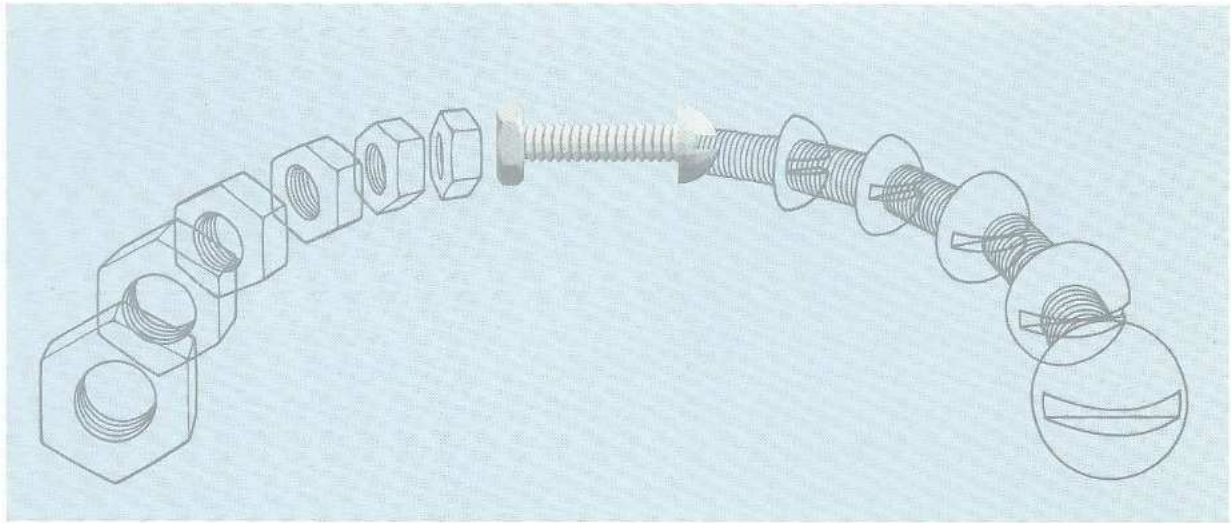
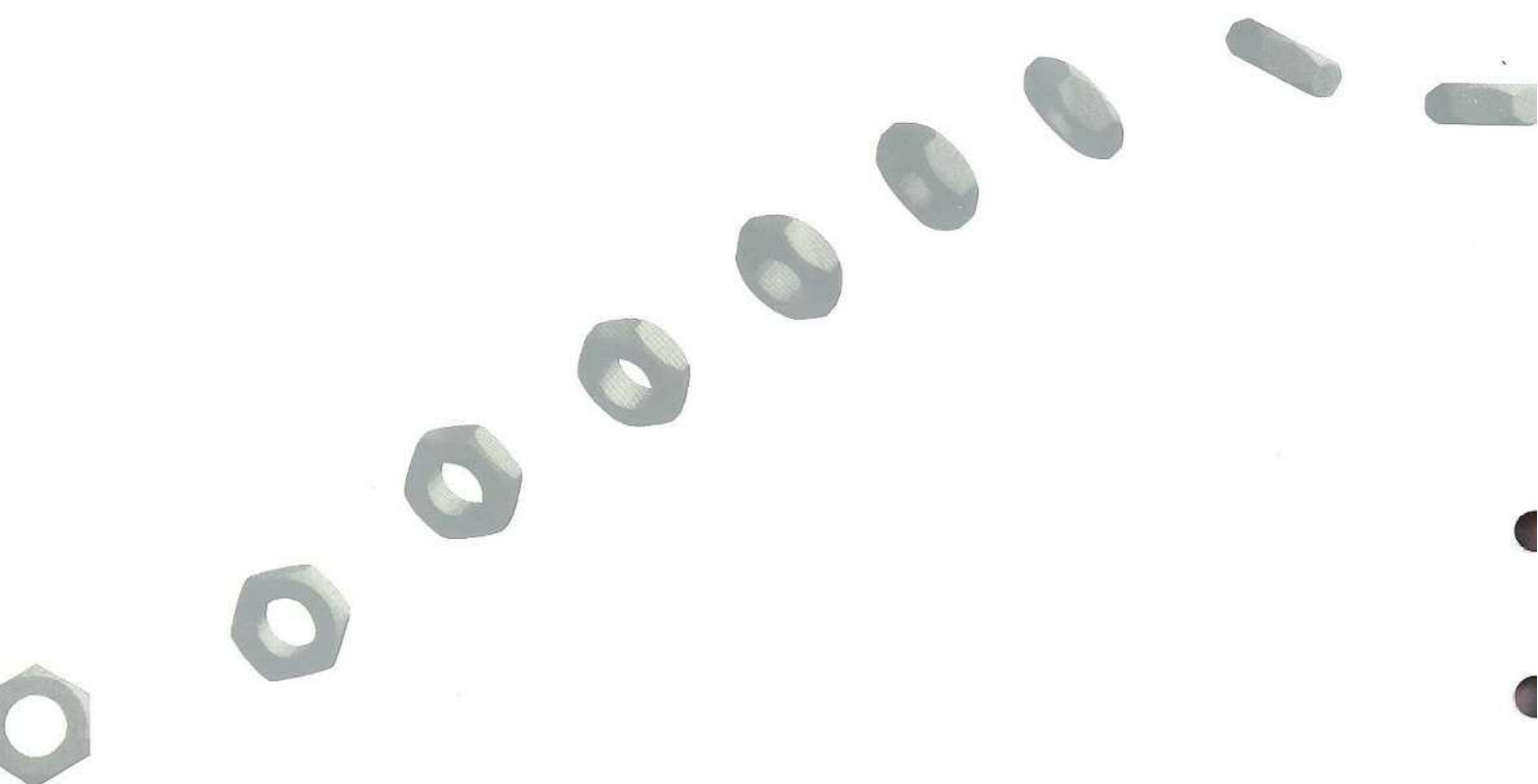


