### A Computer in a Finishing Shop? -What a Novel Idea!

Ira S. Handelsman, Cornerstone Systems, Inc., Crystal Lake, IL USA

If you were to put a PC in your shop, you can do the following: Control your business with a shop management software program; advertise your business nationally and locally with a website over the Internet; buy and sell goods and services using e-commerce; and communicate with employees, friends, family and customers by e-mail. Many more uses will be explored.

For more information, contact: Ira S. Handelsman General Manager Cornerstone Systems, Inc. 333 Commerce Drive Suite 200 Crystal Lake, IL 60014 USA 800.275.4274 ira@ask4csi.com www.ask4csi.com Computers have become an everyday word. Everywhere you turn, there is a computer looking at you. **But why should Finishers turn to computers?** 

According to Products Finishing's Steve Kline on a past article that he wrote, he says: "Although information cannot be found on the balance sheet, it is perhaps the most valuable asset of any company. In recent years, many companies maintained this valuable asset in numerous file cabinets or a couple of databases, one for accounting and one for shipping/receiving and so on. When the information was needed, an employee searched through various cabinets or databases and pieced the required information together. But more and more companies realize that the real value of information comes not from maintaining it, but from their ability to distribute, compute and analyze it virtually instantaneously. Why are these capabilities so important? Because with them a company can better understand costs, increase efficiency and improve communications with customers."

#### What do finishing shops say about a computer program that runs their business?

"...allows us to grow our business, better service our customers, and increase the bottom line by putting in place processes that maximize our productive resources while minimizing non-valued added activities."

"...we now have the capability to minimize overhead and accordingly track orders though the plant, which increased our productivity. ...supplies our personnel with real data that they can rely on and manage, but our customers have relied on the security of knowing we can provide them with the information they need."

"Process control is vital to the metal finishing industry. ... arranges process masters and makes it easy to fine tune specific processes, even by part number. ... order entry, parts pricing, and invoicing control has helped us manage our company efficiently to serve our customers needs for fast accurate technical information."

"...allows us to communicate to our customers, giving them solid information on their job and its status."

#### Advantages of adding a shop management program:

- 1. It's quicker
- 2. More information for better decision-making
- 3. Frees key people up in the shop
- 4. Helps eliminate mistakes
- 5. Accurate record keeping
- 6. Audit Trail
- 7. Saves on labor
- 8. ISO certification
- 9. Ability to do repeat orders

#### How will this make us better finishers?

- 1. It will save your people time
- 2. Shop becomes more efficient
- 3. Eliminates parts being lost
- 4. Be able to track orders when a customer calls
- 5. Produces backlog reports
- 6. Amount of reworks will decrease
- 7. Enter information only once
- 8. Recapping business activity for each month becomes easy
- 9. Produce at a higher rate
- 10.Historical information at your fingertips

#### Why can't we continue to be on the manual system?

Both big and small shops are on manual systems, and there is nothing wrong with that way of doing business. It has worked for some companies that I know of for the past 60 years. I recently visited a company that has been doing it for the past 40 years, but realizes that a change is needed. However, today we live in a computer world, where our children are being taught the use of computers from 1<sup>st</sup> grade and up. Our news of the world is being first reported over the Internet, and the Internet is vastly becoming our new means of communication.

Manual system operated shops are sometimes afraid of the computer. Being afraid of striking the wrong key, and wiping all the information out. However, computers are becoming easier to operate each and every day. There are so many resources to learn computers from. There are computer books as well as all types of trade magazines from beginners all the way to the most technical oriented users. Of course there are school courses being given all the time on Windows 95, 98, 2000, XP, ME and also courses on the Internet.

Once you overcome the initial fear of computers, you can see how valuable a tool that a computer system could do for you personally and for your business. Energy previously expended entering orders by hand, invoicing, checking on shipments, typing or copying statements and summarizing information for projections or reports, can now be handled by a software program. You can print, fax, e-mail customer statements, provide accurate entry of shipping tickets (invoices), customer's sales history, quotation, shop tracking and accounts receivables, etc. You can even e-mail and fax information directly to the customer. You only enter information once, therefore eliminating mistakes on repeat customers. Recapping your business activity for each month becomes easy. Sales and customer history are automatically available when needed.

