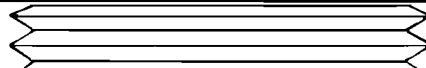
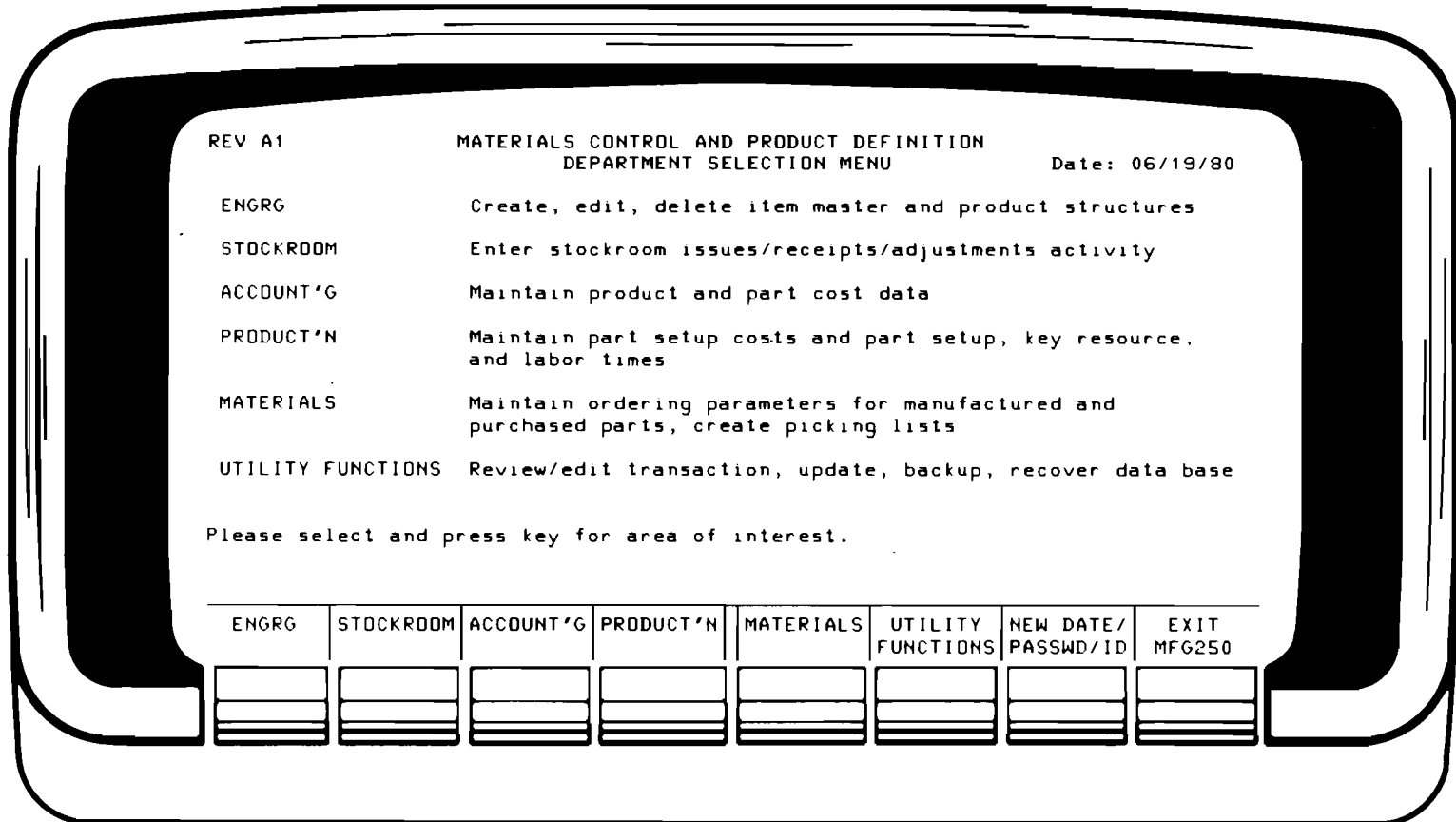


MFG/250

 HEWLETT
PACKARD

Software for Manufacturing Business

MANAGEMENT SUMMARY



HP Computer Museum
www.hpmuseum.net

For research and education purposes only.



