

IMPROVEMENT OF THE FEEDING SCREW TIP MANUFACTURING IN THE CASE OF THE PLASTIC INJECTION MACHINES

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Abstract: Under the partnership with a company from Bihor County, it was necessary to reduce the manufacturing time of the “tip” part from the injection machine feeding screw with semi-product. The manufacturing of the “tip” part was made by a 3 axes CNC machine at a high cost per hour; the manufacturing position of the part was along the “z” axis of the machine tool. After the improvement, the part was produced on a vertical cutter with a lower cost, a reduced time and with the part in another position. The part was designed in Solid Works and the manufacturing simulations were made using Solid CAM, the company having both software licenses.

Key words: injection moulds, feeding screw, SolidCAM, tip part, optimization, manufacturing program.

