

German Epoxy Granite Milling Machine

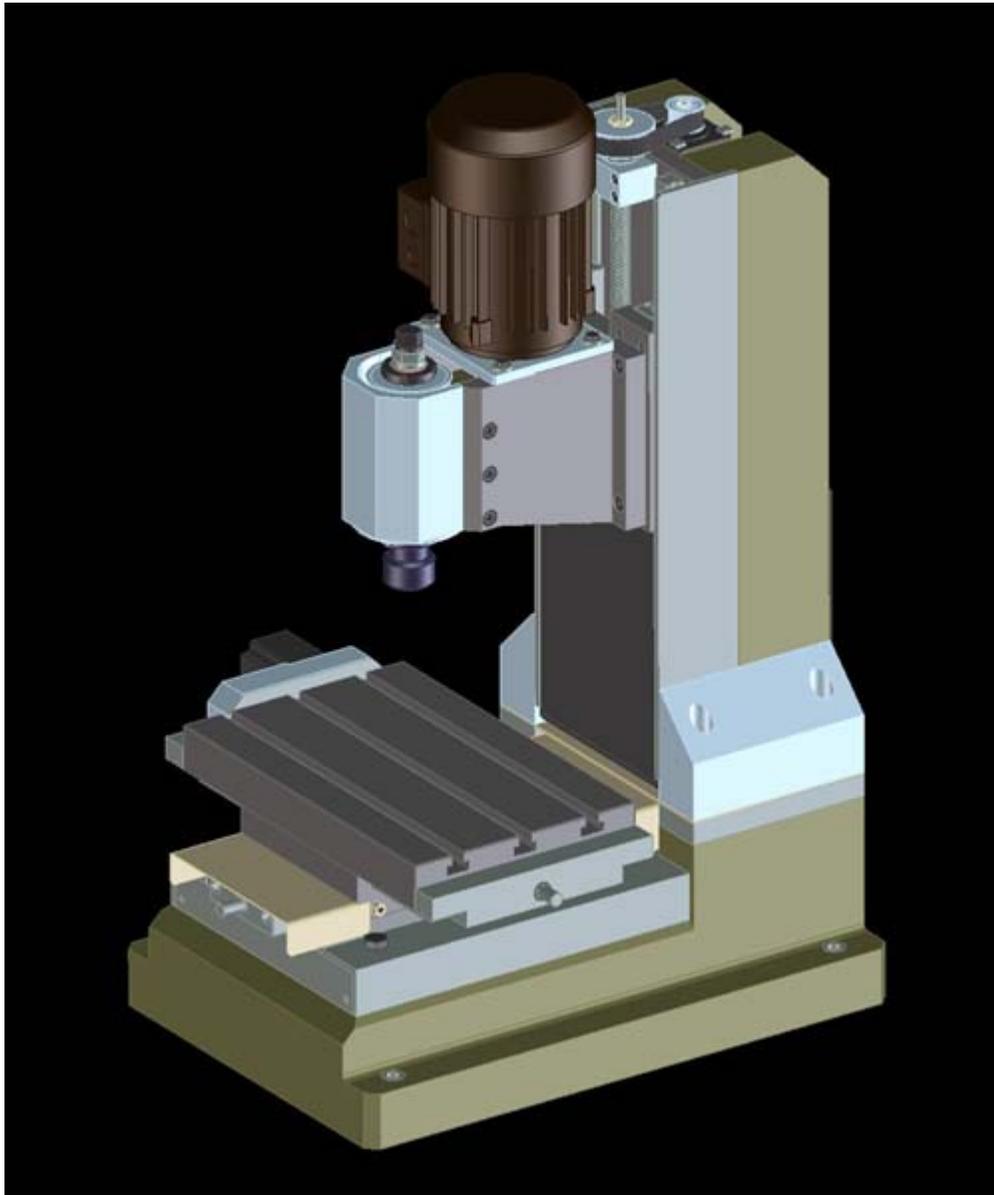
Here's an awesome project I recently heard about [on CNCZone](#):



That machine is solid!

I few details I gleaned from [one of the articles on the German site](#) (you have to register!):

The epoxy granite mixture being used is 30% granite gravel, 30% joint sand, 30% fine quartz sand, and 10% R L & G epoxy resin. Based on my research, that should make for a fine epoxy granite base. And here are some interesting build pix:



Original Drawing...



Table/Saddle Will Be Incorporated into the E/G Matrix...



Mold for the base. This base will be case upside down. Note the screws sticking up from the metal parts--that's how they're anchored into the epoxy matrix...



The Epoxy Granite Has Been Poured Into the Mold...



