

# Hex Bit Holder

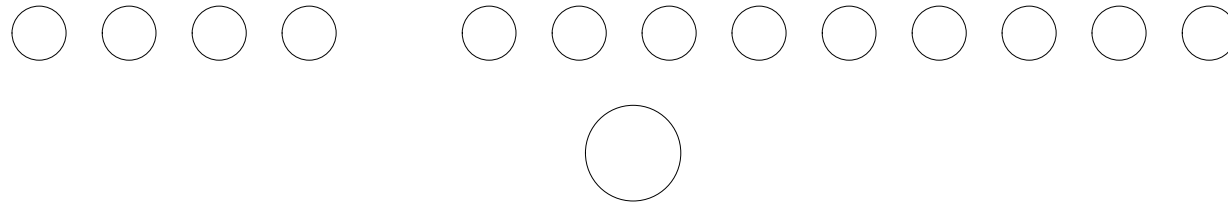
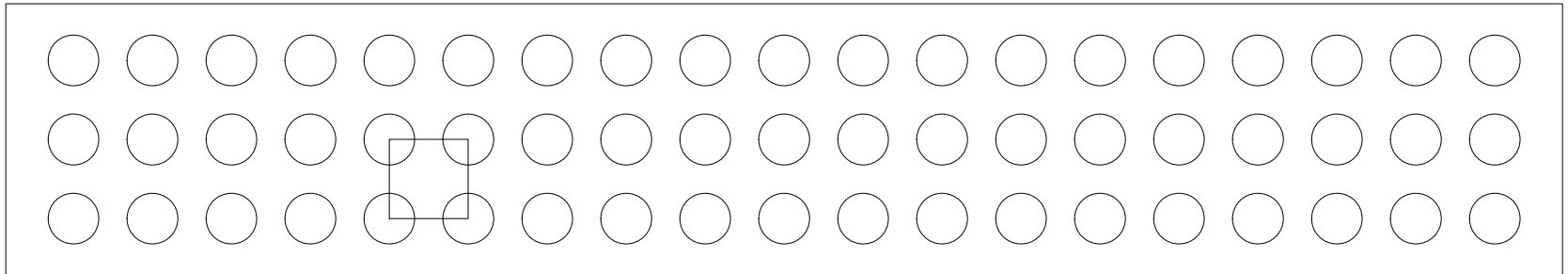
A 9/32 bit (0.281 dia) will make a nice slip fit for 1/4" hex shank bits. An "L" drill (.290) will be a bit looser.

I found a spacing of 7/16" to be nice.

Drill press with depth stop is great for this.

I thought a 1-1/2 inch wide x 8-5/8 piece of scrap looked about the right size, it holds 51-57 bits.

I thought that would be plenty but its not enough, really just barely held my loose bits.



9/32" is a size just a hair larger than across the corners of the 1/4" hex bit (which is 1/4" across the flats). A 1/4" hex bit will NOT fit in a 1/4" diameter hole. That (9/32") not a snug fit but there's no slop. If you turn it over and shake it they will all fall out. If you don't shake I daresay most will fall out.

Here's the dope: The geometry-based math says the distance across the flats is  $.250/\text{Cos}(30)$  which is  $.28865"$  Manufacturing being what it is there is probably some small radius on the corners.

I measured a few just a minute ago and they run about  $.280-.285"$  probably because they break the sharp edge for that radius I mentioned.

I suggested an Number series "L" bit at  $.290$  will work. And a 9/32 is  $.2815"$  Remember it only touches at two or six points, not 100% of the circumference (like a round shank), so its not hard to get out even if its a pretty close fit. So I find 9/32 is quite good.