



- Starn Job Shop Manager Plus™
- Software Development Services

Starn Job Shop Manager Plus™

Product Features – Version 2.0

Version 2.0 represents our 10th version release. This release adds material lot tracking, a feature essential to those job shops participating in quality conscious industries like Defense & Aerospace, and also a simple, yet dynamic scheduling tool to help manage your shop at the pace of today's customer expectations.

New Feature Summary

Material Lot Tracking

- Lot and Heat number tracking from purchase order to job order, or from stock item release to job order

Workstation Scheduling Chart

- Chart display provides dynamic workstation scheduling and capacity planning
- Includes work in process labor reporting
- Option to reschedule individual operations or complete workstation backlog
- Suppress display and printing of non-bottleneck operations

Dept *	W/S *	Job Number *	Det. *	Part Number *	Promise Date	Start / Finish Dates	Build Qty.	Sched. Hrs.	Worked Hrs.	Scrap Hrs.	Current Week	Week of 09/20	Week of 09/27
ENG	952	13467		1035-ERI-018	08/29/09		1	0.00	1.00	0.00			
ENG	952	13509		LID CAGE	09/18/09		1	0.00	2.00	0.00			
		Subtotals:		ENG/CAD MODEL (40)				0.00	3.00	0.00			
ENG	959	13509		LID CAGE	09/18/09		1	0.00	6.90	0.00			
		Subtotals:		ENG/CAD DETAIL (40)				0.00	6.90	0.00			
ENG	97-10	13484		250B-3D-5328	10/15/09	09/15/09 09/15/09	1	2.00	0.00	0.00	2.00		
ENG	97-10	13485		250B-3D-5326RM	10/15/09	09/15/09 09/15/09	1	2.00	0.00	0.00	2.00		
		Subtotals:		ENG/CAM (40)				4.00	0.00	0.00	4.00		
ENG	973	13472		ROTOR	08/07/09		1	0.00	0.50	0.00			
ENG	973-10	13467		1035-ERI-018	08/29/09	08/26/09 08/26/09	1	1.00	4.00	0.00			
		Subtotals:		ENG/CAM PROGRAM (40)				1.00	4.50	0.00			
C HOZ	50-30	13467		1035-ERI-018	08/29/09	09/15/09 09/16/09	1	19.00	0.00	0.00	19.00		
C HOZ	50-10	12592		8000 RAM	10/30/09	09/21/09 09/23/09	1	40.00	0.00	0.00		40.00	
		Subtotals:		HBM G&L 5" CNC (80)				59.00	0.00	0.00	19.00		40.00
C HOZ	57-10	13372		100359318	07/20/09	09/15/09 09/16/09	2	19.00	0.00	0.00	19.00		
		Subtotals:		MAZAK HOR MILL (80)				19.00	0.00	0.00	19.00		
C HOZ	63-40	13485		250B-3D-5326RM	10/15/09	09/17/09 09/18/09	1	11.00	0.00	0.00	11.00		
C HOZ	63-30	13485		250B-3D-5326RM	10/15/09	09/18/09 09/18/09	1	1.50	0.00	0.00	1.50		
C HOZ	63-50	13485		250B-3D-5326RM	10/15/09	09/18/09 09/18/09	1	6.33	0.00	0.00	6.33		
C HOZ	63-60	13485		250B-3D-5326RM	10/15/09	09/18/09 09/21/09	1	4.75	0.00	0.00	4.75		
C HOZ	63-70	13485		250B-3D-5326RM	10/15/09	09/23/09 09/23/09	1	2.50	0.00	0.00		2.50	
		Subtotals:		IKEGAI (80)				26.08	0.00	0.00	23.58		2.50
C HOZ	633-20	13485		250B-3D-5326RM	10/15/09	09/15/09 09/15/09	1	2.00	0.50	0.00	1.50		
		Subtotals:		Ikegai - Setup (40)				2.00	0.50	0.00	1.50		
C VER	58	13510		MOLD BASE 7880	09/18/09		1	0.00	24.00	0.00			
		Subtotals:		QUANTUM (40)				0.00	24.00	0.00			

