



## **THE PROBLEM:**

The solution: **THE SOLUTION:**

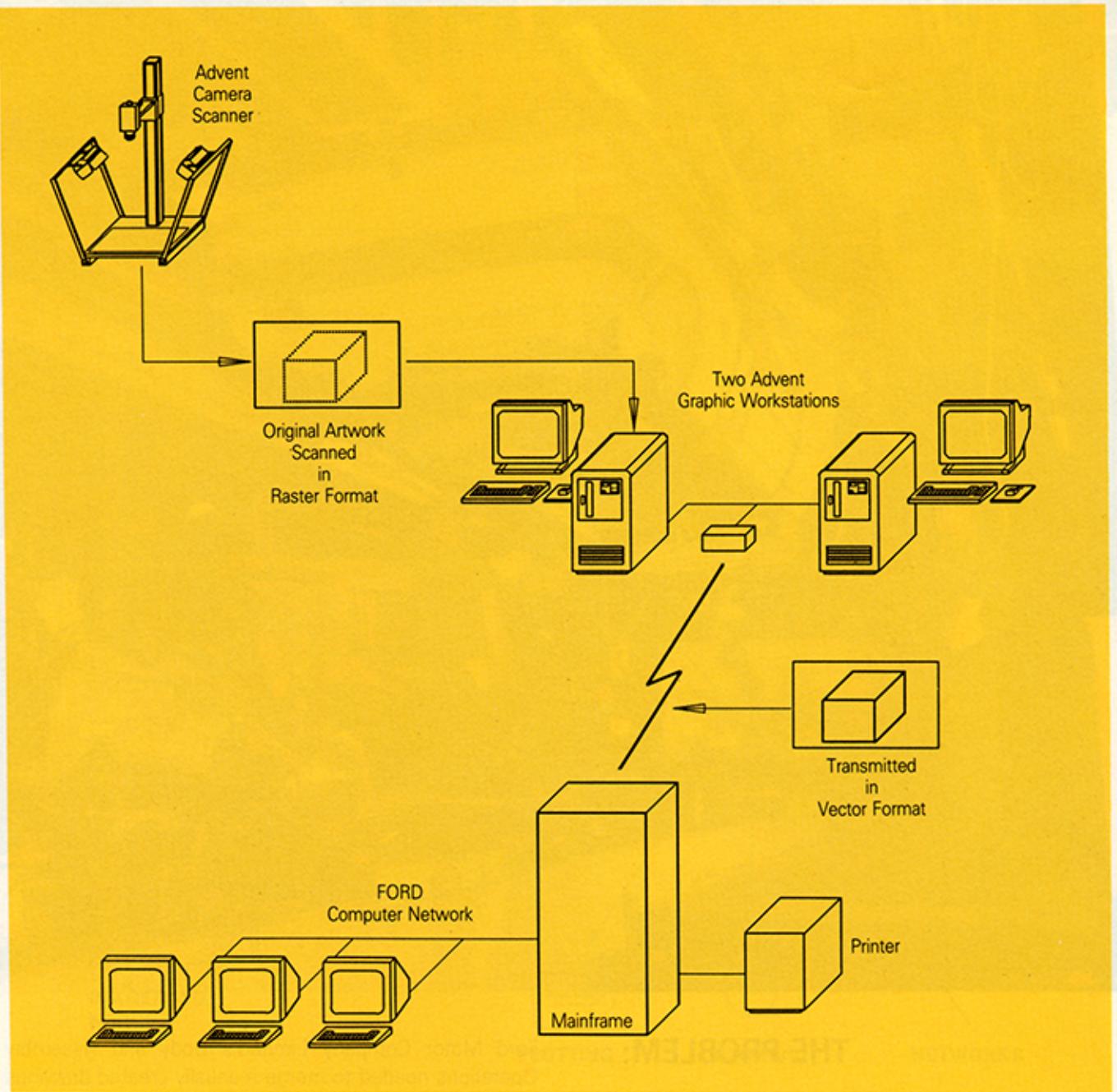
Ford Motor Company Limited's Body and Assembly Operations needed to merge manually created drawings with computer generated assembly instructions in a cost effective way.

