

### P.E.P. CAD CONVERTER SAVES "3.5" HOURS DAILY

#### PEP Software Module: Cad Converter

**Customer:** Sureway Metal Systems.     **Contact:** Don Smith / Cutting Department Manager

**File:** Item61.dxf

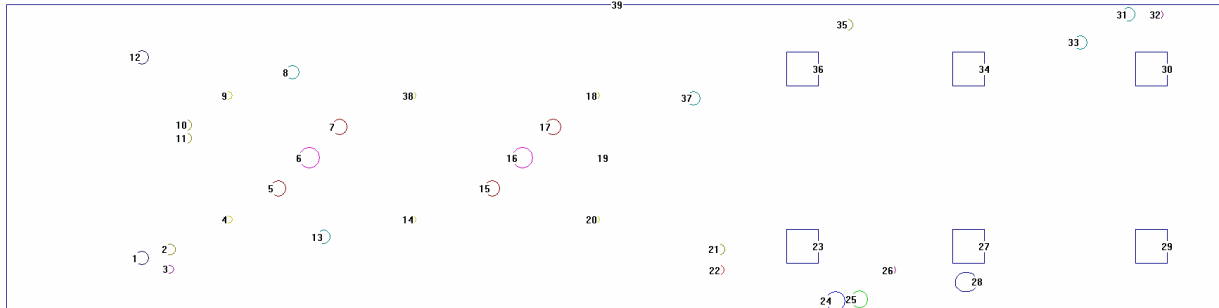
**Former Software:** Turbo Cut / Design Cad

#### Breakdown of actual job run at Sureway Metals:

Simple Cad Drawings like the one below were taking the programming department at Sureway Metals more than one hour to clean up, sequence, assign lead-ins, nest and post the part. Since purchasing P.E.P., they now do the same job automatically in less than 5 minutes.

#### Process: PEP → Total time 3 minutes 47 seconds

- a) Cad Convert customers dxf / **10 seconds**
- b) Auto Nest and post / **33 seconds**
- c) Operator download nest to machine / **3 minutes.**
- d) Press the start button on the machine control **2 seconds.**



The P.E.P. Error Report produced "Automatically" at the time of converting the CAD file above.

P.E.P. CAD CONVERTER REPORT		
Date	: 05-24-2006	
CAD File:	C:\DLOAD\NEW ITEM61.DXF	
<b>DESCRIPTION</b>	<b>STATUS</b>	<b>COMMENTS</b>
Duplicate geometry	68 found	68 duplicate geometry found and removed
Overlapping geometry	Ok	No overlapping geometry found
Orphan geometry	Ok	No orphan geometry were found
Blend alignments	1 found	Geo=36, StartPoint=.0253, EndPoint=.0062
Arc slot realignment	Ok	No arc slots needed realigning

#### Process: Turbo Cut / Design Cad → Total time 1 hour 35 minutes

- a) Import part into Design Cad file format. (.dc2)
- b) Manually clean up file...broken lines, double lines, etc. / **30 minutes**
- c) Manually Draw Lead ins and lead outs in design cad. / **20 minutes**
- d) Put all geo's to be cut on one layer.
- e) Kerf every cutout. (Item61 has 127 holes) / **15 minutes**
- f) Convert .dc2 file into Turbo Cut format.
- g) Generate NC code through Turbo Cut.
- h) Bring part back into Design Cad and fix bad geo's that Turbo Cut created. / **20 minutes**
- i) Send single part file out to the work center where the operator creates a step and repeat grid. / **10 minutes**

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## **AN INTERVIEW WITH DON SMITH @ Sureway Metal Systems**

1. What is your title? **Burning/Laser Manager**
2. What are you responsible for? **Engineering, Prototyping and Programming**
3. How long has Sureway been operating cutting machines? **35 years**
4. How many lasers are you responsible for? **1 laser 2 flame tables**
5. How many years of experience does the most experienced programmer have programming lasers? **6 years**
6. How many years of CAD experience does the most experienced programmer have? **6 years**
7. What Cad software was used to create the drawing? **Design Cad, customer supplied the file.**
8. Who converted and nested the part with P.E.P.? **Laser Programmer**
9. How many parts do you expect to convert and nest each week? **Unlimited**
10. Other than the automation, what is the most impressive feature of the Cad Converter? **Ease of use**
11. What do you see being the biggest advantage to converting with the P.E.P. Cad Converter? **Speed, Ease of use.**
12. Did you believe P.E.P.'s claim about doing 8 hours of programming in less than 2 hours? **No, I do now!**
13. What programming feature other than the Cad Converter do you like the most? **Plate consumption is far less than I thought it would be using auto nesting.**
14. How much will the Cad Converter impact new sales? **Hard to say, I do know that the programming / cutting department will operate twice as efficient as it did before the PEP purchase.**



**Sureway Metal Systems Ltd.**

**Along with all this, I have to say that the product support at PEP is by far the best I have ever dealt with! PEP's support staff have been extremely helpful in every issue that came up. They have never made me feel like "not this guy again".**

**This program saves me a lot of time, time is money! The PEP Software is very easy to use and I can not stress enough how much everyone needs it. All said, I cannot think of one single downside to this software or it's support. Everything has been great and I look forward to a long relationship between Sureway and PEP. Thanks P.E.P. Technology, for everything!**

**Don Smith  
Sureway Metal Systems  
Laser / Burning Department Manager**

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