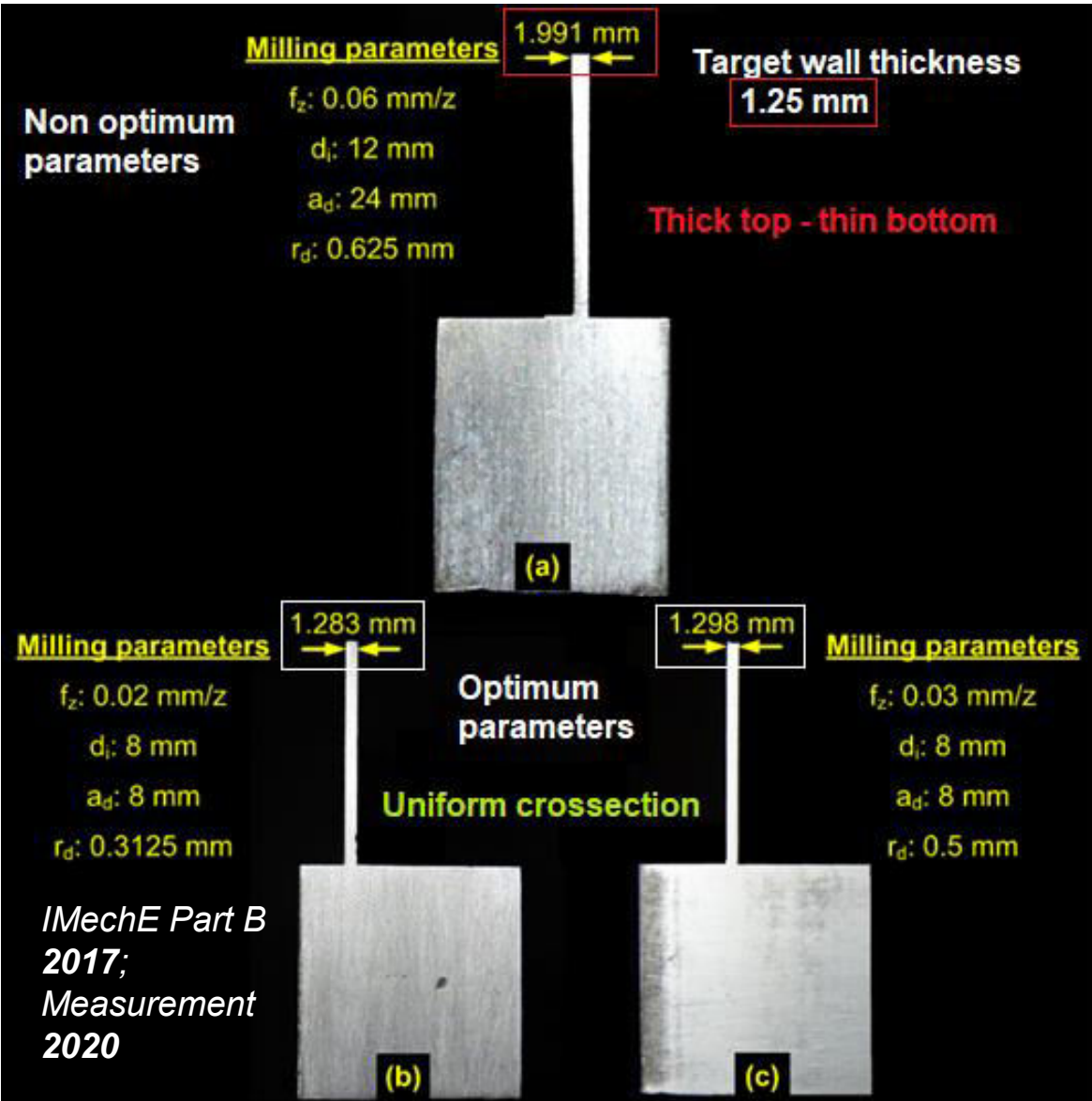


Prof. Shrikrishna N. Joshi, Mechanical Engg., IIT Guwahati



Thin-wall machining of aerospace alloys

SERB-DST Funded Project (completed)
 INR 35.34 Lakhs (2013-2017) as PI

f_z = feed (mm per tooth)
 d_i = tool diameter (mm)
 a_d = axial depth of cut (mm)
 r_d = radial depth of cut (mm)
 Thickness deviation at top portion was improved from 59.2% to 2.64 to 3.84% with optimum levels

Precise machining of a curvilinear ultra-thin-wall part 750 μ m

Important deliverables to make the aircrafts and automobiles lighter

On 3-axis CNC milling machine at medium cutting speed in real-life shop floor conditions

Sponsored project
 01 completed

Ph.D. students
 01 completed (thin-wall)

M. Tech. projects
 03 (thin-wall)

Intl. Journal papers
 09 (thin-wall)

Book chapters 02 (thin wall)