#### **THE SOLUTION:**



ADVENT

Systems  
Limited



"The need to capture and modify process engineering drawings and integrate them within our European CAD network led us naturally to Advent Systems."

.... Ford Motor Co Ltd

Ford's Body and Assembly Operations centre at Aveye is responsible for the production of assembly process sheets for all vehicles manufactured by the company's European plants.

Process sheets are the documents which describe how parts are assembled in a vehicle in words and illustrations. They also include a list of additional parts and the tools required for the job together with an estimated time for completion.

Existing systems at Ford were already capable of producing the text for process sheets in four languages and a variety of formats. The problem was to capture and merge graphics with the established text systems. This led to experienced Process Engineering Illustrators having to draw by hand up to 6,000 of the required parts and assemblies.

The drawings were pasted on to master process sheets before being printed and sent to the production plants.



As part of Ford's traditional drive for greater efficiency and better productivity, Process Engineering Manager Alec Adams was given the task of finding a solution.

Alec Adams established his five main criteria as being: Compatibility with Existing Systems, Ease of Use, Speed of Image Capture, Quality of Image Produced and Price Performance.

"From the outset it was clear that Advent had addressed problems such as ours before. The fuzzy blueprints, blurred photographs and actual parts which we gave them were all reproduced with excellent clarity in a few minutes and then enhanced, manipulated and even redrawn in an impressive display of image capture and manipulation.

The Advent system provided everything we required and has also given us many features which were not available from other suppliers. It has provided the flexibility to enable us to merge Advent's prodigious imaging capabilities with our own complex document processing systems and extensive databases."

### **The company behind the system**

Ford Motor Company Limited needed a system that met its specifications and a supplier with which it could establish a long and productive relationship.

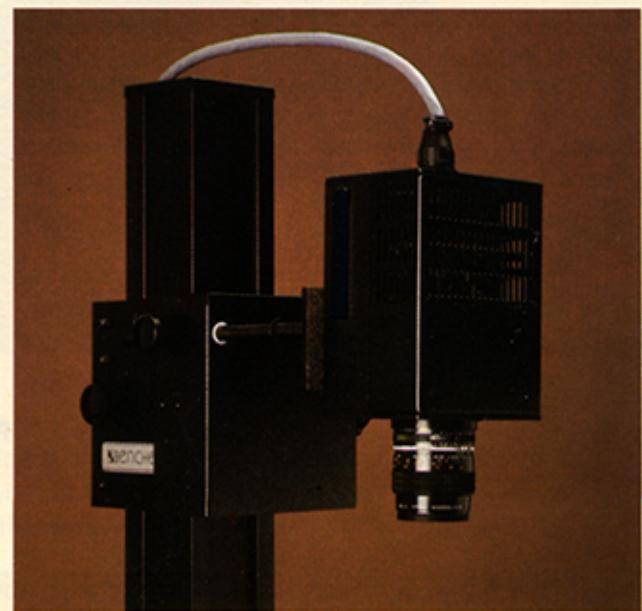
In Advent, Ford found a team of people uniquely qualified in the area of advanced scanning technology – a growing organisation eager to understand the business needs of its clients, and to develop turnkey solutions to satisfy those needs.

The Advent Imager system combines the graphics power and flexibility of a high performance workstation with the ability to scan and input two dimensional documents of any complexity or three dimensional objects without requiring any specialist skills from the operator.