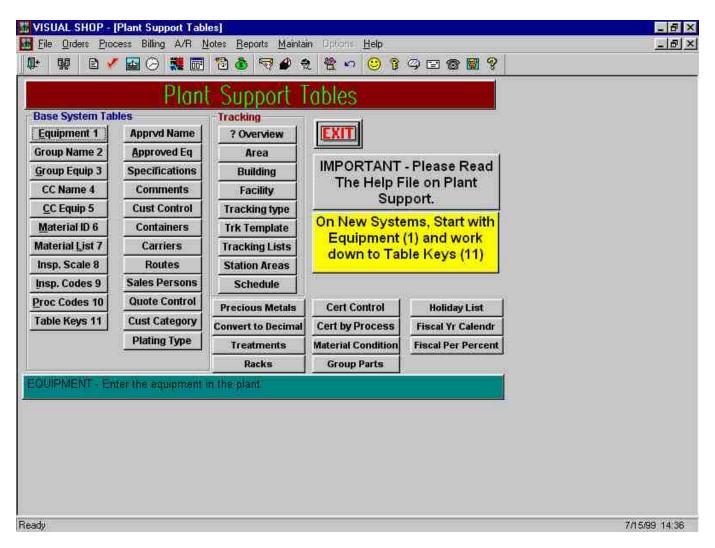
#### How will a program grow my business?

A software system provides the finisher with the most important functions needed to increase overall efficiency. Time being spent before out on the floor looking for parts, orders that were not written up correctly etc, can now be better spent with your customers and production areas.

#### The following are screen shots of a typical program for the finishing industry:

**Quotations**: Create quotes to send out to customers via e-mail or directly fax from the computer. Quotations link to order entry, process masters, and invoicing. A quotation can consist of multiple parts with each part having its own pricing. In order entry, the computer automatically attaches a quote based on an exact part ID match.

VISUAL SHOP - [Quotations - by JD]	- Durada Mantala Davida Ha		
🖬 File Orders Process Billing A/R Not	the second location of the second	▫ ▮	X
Quote Id:       0       Cust Id:         Cus Name:	Turnaround: Phone: Fax: Route: Carrier: 4/1999 \$ Value: Terms:	Delivered BV     Search       Phone     Ruote ID       Y Mail     Cust ID       Fax     Cust Name       \$0:00     Visit       Prints     Part Name	
Rows Parts and F	rices	Parts / Price Parts and Prices Add Preview/Hide	
Short Quote - Prices and P	arts on 1 window 🕫	Insert Delete Copy / Paste E	
Quote Header Information.			7/16/99 8:11



The **Plant Support Tables** is where base information is loaded into a system. Everything is built upon this information. In a sense, it is the foundation of the system.

Chicago Po: 11 Via: No	203-A	Inc. IL 12345	Tar: Req: 01/22/	in: 1/ 89 By: JC Printed: By: JC		Ph: (972) 578 Fx: (972) 379 CE	-7087 -3875 ( RTS	Order Numb	er Code Load 56 1	
	Qty			nber / Part N	ame / Part Desci	ription		Ea Wt.	Lint WL	
1		31ab Bracket				01000000000		0	0	
	150	Order Qty: Order Net	150			Load Qty: Load Net:	150		0	
Part Info	Length Material	2 Width		eight: 3 cess:	Dia: 1.3	Thick: 0.3 Sq*; 0	Qty/Ld Units/Hr		s/Ld: 0 g'/Ld: 0.0	
	MNERS	Number		Gross Wt.	Tare	Net		and the second second		
Box Skid		1	100	0	0	0	Accession		Contraction of the local division of the loc	
Distantion of the local distance	an ID: 7	inc Plate	50		-		A STATE OF	1	-	
		te sure parts are	clean when	done			1.5765	3-18.0		
CIULTER AND	CTION	The second second second second	Min	Max	Value .004			1	~	
D	ss Step						1	2000	Sec. Sec.	
	inc Plat	te Gr	roup: Plati				10.00		_	
100	DMMH-N	T: Parts should			Outlass 10	0.0022200				
C	Contraction and	arreis. 300 ib	이 그 다 안 나라나 한 다 봐야?	i. 5.0 vons	. Cycles: 180	seconds	research have	2.0	_	
0	scillate t	X93 BABASADA 25 BAARD	inun: 12							
C( 0) 2 Bi	scillate t ake	Gr	roup: 12							
00 2 Bi	scillate t	Gr	C Martin	op Orde	er					
C( 0) 2 Bi	scillate t ake	Gr	C Martin	op Orde	ər					
00 2 Bi	scillate t ake	Gr	C Martin	op Orde	er					

