



Precision Engineering & Cold Forming

tooling limitations and opportunities

“ AN EFFECTIVE TOOLING PROCESS ESSENTIAL TO DESIGNING AND ENGINEERING THE RIGHT MANUFACTURED COMPONENTS. HOWEVER, TRADITIONAL TOOLING PROCESSES HAVE A NUMBER OF KEY COSTLY LIMITATIONS.”

INCONSISTENT AND HIGH COSTS

SMALL DEFECTS INVISIBLE TO THE HUMAN EYE

SLOW PROTOTYPE DEVELOPMENT

ACCEPTABLE BUT NOT OPTIMISED TOOLS

PROBLEM

FOR MANY YEARS, MANUFACTURING WAS THE ONLY METHOD OF PRODUCING TOOLS REQUIRED.

SOLUTION

MEAL FORMING SIMULATION SOFTWARE, WHICH ALLOWS DESIGN ENGINEERS TO USE THE ENTIRE MEAL FORMING PROCESS ON A COMPUTER, INSTEAD OF ON THE SHOP FLOOR USING TRIAL AND ERROR.

benefits

simulate



THE ENTIRE PROCESS



IDENTIFY PROCESS AND DESIGN WEAKNESSES



ENHANCE PROCESS CONTROL AND QUALITY



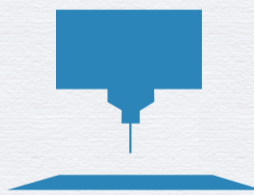
IMPROVE PROCESS EFFICIENCY

DEVELOP SUPERIOR PRODUCT STRUCTURE AND STRENGTH



SPEED UP THE prototyping PHASE

Tooling software in application:



“ AT DAWSON SHANAHAN, WHERE TOOLS REQUIRED FOR OUR LEADING PRECISION COLD FORMING AND CHANGING SERVICES USING MEAL FORMING SIMULATION SOFTWARE

deform.

WE ANALYSE THE CHIP SHAPE, FORCE, TOOL AND WORKPIECE TEMPERATURE, TOOL WEAR, RESIDUES AND PART DISTORTION TO OPTIMISE EACH TOOL AND THEREBY DELIVER PERFECT CONSTRUCTED AND REPRODUCIBLE COMPONENTS.”

example

ON A RECENT PROJECT, PRODUCING COILINGS FOR AN ELECTRIC VEHICLE PROJECT, IMPLEMENTING MEAL FORMING SIMULATION SOFTWARE USING

deform

ENABLED OUR TRAINED ENGINEERS TO REDUCE THE CYCLE TIME BY 5.4 DAYS AND ACHIEVE AN OVERALL SAVING OF £3,150.



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