

FactoryMaster

Manufacturing Solutions

FactoryMaster Limited

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Web Site: www.factorymaster.co.uk

Estimating & Quotation Letter Production



This module can be used in either stand-alone format or in conjunction with our **FactoryMaster Lite** or **FactoryMaster Pro** products.

Available in single-user or multi-user format, with or without Assembly Control, Component Price build-up and Multi-Currency capabilities.

The module utilises our Resource / Work Centre Specification database of your machines and processes and their associated Hourly Charge Rates, along with sub-contract processes your organisation uses.

A Quotation is initially specified by assigning to the appropriate Customer and detailing the Items and Batch Quantities to be Quoted.

The screenshot shows the 'FactoryMaster 2000' software interface. The main window is titled 'Quotations' and displays 'Quote No. 33'. It includes fields for 'Planned', 'Enquiry Received', 'Submission Requested', 'Printed', and 'Planned' with values like '27/06/00'. The 'Customer' section shows 'Customer: SANDU', 'Currency: GBP', 'Contact: SEAN PATMORE', and 'Customer Ref: Q1234'. Below this is a table of items:

#	Part Number	Description	Issue	Quantity	Unit Price	Calculated Price
1	SJ1234	SJ TEST PART	1	20	£ 7.87	7.87
2	SJ1234	SJ TEST PART	1	00	£ 5.45	5.45
3	SJ1234	SJ TEST PART	1	1,000	£ 4.95	3.90
4	SJ1234	SJ TEST PART	1	1	£ 79.95	84.34

Below the table is a section for 'Operations' with tabs for 'Instructions', 'Operations', 'Changes', and 'Raw Materials'. The 'Operations' tab is active, showing a table with columns: 'Op', 'Resource', 'Description (PS for Standard Op)', 'Z', 'Rate/Hr', 'Set Time', 'Op Time', 'Lead', 'Subcon Cost', 'Tooling Cost', and 'M'. The table contains three rows of operations: 10 CMCT (CNC TURN), 20 HEA (HEAT TREATMENT), and 30 GRD (GRINDING).

Quotations are quickly built-up by estimating the Set and Operation times for each Operation Step and associating with the appropriate Resource Code (Work Centre). This process will utilise the Rate per Hour you have defined for that Resource although you can over-ride with a specific rate if required.

After Material and Process Prices are allocated (Batch and/or Unit Prices catered for) the system calculates the appropriate Batch Prices which the Estimator can accept or override with a 'commercially more suitable' price.

Optionally, Quantity Discounts can be applied as part of the Batch Price calculation as can the build-up of Components for an Assembly Quotation.

After selecting from a choice of opening and closing paragraphs Quotation Letters can be immediately produced on your Company Letterheads or even faxed straight from the computer to your Client.

A Detailed Quotation Breakdown and Analysis Sheet can also be produced for the in-house file copy.

The **Major Benefits** provided by this system are:

- Consistent, detailed and rapid response to Enquiries
- Easy access to an organised reference base of Quotations
- Quotations can be very quickly generated from Template Quotes (useful for 'house' products) or previous Quotes for the same or a similar Part
- When used in conjunction with other aspects of **FactoryMaster** the Quotation data can be used for first line Shop Floor Scheduling, Forecasting Delivery Dates on Quotations and can be transferred to Manufacturing Instructions for Route/Job Card production.

For more information please contact:

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Sales Order Book



This module can be used in either stand-alone format, with or without Delivery Note and Invoice print options, or in conjunction with our **FactoryMaster Life** or **FactoryMaster Pro** products.

Available in single-user or multi-user format with easy Call-Off Quantity Maintenance, Contract Review of agreed Batch Prices (with link to original Quotation) and Multi-Currency capabilities.

Orders are entered against the relevant Customer and their quoted Order Number with the option of specifying different Delivery and Invoice Addresses if necessary.

Multiple Parts may be listed against the one Customer Order Number and then any number of Call-Off Quantities and Dates can be entered for each Part. Where your Customers frequently change their call-off requirements they can quickly and easily be updated and if appropriate we can also 'tailor' for automatic updating of your Sales Order Book via data provided by your Customer through Internet, E-mail, E.D.I., Floppy Disk or any other format.

Where appropriate the system caters for Rolls Royce style SAP orders.

Prices are automatically allocated against each call-off Quantity via the Contract Reviewed Batch Prices locked into each Order which are entered (either manually or via direct link from the Quotation) when the Order is first originated.

If the full **FactoryMaster** system is being used then each call-off is allocated to a Works Order which is then used for Shop Floor Scheduling and Production Planning. For any one Part, one or more Call-Off Quantity(s) from one or more Customer Order(s) can be planned into one or more Works Order - thereby allowing you the flexibility, and economy, of manufacturing (for example) one Batch covering 3 months requirement made-up of 13 weekly call-offs.

Full enquiry and reporting facilities are provided which cover, for example:

- Orders due by Month
- Orders due by Customer
- Orders due by Month by Customer
- Orders by Part Number
- Order Call-Offs not yet covered by Works Orders (highlighting when W/O should be started)
- Material Requirements Planning (M.R.P.) option – see separate M.R.P. Specification Sheet
- All available by:
- All Dates or Range of Dates
- All Customers or Selected Customers
- All Parts or Selected Parts
- Detailed or Summary

Allocation of Delivery Quantities against Scheduled Call-Offs then generates Delivery Notes and Sales Invoices with the Sales Invoice data capable of being exported into a data file suitable for updating most Accounting Systems (e.g. Pegasus, Sage, Chancellor, etc.).

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M.R.P. - Material Requirements Planning



This has become one of the most powerful features of **FactoryMaster** and has the potential for saving an enormous amount of planning time and effort and avoiding the embarrassment of Raw Material or Components not being ordered in time or Internal Works Orders not being commenced allowing sufficient Production Lead Time.

The benefits of **FactoryMaster's** M.R.P. are especially helpful where you manufacture many Assemblies and Sub-Assemblies with a number of common Components or Sub-Assemblies and your Customers have a very volatile Call-Off Requirement on you. This combination creates an administrative nightmare without some form of automation – and we believe **FactoryMaster's** M.R.P. solution to be an excellent aid to managing this situation but we would encourage you to talk to our customers for their view on how beneficial our M.R.P. solution *really* is.

In summary it achieves all the following:

- Incorporates all the latest Sales Order Book Data
- ----- ditto ----- Purchase Order Data
- ----- ditto ----- Works Order Data
- ----- ditto ----- Stock and Raw Material Data
- ----- ditto ----- Bills of Material Data
- Applies Production or Purchase Lead Time to every Item
- Identifies Nett Requirement of any Component or Raw Material where required
- Produces suggested Work Orders taking into account minimum Production Batch rules
- Produces suggested Purchases Orders taking into account minimum Purchase Batch sizes
- Provides forecast purchase requirements (to send to each Supplier), to help drive down Prices and Delivery Times

Unfortunately we can't provide this element of the system on its own or in the first wave of installation!

The benefits of M.R.P. can only be fully realised when all the underlying information is accurate and can be relied upon and this often means 3, 6 even 9 months after installation – unless you have all the accurate information in other systems from which we can import this information.

Many companies generate their Works Orders and Purchase Orders 'back to back' from their Customer Orders – often this is considered to be the only way. However, where you have volatile and ever changing Sales Orders from your Customers then this becomes a repeated nightmare of changing all the underlying Works Orders or Purchase Orders ever time anything changes.

Material Requirements Report - Run 2

This Report calculates the material requirements for the 12 weeks commencing from the date entered below. The calculation is based on stock, expected purchases and actual order requirements, and is exploded down through bill of materials as required.

