

Establishing new standards in the field of Ductwork estimating.

Allows the User to prepare tender Estimates for Ductwork projects. It can also enable users to accurately Cost manufactured Ductwork and thus Identify and Quantify changes between the Tender drawings and the Approved Manufacturing Drawings.

The Take-Off Screen (shown below) enables the User to Quickly select and specify either Manufactured or Bought Out Items with the minimum number of key Strokes (all Keyboard or Keyboard + Mouse).

The screenshot displays the PM2000 software interface for a 'Quick Takeoff' session. The window title is 'PM2000 (Hyatt - JAK-100) - [Quick Takeoff - Taper]'. The interface includes a menu bar (File, Utilities, Takeoff, View, Window, Help), a file explorer on the left showing 'Item Folders' (Bought Out, Oval, Rectangular, Round, Round B'Out), and a central 3D model of a tapered duct section. To the right of the model are input fields for 'Item No' (T3), 'Qty' (1), 'Width In' (300.00), 'Depth In' (300.00), 'Length' (500.00), 'Section' (1st Floor), and 'Specification' (D'W144-LV). Below the model is a 'Section' dropdown menu set to '1st Floor'. At the bottom, there is a table of items with columns: 'Itm No', 'Description', 'Duct Size', 'Qty/Len', 'Mat'l', 'Gauge', 'Mat'l Cost', 'F-Rate', 'E-Rate', and 'Rate (Nett)'. The table lists various ductwork items and their associated costs and rates.

Itm No	Description	Duct Size	Qty/Len	Mat'l	Gauge	Mat'l Cost	F-Rate	E-Rate	Rate (Nett)
1F-1	Straight (Coil)	600x400	15.00(m)	GALV	0.80	15.35	4.81	8.35	28.51
1F-2	90 Sq. Bend	600x400	1	GALV	0.80	16.07	19.50	17.55	53.12
1F-3	Taper	600x400	1	GALV	0.80	8.49	12.56	14.41	35.45
1F-4	Straight (Coil)	400x300	8.50(m)	GALV	0.60	10.19	4.31	6.41	20.91
1F-5	Fire Damper...	400x300	1			54.80	0.00	8.25	63.05
1F-6	Grille Box	300x300	1	GALV	0.60	1.36	2.40	1.87	5.63
S1	Spiral Pipe	300	12.50(m)	GALV	0.80	7.74	0.00	8.00	15.74
S2	Elbow-90	300	1	GALV	0.80	42.00	0.00	7.37	49.37
T2	Straight (Coil)	300x300	8.50(m)	GALV	0.60	8.97	4.27	5.47	18.71

Estimates can be entered by Sections or Zones to facilitate analysis and reporting.

The Take-off Frame can be extensively Customised to suit a User's own way of working.

The price of any Individual item can be scrutinised using a 'Cost Breakdown' screen.

A comprehensive 'Estimate Summary' screen allows detailed analysis of the final quotation with facilities to manipulate item rates, overheads, profit margins, set a 'target' price, disperse 'hidden' cost objects, etc.

Standard Features include:

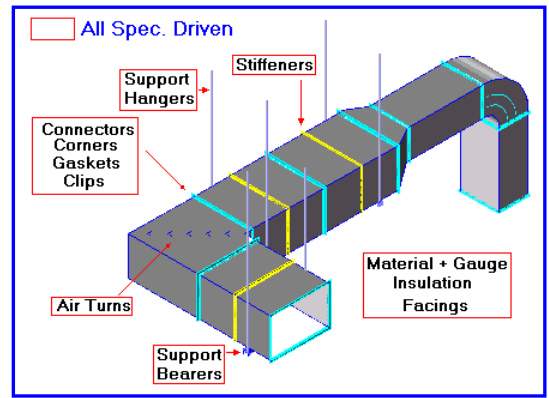
- ◆ Native 32-Bit Windows application written specifically for that family of operating systems.
- ◆ 'Quick Takeoff' for efficient, rapid entry of quotations to Full Value or Extra-Over measurements.
- ◆ Digitiser interface for direct drawing takeoff.
- ◆ Supplied with industry standard fabrication and installation times.
- ◆ Bought Out Items: No Limit to the number of Suppliers and Price Lists that can be defined.
- ◆ Rate Manipulation: Distribute Fixed Costs, Change and Lock Specific Values, Change Totals.
- ◆ 'Adds & Omits' can be appended to the Estimate. History of changes can be recorded, costed and printed.
- ◆ Surveying: Quantify Items that have been delivered to Site and Installed. Cost and Print these Lists.
- ◆ Standard Reports: BOQ's, Schedule-of-Rates, Material Used, Bought Out Lists, etc. included.
- ◆ Powerful Report Generator to produce Custom Reports.
- ◆ Utilises M.A.P.'s 'Family' Database which is shared with our CAM-Duct and CAD-Duct programs
- ◆ Ability to automatically cost drawings produced in CAD-Duct.
- ◆ Automatically Compare Manufacturing Drawings with the original Bill of Quantities.

