

# Automated Manufacturing with P.E.P.

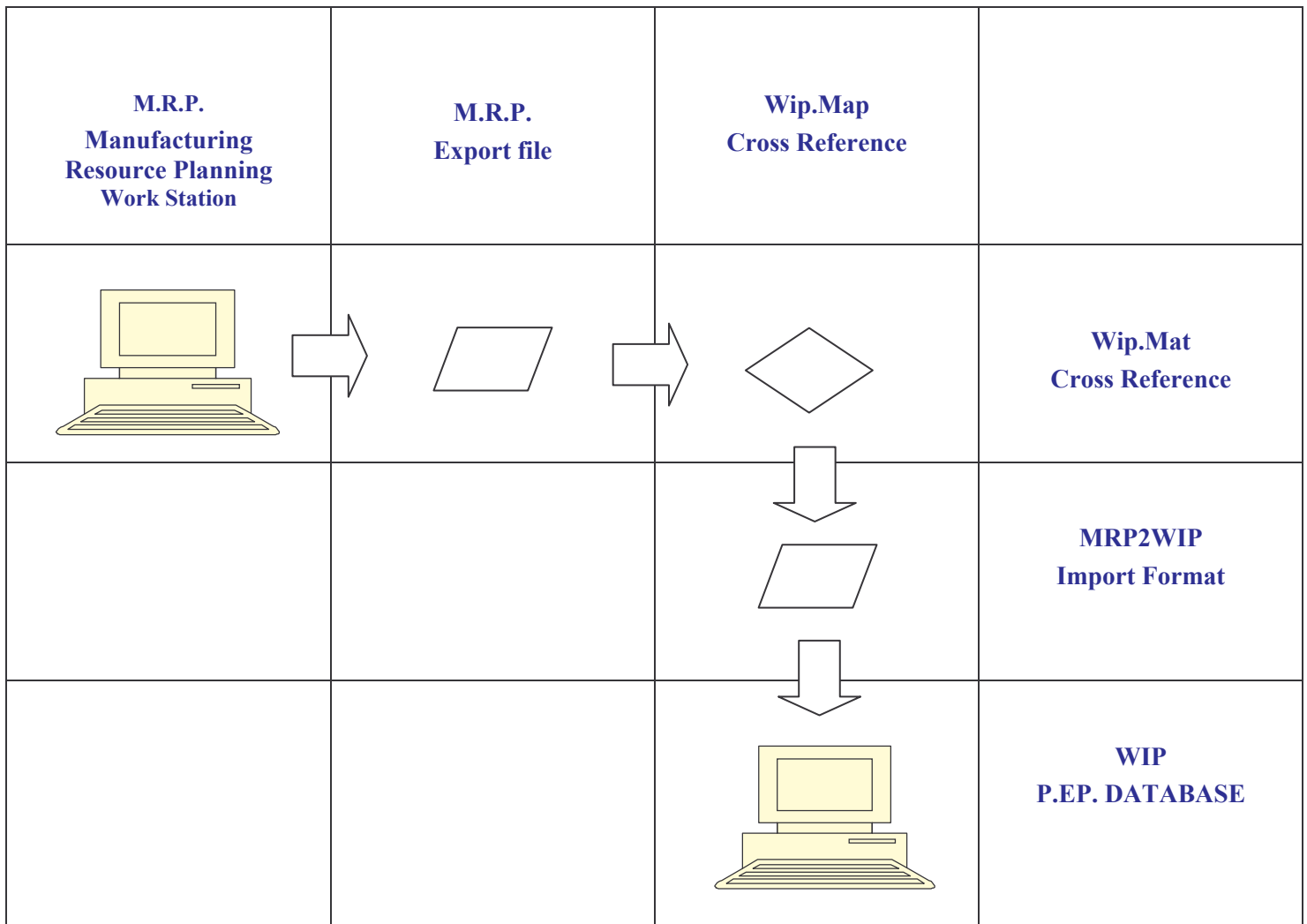
## MRP to WIP

### AUTOMATIC IMPORTING OF THE MRP DATA INTO THE P.E.P. WIP DATABASE

The interfacing between P.E.P. and MRP software products such as Global Solutions, Vantage, Quantel, IBM ASP, Job Boss, Oracle, Metaware and Excel spread sheets is a simple ten minute project to setup, and once setup it runs automatically. There is no programming involved!

The interface is done using the P.E.P. Mapping Software. The Mapping software translates the MRP data into the P.E.P. format. The setup of the Mapping software is so simple that anyone in the company can do it in less than 10 minutes. There is no programming involved!

