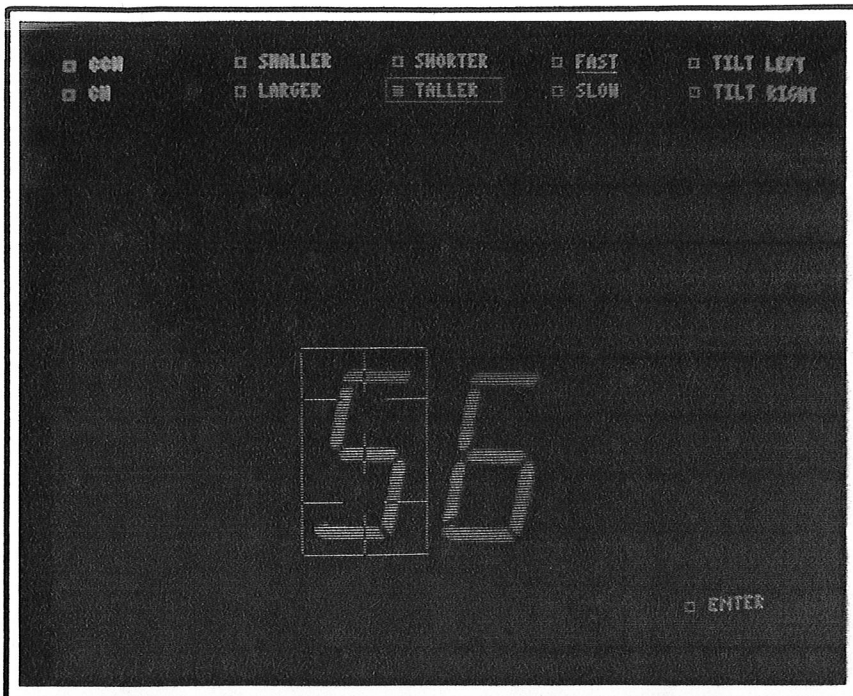
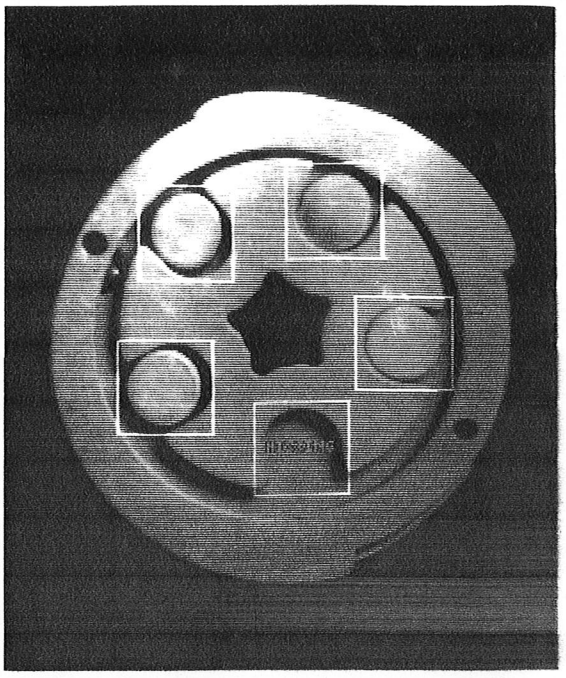
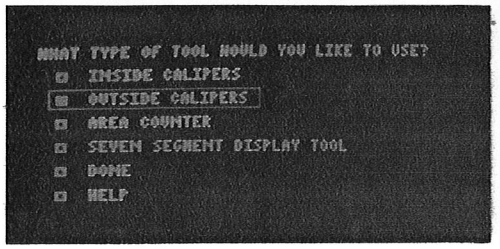
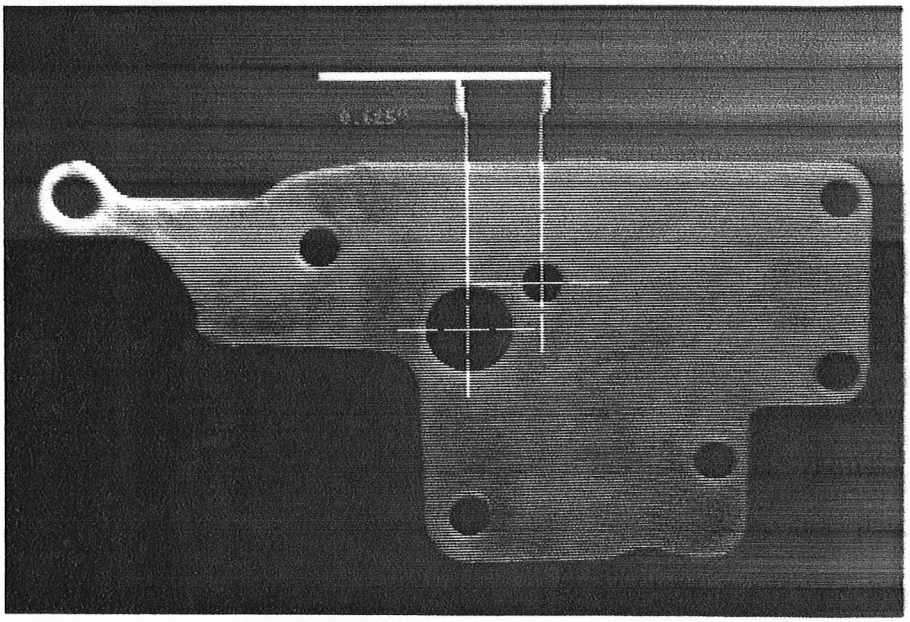
Ktran announces the
vision inspection system
that factory management
has been waiting for.