BILL OF MATERIALS

With MFG/250 you will find it easier to help reduce unneeded inventory and to specify engineering product structure changes. MFG/250 also:

1. Maintains common bill of material (product structure) data for interdepartmental use (normal and for modular structure techniques).
2. Obtains material lists (Item Master) with vital data about each part.
3. Easily retrieves engineering data from parts list (Item Master).
4. Implements and communicates engineering changes to stock, accounting, production and material departments.

ENGRG	STOCKROOM	ACCOUNT'G	PRODUCT'H	MATERIALS	UTILITY FUNCTIONS	NEW DATE/PASSMD/ID	DEPARTMNT MENU

To get engineering data from the system you call up the Engineering Selection Menu. This menu lists all the functions available by number. Select a function by entering its number and the screen will display your choice. Now you can add, remove, or modify existing information to the Item Master Data set.

Reports can be requested in a desired form and immediately be printed out for your inspection.

The operation of this system is easy and takes little time to master. For this reason automation of your manufacturing business is not complicated and can be done with minimal effort.

Engineering Item Data

This report speeds vital information to your employees. The report supplies information especially helpful in the design phase of the manufacturing cycle:

1. it immediately shows the part's status (obsolete, in production, etc.).
2. it helps you choose the best part for the job.
3. it keeps track of individual part assembly time (critical path lead time).

1. when a part comes into use in the assembly
2. incorporates current part costs into the product cost report
3. reflects upcoming changes due to discontinued parts
4. simplifies stock picking, forecasting, order entry, scheduling, and engineering changes.

Part #: 10015B
Effective on 02/12/79

Demonstration Bicycle Company
ENGINEERING ITEM DATA REPORT

Report #: M 013
Date: 02/12/79

PART NUMBER	DESCRIPTION	UM	STUS	PART TYP	PERD PART	DRAWING NUMBER	LEAD TIME	CUR LY	P/S USES	MFG CD	DEPT	ACOUNT	SLIT	BUY UNIT	UNIT COST	LT
10015B	TRACKSTER, M/01/26	EA	P	FG		1052A-02	1	36	0	M	10	1342.00	LN	74.481	0	
10074A	DERAILLEUR RACER, M/10/26	EA	P	FG		1074A-01	1	36	0	M	10	1342.02	LN	98.706	0	
10084A	DERAILLEUR TOUR, M/10/26	EA	P	FG		3784A-01	1	36	0	M	10	1342.00	LN	80.704	0	
1030-1001	15 FRAME ASSEMBLY	EA	P	A		1052A-01	2	34	1	M	21	1332.00	DS	54.068	1	
1040-0004	15 LOOSE PARTS KIT	EA	P	A		1040-004	1	35	2	M	21	1332.00	DS	14.688	1	
1040-0107	74 LOOSE PARTS KIT	KY		A	P	1040-107	1	35	1	M	21	1332.00	DS	15.500	1	
1052-2001	74 FRAME ASSEMBLY	EA	P	A		1052-201	2	34	1	M	21	1332.00	DS	75.411	1	
1052-20-A	SHIPPING CARTON, BICYCLE	EA	OR	SH		1052-20A	5	5	0	P	21	1310.00	MR	1.600	0	
1052-20-B	SHIPPING CARTON, BICYCLE	EA	P	SH	Y	1052-20B	5	5	3	P	21	1310.00	MR	1.250	1	
1052-3001	84 FRAME ASSEMBLY	EA	P	A		1052-301	2	34	1	M	21	1332.00	DS	66.023	1	
1089-21410	DELUXE DERAILLEUR	EA	P	A		1089-214	20	20	1	P	22	1310.00	DS	10.930	2	
1089-21420	STANDARD DERAILLEUR	EA	P	A		1089-420	20	20	1	P	22	1310.00	DS	4.900	2	

ENGINEERING ITEM DATA

Indented Materials

An indented material report is available showing the bill of material of an assembly part up to 30 product structure levels.