Shop Order will contain a wealth of information.

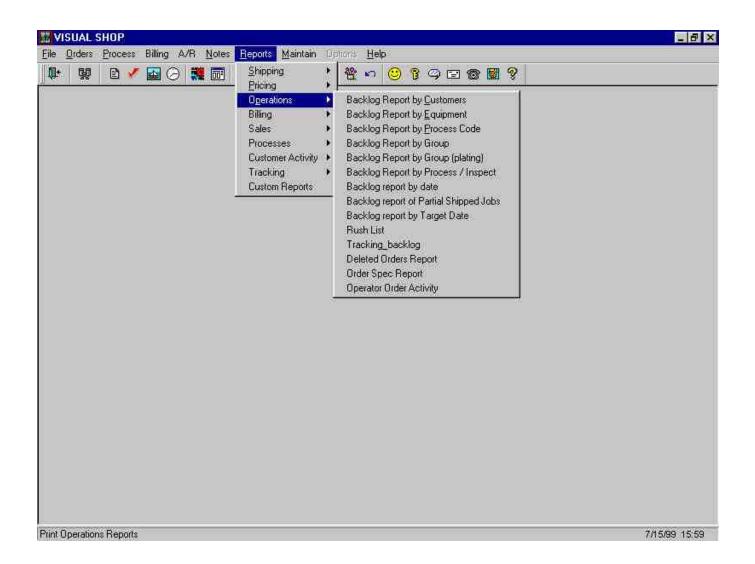
- 1. Order header will contain the customer information such as PO number, ship to and receive from addresses, requested date, rush date, etc.
- 2. Containers that were received, quantity, and pounds.
- 3. Parts name, ID, and description.
- 4. Serial numbers.
- 5. Process master is searched and displays general process master information.
- 6. Inspection requirements.
- 7. Process Steps is the instructions that are carried out to perform the process.

			AB	C Plating	Company	Order N	o.: 140
		Certification			Dat	Date: 01/19/1999	
			C	vi tilli	cation	Entry Dat	Entry Date: 01/19/199
To:						Pag	e: 1 of 1
Chase Screws	Inc.						
350 Second S	treet			F	Purchase Order M	lo.: 11203-A	
P.O. Box 300	20.45				Packing List N	lo.:	
Chicago IL 12	2345			3	Mater	ial: Steel	
We are pleased to Quantity			art Name / P		ion		Pounds
150 Make sure parts a	31ab Brack	et		an bosonp			0
Insp. Type	Scale	Minimum	Maximum	Number	Other		

**Certifications** are based on Cert Formats. You can specify a particular format to be used. If there are no specific formats selected, then the computer will assign the cert to a standard format. Different formats for different customers.