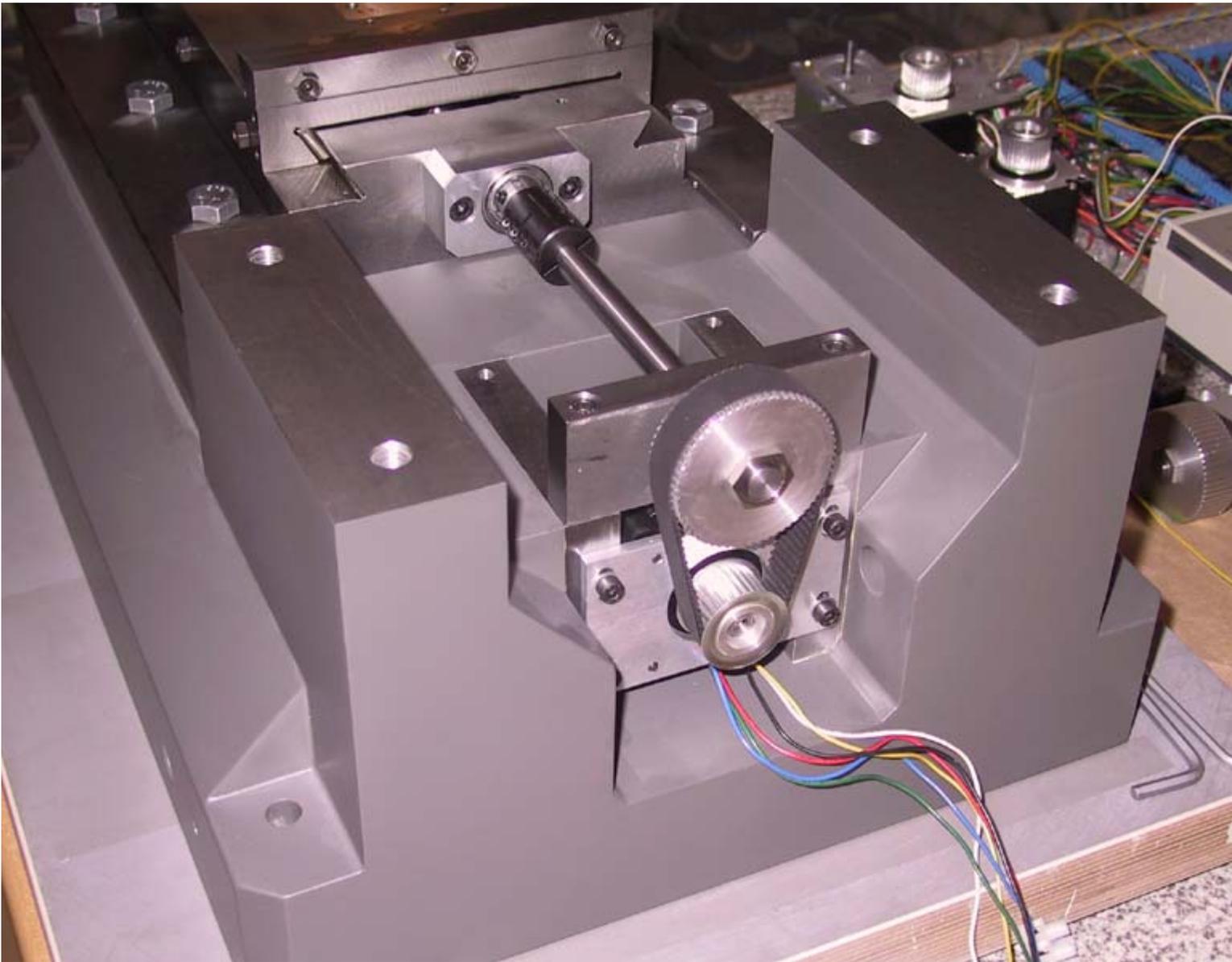
Looks Promising! Wondered how he would get it to release. I like the use of melamine. Probably a release agent would make the mold reusable...



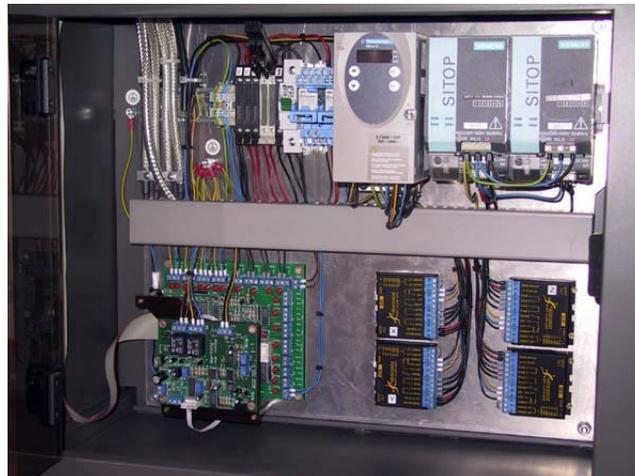
Front of the base. Note the precision steel pieces cast in place...



