of the stroke limits.

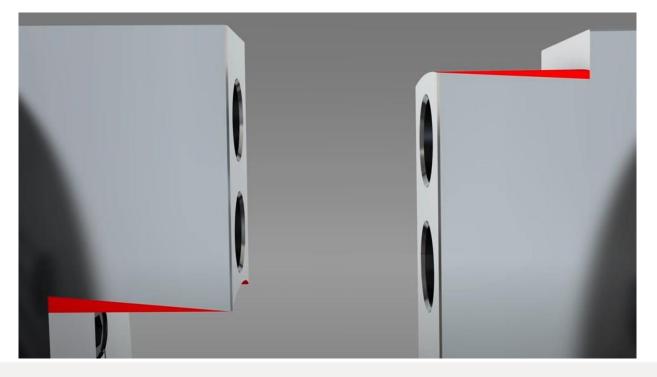
*If the master jaw notch does not travel the full range of the chuck mark limits, the chuck-to-drawtube assembly will need adjusting.





Tips on boring jaws: Jaw Deflection

- Jaw deflection can occur when boring ID or OD jaws.
- This can be caused when longer jaws are machined, or if increasing the workpiece clamp pressure considerably from the jaw boring pressure.
- The jaw deflection will reduce your clamping strength significantly, and may damage your jaws.
- To offset this behavior, a taper will need to be formed on your jaws. See our Haas video on this subject.
- <u>https://www.youtube.com/watch?v=-AyMQNoaBjc</u>





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