	<sup>y</sup> (Assign Pictures to Parts) <u>Process</u> Billing A/R <u>N</u> otes <u>R</u> ep	orts Maintain Botion	Help			
	🗸 🔤 🕗 🗱 🛅 🔞 💩	- 		0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
m Clear Cus	t]	Show Pic: 🔽	Get From File	()	humnails; 🔽	
Part ID: 3 Prt Nam:		Print Lock zoom:	Delete pic / row	Dir: e:\H File: BOL	sw\BITMAPS\ T_CO.BMP	
-	Part ID Name Description	Proce	ss ID Rev No. Cu			
malle	31 bracket	, stelve	ho Plate hase Screws Inc.	1	1 100	
	88 Harden Belt	Thick	Inches	0.0	0.0	
	31A B	Zit	nc Plate		1	
H	Bracket	C	hase Screws Inc.		100	
1000	67 Harden Belt	Thick	Inches	0.0	0.0	
11	3-21AX3 Bolt		te 1-3 B hase Screws Inc.		100	
Carrier Carrier	1 X 3	Tenths	Thicknes	2.0	5.0	
	356	ali	case test 1		1	
No.		זד	ne John Smith Corr	pany	1011	
	43 Harden Allcase	Harden	HR	60.0	62.0	
Gr -	373-1A Rings	10204	n <mark>c Plate</mark> hase Screws Inc.		1	
No.ecc	221 ·				100000	
A AMERICA	1064 Harden Belt	Thick	Inches	0.0	0.0	

The **expediting** window allows you to look up orders, review current order status and order information, place jobs on rush, post information to the customer history tables, post notes through the note system, print quick backlogs, and automatically log transactions to the current history table when order is reviewed. It data logs everything. Keep track of whatever takes place with that order: who entered it, who shipped it, etc.



**Reports** are very important to have. As described above, you can see what types of reports that can be made available to you with just dealing with operations.

#### Invoicing

e <u>E</u> dit ⊻iew <u>G</u> o F <u>a</u> vontes <u>H</u> elp					
VISUAL SHOP - [Invoicing - by JD]					
File Orders Process Billing A/R No		ons <u>H</u> elp		18	
* 🖞 🖻 🗸 🔛 📿 💐 🛅	10 💩 🤜 🖉 🐔 😤	🏼 🙂 🖁 🎱 I	3 🚳 📓 🧞		_
LOCKED Doc # 1-103	*Yal 85 1 35	nase Screws Inc. D Second Street licago IL		Price Struct	
Updated To WR Printed Invoice			6.56	Part# Add	
Order: 140 in: 01/19/1999	0ut: 01/19/1999 Ship q	tv: 150	tal Order \$	Spec Upd Name Clear	
Steel/Harden Port 11203-A	10. Miles 10.	s: 0.00	00 0000	earch by Cust	2
	har	and Early Vit		Controls	
150 S1ab		0.00	0.00		
1 of 1 Bracket		<b>S</b> 67	Totals	1 A A A A A A A A A A A A A A A A A A A	
150			0.00	Save Print	
cing		Price by	Process	cancel Esit	
Process Code Equip Group Costs		1 of 3		Options	
Zinc Plate 0 Plating Setup + Price X Unit Type or Mininu	D D m. Price Code	Units	Bollors	Detail M B	5
sustained by the second statement of the second statem	50.00	150.	8201 79	Process New Distrib Price	
				Status Date	ŝ
Process Code Equip Group Costo Bake 0 12	enter Job Ran n Part Row	2 of 3	-	Delete Copies	8
Setup + Price X Unit Type or Mininu	m Price Code	Units	1	Rows/Copy	
\$0.00 \$0.93183 \$2ty 1	25.00	150.	<u>\$139.77</u>	Add Ins Del	
Process Code Equip Group Costo	enter Job Ran In Part Row	3 of 3	Ū	Preview p Dwn Print	
Cert 0					1
Setup + Price X Unit Type or Mininu \$0.00 \$25.00 Flat Charge	m Price Code \$0.00	Units 0.	Dollars		

Automatic creation of invoices based on memorized pricing or quotes. When a job is shipped, the invoice is automatically created if the job is a repeat job, then it is automatically priced. Also have the ability to do multiple orders on one invoice and partial billing. You can change an invoice at any time.

There are many types of pricing that a system should do: part pricing, process pricing, process pricing by customer, process grid pricing, grid or dimensional pricing, bracket or step pricing.

