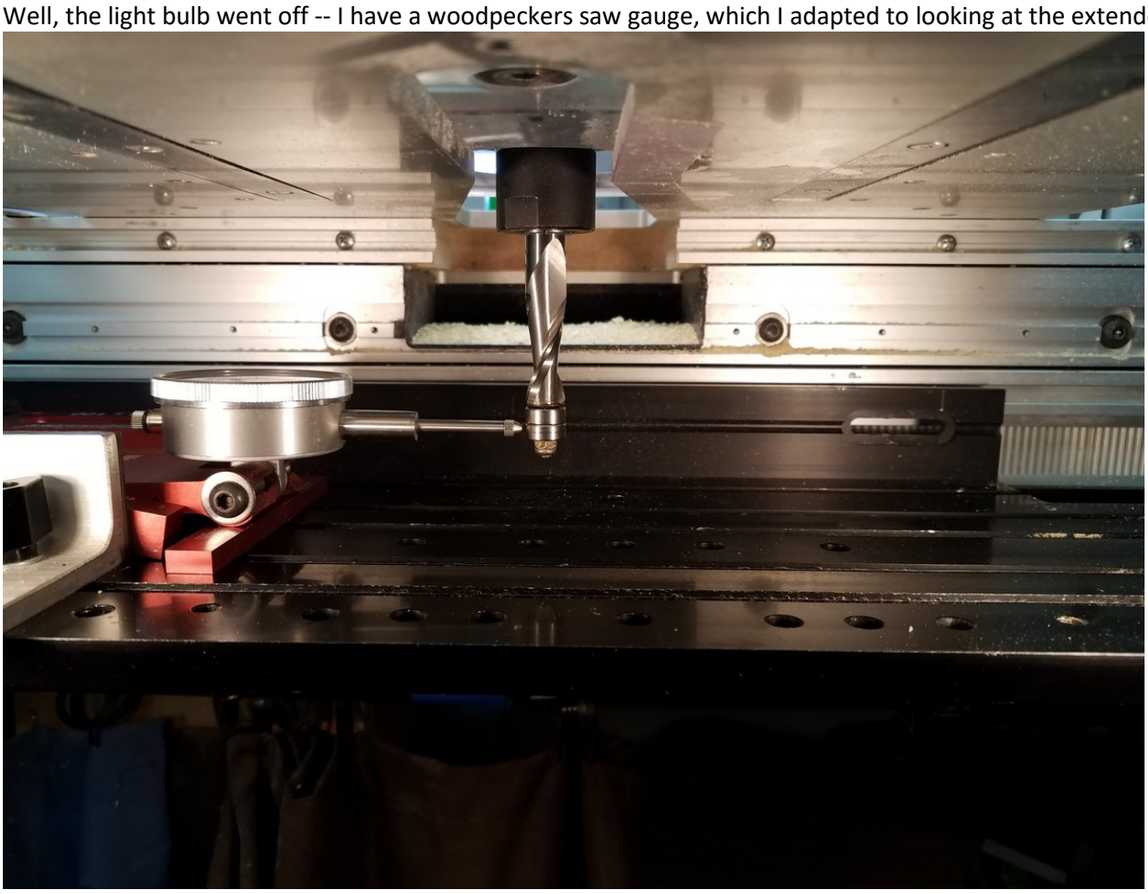
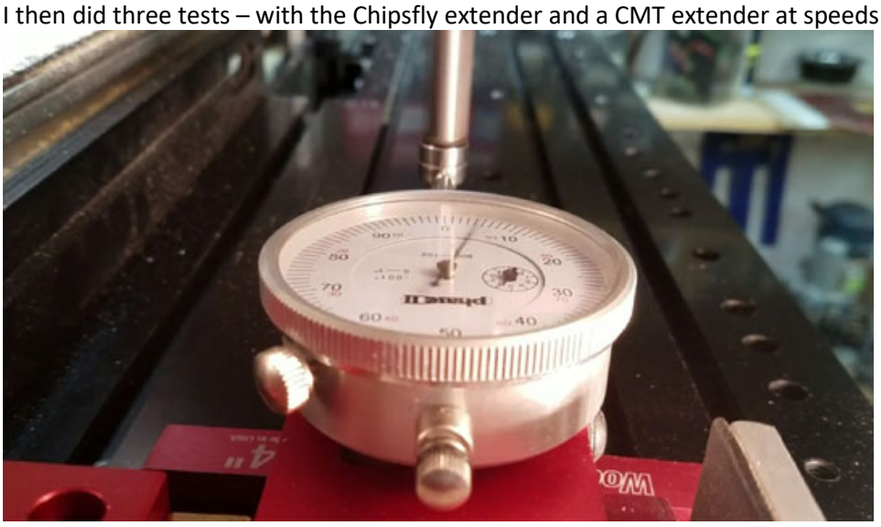
It dawned on me yesterday afternoon that perhaps I had a way to look at the runout from a collet extender -- there have been posts on the forum bringing this issue up as a downside to using the extenders, and my reply has always been -- don't have the wherewithal to measure such a sensitive thing, but I have never seen any run out like effects in any of the cuts I have made using an extender -- and you know I recommend their use highly -- frankly, I don't see how one could effectively use the 4th axis attachment without one --

Well, the light bulb went off -- I have a woodpeckers saw gauge, which I adapted to looking at the extenders --



I used a Freud 75-508 1 1/4" flush trim up-cut spiral bit with an end bearing -- just the bit chucked, no extender. Manually spinning it yielded +/- .001 deflection -- at speed 5, I read .003 +/- .003 -- the needle bounced from 0.0 to .005 or so -- reducing the speed to 1 did not change the amount of deflection, but the movement of the needle was less active --

I then did three tests – with the Chipsfly extender and a CMT extender at speeds 2 & 5 on a DeWalt router--



The bottom line was I would say the deflection was .006 +/- .003 for both extenders -- running at speed 2 did not improve the run out -- the only difference between the two is that manually spinning the CMT shows +/- .001 and the Chipsfly shows +/- .002 -- as the router slows from speed to stopped the CMT seemed smoother than the Chipsfly -- for whatever reason --

The 'working' run out is the same for both extenders and is perhaps twice that without an extender –

Larry Thomson
ChipsFly forum moderator

Note The Chipsfly extender made in Taiwan, the CMT in Italy.