Base Week Commencing Date: **06/11/00**

☐ 12 months ☒ Apply Leadtime?

☒ OR 12 weeks ☐ Omit Free Issue?

WARNING: This will be a very long report.

MRP dated Saturday 25th November 2000 by Graham

☒ All BI ☒ For All Suppliers Or Preferred Supplier Unspecified

☒ All MA ☒ For All Workshops Or Workshop Unspecified

☒ All RM ☐ Negatives Only?

Print Preview **OK** **Cancel**

continued overleaf.....

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M.R.P. - Material Requirements Planning

(continued)



Also, where you have commonality of Components (Manufactured or Bought-In) or Raw Materials you wind up raising more Purchase Orders and Works Orders, for smaller Batch Sizes, than necessary resulting in higher Purchasing, Manufacturing and Logistics costs than necessary.

FactoryMaster's M.R.P. will assist by reducing all your actions to just a single action for every unique Part or Material as ALL their requirements (with Lead Times taken into account) are netted together into a single requirement for each item.

The following example demonstrates how, with just the introduction or amendment of Sales Orders, when combined with the Bill of Materials, current Stock position and Lead Times the Material Requirements are calculated and grouped within Bought-In, Manufactured and Raw Material sections of the MRP report:

Sales Orders

Required by Date	Cust	Part No and Description	Client Order No	Quantity	& Price	Total Value
05/11/2000	ACME	NUT+BOLT	MA2356	500 @	11.008	5,504.17
21/11/2000	ACME	NUT+BOLT	MA2356	100 @	11.008	1,100.83
		Total	December 2000	(2)		6,605.00
05/01/01	ACME	NUT+BOLT	MA2356	1,000 @	10.176	10,176.83
30/01/01	ACME	NUT+BOLT	MA2356	5,000 @	10.176	50,879.15
		Total	January 2001	(2)		61,054.98
		Grand Total		(4)		67,659.98

All Dates
 All Customers
 All Parts
 All Workshops

Sales Orders

Assembly Report: NUT+BOLT (Nut & Bolt Assembly)

Part No	Part Name	Qty	Spec Code	Component Description	Qty	Unit
NUT	NUT	1		NUT	1	
BOLT	BOLT	1		BOLT	1	

Results are shown in units of the exploded assembly

Bill of Materials

$$\begin{aligned}
 &+ \\
 &\text{Stock} \\
 &+ \\
 &\text{Outstanding Purchase Orders} \\
 &+ \\
 &\text{Outstanding Works Orders} \\
 &=
 \end{aligned}$$

Material Requirements

Created: 05/11/2000
 Created by: G. H. H. G.
 Created by: G. H. H. G.

Part Number & Description: NUT+BOLT

Lead Time: 10 Days

Min. Batch Size: 1

Preferred Supplier: BLS

Stock: 333

POs: 100

W/Os: 100

Material Requirements:

Part Number & Description	Lead Time	Min. Batch Size	Preferred Supplier	Stock	POs	W/Os
NUT	10 Days	1	BLS	333	100	100
BOLT	10 Days	1	BLS	333	100	100
NUT+BOLT	10 Days	1	BLS	333	100	100
BR SCAL	10 Days	1	BLS	333	100	100

The MRP report has various options including production by Preferred Supplier which can then be supplied direct to your Suppliers as your forecast requirement to supplement your actual Purchase Orders.

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Purchase Orders



FactoryMaster contains powerful tools to make the raising and tracking of Purchase Orders simple. The module can be used in stand-alone form or, more beneficially, in conjunction with the **FactoryMaster Pro** Stock Control, Works Order Processing and Job Costing modules.

Purchase Orders are raised under various categories to facilitate the easy recording of relevant details - for example:

- Raw Material - by specification, form, size or weight
- Bought-In Parts
- Heat Treatment Specifications
- Paint Specifications
- Sub-Contract Operations
- Carbide Tips
- Consumable Items

In fact, the user can set up as many purchase categories as required and retain standard descriptions, Part Numbers and process descriptions for all items within those categories. Multiple 'batch prices' can be recorded for any number of potential suppliers with a 'preferred' status indicating the default supplier. Where appropriate, items can be associated to a specific Part or Drawing Number.

Sub-contract orders are particularly easy to raise as (when used in conjunction with the Works Order module) their technical content is automatically extracted from the relevant operation detail stored within the Manufacturing Instructions. The system can also generate Release Notes to accompany items sent away for sub-contract work to ensure full batch traceability.

Each item on a Purchase Order can be allocated to an existing Works Order so that the costs can be booked directly to the job upon receipt.

Booking costs to a job at the time of *receipt* allows the system to calculate an almost perfect costing without having to wait for any 'straggler' invoices to arrive from your suppliers. However, the included 'Invoice Matching' facility allows the user to compare the prices invoiced with those on the original purchase order and to adjust any discrepancies found.

Details of previous Purchase Orders can be quickly accessed by either Purchase Order Number, Supplier, Part Number, Buyer or Works Order Number - quickly answering the typical questions of 'What Did We Pay Last Time?', 'Who Supplied This In The Past?', 'When Did We Last Buy This Item?' and a wide range of reporting options provides detailed analysis of your purchases by Date, Supplier or Analysis Code.

continued overleaf.....

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Purchase Orders

(continued)



A number of Expedite and Overdue Reporting options are available to chase outstanding purchase orders, including an 'Expedite Fax Report' which can be faxed to your suppliers requesting confirmation of delivery dates for each outstanding item.

The system also maintains comprehensive Supplier Delivery & Quality Performance Statistics to assist your Quality Department in ranking individual Suppliers against the categories of Product or Service they have been approved to supply.

P & J Robuck Engineering
Tel. (021) 5487 8544 Fax. (021) 5487 8566

Purchase Order 010433
Issue 1 (Print 4) Page 1
Date: 07/08/01

To: J. A. Ashby & Sons
57 Alwater Road
Birston Industrial Estate
BIRSTON
Northants
NN4 5JR

From: P & J Robuck Engineering
Unit 18, Egghaston Industrial Estate
Penshore Park Lane
Willenborough
BIRMINGHAM B43 9RR
Tel: (021) 5487 5544



A number of Purchase Order print layouts are available to suit your requirements and stationery

Purchase Orders can be accessed by Order Number, Supplier, Buyer, Part Number or Works Order Number

Qty	Description	In	Required	Unit Price	Total Price
-----	-------------	----	----------	------------	-------------

50off	2100934 Wire Thread Insert.	A	07X		
10off	3501485 Bearing	S	07X		
5off	RK49063 Expansion Chamber N° 7. Partmarkto ES Spec 23-2 (JES 131-4) vibro engrave where indicated on Mark on RK49063 Mark on RK47294A Assy Mark on RK47298A Assy Mark on in accordance JES131-11(Dot pen) the figure 7 in 0.125" chara radius from centre of square hole shown @ view 'B' on RK14987 & corre NB Vibro engraving MUST be sufficiently deep to be visible post anodis Works Order: 00000337.02	A	07X		

END OF ORDER (1 Page)

Purchase Order Maintenance

Pending Cancelled **Historic** Any Status

Sorted by Part Number

Type	Form	Part Number / Spec	Description / Dimensions	Works Order	Order No	Placed By
BI		2100934	Wire Thread Insert.	00000229.00	010059	MARK
BI		AG12039	Nozzle, Primary-Fuel Burners	00000388.00	010394	MARK
BI		AG53707	INSERT	00000214.00	010023	MARK
BI		AS16052	Rivet	00000226.00	010044	MARK
BI		AS27861	NUT, SELF LOCKING	00000214.00	010023	MARK
BI		AS6733/6	Wire Thread Insert.	00000282.00	010114	DAISY
BI		BA86408	Dowel.	00000361.00	010276	MARK
BI		BA86408	Dowel.	00000361.00	010339	MARK
BI		EU10406	Plain Bearing Support.	00000391.00	010406	MARK
BI		JRA6188	Valve - Auto Temp. Control.	00000305.00	010167	MARK
BI		JRB2709	Assy - Thermocouple	00000304.00	010166	MARK

Options:

Sort By:
☐ Order Number
☐ Supplier
☐ Buyer
☒ Part Number
☐ Works Order

Show:
☒ All Orders
☐ My Orders Only

Placed Date: 01/05/00 Notes: As per your faxed quotation dated 9th March 2000.
<< Previous Tab: Ctrl-Left Next Tab: Ctrl-Right >>

Purchase Order Monthly Sp

01000 Raw Material

It is a condition of order that the buyer shall be responsible for the description of the goods.