Al		voice ting Co		ny		
Invoice No.: 1 – 103 Invoice Date: January 18, 1999 Terms: Net 30 Page No.: 1 of 1 Bill to:				Remit To ABC Plating C P.O. Box 18 Crystal Lake II		ă.
Chase Screws Inc. 350 Second Street P.O. Box 300 Chicago IL 12345				Sold to: 100 Chase Screws In 350 Second Stre P.O. Box 300 Chicago IL 123	et	
Part / Price / Description	Part Qty	Part Lbs	Units	Price Method	Unit Price	Amoun
Order #: 140 PO #: 11203-A		******				
31ab Bracket	150					
	2	Zinc Plate	150	Per Each	\$1.3453	\$201.78
		Bake	150	Per Each	\$0.93183	\$139.7
S 22-Set S-SKITZD PZ AS BARDING A Des	Ce	rtification		Flat Charge	\$25.00	\$25.0
Thank you for your business						
			Pay	y This Amoun	t	\$366.5

**Process Masters is a set of instructions to do a job from start to finish** A **part** is assigned to a process master. When a part comes in it is automatically linked to a process master. A generic process master is a standard process that the shop does. In the parts system, the generic master can be tweaked for that particular part by altering the racking instructions, packing instructions, etc. Record all types of production rates for the part: the size, price, color, etc.

a segmentation and the second second	art Maintenance]	B			- 8 >
A CONTRACT OF THE OWNER OF THE	s Billing A/R <u>N</u> otes	The second second second	ons <u>H</u> elp		_6
₽ 號 🗄 🔨	🔤 🖂 🌉 🖬 🔞	💩 🤜 🖉 👻 👻	n 🙂 🖁 🥥 🖬	2 🕲 📓 ?	
Part ID / Name / Descr	1 of 1	Process ID / Custome		Search / Change Parts Part List Type / Material list Full List C Part Price C Price Table	
PO Number:		🗍 On Hold	Rev: 1	Part ID:	
Dimensions Wt Per: D1: Type Part Information Plating Type: Paint Type/// Paint used by part: Eot Number: Eot Number: Color: Treatment Code	Räck ID: Räck ID: Material: Pow Powder us Sp	0 D4: tion Category der Type/#: ed by part: Seal : seal :	0 Sq Certify? 0 Th: 0 Certify? No Cert Format Line In: 0 0 Request Days 0 Recipe Verified	Hame: Material: Part type: Clear Cust Find Prev Next Show Delete Sort Rows Delete Sort Step Overlays Proc Steps Print Overlays New Part	
Part Specification - Text -	150 characters R			New Part Duplicate	
Part Specification - Text Metal Type 1: Metal Type 2: Metal Type 3: Metal Type 4:	Price Price Price	of Metal 2: 0 Oz of Metal 3: 0 Oz	Metal 1: 0 Metal 2: 0 Metal 3: 0 Metal 4: 0	New Part     Duplicate       Controls     Quote       Get     Get       Print     Print       Maintenance     13	
Metal Type 1: Metal Type 2: Metal Type 3:	Price Price Price	of Metal 2: 0 Oz of Metal 3: 0 Oz	Metal 2: 0 Metal 3: 0	Controls Quote Cet Print Maintenance	
Metal Type 1: Metal Type 2: Metal Type 3: Metal Type 4: Containers per Ld: Sq." per Ld:	Price Price Price Price	of Metal 2: 0 0z of Metal 3: 0 0z of Metal 4: 0 0z	Metal 2: 0 Metal 3: 0 Metal 4: 0	Controls Quote Cet Print Maintenance	
Metal Type 1: Metal Type 2: Metal Type 3: Metal Type 4: Containers per Ld: Sq " per Ld: Racks per Load:	O Qty per Id: 0 Cu <sup>n</sup> per Id: 0 Rack Assign By:	of Metal 2: 0 02 of Metal 3: 0 02 of Metal 4: 0 02 0 Lbs per ld	Metal 2: 0 Metal 3: 0 Metal 4: 0 0 Unit Cost 0 0	Controls Quote Cet Print Maintenance	
Metal Type 1: Metal Type 2: Metal Type 3: Metal Type 4: Containers per Ld: Sq." per Ld:	Price Price Price Price Price Price Price Price	of Metal 2: 0 02 of Metal 3: 0 02 of Metal 4: 0 02 0 Lbs per 1d 0 Units per hr:	Metal 2: 0 Metal 3: 0 Metal 4: 0 0 Unit Cost 0 0 0	Controls Quote Cet Print Maintenance	