### The P.E.P. MAPPING Flow Chart



## Here is what you need to know about the Mapping Software:

- **DATABASE FORMATS**

No two MRP products use the same database format or material description to track jobs and that applies to the P.E.P. work order and material databases. We corrected this problem by writing mapping software that cross references the MRP and P.E.P. software formats automatically.

- **The P.E.P. MAPPING SOFTWARE**

The P.E.P. Mapping software will performs the task of cross referencing the Export file data into the P.E.P. Import format seamlessly and instantaneously as though the two unique products were using the exact same database formats.

- eliminates writing a program to translate the Export Data file format into the WIP format.
- eliminates writing a program to translate the MRP Material Description into the P.E.P. format.

- **The MRP EXPORT DATA FILE**

The MRP export data file contains the MRP work order data that is to be processed. The format of the work orders, drawings, quantity required, material type, due date, etc. is not important, the mapping software will convert the data into the WIP import file format automatically using the cross reference below filled in by the user.

The MRP export file must contain the following data for WIP to function properly:

- Work Order, Drawing Name, Qty Required, Date Required and Material Description
- WIP is capable of tracking other optional information depending upon the user's needs
- The export file must be a Coma or Coma-Quote," ", Delimited file.
- The Export data file can have any first name with a file extension of ".txt" or ".csv".
- The Export data file must be saved to the C:\PEP\WIP\MRP2WIP\ directory.
- The data in the file can contain multiple work orders and material types.

### WIP.MAP CROSS REFERENCE FILE

#	WIP Database Field Description	MPR Export File Fields
1	Work Order #	Field # 1
2	Drawing Name	Field # 2
3	Qty. Required	Field # 3
4	Date Required	Field # 4
5	PEP Material number	Field # 5
6	Material Description	Field # 6 (optional)
7	Date Received	Field # 7 (optional)
8	Customer Name	Field # 8 (optional)
9	Customer Number	Field # 9 (optional)
10	Sales Area	Field # 10 (optional)
11	P.O. Number	Field # 11 (optional)
12	Comments	Field # 12 (optional)
13	Material Thickness	Field # 13 (optional)
14	Heat Lot	Field # 14 (optional)
15	Specifications	Field # 15 (optional)
16	Revision	Field # 16 (optional)
17	Mode	Field # 17 (optional)
18	Qty. Allocated	Field # 18 (optional)
19	Qty. Cut	Field # 19 (optional)

- **The IMPORT DATA FORMAT**

The Import data format is the same format used by the WIP database. Whether the export file is output in the same format or not is inconsequential because the mapping software will cross reference the data in the export file and save the information correctly into the WIP database.

- **The WIP.MAP file**

The Wip.Map file is used to cross reference the MRP export format with the work orders, drawings, quantities, etc. to the WIP import format used by the WIP database.

- The user sets up the cross reference file one time.
- The WIP.MAP file lists the key data types that can be mapped into WIP.
- The required data are; Work Order, Drawing Name, Qty Required, Date Required and Material
- The WIP.MAP file must be saved to the P.E.P. workstation in the C:\PEP\WIP\WIP.MAP drive.

**MRP Export File Example**

In this example we have Work order, quantity required, Drawing, Due date & Material description  
 WO-001, 25pcs, A100, 03/10/03, MS512 .25” thick  
 WO-002, 10pcs, A200, 03/11/03, SS304 10 Gauge  
 WO-002, 25pcs, A300, 03/09/03, Al6061T6 .125” thick

- **The WIP.MAT file**

The Wip.Mat file is used to cross reference the material type for each drawing in the export file to the P.E.P. Material database.

- The mapping software creates the material cross reference file automatically
- As new material types are found in the export file the user will be prompted to input the corresponding P.E.P. material number by highlighting the material in the P.E.P. database.
- As previously exported material numbers re-appear in the MRP export file the materials will be matched up to the WIP.MAT file automatically without interrupting the conversion process.
- The WIP.MAT file is automatically created and saved in the “C:\PEP\WIP” directory

**Example of the WIP.MAT file –**

Contains the Material cross reference MRP Material description to PEP’s Material Type number

**MRP MATERIAL CROSS REFERENCE**

#	PEP Material Number	MRP Material Description
1	0012	MS512 Plate .25
2	0033	SS 304 10 Ga
3	0056	Al6061T6 .125

Below is how the data is formatted for the WIP database. The work order and due date appear on the 1<sup>st</sup> line with the drawing quantity and PEP material number on the next line below the work order number.

WO-001, 03/10/03	Work order number and due date
A100, 25, 0012	Drawing number, quantity and material type number
WO-002, 03/11/03,	
A200, 10, 0033	
WO-002, 03/09/03	
A300, 15, 0056	