	Oct'00	Nov'00	Dec'00	Jan'01	Feb'01	Mar'01	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Total
Bought In	0	0	0	0	0	0	0	0	0	0	0	0	0
Raw Materials	75	0	18,004	45	83	0	2,825	1,155	1,915	0	0	0	24,205
SubContract	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	75	0	18,004	45	83	0	2,825	1,155	1,915	0	0	0	24,205

01025 Raw Material Testing

	Oct'00	Nov'00	Dec'00	Jan'01	Feb'01	Mar'01	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Total
Bought In	0	0	0	0	0	0	0	0	0	0	0	0	0
Raw Materials	0	0	0	0	0	0	0	0	0	0	0	0	0
SubContract	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	1,000	0	0	0	0	0	0	0	0	0	1,000
Total	0	0	1,000	0	0	0	0	0	0	0	0	0	1,000

01100 Sub Contract

	Oct'00	Nov'00	Dec'00	Jan'01	Feb'01	Mar'01	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Total
Bought In	0	0	0	0	0	0	0	0	0	0	0	0	0
Raw Materials	0	0	0	0	0	0	0	0	0	0	0	0	0
SubContract	11,546	32,281	230,968	48,192	20,700	18,893	8,777	12,376	62,221	40,566	30,799	1,807	525,390
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,546	32,281	230,968	48,192	20,700	18,893	8,777	12,376	62,221	40,566	30,799	1,807	525,390

01150 Subcontract Tooling Charge

	Oct'00	Nov'00	Dec'00	Jan'01	Feb'01	Mar'01	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Total
Bought In	0	0	0	0	0	0	0	0	0	0	0	0	0
Raw Materials	0	0	0	0	0	0	0	0	0	0	0	0	0
SubContract	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	1,038	800	28,500	0	1,250	375	0	0	2,000	0	0	0	33,663
Total	1,038	800	28,500	0	1,250	375	0	0	2,000	0	0	0	33,663

PO00000001 L35, 50, 44021075 440 1115

F & J Robuck Engineering

July

44-03

07/08/2001

11:37



A wide range of reporting options provides detailed analysis of your purchases.

For more information please contact:

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Registered in England No. 2221222 u VAT Registration No. 670 8186 17

Raw Materials & Finished Parts Stock Control



These two modules can be used stand-alone or as part of the integrated **FactoryMaster Pro** system with its associated links to Purchase Ordering, Assemblies, Works Orders and Scheduling.

Raw Material Stock Control:

FactoryMaster Raw Material Stock Control does not require meaningless Stock Codes to be allocated to different items instead it is categorised according to its:

- Material Category (Nickel, Stainless Steel, Copper, etc.)
- Form (e.g. Bar, Tube, Sheet, Hex, etc.)
- Specification (e.g. MSRR6524, AMS5707, etc.)
- Size (Metric or Imperial)

[illegible][illegible]

Against each Size of a particular Raw Material the Total Quantity In Stock, Available, On Order and Allocated is visible and this data can then be 'drilled down' to view the individual Batches and their respective Supplier, Purchase Date, Cost, Cast Number, Release Note Number, Quantity and Number of Lengths/Sheets (by Stores Location).

All standard types of Stock Movements (e.g. Goods Receipts, Goods Issued, Adjustments, etc.) are catered for.

Future demand, by week or month, is calculated (via the M.R.P. report) from the

Stock Valuation Report										Page : 1
Batch	Material	Dimensions			Cut Length	Qty	Unit Price	Per	Total	P/O No
FORM: BB - Round Bar Billets										
Z24402	AMS 5645	Dia	2.34"	Lth	29mm	235No	6.5700	1No	1,543.95	
Z26111	AMS 5662	Dia	3"	Lth	342mm	1No	213.1500	1No	213.15	00012991
Z26110	AMS 5666	Dia	3.1/2"	Lth	37.0mm	1No	347.3000	1No	347.30	00012991
Z26112	AMS 5666	Dia	4.1/4"	Lth	222mm	11No	31.4000	1No	345.40	00012983
Z24947	MSRR 6522	Dia	5.5mm	Lth	18mm	57No	1.3100	1No	74.67	
Z23434	MSRR 6522	Dia	3.1/4"	Lth	45mm	48No	11.7100	1No	562.08	
Z10253	MSRR 6522	Dia	3.3/4"	Lth	51mm	7No	11.2500	1No	78.75	
Z25282	MSRR 6522	Dia	4.1/2"	Lth	30.5mm	5No	10.2400	1No	51.20	
Z26118	MSRR 6522	Dia	4.1/2"	Lth	44mm	31No	14.5400	1No	450.74	00012970
Z22100	MSRR 7004	Dia	160mm	Lth		11.5mm	40No	0.0000	1No	0.00
									3,667.24	
FORM: BF - Flat Bar										
Z21871	AMS 4911	Thk:	100mm	Wth:	40mm	16"	0.0000		0.00	
14627	MSRR 6522	Thk:	0.1/2"	Wth:	1.1/2"	7*9"	0.0000		0.00	
Z25694	MSRR 6522	Thk:	0.3/4"	Wth:	1"	12"	5.5000	1'	66.00	00012889
Z29532	MSRR 6522	Thk:	2.5mm	Wth:	76mm	4"	0.0000		0.00	1153
Z25922	MSRR 6522	Thk:	1"	Wth:	1.1/4"	7"	7.8100	1'	54.67	00012766
Z25926	MSRR 6522	Thk:	1"	Wth:	1.3/4"	25"	15.4000	1'	37.22	00012766
Z26009	MSRR 6522	Thk:	1"	Wth:	1.3/4"	5/6"	15.4000	1'	84.70	00012889
Z25952	MSRR 6522	Thk:	2"	Wth:	1"	6*4"	18.0500	1"	114.32	
0	MSRR 6522	Thk:	2.1/2"	Wth:	1"	5*2"	0.0000	1M	0.00	4077
									356.91	




Forward Order demand suitably expanded for Assemblies and taking into account Manufacturing and Purchase Lead Times to facilitate the necessary Forward Ordering of Material to satisfy future demand.

Material Traceability and Costing to Works Orders is dynamically generated as Material is booked out of Stores and onto Works Orders.

continued overleaf.....

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Registered in England No. 3231323 VAT Registration No. 670 8186 17

Raw Materials & Finished Parts Stock Control

(continued)



Finished Parts Stock Control:

Similar control to the above is provided for Finished Parts ensuring that relevant traceability data is stored per Batch.

