ABSTRACT

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Bench grinder are used to sharpen tools, making single point cutting tool (SPCT). These bench grinders have several industrial applications such as sharpening tools for various purpose for sharpening tubes for the chassis, screw driver sharpening etc. The future is installed to perform the grinding operation at different angles (0°, 10°, 15°, 20°, 25°) with the movement of stand in offset axis to the grinding wheel and placing a ball pin joint in vertical direction as shown in figure, with degree of freedom 5. Length from bench to wheel is 19cm, length of fixture total in offset to wheel is 14.5cm. Movement of transverse axis is 6 cm, vertical movement is 8.5 cm. In addition fixed screen is introduced to protect the human from sparks. At the end we have observed that there is less human movement involved and safety of human being/worker is taken into consideration. It also reduces the time of worker.