PRIME



PRIME MEDUSATM

Starts With The Basics
To Simplify The
Complex



P RIME MEDUSA. It offers everything you want in a CAD system. And more.

As pressures increase for higher quality products, faster design creation, and shorter production cycles, companies are turning to CAD for help. And the CAD system that more and more companies are turning to is PRIME MEDUSA.

Why PRIME MEDUSA? There are a number of reasons.

For one thing, PRIME MEDUSA is the CAD system that offers proven performance. It's currently being used in hundreds of installations to boost productivity in a wide range of mechanical design and drafting tasks.

Another reason companies choose PRIME MEDUSA is because it's easy to learn and use. It's based on standard drafting terms and techniques that are familiar to draftsmen and designers. This means, there's no need for designers to change the way they con-

ceptualize designs, so they can quickly master the use of the system.

But for most companies, and most designers, the biggest advantage PRIME MEDUSA offers is solid modeling.

PRIME MEDUSA lets users create parts and assemblies as three-dimensional solid models using powerful techniques that speed and simplify the design process.

Designers can quickly generate multiple views of an object, including orthographic, isometric and perspective views. Because the model is complete and unambiguous, it can be used to automate many functions throughout a project cycle. For example, PRIME MEDUSA provides sectioning, automatic hidden line removal and color shading capabilities for superior design visualization. Flaws in designs can be easily detected, and design concepts can be

clearly communicated to manufacturing, to customers, or to senior decision makers.