All Stock is identified by its Part Number from which Stocks can be seen at Part Number Issue level (with appropriate traceability data stored by Batch Number).

Full Transaction Movement History is maintained for all Parts and their associated Batches and as with Raw Material future demand is calculated from the Forward Order data expanded, where appropriate, by Assemblies and Forward Orders.

Stock Movements						
Stock Code	Sec. Description	Inv. P/O	Quantity	Unit Price	Unit Cost	Stock Qty
403531 - ASS R407184	STO: LO: E	✓	41	163293	121188	3
413101	STO: LO: E	✓	4131	163293	121188	1
42182	STO: LO: E	✓	42182	163293	121188	1
43182	STO: LO: E	✓	43182	163293	121188	1
44182	STO: LO: E	✓	44182	163293	121188	1
45182	STO: LO: E	✓	45182	163293	121188	1
46182	STO: LO: E	✓	46182	163293	121188	1
47182	STO: LO: E	✓	47182	163293	121188	1
48182	STO: LO: E	✓	48182	163293	121188	1
49182	STO: LO: E	✓	49182	163293	121188	1
50182	STO: LO: E	✓	50182	163293	121188	1
51182	STO: LO: E	✓	51182	163293	121188	1
52182	STO: LO: E	✓	52182	163293	121188	1
53182	STO: LO: E	✓	53182	163293	121188	1
54182	STO: LO: E	✓	54182	163293	121188	1
55182	STO: LO: E	✓	55182	163293	121188	1
560671	T:BE	✓	0	031298	000000	1
561862	STO: LO: E	✓	561862	163293	121188	30
564203	FERR: LE	✓	564203	163293	000000	11
561861	STO: LO: E	✓	561861	163293	121188	1
564206	STO: LO: E	✓	564206	163293	121188	12
561871	STO: LO: E	✓	561871	163293	121188	19
560454	MO:STURE TR: P	✓	560454	163293	007000	12
560672	T:BE	✓	560672	163293	000000	5
560693	MO:STURE TR: P	✓	560693	163293	000000	20
Sheet 14		Sheet 12		Sheet 13		15
11R	Show All Stock	11Rg. Movements	Search Functions		Display Movement	

[illegible]

All Purchased and Manufactured Parts are controlled, and traceable, through the Stock System even where items are Manufactured and immediately shipped to Customers.

Where Purchase Orders are raised through **FactoryMaster** the Parts or Raw Materials are quickly GRN'd (booked in) and all relevant details and costs are 'inherited' from their Purchase Order.

Full Audit Trail traceability and reporting of all Stock Movements is an inherent part of **FactoryMaster**.

Trial Kitting facilities also available:

[illegible]

Days Stock Movement







Selected Date: **Monday 5th June 2000**

Time	Price	Volume	Day	Open	High	Low	Close	Change	Vol	Value
09:00	28002.00	35	0000	0	28002	0	28002	0	9	252018.00
09:05	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:10	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:15	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:20	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:25	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:30	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:35	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:40	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:45	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:50	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
09:55	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:00	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:05	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:10	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:15	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:20	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:25	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:30	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:35	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:40	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:45	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:50	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
10:55	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:00	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:05	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:10	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:15	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:20	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:25	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:30	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:35	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:40	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:45	28002.00	10	0000	0	28002	0	28002	0	3	84006.00
11:50	28002.00	10	0000	0						

Market Data Reference: 11:50 AM 28002.00

For more information please contact:

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Registered in England No. 3231323 VAT Registration No. 670 8186 17

Manufacturing Instructions and Route Cards



This module is a standard part of both **FactoryMaster Life** or **FactoryMaster Pro** and can be used in either stand-alone mode or in conjunction with the Scheduling and Quotation Modules.

In stand-alone mode the User can both create and maintain Manufacturing Instructions for individual Parts or Assemblies.

These Instructions comprise the individual Operation details of Set-Up Time, Operation/Cycle Time, Lead Time (for Sub-Contract) associated to the various Resource Codes that define the machines and processes provided by your company and its associated sub-contractors.

In addition to the standard Resource Descriptions (e.g. CNC Milling, Drilling, Bench/Assembly, etc.) the Planner may also specify more detailed Operation by Operation Instructions that will appear alongside the Operation when the Route Card is printed. In the case of Sub-Contract Operations these detailed Operation Instructions are automatically reproduced on the relevant Sub-Contract Purchase Orders as are the associated Batch Prices which are also brought forward from the Manufacturing Instruction database.

Op	Desc	Allow	Op time	Lead	...
10	MILLING	20.45.00	00:08:00		
20	IGNORE	21.00.00	00:07:00		
30	MILLING	20.30.00	00:08:00		
40	DRILLING	20.10.00	00:00:00		
50	DRILLING	00:00:00	00:00:00		
60	DRILLING	00:00:00	00:00:00		
70	DRILLING	00:00:00	00:00:00		

It is also possible to maintain more than one set of Manufacturing Instructions for a Part to cater for the situation where alternative Manufacturing Routes are possible.

Once Manufacturing Instructions are available the User may print off Route Cards for that Part in either stand-alone format or via the Works Order and Scheduling modules which will enable the Route Card to automatically reflect the Customer, Quantity, Due Date, Works Order Number, etc.

All printed Route Cards have the Works Order Number printed in a Bar Code format to facilitate the Shop Floor Data Capture options available within **FactoryMaster**.

When utilised in conjunction with the Estimating Module the above procedure is considerably simplified as Manufacturing Instructions can be automatically created straight from the Quotation. These Manufacturing Instructions inherit all relevant attributes of the Quotation but may then be expanded for actual Production use (e.g. Detailed Manufacturing Instructions may be added for some Operations).

All Manufacturing Instructions are associated with a specific Drawing Issue Release for the Part and these Issue Numbers are checked between Manufacturing Instructions, Quotation, Customer Order and Drawing Register to ensure that Route Cards can only be produced where all Issues agree.

continued overleaf.....

For more information please contact:

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Manufacturing Instructions and Route Cards

(continued)



As well as the Manufacturing Instructions themselves, it is also possible to record details of an associated Data Card Reference, Operator Self-Inspection Check List, CNC Program Number or even to embed a Stage Drawing, Digital Photograph or Digital Video Clip within each Manufacturing Stage

FactoryMaster 2000

Part Number: 3M0052
Drawing No: 3M0052
Plan Issue No: 1
Instructions Version: Original Route Number: 70

BASE PLATE
Route Description: Complete Manufacture
Planned Date: 24/10/00 Planned By: Graham
Amended Date: 24/10/00 Amended By: GRAHAM
Material Spec: Form:

Op	Res	SD	Instructions	Set Times	Op Times	Lead	IPC	Data Card	CNC Prog	Ins	OLE	Photo	Tools
10	MIL		MILLING	00:45:00	00:18:00								
20	JIG		JIG BORE	01:00:00	00:07:00				A235				
30	MIL		MILLING	00:30:00	00:08:00								
40	DF		DRILLING										
50	DF		DRILLING										
60	DF		DRILLING										
70	DF		DRILLING										
80	MIL		MILLING										
90	JIG		JIG BORE										
100	AND		ANCOISE										

Route 70 Inspection Check Details

CNC Program No: A235 Operation No: 20 Resource: JIG

Op	Dimension	Equipment required for	Frequency Of Check
1	Base Depth	Depth Gauge	100%
2	Base Wall Thickness - MUST NOT BE LESS THAN 0.0005"	Micrometer	100%
3	etc.		