The system points out important information:

Part #: 10015B
Effective on 02/12/79

Demonstration Bicycle Company
INDENTED MATERIALS REPORT
ALL LEVELS

Report #: M 002
Date: 02/12/79

LVL FROM PAREN1	COMPONENT PART NUMBER	DESCRIPTION / REMARKS	QUANTITY PER	UM	EFFECTIVE DATES	PT STS	DRAWING NUMBER	PT CD	PS CD	MFG ISS	LEAD TIME
	10015B	TRACKSTER, M/01/26	EA			P	1052A-02	FG	M		1 (6)(UM)
1	1030-1001	15 FRAME ASSEMBLY	1.000	EA	08/12/78	P	1052A-01	A	M		2 0
2	2800-0050	HEADSET/FORK ASSEMBLY	1.000	EA	08/12/78	P	2800-50	A	P		10 0
2	3960-1000	WHEEL ASSEMBLY 26"	2.000	EA	08/12/78	P	3960-01	A	M		1 0
3	3970-1011	WHEEL 26"	1.000	EA	05/25/78	P	3970-10	A	M		5 0
4	3972-1000	RIM, SUPER-TUF	1.000	EA	05/25/78	P	3972-10	MH	P		7 0
4	3973-2020	HUB ASSEMBLY	1.000	EA	05/25/78	P	39642-20	A	P		7 0
4	3974-1010	SPOKE ASSEMBLY	36.000	EA	05/25/78	P	39462-01	A	X	M	1 0
5	3974-1005	SPOKE	1.000	EA	05/01/78	P	39740-5	MH	M		1 0
6	3974-1001	SPOKE WIRE, 1/16, STEEL	1.000	F1	05/01/78	P		M	P		15 0
5	3974-1006	SPOKE NUT, THRLEADED	1.000	EA	10/30/73	P	39630-01	MH	M	N	1 0
6	3974-1002	SPOKE NUT, UNITHREADED	1.000	EA	10/30/73	P	39630-01	MH	M		3 0

INDENTED MATERIALS

Review Item Master Entry

With this feature, you can review all of the data stored for a particular part.

All this can be recorded on paper by pressing the »OUTPUT TO PRINTER« key.

Summarized Materials

You can quickly determine combined usage requirements for specific parts. It can also help you investigate the feasibility and impact of proposed product changes.

Where used

Pinpoints the exact location of the part in the structure and makes engineering changes easier.

Selected_parts	Demonstration Bicycle Company	Report: MF 015
	ITEM MASTER REPORT	Date: 02/12/79
Part number	3960-1000	
Description	WHEEL ASSEMBLY 26"	
Reference Number	26	Multiple Order Qty
Unit of Measure	EA	20.000
Drawing number	89640-01	Buyer/scheduler
Part Status	P	DS
Preferred Part Code		Lead Time (days)
Part Type	A	1
Product Line		Safety Time (days)
Purchase/mfg Code	M	0
		Yield Percentage
		0.00%
Stockroom	S2	Cumulative Lead Time (days)
Quantity on-hand	0.000	29
Quantity change	0.000	Key Resource Code
Date of Last Receipt	07/18/78	Key Rsrc Time (hr/min/sec)
Date of Last Issue	02/08/79	000/00/00
Date of Last Cycle Cnt	12/10/78	Setup Cost
Date of Average	02/18/79	10.660
Cycle Count Interval	90	Setup Time (hr/min)
		000/05
Average Usage	13.541	Labor T-Level (hr/min/sec)
Average On-hand	42.908	000/05/00
Average Interval	90	Cum Labor Time(hr/min/sec)
		000/52/14
Order Policy Type	1	Account Number
Order Point	20.000	1332.00
Safety Stock	0.000	Department
Fixed Qty	100.000	22
Minimum Order Qty	20.000	Value Class
Maximum Order Qty	400.000	A
		List Price
		\$17.990
		Unit cost
		\$12.691
		Labor \$ This Level
		\$.438
		Mat'l \$ This Level
		\$.100
		Other \$ This Level
		\$0.000
		Labor \$ Lower Levels
		\$4.976
		Mat'l \$ Lower Levels
		\$7.177
		Other \$ Lower Levels
		\$0.000
		Low Level Code
		2
		Low Level Table
		0