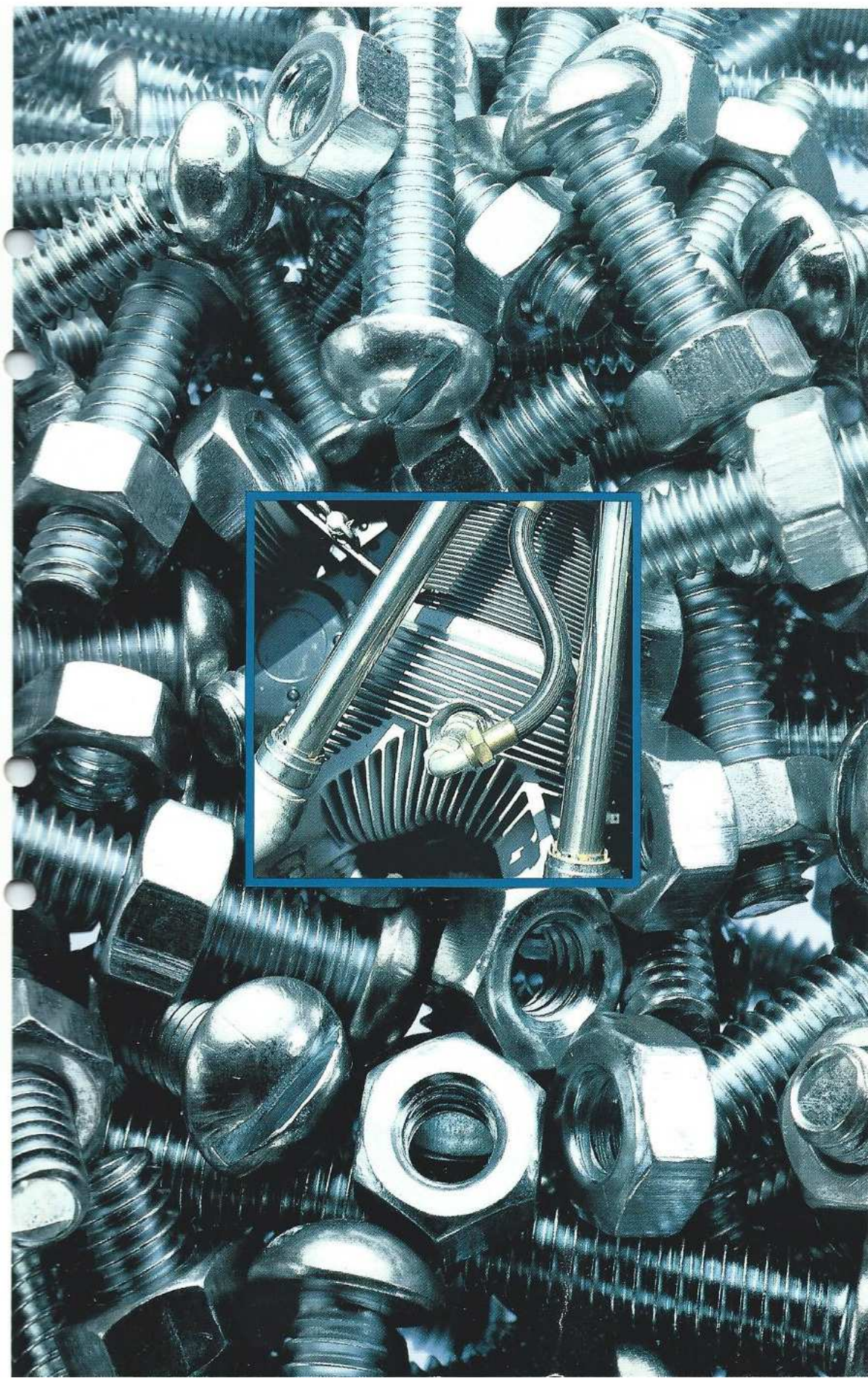
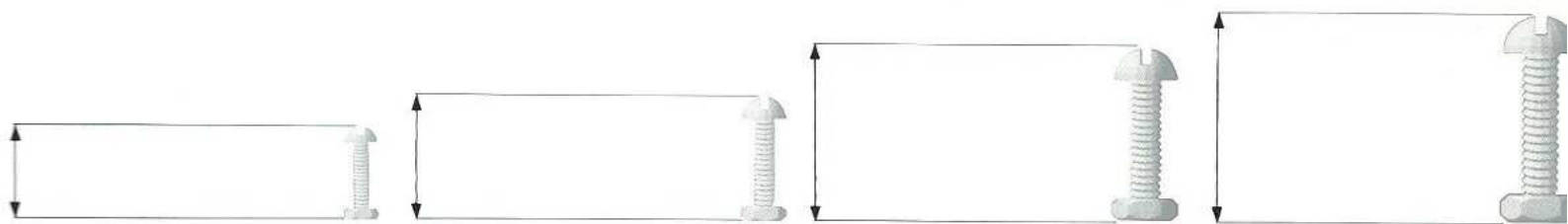
In addition, PRIME MEDUSA can be interfaced to programs for engineering analysis such as PDA/PATRAN-G,™ and can be used to create complete engineering documentation. The PRIME MEDUSA database can also be accessed by programs for MRP, process planning, numerical control and many more from an extensive library of software packages that run on Prime computers. With these capabilities, PRIME MEDUSA makes it possible to integrate your entire manufacturing operation.

There are still more reasons for choosing PRIME MEDUSA. For example, PRIME MEDUSA offers a variational geometry module. With this module, designers can automatically generate any number of standard parts that have the same shape but varying dimensions from a single drawing, simply by speci-

fying its dimensions. This module allows companies to dramatically improve design productivity in "family-of-parts" applications.