All resulting in a Route Card similar to the following (or chosen from a library of over 12 alternate Route Card layouts):

Route & Inspection Record Card

Part No: 84
Drawing No: 3M0052
Plan Issue No: 1
Instructions Version: Original
Route Number: 70

BASE PLATE

Route Description: Complete Manufacture
Planned Date: 24/10/00 Planned By: Graham
Amended Date: 24/10/00 Amended By: GRAHAM
Material Spec: Form:

Op	Res	SD	Instructions	Set Times	Op Times	Lead	IPC	Data Card	CNC Prog	Ins	OLE	Photo	Tools
10	MIL		MILLING	00:45:00	00:18:00								
20	JIG		JIG BORE	01:00:00	00:07:00				A235				
30	MIL		MILLING	00:30:00	00:08:00								
40	DF		DRILLING										
50	DF		DRILLING										
60	DF		DRILLING										
70	DF		DRILLING										
80	MIL		MILLING										
90	JIG		JIG BORE										
100	AND		ANCOISE										

Route 70 Inspection Check Details

CNC Program No: A235 Operation No: 20 Resource: JIG

Op	Dimension	Equipment required for	Frequency Of Check
1	Base Depth	Depth Gauge	100%
2	Base Wall Thickness - MUST NOT BE LESS THAN 0.0005"	Micrometer	100%
3	etc.		

For more information please contact:

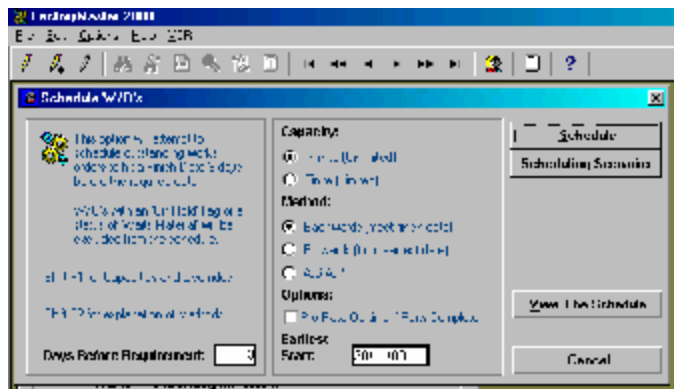
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Scheduling



This **FactoryMaster Pro** module can only be used in conjunction with our Sales Order Book, Works Order, Quotation and Manufacturing Instruction modules.



All Works Orders (and underlying Sub-Assemblies or Components of an Assembly) are expanded to their constituent Operations and Scheduled using Manufacturing Instruction based Operations and Times are if present - otherwise Quotation details are used.

All these Operation details are then amalgamated, by day, to provide the overviews of Planned vs Available Capacity. Available Capacities are specified through Resource Codes which represent the various Machines or Processes within your company.

Each Resource Code is specified with a Daily Overall Capacity Available (No. of Machines x Normal Working Hours per Day) and Maximum Capacity to be Planned against any one Job per Day (Normal Working Hours per Day).

In addition a Percentage is specified against each day of the week which reflects each days available capacity as a percentage of the Normal Working Hours (e.g. Monday to Thursday may be 100% with Friday being 60% and Saturday being 20% - thus representing a typical early finish on Fridays and Morning Shift on Saturdays).

Operation	Start Date	Finish Date	Planned Qty	Available Qty	Status
h2111	24-11-11	24-11-11	10	10	Planned
h2111	24-11-11	24-11-11	20	20	Planned
h2111	24-11-11	24-11-11	30	30	Planned
h2111	24-11-11	24-11-11	40	40	Planned
h2111	24-11-11	24-11-11	50	50	Planned
h2111	24-11-11	24-11-11	60	60	Planned
h2111	24-11-11	24-11-11	70	70	Planned
h2111	24-11-11	24-11-11	80	80	Planned
h2111	24-11-11	24-11-11	90	90	Planned
h2111	24-11-11	24-11-11	100	100	Planned

All Scheduled Works Orders are viewed and monitored from a Works Order 'Command Screen' from which it is possible to see:

- Planned Start Dates (in RED if late) and Finish Dates
- Source of Scheduling Data for each W/O (i.e. Manufacturing Instructions or Quotation or Not Scheduled)
- 'Drill down' to see Customer Order make-up of Works Order
- 'Drill Down' to see Operation and Time make-up of Works Order
- Graphical Calendar based Plan showing days when each Operation is Planned and (in a different colour) the Actual Progress alongside
- Detailed record of Time Bookings to each Operation by Employee
- 'Drill Down' to all associated Purchase Orders for any Works Order
- An overview graphical Calendar based Plan of which weeks each W/O is Scheduled
- A graphical view of Scheduled Requirement for each Resource Group, against available Capacity, that can then be 'drilled down' to see the Planned W/O's for that week

For more information please contact:

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Scheduling

(continued)

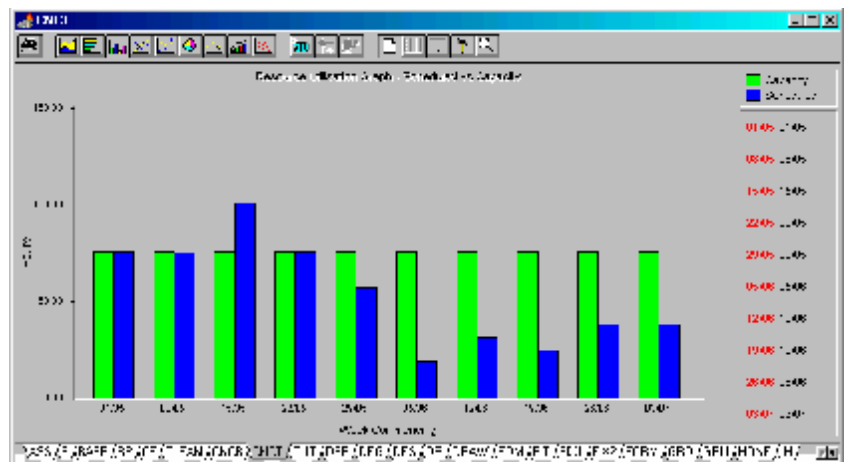


It is also possible to:

- Re-Schedule an individual Works Order to a different Required Date
- Print an individual or group of Route Cards

The **Major Benefits** of this module are:

- The ability quickly and accurately to calculate and view a plan against which management can plan and prepare their actual production
- Production of 'Work To' summaries by Resource Code for the Shop Floor Supervisors so they, and their Team, have vision of, and can plan for, work coming through to their Section and its relative importance and priority with other work
- Customer queries on progress of their Jobs easily answered via the Actual vs Plan graphical display



For more information please contact:

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Shop Floor Data Capture and Time Recording



Whilst this **FactoryMaster Pro** module can be used in stand-alone form for Employee Attendance and Payroll purposes it really becomes of most benefit when used in conjunction with **FactoryMaster** Works Orders for Job Costing and for the monitoring of Job Progress (Operation by Operation).

Each Employee is provided with a Bar Coded Employee Card and every Works Order has a Bar Coded Route Card:



These Bar Codes are read by our Shop Floor Data Capture Terminals (that utilise a standard on-line P.C. coupled with a Touch Screen Monitor and Laser Bar Code Scanner) to ensure information can be quickly and easily captured. No keyboard or 'mouse' use is required.

