



# BUYING YOUR FIRST HAAS CHECKLIST



## Things To Think About-

### ON YOUR MACHINE:

#### Power

- Make sure your shop has enough incoming power to support your plans.
- You will need to have an electrician properly run power to the Haas machine prior to installation.
- Check to see how much power the machine requires to run

#### Program

- If you are looking for a more advanced programming system on the Haas control, check out our Visual Programming System.
- For 4th and 5th axis application, you will need to find a desktop CAM system. Autodesk and MasterCAM are the leaders in this software.

#### Coolant

- The types of materials you plan to cut and what your local supplier supports will influence your coolant selections. The best first step is to check with your local HFO.
- A starter 5-gallon pail will be needed to get your machine operational.

### IN YOUR SHOP:

#### Space

- Use a Machine Layout Drawing to help layout your shop and decide machine placement.
- 3 feet in back is critical so that the electrical cabinet can be opened fully.
- Location of the chip discharge will vary by machine and should be considered in the machines placement.

#### Foundation

- Before placing machine on properly reinforced concrete, refer to the installation requirements for each machine for accurate floor thickness details.

#### Air

- It is very important to have a **high-quality** air compressor for machine operation. By using cleaner dryer air helps get to the machine better.

#### Water

- Coolant requires a water supply as close to machine as possible.
- A good refractometer to monitor and maintain the proper coolant mix or install Haas' Coolant Refill Option.

#### Raw Material

- Establish a relationship with the local material suppliers in your area.

### TOOLING BASICS:

#### Workholding

- For a vertical mills, a 6" fixed jaw vise, a few sets of soft jaws, toe clamp kit and basic hand tools.
- For a lathe, some replacement soft jaws for the standard chuck and various hand tools are advisable.

#### Tool Holding

- Basic tool holders: ½" and ¼" end mill holders, keyless drill chucks and ER32 collet holders and a collet set. A full suite would include multiple collet holders and ER16, ER25 and ER32 collet sets.

- Pull Studs
- For a lathe, the Haas lathes come with a basic set of tool holders. Some ER collets and straight shank collet holders will round out your starter tooling.

#### Tools

- For a mill and a lathe a good selection of cobalt drills
- A set of taps for threaded features  
For mills: a selection of end mills in ¼", ½" and ¾" are good; make sure to have a set for steel and a set for aluminum.

For lathes: some OD turning tools, part off tools and a boring bar are a good starter selection.

#### Measuring Tools

- A good 0-6" caliper, scale, 0-1", 1"-2" and a 2"-3" micrometer for measuring parts. A good magnetic base with a test indicator is useful for setting up machines. An edge finder for a mill is a necessity unless you add Wireless Probing (WIPS) to your mill.

### WHEN YOU'RE EXPECTING:

#### Chip Barrel

- A 55 gallon chip barrel on wheels for Haas lathes with a chip conveyor, or a Haas mill with the chip lift option. Machines with just augers need a smaller bin to fit under the chip chute.

#### Cart

- A cart for tools and finished parts to be stored on will help keep things organized. There is a variety of carts available, some specific for tool holders, some for parts and a combination of the two.

#### Training

- Talk to your HFO about training if you need it. Our Haas Certification Program is another great resource.