ABSTRACT

Field observation show that the tool drill sharpening is doing manually. The tool is hold and fix by hand directly. This system is clearly not effective, because its need much time and the geometry result is not qualified with standard tool drill geometry. This system also not guarantied operator safety. In the field also found Jig and fixture for helping tool grinding, but the jig and fixture that found is not qualified to helping tool drill sharpening. According this fact its important to do planning and developing for modification the jig and fixture for helping tool drill sharpening.

Based from the testing and analyze result, jig and fixture have been modification generally is qualify to complete helping sharpening tool drill. It's known from the testing result data that both of planning or setting geometry before sharpening and after sharpening is not significant difference.

Word key: tool drill, cutting angle κ, relief angle α, sharpening