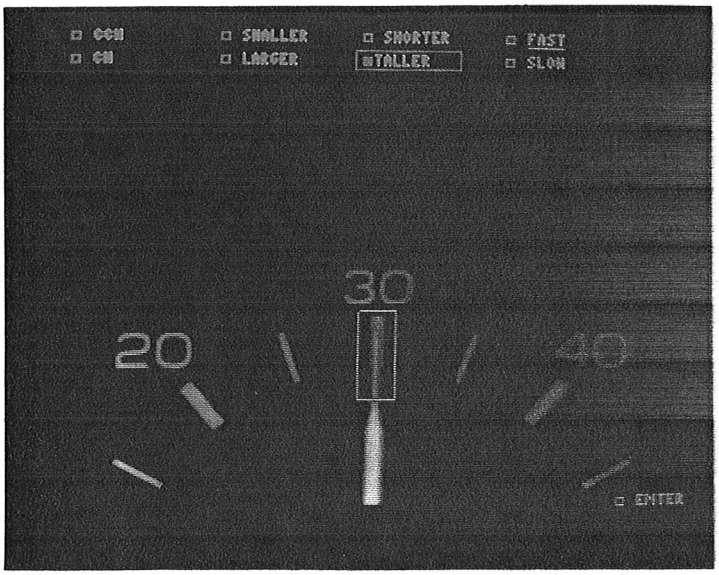


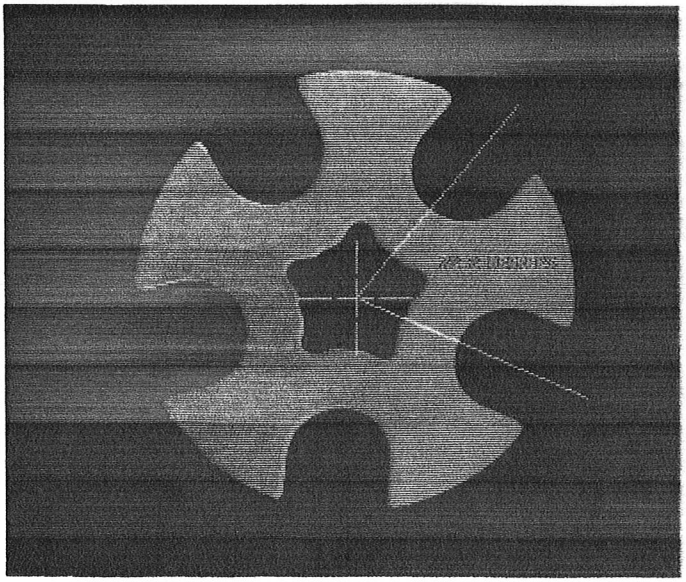






Menus like this displayed on the screen of the Programmer offer a choice of procedures and tools to use in inspecting for correct 7-segment readouts, for missing parts, for acceptable locations and dimensions of product features, for required indicator needle positioning, and for many other types of good part specifications.





The Itran 8000 ...breakthrough vision inspection technology in an easy-to-use, built-to-survive factory system.

The Itran 8000 is the most powerful vision inspection system on the market. It is also the most user-friendly and the most rugged in design and construction.

It combines advanced optical, microprocessor and display technology with the industry's most sophisticated and comprehensive software to achieve performance levels well above currently accepted standards.

It automates many of the set-up procedures, and provides the operator with color-coded, plain language instructions and with graphic representations of familiar measurement devices.

It utilizes leading-edge, solid state electronics in a compact, portable programming unit and a powerful, reliable processing unit, both engineered for long dependable service in the factory environment.

On Line Performance

The Itran system is built by people with many years of plant floor experience. As a result, it does what needs to be done in the real world of production.

For example, the Itran 8000 can:

- learn the critical measurements and the essential features of a virtually unlimited number and variety of parts;
- recognize those parts and check their parameters at speeds that make 100% parts inspection not only possible but completely practical as well;
- apply programmed-in tolerance factors to individual measurements to achieve 100% accuracy in good part/bad part decisionmaking.

