

Living with the lab

Install the 1 % inch Forstner bit into the chuck. You may need to raise the cutting head to provide room to get the bit into the chuck. After the bit is in and the safety shield is in place, turn the spindle on. Then, lower the cutting head with the z-crank handle until the bit begins to cut the 1 % inch hole. Zero the z-direction on the DRO, and drill down until the depth is about 0.080 inches.

Note: Set your drilling speed to 30





22

living with the lab

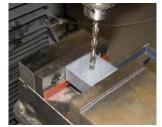
Install the 1 inch Forstner bit, bring the cutting head down until the bit begins to cut into the block at the bottom of the previous hole. Drill an additional 0.42 inches deeper (for a total depth of % inch from the top surface of the block).

Note: Set your drilling speed to 30



Living with the lab

Unlock the x- and y-stage lock bolts and remove the block from the vise. Flip the pump body over, doing your best to be sure the axis of the hole drilled earlier coincides with the axis of the spindle. To check this, place the N bit back into the chuck, and move the x- and y-stages until the bit is aligned with the hole. Now, remove the N bit and replace it with the ½ inch Forstner bit.



24

