

## Duty Cycle & terminology

- **Peak performance duty cycle**  
How fast (rpm) the live tooling head can be run and for how long (minutes) before causing excessive heat
- **Continuous duty cycle**  
How fast (rpm) the live tooling head can be run without any time limit
- **Cool down period**  
The amount of time needed for the live tooling head to cool down after an amount of time being used at peak rpm. This time is usually at zero rpm but is also effective at reduced rpm but with slower results
- **Maximum operating temperature**  
**60 degrees Celsius or 140 Fahrenheit at all times**
- **OEM Peak performance duty cycle**  
**6000 rpm for 2 minutes**  
This applies to all brands that Haas ships regardless of engraved values from manufacturer
- **OEM Continuous duty cycle**  
**4000 rpm no time limit**  
This applies to all brands that Haas ships regardless of engraved values from manufacturer
- **OEM Cool down period**  
**8 minutes at zero rpm preferred but no more than 4000 rpm**  
This applies to all brands that Haas ships regardless of engraved values from the manufacturer