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Miscellaneous New Features

- **Order Acknowledgement Report with email option**
- **Preliminary packing list**
- **Tooling purchase summary displays on Job Order Control window**
- **Advance payment processing**
- **Export data dictionary to Excel**
- **Expanded, editable quote and job order descriptions**
- **Multiple shipping locations for each customer**

Complete Feature List

Chart View

- Quote Chart – quotes issued in month to date (MTD), year to date (YTD) formats; year-to-year customer summary report
- Job Order Chart – orders received in MTD, YTD formats; year-to-year comparison report
- Sales Order Chart – inventory orders received in MTD, YTD formats; year-to-year comparison report
- Work Load Chart – current backlog with schedule and job status
- Work Load by Department Report
- **Workstation Scheduling Chart**
- Workstation Usage Report – monthly shop hours spread by month with prior YTD comparison
- Job Analysis Chart – job profitability in MTD, YTD formats; year-to-year customer summary
- Open Sales Order Chart – current backlog of inventory orders
- Employee Efficiency Report
- Workstation Efficiency Report
- MRO/Stock Inventory Chart
- WIP (Work in process) Report
- Finished Parts Inventory Chart
- Purchase Order Chart – purchased items in MTD & YTD formats; year-to-year vendor summary report
- Defective Material Log
- Vendor Delivery Performance
- On-time Shipping Performance

Quoting

- Supports activity based quoting
- **Expanded, editable quote descriptions**
- Quote setup window
- Choose from three styles of quote form
- E-mail quotations
- Eight standard and five ad-hoc price breaks
- Build a new quote from previous quote detail or from quote template detail
- Import quote information from Excel template
- Quote operations may be defined in **seconds**, minutes, or hours
- Setup and run time operation estimates allow maximum price calculation flexibility
- Material cost calculator
- Wire EDM run time calculator
- Assembly or spare part quoting
- Efficiency factor may vary by operation

Job Processing

- Job entry window with multiple line item auto-fill, automatic job number counter, check for duplicated purchase order entries
- **Expanded, editable job order descriptions**
- **Order Acknowledgement Report with email option**
- **Preliminary packing list**
- Basic start date schedule option
- Inventory restocking jobs automatically set up and closed out to finished goods inventory
- Job control window for status review and update, including job locator log via barcode scan
- Print invoice and packing slip; transfer to accounting software via data interface
- Print part tags

Barcode Integration

- Job locator input window
- Timekeeping input window
- Shipment tracking scan
- Bar-coded reports and labels

Job Costing

- Supports activity based costing
- Shop rate and operating profit calculations at job close out
- Detail and summary job cost reporting
- Customer purchase order status report
- Scrap time and material control
- Option to use purchase order values for job costing; avoid accounts payable data entry
- **Tooling purchases displayed on Job Order Control window**

Monthly Reporting

- New jobs and inventory sales orders
- Job and inventory sales order shipments
- Open job backlog
- Sales profit analysis
- Invoice reporting and analysis by customer
- Work in process
- Labor analysis

Shop Scheduling

- Workload chart with job order drill down, multiple sort and subtotal options, color coded job status, and export to Excel option
- Workload and shop load reports
- Workstation schedule report
- Start date report
- Expediting report

An example of the workload chart follows:

Job Order	Cust.	Part Number	Purchase Order	Start Date	Promise Date	Build Qty	Schedule Hours	Actual Hours	Last Operation	Current Week	Week of 01/05/03	Week of 01/12/03
50052	MAC01	TESTING SCHEDU	NONE	04/09/03	06/05/03	12	199.37	0.00				
50044	DAT01	TEST PART 2 B	STOCK BUILD	05/04/03	06/01/03	216	6.41	0.00				
50045	CAR01	NEW PART FOR U	90	04/01/03	06/01/03	12	11.00	0.00	10/13/99			
01-6999	LOR01	Y-42413-20-1	526518	04/23/03	05/29/03	6	14.00	0.00	07/13/01			
50053	PAC01	TEST PART 2 B	124578	04/07/03	05/05/03	10	15.12	0.00				
50057	MAC01	TEST PART A1	NO 2		05/04/03	13	380.32	0.00				
01-7000	LOR01	Y-42413-20-1	NONE	02/25/03	03/13/03	12	51.66	0.00				
50054	PAC03	TEST PART A1	1	02/14/03	03/05/03	1	260.00	0.00	05/03/00			
50039	BPB01	TEST PART A1	VERBAL	01/31/03	02/28/03	1	0.03	0.00				
500600004	AET01	TEST PART A1	NOT YET		02/20/03	12	3.56	0.00				
1223232	PAC01	TTTTTEST R	12345667	01/05/03	02/15/03	1000	893.78	0.00		27.62	96.67	96.
50035	STA01	NEWTON	GONE	01/17/03	02/14/03	2	0.12	0.00				
50036	PAC01		FDKLJKLSD	01/15/03	02/12/03	1	0.03	0.00				
50037	PAC01	NEWTON TEST	FDKLJKLSD	01/15/03	02/12/03	1	0.03	0.00				
50042	COM01	WET	WE	01/14/03	02/11/03	1	0.03	0.00				
500600004	DCS01	TEST PART A1	MO		02/06/03	45	100.00	0.00	02/06/01			
500600004	AET01	TEST PART A1	10		02/06/03	100	255.67	0.00	02/06/01			
50060	DEL01	TEST PART A1	7	01/15/03	02/05/03	100	355.41	0.00	02/06/01			67.
50038	PAC01		NEWT	01/07/03	02/04/03	1	0.03	0.00				
60004	LARRY	PADDLE FAST	//		01/31/03	12	4.28	0.00				
50055	MAC01	TEST PART A1	1	12/14/02	01/25/03	1	200.00	1.00	02/20/01 grinding operation	18.10	63.35	63.
50058	PAC01	WETTT	1290	12/31/02	01/21/03	12	35.63	5.00	04/20/02 Mill Operation	3.40	11.90	11.
500600004	AET01	TEST PART A1	NOT YET		01/19/03	12	3.56	0.00				
60006	HARD1	GM TEST	56	12/11/02	01/03/03	24	18.07	0.00	12/10/02			
60008	ALA01	1010 DEMO	8	12/13/02	01/21/03	12	4.28	0.00		4.28		
50046	MAC01	QUOTE #3	VERB	11/18/02	01/21/03	100	86.20	0.00	12/21/99	86.20		
60005	LARRY	PADDLE FAST	//1		10/31/02	100	2.97	0.00		2.97		
60002	TCE				10/30/02		0.00	0.00				
60001	ALA02	4	4		10/30/02	11	0.33	0.00	11/04/02 BR001 Bridgeport tool			
500600004	HARD1	TEST PART A1	9	12/01/02	02/06/02	150	532.75	0.00				
50061	FOR01	TEST PART A1	8	01/04/01	02/05/01	50	178.58	0.00	02/06/01			

Total 12/29/02 01/05/03 01/12/03 01/19/03 Remaining

Estimated Workload: 17399.62 14135.07 171.92 239.68 276.44 1847.11

Color Code Legend for Event and Exception Reporting

- Green** Job shipped within last seven days (colored Promise Date)
- Blue** Job schedule has been set up (colored Schedule Hours)
- Yellow** Job to start today (colored Start Date) or due for shipment today (colored Promise Date)
- Red** Late starts (colored Start Date), past due shipment (colored Promise Date), shop capacity warning (colored Schedule Hours), or job hour overrun (colored Actual Hours)

Workstation Scheduling Chart

- **Chart display provides dynamic workstation scheduling and capacity planning**
- **Includes work in process labor reporting**
- **Option to reschedule individual operations or complete workstation backlog**
- **Suppress display and printing of non-bottleneck operations**

Job Scheduling

- Automatically create job schedules using quote detail information
- Job schedule window for updates and other maintenance
- Job traveler and instruction log – assembly and spare part versions
- GANTT project management chart
- Assembly report by department
- Promised and revised promise date