Equally important, a first-time user with no experience in vision inspection and no familiarity with computers can teach the Itran 8000 everything it should remember about any part – all in a matter of minutes.

Familiar Ground

The superiority of the Itran system shows on the screen of the Programmer.

All messages are in plain English using normal inspection terminology. There is no requirement to learn a special programming language or a new vocabulary.

All graphics represent conventional measuring and dimensioning devices – jigs, gages, calipers, angle finders, center marks and construction lines. The "tools" used to determine features and values with the Itran 8000 are the everyday tools of inspection and quality control.

All alphanumerics are in color, making them clearly visible against the gray-tone image of the product being programmed. In addition, the colors are differentiated by function, so it is easy to identify each phase of the programming procedure and to establish visual warning signals.

These unique advantages of the Itran 8000 facilitate the transition from manual inspection to fully automated vision inspection.

Step-by-Step Progression

A major benefit of the Itran system's software is its capability for leading the user through the programming process with a series of "menus" and operator prompts.

The user is provided with a checklist of options and a variety of sequentially arranged statements which help avoid operator errors when a part is being programmed into the system.

Menus present the user with lists of choices on the procedures to be performed or the tool to be used.

Operating prompts guide the user through each procedure by asking or indicating what should be done next. When the selection is made, the system automatically goes into the proper mode.

The user is also provided with alphanumeric "keyboards" in graphic form which can be employed to identify parts being added to the parts directory and to enter standard measurements and acceptable tolerance factors.

Touch Control

With the Itran 8000, there are no switches, keys or push-buttons to manipulate. During programming, all selections are made, all operations are initiated, and all information is entered with a problem-free light pen.

To make something happen, the operator needs only to touch the tip of the light pen to the surface of the Programmer screen at the indicated location.

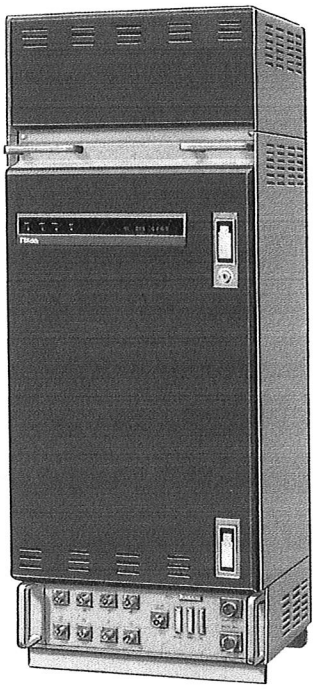
For menu selections and operator prompts, action is initiated by touching the pen to an illuminated "button" adjacent to the listing. For alphanumeric entries, the operator touches the pen to the individual letters and digits on the displayed keyboard.

In making measurements, the light pen is used to select the appropriate jig, gage or other graphic device and to move it into position on the displayed product image.

Install Anywhere Processor

The Itran Processor, which fits into a standard NEMA enclosure, is built to deliver dependable service even under the most adverse conditions on the factory floor in temperatures ranging from 0° to 60° C.

It uses a Motorola 68000 microprocessor and a special purpose processor developed by Itran to achieve inspection rates as high as 10 parts/second.



More powerful than other vision inspection CPUs, the Itran Processor can accommodate as many as 8 cameras positioned as far as 200 feet away. The cameras can be installed on entirely separate production lines or multiplexed for close inspection of large parts.

The need for multiplexing is minimized by the system's capability for attaining resolution rates as high as 1000 x 1000. This allows the Itran 8000 to view with the same degree of accuracy an area 12 to 15 times larger than other systems.

An RS-232 port enables the Processor to transmit data to host computers and to connect with a number of useful peripheral devices, such as hard copy printers.

Go Anywhere Programmer

Thanks to its compact design, the Itran Programmer can be carried to any location in the plant where an Itran Processor has been installed. It can also be placed adjacent to the part being programmed, which facilitates arrangement of the part, the camera and the lights.

There is no protruding keyboard to restrict movement around the Programmer or to be protected from dirt and spills.

There is no problem recording data on magnetic media, like those experienced with environmentally sensitive floppy disks. The Itran Programmer uses tape cartridges mounted on a high reliability drive.

Also, there is no need to purchase a dedicated programmer for each processor. A single Itran Programmer will support any number of Itran Processors. It is a one-time investment.

Total Customer Support

The many advantages of the Itran 8000 make it the logical choice for the vast majority of production line operations. But the system itself is only part of the picture.

Itran customers have all the advantages inherent in dealing one-on-one with the company that actually designs and builds the system and writes the system software.

The Itran 8000 is supported by experienced in-house sales/service specialists, by a direct field sales force and by a dedicated field service organization. The people you deal with are Itran people, totally responsible to the company and totally responsive to customer needs.

To learn more about the Itran 8000 or to schedule a demonstration, call or write the Marketing Department at Itran's Manchester, N.H. headquarters.

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