



I had noticed when trying the Rapid Facer that the head angle would sometimes change when going from reel to reel. Usually because of my adjustments. My thought was making it a "fixed head" might work out better for us.

There are different methods of bedknife as well as reel grinding. On a new knife you would usually grind to the bottom, which would be "0" degrees. After it's been used one method is to Zero the machine to the center of the wear surface. Then adjust your machine to that, and grind your top and front face from that setup.

The other method is to grind a used knife as a new knife. Which is the method we use. So to setup the Rapid Facer for this, I first checked the levelness of our grinder. The level in the picture is going across the bedknife mounting bar.



The bar is Zeroed out, the indicator is shown to be accurate. Now I have the RF attached to the front of our bedknife grinder, which is an Express Anglemaster 3000. So the bar is level and now I'm checking and adjusting the housing of the RF to level.

I used the level and then checked with a dial level. It



may look a hair off but
trust me, it's okay..

To be honest, there was a
lot of double checking,
especially when you're
going to drill holes in a
precision instrument.



We double checked everything at level, then at 5 degrees, which is what we grind the front faces at.



The fixture was "C" clamped in place, then the head taken out, although I guess it could have been done with it out to begin with. Just erroring on the cautious side..

2 holes were drilled (one would probably work fine) and then the side bracket was taken off and the housing tapped for 10-32 screws.



So, this is the finished product, a 5 degree front facer. You are still able to get a degree or two more by increasing the disk pressure, but I usually use a little tougher disk than what comes standard. The setup on the reel is just like the setup on the grinder, touch both ends and adjust from there.

We have a very consistent mix of bedknives to face, all are ground the same way to begin with, this just makes it a little easier and consistent for me. They are the same way, everytime.