The central Database contains Costing data on all the Attributes that make up a Manufactured Duct Fitting i.e. Connectors, Stiffeners, Splitters, Turning Vanes, etc.

These Attributes are automatically assigned from the active Specification/Pressure Class to provide very accurate prices.

Fabrication and Installation Look-Up Tables, linked to Labour Rates, provide Size dependent Fitting Costs.

Unlimited quantities of Bought-Out Items can be defined & linked to Supplier Price Lists with discount & profit applied.



Listed below are brief details on some, but by no means all, of the key program features:

Common Database + Pattern Libraries

The database is the heart of the estimating system as it contains all the 'raw' data used for calculating prices. By using the same patterns as CAM-Duct that generate 'real' developments our calculations are that much more accurate. All of our programs share a common database & patterns enabling the same data to be shared for CAD, CAM and Estimating.

Very Fast Entry

Speed and reasonable accuracy is often a major requirement for Estimating; ie. Only enter dimensions for one end of a reducer. With EST-Duct's flexible 'Quick Takeoff' the user chooses how fast and accurate they want or have to be.

Specification Driven Take-Off

Specifications automatically determine the selection of Material, Gauge, Connectors, Seams, Splitters, Airturns, Stiffeners, Support brackets, etc. which in turn affects the cost. There is no limit to the number of Specs, (Standards, Pressure Classes) that can be entered. Specs can be assigned to a Material and Fitting Library (Rect, Round or Oval).

Bought Out Items

A large proportion of any estimate is 'bought out' items: - Round Duct, Dampers, Grilles, Flexible Duct, Etc. With EST-Duct there is No Limit to the number of Suppliers, Products and Price Lists that can be defined.

Fabrication & Installation Times

Can be simple 'look up tables based on girth or a more complex table calculating total time, therefore cost, for different manufacturing or installation processes at differing labour rates. All items can be costed as Free Issue or Supply Only.

Estimate Summary Screen

Provides detailed On-Screen analysis of the Estimate before final presentation. Use the Summary screen to make specific price manipulations, Distribute Fixed Costs, change overheads & Profit Margins before producing the Schedule of rates.

Surveying / Valuation for direct Interfacing with CAD and CAM.

Cost any Job, at any time, using the same Database or the Schedule of Rates produced by the original Estimate. This allows the 'as drawn' or manufactured duct to be priced and checked with quantity surveyors for payment.

This should be an important objective for managers. Although not an exact sciences, it allows you to quickly identify discrepancies between what you have Estimated and what you will manufacture.

Variation Tracking.

Adds * Omits (change requests) can be appended to the Estimate using the same Schedule and price Lists. History of changes can be recorded and printed as an audit-trail.

Direct CAD Drawing Estimating.

No need to produce a plot and create a manual or digitiser takeoff – generate the Estimate directly off the CAD drawing.



**Micro Application Packages Ltd.
2 Metropolitan Business Park
Preston New Road
Blackpool, Lancashire
United Kingdom, FY3 9LT**

Tel : +44 (0) 1253 792112

Fax : +44 (0) 1253 792169

Web : www.map-software.com

Email : sales@map-software.com