



*“Setting the New Standard in Sheetmetal”*

## CUSTOMER INFORMATION

### ELECTRONIC DRAWING TRANSFER PROTOCOL

2014 ISSUE

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## Table of Contents

Introduction.....	2
Quotation and Estimation .....	2
Production, Programming and Design .....	3

## Introduction

For the benefit of our customers, SMC Precision Sheetmetal has the ability to accept orders and drawing files over email. This will ultimately decrease the processing time involved in administration, thus decreasing the time it takes to produce your sheetmetal components.

SMC ask if all files could be zipped together in one single file and emailed to us. If the attachment is over 8Mb, the files must be sent via multiple emails, posted on a CD/DVD or given to your sales representative. In addition to this, SMC can create an FTP access location for your company.

## Quotation and Estimation

Please send drawing files in the following formats (in order of preference):

1. Acrobat Reader                   \*.pdf
2. AutoCAD                           \*.dwg / \*.dxf
3. SolidWorks                       \*.sldprt
4. STEP                               \*.STEP or \*.STP

If your preferred file type is not supported in this preceding list, please contact SMC Staff to confirm prior to sending the files.

Please ensure that any drawings sent have all of the relevant information documented on them:

- Drawing Number
- Revision
- Date Issued
- Material Type, Thickness and Finish
- Fasteners/Hardware
- Finishing Requirements
- Dimensions – overall dimensions, hole sizes/locations, and any tolerances you require

## Production, Programming and Design

Once a purchase order has been received, production requires files in the following formats for the purpose of manufacture (in order of preference):

1. SolidWorks                   \*.sldprt \*.sldasm
2. Inventor                     \*.ipt
3. DXF Files                    \*.dxf
4. Geometric Files            \*.geo
5. AutoCAD                     \*.dwg / \*.dxf
6. Acrobat Reader             \*.pdf
7. Samples

After importing your files into the above file types, SMC will apply the correct bend allowances / K-Factors based on our tooling and manufacturing methods as well as any other issues which may arise (clearances, bend relief's, welding overlaps etc.)

Once this has been completed, the component is then imported into TruTops or AutoCAM CNC Software. This gives us the flat pattern required for either punching or laser cutting.

Note: It is vital to include a fully dimensioned drawing amongst your files when sending 3D content digitally. This drawing will be used for Quality and Control in the production process. This drawing must have all necessary dimensions for bending, forming, holes and cut outs, inserting details, and any critical note required to produce your component.

Please ensure it is clearly marked on all drawings whether measurements given are internal or external in relation to any folds.