Works Order:		ORIGINAL		Route & Inspection Record Card		Barcode		
85		CUSTOMER: Double Yates Ltd		Order No: DV1234	Due Date: 30/Nov/2000	Page: 1		
DESCRIPTION: BASE PLATE		Part No: 3M00652	Drawing No: 3M00652	Drig Issue: 1	Mat. Spec:	Batch Qty: 120		
Release Note No.								
Batch No.								
Material Spec								
Supplied By								
MATERIAL ISSUED FOR PRODUCTION				STAMP		DATE		
Op No.	Operation	1st OFF Shop'n Stamp	Operator	Instructions	Set Time	Oper. Time	Reject	Quantity Forward
10	MIL			MILLING BLOCKING UP	00:45	00:18:00		
20	JIG			JIG BORE BORE MAIN HOLE 20MM BY 5MM DEEP BEWARE THIN WALL - MAKE SURE START TO MAX TOLERANCE ON THICKNESS	01:00	00:07:00		
30	MIL			MILLING	00:30	00:08:00		
40	DR			DRILLING	00:10	00:06:00		
50	DR			DRILLING	00:10	00:06:00		
60	DR			DRILLING	00:10	00:03:00		
70	DR			DRILLING	00:10	00:03:00		
80	MIL			MILLING	01:00	00:02:00		
Inspection Remarks				Inspection Stamp	Certificate No.	Date	QTY	

This combination of equipment and **FactoryMaster** Shop Floor Data Capture software enables easy use by the Employees to:

- Book onto, and off, the premises / shift for Payroll and Time and Attendance requirements
- Book onto, and off, individual Works Orders (by Operation if required)
- Record number of Parts manufactured, whether Operation is complete, and the split between Set-Up and Operation Time (if required)
- Record (if required) Non-Chargeable Times and Reasons (e.g. Waiting for Material, Waiting for Setter, Machine Breakdown, Waiting for Tooling, etc.)
- Enquire on their Booked Shift Hours - as used for Payroll Calculation

From the Company's point of view the major benefits of a Real-Time Shop Floor Data Capture system are:

- Up to the minute visibility on the progress of any Job and its comparison to the Schedule
- Interrogate what Operations are currently being worked on
- Exception reporting of any Operations that are falling behind Schedule
- View the Job Costing time value being accumulated against a Job and compared to the Quotation - Operation by Operation
- See what Employees are On-Site and what Jobs they are currently engaged on

continued overleaf.....

For more information please contact:

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Shop Floor Data Capture and Time Recording

(continued)



The Time Swiping Process is a simple 1, 2, 3 operation.....

Log ONTO a Job / Operation

Swipe the Employee's Card

Log OFF a Job / Operation

Swipe the Employee's Card

1

Swipe the Route Card

Press the 'Log Off ' Button for the Job / Operation

2

Press the 'Operation No' to be worked on

Enter the 'Quantity' Produced

3

Employee Pay Rates and Shift Patterns are retained to enable the calculation and production of Payroll Input Reports (and data in an Import format to suit many popular Payroll systems) detailing Payroll Hours and Gross Pay.

For more information please contact:

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Job Costing and Machine Utilisation



The 'Holy Grail' - what most companies require but rarely achieve.

Most companies are aware of whether they made a Profit or Loss for any particular month but often do not know how profitable individual Jobs were or how profitable individual Customers are compared one with another.

Often companies Quote work and monitor Income on a global Rate per Hour achieved per Man Hour - but this must be recognised as a potentially dangerous practice where an unskilled Labourer with a file doing some Bench work is valued on the same basis as a sophisticated CNC machine costing £100,000 being run by a very skilled Machinist.

Job Costing Summary

Works Order: 271.00 Complete

Job Number: JF2428E Plate Size: 500x500 Date Entered: 09/05/99

Job Plan: 271.00

Time & Time Codes			
Planned Set Hours	1.0000	Actual Set Hours	2.0000
Planned Oper. Hours	4.0000	Actual Oper. Hours	1.0000
Planned Set Cost	0.0000	Actual Set Cost	0.0000
Planned Oper. Cost	100.0000	Actual Oper. Cost	0.0000

Costs		Sales Details	
Planned Sub Cost	0.0000	Actual Sub Cost	0.0000
Planned Mat. Cost	0.0000	Actual Mat. Cost	0.0000
Planned PIP	0.0000	Actual PIP	0.0000
Planned PIP Time	0.0000	Actual PIP Time	0.0000
Planned PIP Cost	0.0000	Actual PIP Cost	0.0000

TOTAL Planned Cost 100.0000 **TOTAL Actual Cost** 0.0000 **Sub Cost Value** 0.0000

OK Cancel

FactoryMaster enables a variety of easy to capture information to be organised automatically into a variety of analyses that will shed much light on the detail both by Job, Part, Customer and Resource.

Information can be captured in a variety of ways:

- **Time** - at its simplest (via **FactoryMaster Life**) - by capturing the Employee Time Bookings from details recorded on the Route Card and processed at the end of a Job (along with Direct Costs of Materials, Parts and Sub-Contract)
- or via Time Bookings recorded on Daily Employee Timesheets processed daily and providing a more up-to-date view on the progress of Jobs (available with **FactoryMaster Life** or **Pro**)
- or via Shop Floor Data Capture terminals capturing the Time information automatically 'real-time' as Operators move from one task to another. This option is only available with **FactoryMaster Pro** and combines the benefits of a conventional Time Clock for Payroll with Shop Floor Data Capture of Job Times and Progress. Specialised 'Touch Screen' Monitors combined with Laser Scanners make this a very slick and easy to use system

continued overleaf.....

For more information please contact:

FactoryMaster Limited

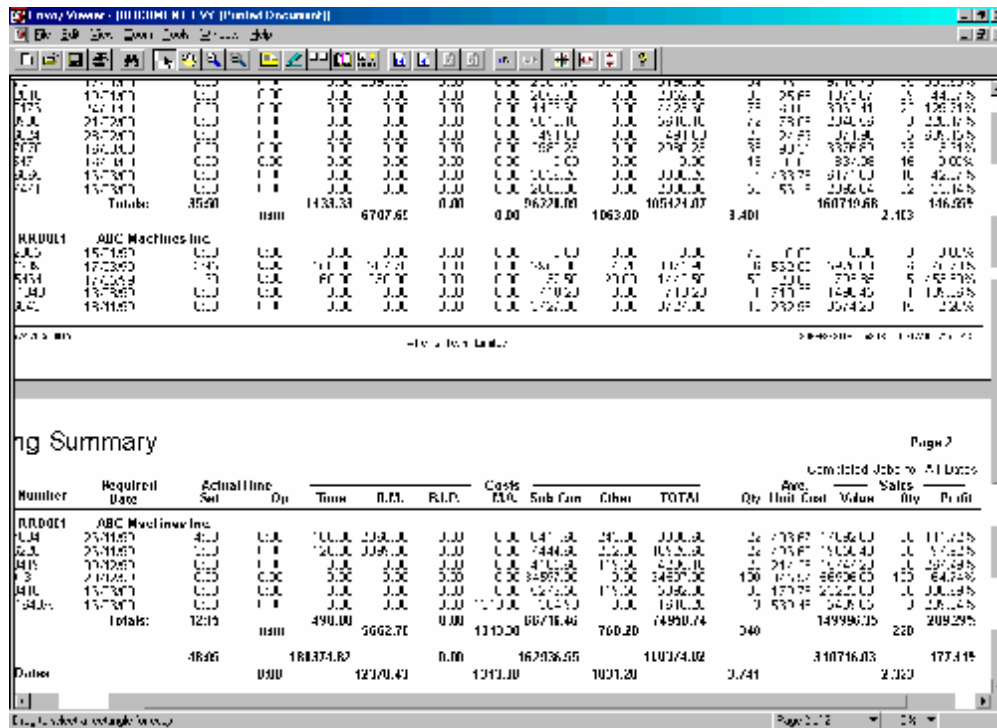
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Job Costing and Machine Utilisation

(continued)



- **Purchase Costs** (for Material, Bought-In Parts or Sub-Contract) can be collected via the Purchasing module or just via simple Cost Data entry.
- **Stock Costs** (for Raw Material or Stock Items) can be similarly collected via our Stock Control module or just via simple Cost Data entry.

