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"Partnerships in Manufacturing"
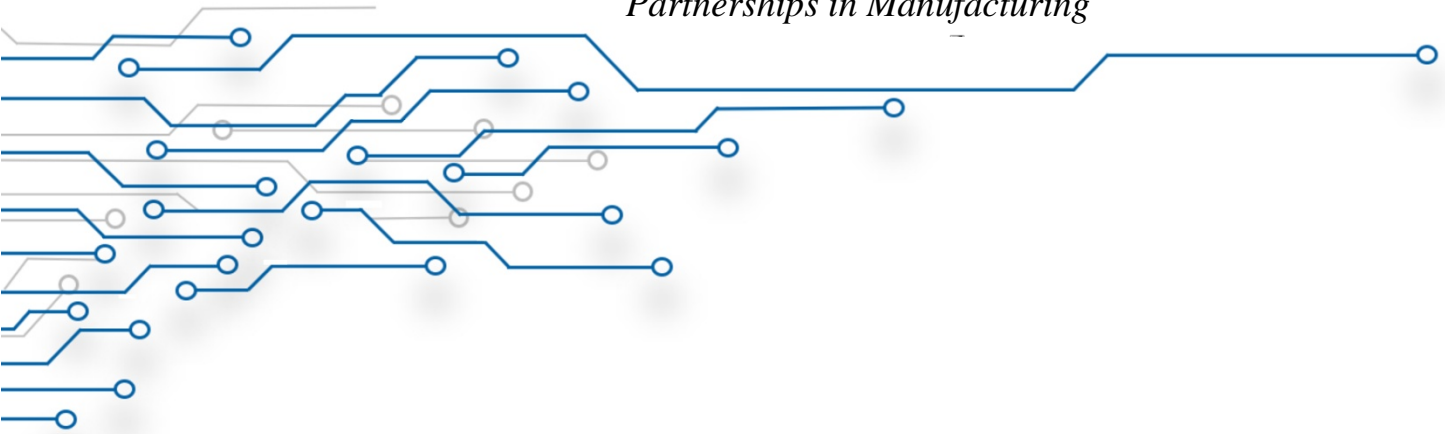
BILL OF MATERIAL DATA FORMAT

Bill of Material Data Format

This bulletin documents a general set of specifications to facilitate the transfer of Bill of Material (BOM) information, via electronic media, from a customer to Solutions Manufacturing.

The specifications are not intended to be an exact requirement for data format, but merely as a guideline. Using these recommendations will allow much more efficient input of this data into our ERP system, Pick-and-Place programming software, and quoting systems.

Additional benefits that will be realized include:

- Quicker turn-around of job quotations
- Significant time-savings in data input
- Cost savings in Pick-and-Place programming
- Improved accuracy of data with less chance of error

BOM DATA SPECIFICATIONS

1. BASIC DATA REQUIREMENTS

In order to provide data needed by these systems, the following is a minimum set of desired data fields. The field lengths noted are *maximum* sizes. While any size can be accommodated by padding or truncation, in the case of certain fields such as PART NUMBER, truncation in particular is not desirable.

DATA FIELD	LENGTH
COMPONENT PART NUMBER	25
DESCRIPTION	40
ASSEMBLY PART NUMBER	25
QUANTITY PER ASSEMBLY	9
REFERENCE DESIGNATORS	Unlimited

2. ADDITIONAL DATA

In addition to the data fields noted above, the following data is required for purposes of quoting turnkey material for an assembly.

DATA FIELD	LENGTH
MANUFACTURER	20
MFG. PART NUMBER	20

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3. FILE FORMATS

Almost any delimited ASCII format can be handled. 'Comma-delimited ASCII' is one that can be easily accommodated. An example of this format follows. Note that it is especially preferable to isolate fields containing spaces in some way that is easy to identify.

"PART NUMBER","DESCRIPTION","QUANTITY","MFG","MFG P/N","REF DES"

Although ASCII is the preferred format due to less conversion required, we can also accommodate data in several spreadsheet and database formats including:

- Excel
- Access
- ODBC

4. MEDIA FORMATS

Whenever possible, files should be compressed into a single archive volume using ZIP format to reduce data transmission time.

Data files should be emailed to your account manager.

If desired, data files may be supplied on USB.

Please send any questions to sales@solutionsmfg.com.