Stock & MRO Inventory Management

- Inventory item chart
- Inventory item setup window
- Purchase order with automatic counter option and form print
- E-mail purchase order form
- Receiving report
- Vendor open item reporting
- Accounts payable with accounting data transfer interface
- Job release window
- **Lot and Heat number tracking from purchase order to job order, or from stock item release to job order**
- MRO release window
- Inventory control reports, various
- Subcontractor expediting report
- Purchase history by job reporting
- Vendor setup window with e-mail support

Accounting Data Interface

- QuickBooks, Peachtree Accounting, or MAS-90 support
- Accounts receivable data transfer
- **Advance payment processing**
- Account payable data transfer
- Inventory material cost data transfer
- Interface setup and scheduling window
- General Ledger Account maintenance window
- Audit trail via export batch reporting and transaction files

Operations Planning & Analysis

- Shop rate analysis
- Customer shipment performance
- Vendor performance versus schedule reporting
- Employee efficiency report
- Workstation efficiency report
- Workstation utilization report
- Workstation setup window
- Department setup window

Time Keeping

- Four time entry options, daily time card, completed job, or daily production card data entry windows, plus barcode scanning option
- Scrap time
- Shop time (indirect time)
- Audit reports
- Hourly payroll summary report
- Employee setup window

Part History & Finished Goods Inventory Management

- Part index window with drill down to quotes, job orders, or finished goods inventory
- Part search window with sub-string search facility
- Eight price break levels displayed
- Inventory card window with activity summary
- Print part tags
- Inventory sales order entry
- Open sales order report
- Open sales order chart with multiple sort and subtotal options
- Print invoice and packing slip with accounting data interface
- Reorder report
- Monthly usage – twelve month moving average
- Blanket order control and consolidation
- Inventory reference list report
- Inventory restock report
- Part family management, reporting, and analysis
- Part Inactivity report

Inspection Reporting

- First article, in-process and final inspection reports via integrated Excel templates

Defective Material Reporting

- Defective material report
- Analytic reporting - by part, vendor, operation, employee

Calibration Management

- Equipment inventory control
- Calibration scheduling
- Test results archive
- Label printing interface with Brother PT-1500PC
- Import gage data

Delivery Performance

- Vendor delivery performance summary report
- Customer shipment summary report

Form Control

- Maintain footer text for controlled forms

General

- On-line windows help
- Easy one-step edit on list fields for timekeeping, purchase orders, receiving, job scheduling.
- Counters for quotes, job orders, sales orders, invoice/packing slip, and purchase orders
- Logo image storage for form customization
- User password access with multiple level read/write control
- Ad-hoc reporting
- Data import and export utility
- Four navigation options, window buttons, menu choices, keyboard equivalents, or Recent Navigator
- Form printing on plain paper
- Business segment reporting option
- Hierarchical menu for navigation within product sections
- Rewritten user documentation
- Multi-user database access supports read-only ODBC
- Automated diagnostic and repair utility
- Data entry via selection from drop down lists
- Integrated drawing viewer access
- Tested & certified compatible with Windows Terminal Services
- Connected user administration facility
- Advanced Data Repair Tool
- **Export data dictionary to Excel**

System Requirements & Specifications

- Windows 95/98/NT/2000/XP/Vista Compatible
- Memory requirement (beyond basic requirement for operating system): 64 Mb RAM (minimum); 256 Mb RAM (recommended)
- Hard drive free space requirement: 150 Mb (minimum); 4 Gb (maximum database capacity)
- Windows Networking for multi-user operation
- Accounting Interface option requires either QuickBooks, Peachtree Accounting, or MAS-90
- Print Viewer option requires combination of viewing program and appropriate document format, e.g., Acrobat (pdf), FastLook Plus (multiple format options), or equivalent combination
- Barcode option requires:
 - Barcode printer font
 - Welch-Allyn 3800 series reader (or equivalent)
 - Dymo Labelwriter 400 (or equivalent)
- Gage labeling option requires:
 - Brother PT-1500PC