



WE FORM IDEAS

wm dudek manufacturing company

Fourslide Multi-slide Case Study 42

TITLE: Fourslide vs Punch Press

APPLICATION: Handle for laptop computer

MATERIAL: Stainless AISI 301 ASTM A 666 1/2 Hard .035 Thk

SPECIAL CHARACTERISTICS: Material has a skived round edge and part has gussets in corners to hold 90 degree forms

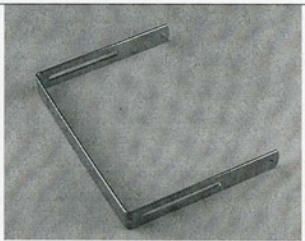
CHALLENGE: Replace current part that was binding in the computer due to heat treat distortion

BENEFIT: Supplied a dimensionally consistent part with better aesthetics at half the price

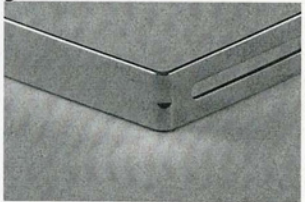
The original handle for this application was made in a progressive die out of a C1050 steel, heat treated, deburred and nickel plated. The function of the handle required it to slide freely in a slot. Due to heat treat distortion the handle was never quite dimensionally correct and would bind in the slot.

wm dudek mfg proposed making the part out of a 1/2 hard tempered stainless which would ensure the needed strength and eliminate the heat treatment process. The material was purchased with a skived, full round edge, eliminating the need for deburring. Gussets were added in the corners at the 90 degree bends to improve dimensional stability. To enhance the appearance the part was electro-polished giving it a chrome like finish.

A superior functioning part at less cost only made possible by the fourslide process.



Picture of round edge and gussets



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