ITEM MASTER REPORT

Materials Simulated Picking List

This feature supplies you with a list telling you what parts are likely to be in short supply. This reduces wasted time with empty stock shelves by supplying immediate on-line information. The actual picking lists help to schedule your production and are usable as picking vouchers.

Calculation type: UNIT COST
Percent A: 20.000Z
Percent B: 30.000Z
Percent C: 50.000Z

Demonstration Bicycle Company
ABC ANALYSIS REPORT
(DETAILED)

Report: M: 090
Date: 02/12/79

LINE NO	PART NUMBER	DESCRIPTION	UNIT COST	ANNUAL QUANTITY	ANNUAL DUSAGE	ZDF% TOTAL	LUN ZDF%	CUM% ITERS	PART STUS	CLASS	OLD	NEW
1	100150	TRACKSTER, M/01/26	74.40	1,232,240	91,770.47	12.8	12.8	1.6	P	A	A	A
2	1020-1001	15 FRAME ASSEMBLY	54.07	1,300,100	75,051.79	9.8	21.8	3.1	P	A	A	A
3	3760-1000	WHEEL ASSEMBLY 26"	12.69	4,942,470	62,724.09	8.2	29.9	4.7	P	A	A	A
4	100700	DERAILLEUR RACER, M/10/26	98.71	547,135	54,005.27	7.0	37.0	6.3	P	A	A	A
5	100000	DERAILLEUR TOUR, M/10/26	88.78	683,345	53,519.11	7.0	44.0	7.8	P	A	A	A
6	1052-3001	0A FRAME ASSEMBLY	66.22	575,685	38,118.29	5.0	48.9	9.4	P	A	A	A
7	1400-2103	TUBULAR STEEL, 1"	2.25	14,561,300	32,762.93	4.3	53.2	10.9	P	A	A	A
8	1052-2001	74 FRAME ASSEMBLY	75.41	369,300	27,856.05	3.6	56.8	12.5	P	A	A	A
9	3000-0074	74 FRAME & CRANK ASSY	20.29	1,250,520	25,500.34	3.3	60.2	14.1	P	A	A	A
10	3000-0100	15 FRAME & CRANK ASSY	18.95	1,259,250	23,857.75	3.1	63.3	15.6	P	A	A	A
11	1040-0004	15 LOOSE PARTS KIT	14.69	1,550,550	22,091.98	3.0	66.3	17.2	P	A	A	A
12	3970-1011	WHEEL 26"	7.66	2,003,140	22,093.58	2.9	69.1	18.8	P	A	A	A
13	3961-1010	TIRE, 26"	3.15	5,050,510	15,909.11	2.1	71.2	20.3	P	B	A	A
14	5000-0150	15 WELDED FRAME	11.69	1,316,920	15,392.16	2.0	73.2	21.9	P	B	H	H
15	1420-2100	TUBULAR STEEL, 3/4"	1.68	8,227,470	13,822.15	1.8	75.0	23.4	P	B	H	H
16	3974-1010	SPOKE ASSEMBLY	.08	157,632,000	13,200.50	1.7	76.8	25.0	P	B	H	H
17	5000-0160	74 WELDED FRAME	11.69	1,119,460	13,004.25	1.7	78.5	26.6	P	B	H	H
18	3972-1000	RIM, SUPER-TUF	1.13	10,574,400	11,949.07	1.6	80.0	28.1	P	B	H	H
19	7600-50	CHAIN	.08	141,732,000	11,330.56	1.5	81.5	29.7	P	B	H	H
20	1040-0107	74 LOOSE PARTS KIT	15.50	646,700	10,024.01	1.3	82.8	31.3	P	B	H	H
21	3000-0050	HEADSET/FORK ASSEMBLY	3.03	2,526,900	9,670.83	1.3	84.1	32.0	P	B	H	H

