Application Notes

DATRON DYNAMICS, INC.
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Part: ..... Three Dimensional Mickey Mouse

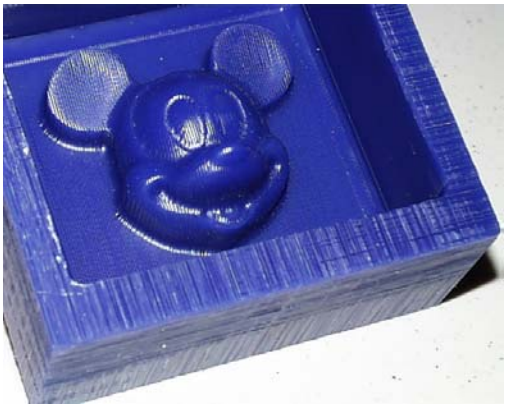
Material: ..... Machinable Wax

Machine Used: ..... M5 - 4750

Features Utilized: ..... High RPM Spindle, Automatic Tool Length Measurement and Pneumatic Clamp

Software Used: ..... G-Code Received from Customer

Total Cycle Time: ..... 23 minutes



Machining Details:

1/8" Ballnose end mill with a 1" cut length
25,000 rpm at 100 inches per minute

No coolant used

Fixed within a pneumatic clamp

Summary of the Application:

We were able to offer a good solution for the application due to the intricate tooling required. An abnormally long cut length had to be used on the 1/8" ballnose tool due to the high releif of the design. The high rpm spindle reduced the amount of chatter or tool deflection while still achieving a good cycle time. The large 30" x 40" working volume of the M5 table will allow great flexibility for either large parts or batch production of smaller parts. The compact and efficient nature of the machine allows installation in both industrial and non-industrial environments. Features such as the unique "Z" height compensation probe and 4th rotary axis can also save production time while increasing the many capabilities for difficult designs.

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