VISUAL S	and the second s			- 8
e <u>O</u> rders	Process	Billing A/R Notes Reports Maintai		
⊧ ÿ	E 💉	Quotations	<u>₹ ₩ ∽ © % Ģ ⊒ @ ₩ ?</u>	
		Create Invoices from Shipped Orders Invoicing Lock Invoices and Post To A/R Open Orders With No Part Price Shipped Not Billed Report		
		Shipped Not Bill by Cust Post Sales To GL		
		Sales by Plant / Day Post Invoices to Corporate		
		Invoice price display Process Pricing Customer Process Pricing Process Grid Pricing Process/Mat/Insp Pricing Part Pricing Screw/Washer Pricing Bracket / Step Pricing Grid or Dimensional Pricing Maintain Memorized Part Prices Maintain Process Pricing Maintain Customer Process Pricing		
		Price Keys Invoice Control Fix Invoices Invoice Utilities Invoice Distribution Mainte.		
	<b>B</b>			
bicing and l	I III COLO PO			7/15/99 16:25
VISUAL	SHOP	pituum Vin Kituus <sup>I</sup> n		
VISUAL e <u>O</u> rders	SHOP Process	Billing A/R Notes Reports Mainta	and the second se	7/15/89 16:25 _ 년
VISUAL	SHOP	Efficing	; * · <mark>© ?</mark> <i>Q</i> <b>E ® E</b> ?	
VISUAL e <u>O</u> rders	SHOP Process	Shipping Pricing Operations	; ₩∽ <mark>©</mark> ₿♀⊑®■१ ,	
VISUAL e <u>O</u> rders	SHOP Process	C Reprint The Shipping Pricing Ogerations Billing Sales	Sales by Equip this yr / last yr	
VISUAL e <u>O</u> rders	SHOP Process	Image: Second system     Shipping       Pricing     Ogerations       Billing     Sales       Processes     Processes	Sales by Equip this yr / last yr       Sales by Cust this yr / last yr	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	Constant Series     Constant Series     Constant Series     Customer Activ	Participation       Participation       Participation         Sales by Equip this yr / last yr         Sales by Cust this yr / last yr         Sales by Process this yr / last yr         Sales by Material this yr / last yr         Sales by Group this yr / last yr         Sales by Group this yr / last yr	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Cust thin yr / last yr</li> <li>Sales by Cust thin yr / last yr</li> <li>Sales by Croup this yr / last yr</li> <li>Sales by Cust thin yr / last yr</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Cur Mo, combinations</li> <li>Sales Cur Mo Top Sales</li> <li>Sales by Customer</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Cur Mo, combinations</li> <li>Sales Cur Mo, combinations</li> <li>Sales Cur Mo, Top Sales</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cust this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales Current Month Comparison.</li> <li>Sales Cur Mo, combinations</li> <li>Sales by Customer</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Coust this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Group this yr / last yr</li> <li>Sales by Oroup this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Cur Mo, combinations</li> <li>Sales by Process Code</li> <li>Sales by Frocess Code</li> <li>Sales by Frocess Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	C     Shipping     Pricing     Ogerations     Billing     Sales     Processes     Customer Activ     Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	Image: Second system     Shipping       Pricing     Ogerations       Billing     Sales       Processes     Customer Activ       Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	Image: Second system     Shipping       Pricing     Ogerations       Billing     Sales       Processes     Customer Activ       Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	
VISUAL e <u>O</u> rders	SHOP Process	Image: Second system     Shipping       Pricing     Ogerations       Billing     Sales       Processes     Customer Activ       Tracking	<ul> <li>Sales by Equip this yr / last yr</li> <li>Sales by Equip this yr / last yr</li> <li>Sales by Cost this yr / last yr</li> <li>Sales by Process this yr / last yr</li> <li>Sales by Material this yr / last yr</li> <li>Sales by Day / Inv Distrib</li> <li>Sales by Day / Inv Distrib</li> <li>Sales for a day by Process/GL</li> <li>Sales Current Month Comparison.</li> <li>Sales Current Month Comparison.</li> <li>Sales by Process Code</li> <li>Sales by Process Code</li> <li>Sales by Equipment</li> <li>Daily Statistics</li> <li>Tracking Profit</li> <li>Sales by Salesman.</li> </ul>	