ABC ANALYSIS

Stockroom Activity

This shows the daily activity of each part. These daily activity reports are very useful for answering questions and identifying the source of errors, an important element of cycle counting procedures.

Backorder

You can request a backorder report by orders or by parts.

REV A1 MATERIALS CONTROL AND PRODUCT DEFINITION
SIMULATED PICKING LIST Date: 02/12/79

ASSEMBLY: 3960-1000 ORDER QUANTITY: 1

STRM	PART NUMBER/DESCRIPTION	UM	QTY REQ	QTY ON	QTY SHORT
S2	3961-1010 TIRE, 26"	EA	1.000	500.000	0.000
S2	3961-1041 TIRE TUBE, 26"	EA	1.000	1110.000	0.000
S2	3970-1011 WHEEL 26"	EA	1.000	0.000	1.000
S3	3965-1050 SPOKE REFLECTOR	EA	2.000	0.000	2.000

Select the appropriate key

PRINT SIM	CHANGE					PICKING	CANCEL
PICK LIST	ORDER QTY					LIST	PROCESS



PRODUCT COSTING

Introduction

The Accounting section of MFG/250 can help you:

1. Quickly and easily cost your products, level by level, using bills of material common to all departments.
2. Analyze the consequences of future costs such as materials and other on a »what if« basis.
3. Analyze inventory investments by category.
4. Track material transactions in and out of stock.

To help you analyze your inventory investment, the system stores costs related to labor, material and overhead or other expenses. You can combine this information by account and product line, to compute accurate costs for pricing and to post transactions reflecting material flow to your General Ledger.

REV A1 MATERIALS CONTROL AND PRODUCT DEFINITION ACCOUNTING SELECTION MENU Date: 02/12/79

INPUT FUNCTIONS

- 1 Edit accounting item master data

OUTPUT FUNCTIONS

- 2 Indented Product Cost Report
- 3 Summarized Product Cost Report
- 4 Accounting Strm Activity Report
- 5 Accounting Item Data Report
- 6 Review Item Master Entry

PROCESS FUNCTIONS

- 7 Update product labor/material/other fields

Enter the number of area of interest.
-

ENGRG	STOCKROOM	ACCOUNT*G	PRODUCT*H	MATERIALS	UTILITY FUNCTIONS	NEW DATE/PASSWD/ID	DEPARTMNT MENU

THE HP 250

The HP 250 small business system combines power with ease of use. In addition to human engineering to which much attention has been given – the HP 250 has many system development tools, including Data Base Management, FORMS, QUERY, REPORT WRITER and HP Business Basic.

- The well-designed keyboard consists of a standard typewriter keyboard as well as 10-key numeric entry pad, which is of particular advantage when entering, for example, large volumes of numeric data.
- The adjustable display provides a means of verifying information as it if necessary.

- A modern microprocessor-controlled printer is integrated into the system for the generation of all reports.

- Magnetic disc storage units provide quick and easy storage and retrieval of important information.

- With the addition of five remote terminals, the system can be extended to incorporate six fully-operational workstations.

- Softkeys, along the bottom of the screen combine with video labels to guide you through operations. You select which operation you want by pressing the relevant softkey.



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