

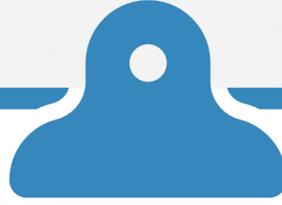


# Dawson Shanahan

Precision Engineering & Cold Forming

## TOTAL PRECISION ENGINEERING CHECKLIST

FRAGMENTED SUBCONTRACT SUPPLY CHAINS RESULT IN MANUFACTURERS LOSING KEY OPPORTUNITIES TO DRIVE UP QUALITY, ELIMINATE WASTE AND CAPTURE ADDITIONAL VALUE. TOTAL PRECISION ENGINEERING ENSURES THESE OPPORTUNITIES ARE SEIZED.



## TOTAL PRECISION ENGINEERING CHECKLIST

- DESIGN**  
DESIGN COMPONENTS TO SUIT THE REQUIREMENTS OF A CHOSEN PRODUCTION PROCESS, THE MACHINERY INVOLVED AND THE SUPPLIER'S CAPABILITY TO MAXIMISE QUALITY AND PRODUCTIVITY.
- MATERIALS**  
PICK THE OPTIMUM MATERIAL FOR EVERY COMPONENT. USING AN UNFAMILIAR MATERIAL? CONSULT THE EXPERTS TO AVOID DROPS IN QUALITY AND CONSISTENCY.
- PROCESS DESIGN**  
COMBINE MULTIPLE PROCESS STEPS UNDER ONE ROOF AT A SINGLE SUPPLIER TO ELIMINATE INEFFICIENCY AND CREATE CLEAR ACCOUNTABILITY FOR PART QUALITY AND DELIVERY PERFORMANCE.
- TOOLING**  
MAKE USE OF COMPUTER SIMULATION TECHNIQUES TO EVALUATE THE PERFORMANCE OF THE MANUFACTURING PROCESS IN A VIRTUAL ENVIRONMENT.
- QUALITY SYSTEMS**  
USE PROVEN QUALITY MANAGEMENT TECHNIQUES WHEN DESIGNING, MANUFACTURING AND TESTING COMPONENTS. THIS PREVENTS DEFECTS AND ENSURES OPTIMUM QUALITY.
- DOWNSTREAM ACTIVITIES**  
THINK ABOUT EVERY COMPONENT IN THE CONTEXT OF THE BROADER VALUE STREAM TO SIMPLIFY PROCESSES, ELIMINATE WASTE AND ACCOMPLISH MORE VALUE.
- THROUGH-LIFE IMPROVEMENT**  
THE IMPROVEMENT OPPORTUNITIES DON'T STOP WHEN PRODUCTION STARTS. IMPLEMENT AN ONGOING PROCESS OF REVISION AND REFINEMENT TO ACHIEVE HIGHER QUALITY AND LOWER COSTS.

DOWNLOAD DAWSON SHANAHAN'S FREE GUIDE TO TOTAL PRECISION ENGINEERING TO LEARN HOW TO INTEGRATE THE ABOVE ELEMENTS AND FIND BETTER WAYS TO MEET YOUR CURRENT PRECISION MANUFACTURING REQUIREMENTS



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