Finally, PRIME MEDUSA runs on a wide range of Prime 50 series computers and workstations. These upward- and downward-compatible systems allow you to get the most cost-effective system for today's needs and tomorrow's opportunities. They support a vast selection of industry-recognized software programs for virtually any application needed to help your operation. And they offer advanced networking and communications facilities that make it easy for all parts of the organization to access information quickly—a vital requirement for computer integrated manufacturing.

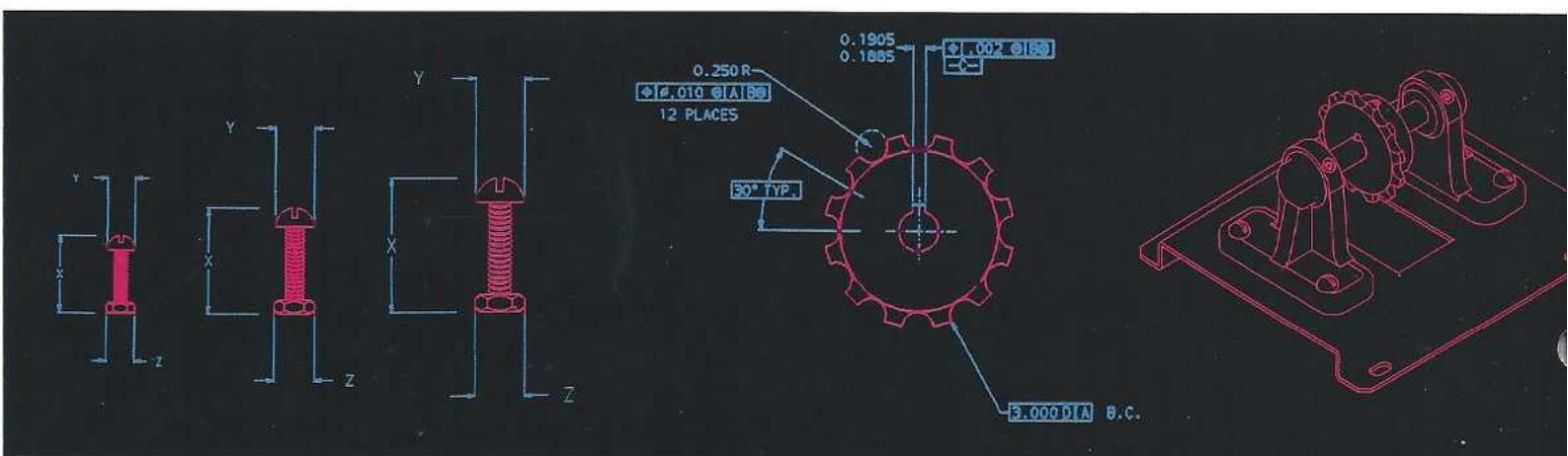
Small wonder, then, that more and more companies are using PRIME MEDUSA. It really does offer everything you want in a CAD system. And more.



Variational Geometry

Drawing and Dimensioning

Isometric View



P RIME MEDUSA. Powerful solid modeling with flexibility and growth potential.

The next generation in design: PRIME MEDUSA solid modeling.

To design with PRIME MEDUSA, the user generates 2-D profiles on a drawing format, just as he would using traditional methods. Then, depths and connection points are defined between the associated views to create the 3-D solid model.

PRIME MEDUSA provides a series of built-in model generators such as linear and rotational sweeps, that speed and simplify the creation of complex parts and assemblies. Boolean operations further simplify the design process by allowing users to perform union, intersection and subtraction operations on individual parts or

entire assemblies. Once the model is created, the system can automatically generate isometric, orthographic, auxiliary, perspective and section views, and make arbitrary section cuts with hidden lines and surfaces removed. This provides the ability to examine thoroughly the geometry of all parts and assemblies before they are put into production.

In addition, because the model is solid the system can accurately calculate mass properties, including weight, volume and moments of inertia. It can even calculate mass properties of an assembly, with just one command.

To improve design visualization and presentation quality, PRIME MEDUSA provides automatic color

shading of all solid models. It helps designers achieve greater realism in the representation of parts and assemblies. When used in customer presentations, these shaded pictures demonstrate your company's commitment to the latest technology.

PRIME MEDUSA isn't just a powerful CAD system. It's a flexible system as well.