Can never have enough **reports**.

## Shipping

Shipping of the parts

VISUAL SHOP - [Shipping - D File Orders Process Billing			Hein			_ 8 ×
				3 🕅 ?		a Bara
Certs P Ship To: Chase Screws Inc. 350 Second Street P.O. Box 300 Chicago IL 12345	Detail Carrier: Carrier: Frt Bill: Frt \$:	se Screws Inc. 100 0 Ctr: 0 \$0.00	Enter Order 204 1. Get Order Print 🗸 Fax 🗖 L Multi Order Ship	abel Labe		
Deficage   12   12343	Route: No	rth		07/15/199	9 16:33	
			Containers	Results	Override	
Shipto Address Control	102 - 10 - 10		Hide Parts	Print Cert	Reprint	
Update Add Delete	🖾 🖻 🖾		Show Benal#s	Show al	l Loads	
id Parx id	Part Pa Oty Lt	rt Shipped Shippe is Oty Lbs	ad Ship Now, Ship Oty Li		Line plete	
1 31	333	0	333	Ø		
Total Order	838	0	333	_		
Print and update this shipper.						7/15/99 16:33

Chase Scrows Inc. 350 Second Street P.O. Box 300 Page 1 of 1 P.O. Box 300	Ploneer Motal Finish Corporation	ding	Shi	ipping '	Ficket	ġ.	CONTRACT	ite: 1/19/1999
It203-A         Control of the second statute of the sec	Chase Scrows 350 Second Stre P.O. Box 300	cet		Page 1 of	Ch 350	ase Sc Secor Box 3	rows Inc. od Street	50 IL 12345
Quantity         Part No. / Part Name / Part Description         Pounds           150         31ab         Bracket         Bracket           Container Type         # Of Containers Cust Cont Id         Container Type         # Of Containers Cust Cont Id           Box         1         Skid         1	the second s	Number	Packing	List No	Customer 3	ob No	Noute	Carrier
150 31ab Bracket Container Type # Of Containers Cust Cont Id Container Type # Of Containers Cust Cont Id Box 1 Skid 1	11203-A				1000	2	North	
Bracket Container Type # Of Containers Cust Cont Id Container Type # Of Containers Cust Cont Id Box 1 Skid 1	Quantity Pa	art No. / Pi	art Namo / Par	t Description				Pounds
	1910	ab						
We will be should for this half-have	150 31 Bro	acket	Italners Cust C	ontid Co	ntainar Type		Of Contain	ers Cust Cont id
we waite closed for the nondays.	150 31 Bro Container Type Box	# Of Cor	1		ntainer Type	,	Of Contain	ers Cust Cont Id
	150 31 Bro ontainer Type ox	# Of Cor	1 Jays.				Or Contain 1	ers Cust Cont Id

In house e-mail system:

<b>B</b>	ISUAL SHOP	_ <i>6</i> ×
Eile	Orders Process Billing A/R Notes Reports Maintain Options Help	
Ū,	│ 號 ▐ ✔ ▅ ⊖ 親 ळ ७ ७ ♦ ♦ ♦ ♦ ♀	
3		
	Create A Note and Send IT	
	By: JD Sent on: 07/15/1999 16:24:08 Type: EVI	
	Subject:	
	-Controls -	
	sancel Htt	
	Post Note onto a Document or Table Send Note to Delete	
	Document type to attach note to: Add more people to send to Send	
	Picture Id: 0	
	Customer Name	

The above slides are examples of what a software program may include. Other items in a program could include Operator Security, Lab Analysis, Digitized pictures of parts, Tracking and scheduling, Bar Coding and more.