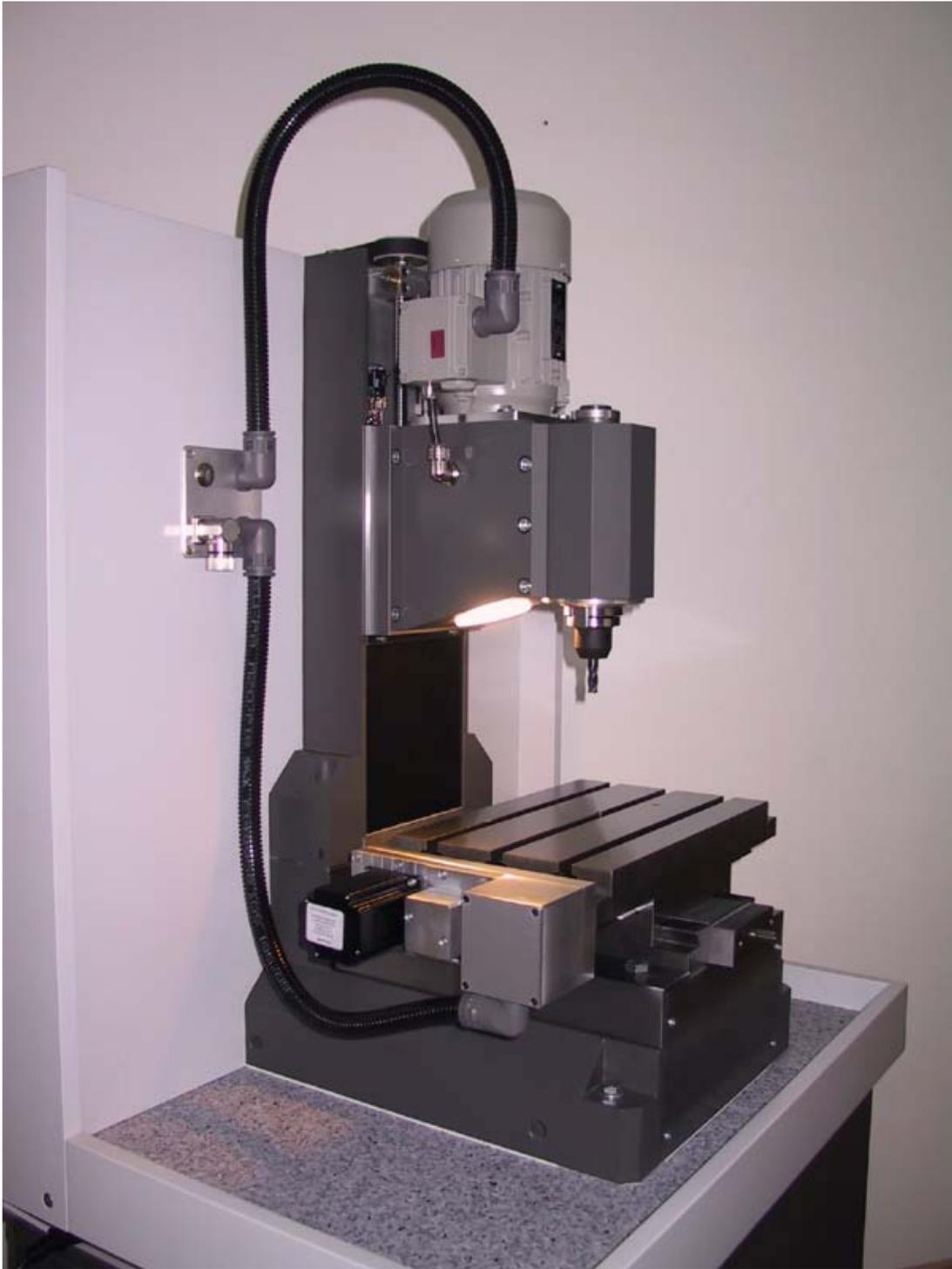
And the rear...



Painted and assembly underway. The Y-Axis mechanism is under the column. That much solid epoxy granite has got to make for a more rigid machine than the normal hollow cast iron!



Extremely clean electronics chassis...



Note the built in light! Looks like that will be the enclosure. Another nice piece of work...



Not sure of the taper. The text mentions SK30. That's a release button on the side, so there must be a compressed air drawbar with bellville's or some such...