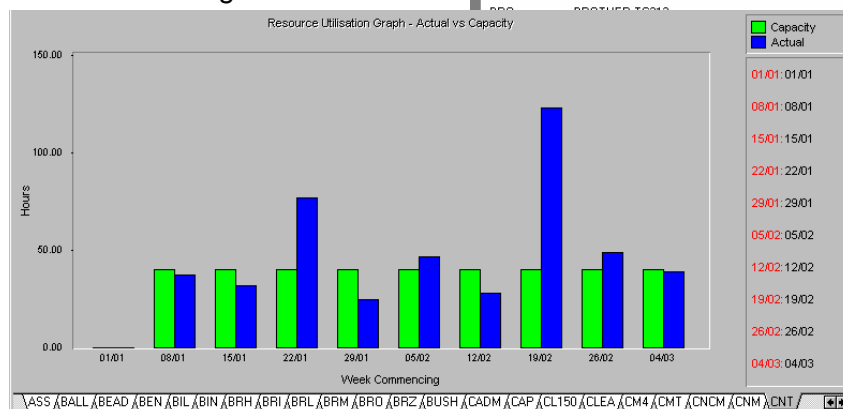


Job Costing Enquiries and Reports can then be produced by Job, Part Number (showing 'Batch Cost to Make' History), Customer and Accounting Month.

Job Costing and Time comparisons between original Quotation, Manufacturing Instruction Plan and Actuals are also available.

In addition, all Time Costed data is also captured against each Resource so that a picture can be built up

of the relative earning capacity (and profitability) of individual machines along with their actual earning Hours. Information which, after a few months, could then be used to adjust the Available Hours Percentage for individual Machines and Processes on the Resource File which in turn help make Scheduling more accurate.



For more information please contact:

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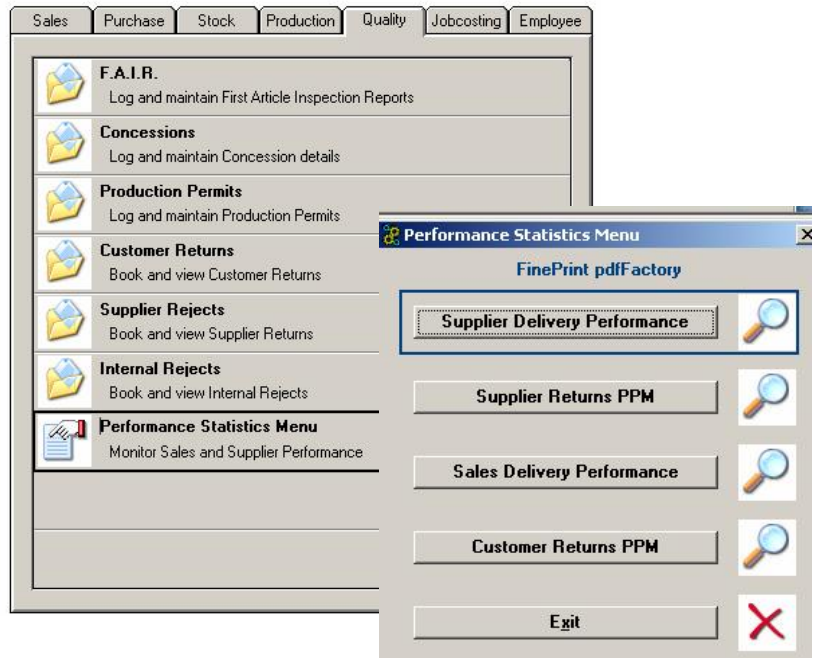
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Quality



FactoryMaster assists the Quality Manager's duties by virtue of the following integrated functions:

- First Article Inspection Reports
- Concessions
- Production Permits
- Supplier Rejects and associated Reject Notes
- Internal Rejects and associated Reject Notes
- Supplier Delivery Performance
- Supplier Quality Statistics
- Customer Delivery Performance
- Customer Quality Statistics



The following are examples of what is produced from just the Supplier based data – similar levels of detail lie behind all the Quality categories:

Supplier Delivery Performance

Selected Supplier: **COL02** CULTURAL METALS LTD

Order Lines: **Value**

Receipts which were subsequently rejected are excluded from these figures

Month Required	Received Early	* Received On Time	Received Late	Average Days Late	Still Outstanding	Grand Total
October 2001	4.00 57%		3.00 43%	10.67		7
November 2001			3.00 100%	8.00		3
December 2001						
January 2002			13.00 100%	7.00		13
February 2002			4.00 100%	16.50		4
March 2002			1.00 100%	13.00		1
April 2002	1.00 25%		3.00 75%	4.00		4
May 2002			4.00 100%	4.00		4
June 2002						
July 2002						
August 2002						
September 2002						

Supplier Delivery Performance

Purchase Orders

PO Number	Item No	Item Description	Quantity / Date Required	Total Price
080601	1	FLAME CUT F/GROUND LENGTH 660mm WIDTH 195mm	8No 01/04/02	122.00
080640	1	FLAME CUT TUBES O.D 235mm I.D 198mm LENGTH	1No 22/04/02	22.10
080640	2	FLAME CUT TUBES O.D 255mm I.D 218mm LENGTH	1No 22/04/02	26.00
080640	3	FLAME CUT F/GROUND LENGTH 488mm WIDTH 198mm	4No 22/04/02	54.00

Receipts

Advice Note Number	Date Received	* Net Qty Received	Receipt Status
35036	26/03/02	8No	Early

* The 'net quantity received' is the original quantity received less any goods subsequently rejected

12 Months Supplier Delivery Performance and drill-down to precise underlying detail all AUTOMATICALLY gathered just by using FactoryMaster's Purchase Order Processing and Goods Receipt routines

For more information please contact:

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Quality (continued)



Supplier Returns & Concessions

Supplier: **AMF01** ALDRIDGE, MORLEY & FOXTROT Return Code: **All Codes**

Month	Quantity Received	Quantity Returned	Concession Qty	Parts Per Million	6 Month Average
October 2001	11				0
November 2001	32				0
December 2001	7	7		1,000,000	36,269
January 2002	316	100		316,456	212,302
February 2002	7				240,991
March 2002	98				227,176
April 2002	260				148,611
May 2002	25				150,070
June 2002					
July 2002					
August 2002					
September 2002					

Press F5 to show a break

< Prev Supplier

Receipts & Returns - January 2002

Goods Received From Supplier

Advice Note / Date Rec'd	P/O No / Item Number	Item Description	Quantity Received
196931 07/01/02	080447 1	AX56138 BRACKET, REAR	50
196931 07/01/02	080447 2	AX56138 BRACKET, REAR	50
197173/4 14/01/02	080447 1	AX56138 BRACKET, REAR	50
197173/4 14/01/02	080447 2	AX56138 BRACKET, REAR	50
197256 15/01/02	080456 1	FK21964 BRAKE HUB	53
197285 15/01/02	080456 1	FK21964 BRAKE HUB	50
197075 24/01/02	080436 1	BDA9035 UPPER SUSPENSION ARM	13

Return Code: **All Codes** NB: Raw Materials are NOT currently included in these figures.

