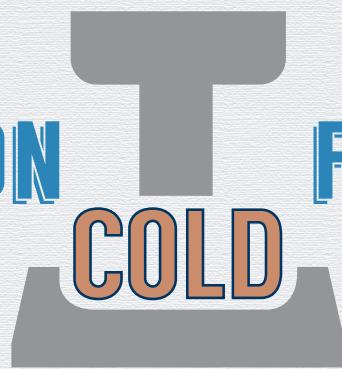




# Dawson Shanahan

Precision Engineering & Cold Forming

## WHAT IS PRECISION **COLD** FORMING?



“PRECISION **COLD FORMING** IS A MANUFACTURING PROCESS BY WHICH METAL IS SHAPED WITHOUT REMOVING MATERIAL. A BLANK IS PLACED WITHIN A DIE AND A PUNCH IS PRESSED INTO THE BLANK AT AMBIENT TEMPERATURE. THE BLANK TAKES ON THE FORM OF THE PUNCH AND THE DIE.”

## BENEFITS



**70%**  
TOTAL COST  
REDUCTIONS  
OF UP TO 70%



**DIMENSIONAL TOLERANCES  
TO WITHIN PLUS OR MINUS  
2 MICRONS**



**80%**  
LESS WASTE  
MATERIAL

**ZERO**  
LIMITS TO THE  
SHAPE, SIZE OR  
COMPLEXITY OF  
METAL COMPONENTS

## COLD FORMING AT DAWSON SHANAHAN

**30** **MILLION**  
**COPPER PARTS**  
**COLD FORMED**  
EACH YEAR

**48**  
**COLD FORMING**  
MACHINES

**HYDRAULIC  
PRESS**  
PRESSURES TO  
**600**  
**TONNES**

**OVER**  
**60 YEARS**  
**EXPERIENCE IN**  
**COLD FORMING**


**300 TONNES**  
**OF COPPER COLD FORMED**  
EACH YEAR



## COLD FORMING IN ACTION

“CREATED IN PARTNERSHIP WITH A LEADING PHARMACEUTICAL COMPANY, DAWSON SHANAHAN DEVELOPED COMPONENTS FOR A REVOLUTIONARY NEEDLE-FREE SYRINGE DESIGNED TO RELIEVE THE SUFFERING OF PATIENTS WITH CENTRAL NERVOUS SYSTEM (CNS) AND PAIN DISORDERS.

“DAWSON SHANAHAN USED THE **COLD FORMING** PROCESS TO ACHIEVE SPECIALLY ENGINEERED PARTS, WITH A HIGHLY ACCURATE PROFILE AND FINISH, WHICH ARGUABLY COULDN'T HAVE BEEN PRODUCED TO SUCH EXACTING STANDARDS OR AS COST EFFECTIVELY VIA ANY OTHER METHOD.”

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