# The Internet is opening up a lot of new ways how finishers will conduct business now and in the future.

There is a web based software program that will allow your customers to access and enter information via the Internet. This will improve your customer relations while lowering your operating costs. It provides your customers with real time information on their jobs and a quick and easy method of communicating with you. This is highly customizable. Finishers select which customers have access to their data, and can restrict access to specific information on a customer-to-customer basis. The best part is that this can all be done with the click of a mouse, from any web browser anywhere in the world. All the data is in real time, so customers see exactly what the Finisher's see.

Your customer will be able to do the following:

- Enter a quote request,
- Check shipments,
- Request a pickup,
- Check on an order,
- Check their account,
- Communicate via notes.

#### What will I gain as a finisher for having this Internet feature? Better Communication.

- 1. Your customers get better service.
- 2. Your customer service personnel will now have more time to take care of real problems.
- 3. You reduce your operating costs because your phone traffic will be greatly reduced.
- 4. You provide a level of service that most of your competition can't provide.
- 5. Your customers can enter their own information such as pick up requests and quote requests.

#### What will your customers gain by you having Internet? Better Communication.

- 1. Your customers can get the information they need right away.
- 2. They no longer have to play phone tag or spend long periods of time on hold.
- 3. And when you customer does call you, you are now more available.

#### Having a web site on the Internet you will receive the following:

- Access to millions of potential customers worldwide. No matter what size of a company you are, there is a level playing field for all. You have the same opportunity to reach and influence prospects.
- 24-hour access expands your business without ever having to add extra staff.
- Full color graphics of products and services.
- Prospects can review your information at their own pace.
- Easily updated; good for time sensitive material. Cost effective way to advertise compared to hard copy material. And don't forget about the postage cost.
- Links from other sites creating more traffic flow to your web site.

The bottom line here is that with a small investment, you can compete with companies many times your size.

**E-commerce** is just not for consumer shopping. It is also about using the latest technology to streamline your business practices by creating an increase in both efficiency and savings and by reducing inventories. Businesses are using e-commerce for business-to-business connections that make purchasing easier. With an e-commerce site, supplier sales should increase as they reach a new customer base locally, nationally, and internationally while buyers can enjoy the benefits of sitting in front of their computers and making buying decisions. Simply put, e-commerce is about promoting products and services through an on-line medium. Businesses, both large and small, are present on the Internet, making it easy to shop 24 hours a day, seven days a week, 365 days a year.

Computer technology is here to stay. I realize that shops have existed for many years with out ever having a computer, but the times are changing. People say that they are afraid to touch a keyboard on a computer for the fear of striking the wrong key. It is very hard to crash a computer by touching the wrong key. There are many books, schools, and seminars that are geared for the first time user. And the price of hardware has dropped so much that the retailer is virtually giving away computers.

**In conclusion:** A computer in your shop will save your people time and make you more efficient, and by being hooked up on the Internet you have the future possibilities to do:

- Account Status customers being able to go onto your web site and check the status of their orders.
- Invoicing being able to invoice directly over the net.
- Quoting being able to quote jobs.
- E-mail send e-mails to your customers. Also being able to send newsletters directly to your customers. Customers being able to request further information about your company.
- Job posting being able to post current job openings on several industry related sites.
- Discussion forums many of the industry associations offer discussion boards on common problems and issues related to the industry.
- Trade Associations being able to check out the AESF or NAMF web sites for important information or future events.
- Customer support many software companies offer support through the Internet via e-mail or online support.
- Trade Periodicals being able to read your favorite trade journals over the Internet.
- E-commerce being able to shop for your parts, equipment, everyday supplies, and more over the Internet.
- **Goal the ultimate goal is to eliminate paper and to improve communication.** Computers are here and they are here to stay. The time is now for Finishers to join this technology wave. Make that first step, and enjoy the ride!