OK

Also, any Rejects or Concessions recorded against your Supplier's Deliveries will AUTOMATICALLY provide a 12 months Parts Per Million (PPM) Analysis and Graph (with 6 month moving average) and drill down to the underlying detail

Supplier Reject Information once recorded also Drives production of the Supplier Reject Note:

Supplier Reject Number 000004

Status

Supplier: **AMF01 (ALDRIDGE, MORLEY & FOXTROT)**

Advice Note No: **196931** Total Rec'd On Advice Note: **50No**

Purchase Order: **080447** Total Qty Rejected: **50No**

Stock Type: **SC Sub-Contract** Qty Rejected (This NCR): **50No**

Description: **AX56138 PLATE BACKING** Reject Date: **07/01/02**

Works Order: **00026115.00** Op: **30** Reject Code: **TR.REJ**

Details:

PLATE BACKING
BLACK ANODISE COMPLETE TO DRAWING ENCLOSED.

Comments: **DRAWING CALLS FOR BLACK ANODISING -COMPONENTS ARE NOT BLACK.**

Print Reject Note **OK**

Factory Master Acme Engineering Ltd
The Industrial Park
FARMINGFORTH
Staffordshire
Tel: (01223) 450780
Fax: (01223) 587886

Supplier Reject Note

To: ALDRIDGE, MORLEY & FOXTROT
225 BRIDGEMAN PARK
ALDRIDGE
B54 9SD

Reject Note No: **000004**
Reject Date: **07/01/02**

Part Number: **AX56138 BRACKET, REAR**

Purchase Order: **080447** Advice Note: **196931**
Works Order: **00026115.00** Op Number: **30**
Qty Received: **50No** Qty Rejected: **50No**

Remarks:
DRAWING CALLS FOR BLACK ANODISING -COMPONENTS ARE NOT BLACK.

Signature: _____ Date: _____
Print Name: _____
Date: _____

For more information please contact:

FactoryMaster Limited

5 Watling Court u Attleborough Fields u NUNEATON u Warwickshire u U.K. u CV11 6GX
Telephone: +44 (0) 870 442 1115 u Fax: +44 (0) 870 442 2622 u email: sales@factorymaster.co.uk
Web Site: www.factorymaster.co.uk

Registered in England No. 3231323 u VAT Registration No. 670 8186 17

Tooling & Gauging Control



This module can be used in either stand-alone format or in conjunction with our **FactoryMaster Lite** or **FactoryMaster Pro** products.

The main features provided by the module are to control the status of all your Tools & Gauges, when they were last calibrated and which are now due for calibration.

Probably the **major cost benefit** provided over manual and other forms of control is in reducing the number of items requiring calibration by tracking how many days of Shop Floor use they have had, whilst time held within the Tooling & Gauging Department can be treated as not counting towards their service days between calibrations - **this can considerably reduce the volume of items requiring calibration.**

Summary Specification:

Information recorded on all Items:

Tooling Location	
Tooling Colour	
Issue History	
Calibration History	
Tool No / Serial No	
Description	
Tool Type / Group	Calibration Method
Tool Size	Tolerance
Ext. Calibration Lab. (if relevant)	
Calibration Interval in Days and/or Issues	and/or Days of Issue
Purchase Details:	Supplier
	Cost
	Date
	Purchase Doc.Ref.

Reports & Enquiries Available:

Items due to be Calibrated	Inspectors
Tool List	Employees
Calibration Records	Calibration Instrs
Tool Locations	Calibration Labs
Tool Suppliers	Calib'n Results
Detailed Individual Tool Sheet	Tool Types
Out of Service Items	Tool Conditions
Issued Items	Tool Colours
(showing Job & Employee)	

Tool Serial No	Tool Type	Description	Size/Capacity	Tool Location
C PLANT 1	EMIC	EXTERNAL MICROMETER	0-1"	PERSONAL
C PLANT 2	CAL	DIAL OR DIGITAL CALIPER	0-6"	PERSONAL
C PLANT 3	CAL	DIAL OR DIGITAL CALIPER	0-6"	PERSONAL
CU40527A	FIX	FIXTURE	CU40527A	TR 69
CU43779A	FIX	FIXTURE	CU43779	TR 1240
CU55343A	FIX	FIXTURE	CU55343A	TR 1398
CU58417	FIX	FIXTURE	CU58417	TR 88
D BORLEY 1	CAL	DIAL OR DIGITAL CALIPER	0-6"	PERSONAL
D BORLEY 2	TEMP	TEMPORARY		PERSONAL
D EVANS 1	CAL	DIAL OR DIGITAL CALIPER	0-6"	PERSONAL
D FENLON 1	CAL	DIAL OR DIGITAL CALIPER	0-6"	PERSONAL
D SIMMO 10	EMIC	EXTERNAL MICROMETER	0-1"	PERSONAL

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 Web Site: www.factorymaster.co.uk

2004 Price List



FactoryMaster licences can be bought in multiples of 1 and do not have to adhere to the following price breaks. The Numbers of Users below have been chosen merely to illustrate typical user requirements.

Licensing is on a concurrent basis, meaning that the system can be loaded on as many PCs as you own, but access to FactoryMaster will be restricted to the number of User Licences purchased.

The first user always costs £5995, but each additional user licence is only £995 thereafter.

Number of Users	Core FM Product	Core + MRP/Sched	Cost per User ¹
1	£5,995 *	£8,490	£38.43
3	£7,985 *	£10,480	£17.06
5	£9,975 *	£12,470	£12.79
10	£14,950	£17,445 *	£11.18
20	£24,900	£27,395 *	£8.78
50	£54,750	£57,245 *	£7.34

¹ Cost per user figure is based on the prices marked with a '*' and represents a price per week, per user over a three year write off period.

Modules included in the core FactoryMaster product are:

- Estimating
- Sales Order Book (incl. Price and Discount Matrix)
- Purchasing
- Stock Control (Raw Material & Finished Parts)
- Sales Invoices
- Delivery Notes
- Job Costing and KPI analysis
- Assemblies / Bills of Material
- Manufacturing Instructions
- Job / Route Cards
- Shop Floor Data Capture
- Quality
- Tooling & Gauge Control
- Release Notes (Certs. of Conformity)

Optional Modules (included under the column "Core + MRP/Sched":

Material Requirements Planning	£ 1,495
Scheduling	£ 1,495
Both MRP & Scheduling	£ 2,495

(MAGIC Licence Costs are now INCLUDED in the above prices)
(All the prices quoted are subject to V.A.T.)

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Web Site: www.factorymaster.co.uk

2004 Price List Continued



Installation and Training:

Installation is included and should be arranged with your Dealer.

Training, System Implementation and Project Management are all available at our standard Daily Training Rate (currently £360 per day provided you are covered by a valid Support Contract).

Licence & Telephone Support:

All FactoryMaster products are supplied with 90 days Telephone Support.

Licence & Support Contracts are then 15% per annum of *current* product price (payable monthly by Standing Order).

Customers with a valid Licence & Telephone Support Contract will **additionally benefit** from:

- Priority Support
- 25% off our Daily Training Service Rate
- 25% off our Daily Bespoke Modifications Rate
- Free upgrades to their products or modules
- Purchase of additional User Licences at just the 'per additional User' price in the Current List Price

2004 Daily Rates:	Training & System Implementation	£ 480 (£360 with Support Contract)
	Bespoke Modifications	£ 560 (£420 with Support Contract)

Terms:	25% Deposit with Order
	50% on Installation
	25% 30 days after Installation

For more information please contact:

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