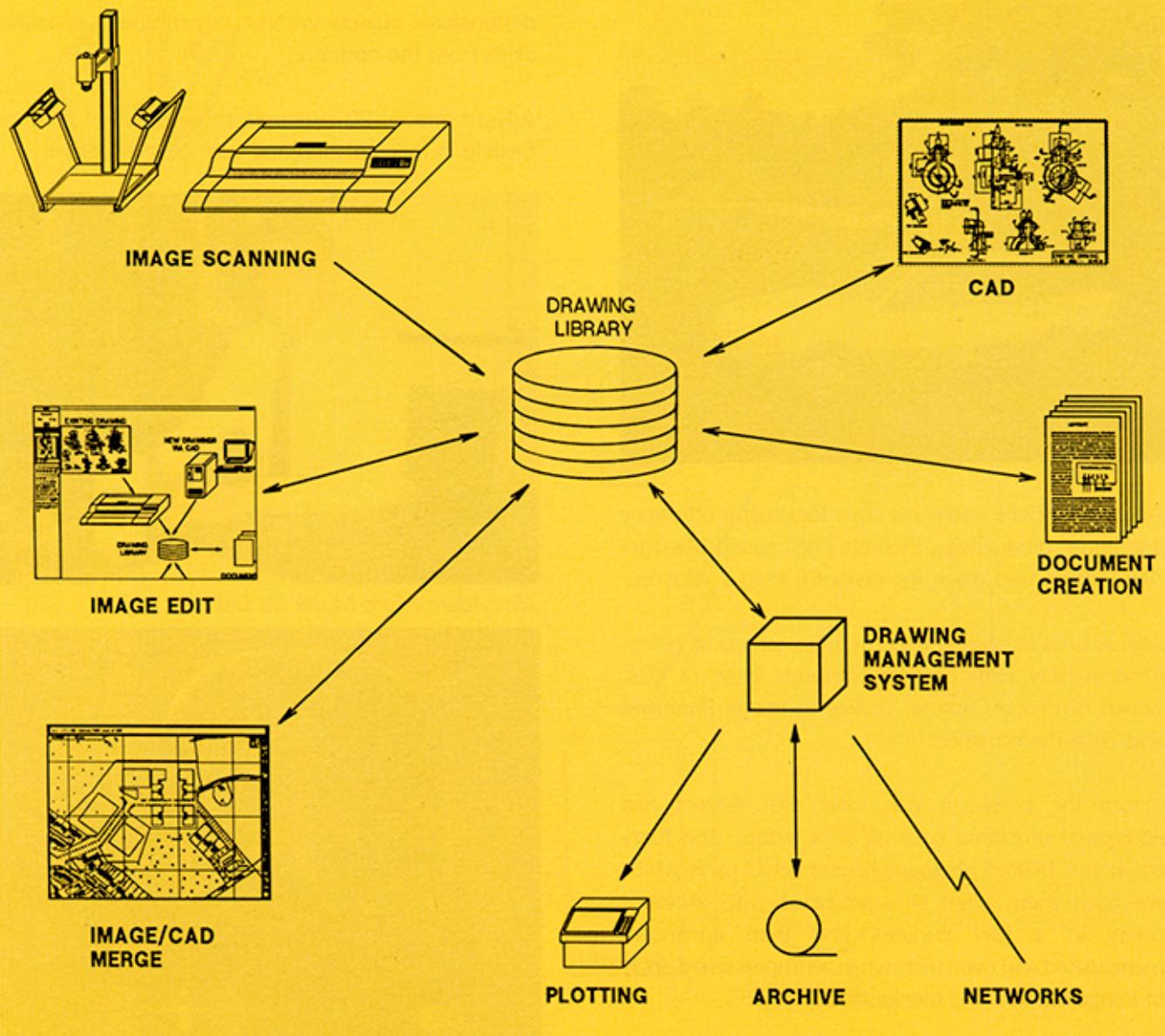
Advent Imager 20 is simple to use, fast in capture, flexible in manipulation and very cost effective.



Alex Adams Ford Motor Co Ltd



## THE ADVENT SOLUTION



Note: This is one in a series of articles describing how industry is using Advent Systems to improve engineering productivity.

If you would like more information, or want to learn how Advent Systems can be used for your particular application, contact Advent today.



**ADVENT**

Systems  
Limited

Advent Systems Limited  
12 The Business Centre  
Molly Millar's Lane  
Wokingham  
Berks RG11 2QZ  
Tel (0734) 784211