PRIME MEDUSA's hierarchical database allows designers and draftsmen to store, retrieve, analyze and modify data easily. Our Reporter program, for instance, lets users extract and format textual, graphic and relational data directly from drawings. In this way,

bills of materials, where-used reports, etc., can quickly be generated in the company's preferred format.

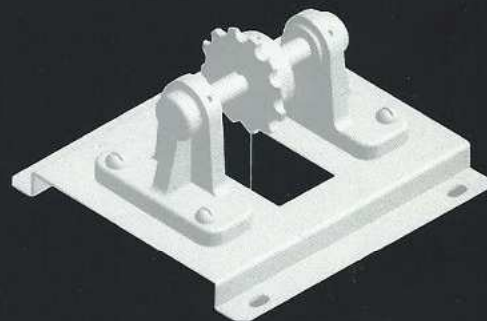
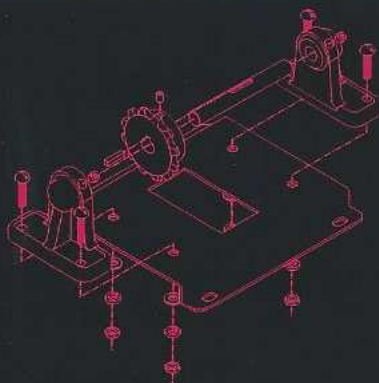
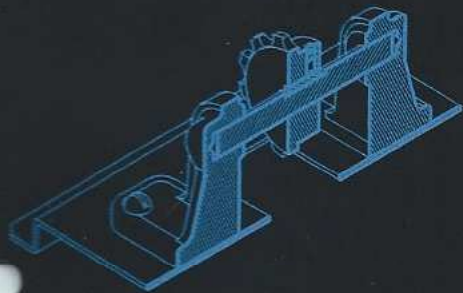
PRIME MEDUSA also offers Super Syntax, a graphics programming language that enables users to customize the system to their particular application. Data Access Routines permit programmers to modify the PRIME MEDUSA database using any of Prime's programming languages, and facilitates the creation of interfaces to internally developed software or third party programs.

With these tools and capabilities, you get complete flexibility to easily customize a PRIME MEDUSA system to match your specific needs

Sectioning

Exploded View

Shaded View



PRIME MEDUSA.

It can expand as your needs grow.

PRIME MEDUSA is composed of several modules that handle specific tasks like design, analysis, drafting, drawing administration and system interfacing. This lets you pick the level of sophistication that is appropriate for the application you have now, then add more capability later.

PRIME MEDUSA also runs on the complete line of Prime 50 Series systems using the PRIMOS® operating system. That's important because it means you can expand the size of your CAD installation at any time without sacrificing either your hardware or software investment. In addition, you can access Prime's powerful networking and communications

capabilities making it easy for any number of users to share information throughout a plant, or across the world.

Besides expanding the size of your operation, PRIME MEDUSA, running on a Prime multipurpose CPU, allows you to expand the scale. You can take advantage of interfaces to computer aided engineering and manufacturing systems. So, you can create one computer network for your entire CAD/CAE/CAM operation.

PRIME MEDUSA helps protect your software and hardware investment years from now, because every new release and enhancement will work directly with both your existing database and user-written application programs.

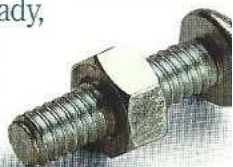
You won't ever have to spend time or money on expensive data conversions.

You would expect a solid modeling system like PRIME MEDUSA to offer powerful drafting capabilities. And it does.

The basic PRIME MEDUSA Design Drafting module is anything but basic. It offers a complete set of tools to help designers create and edit drawings and schematics quickly. These tools include powerful geometric construction and manipulation techniques; a symbol generation capability that makes it easy to store, retrieve and display symbols; automatic cross-hatching and pattern hatching to speed the drafting process; automatic dimensioning in your choice of ISO, ANSI,

DIN, and JIS formats; and, the ability to quickly generate a variety of engineering drawings, technical illustrations and reports.

The PRIME MEDUSA 2-D Design Drafting module serves as the basis for our 3-D Design Modeling package. So you can start with 2-drafting and move up to 3-D solid modeling whenever you're ready, without starting over.



Prim. We have everything it takes to put PRIME MEDUSA to work for you.

As a leader in the field of CAD/CAM, Prime is dedicated to providing state-of-the-art software packages like PRIME MEDUSA.

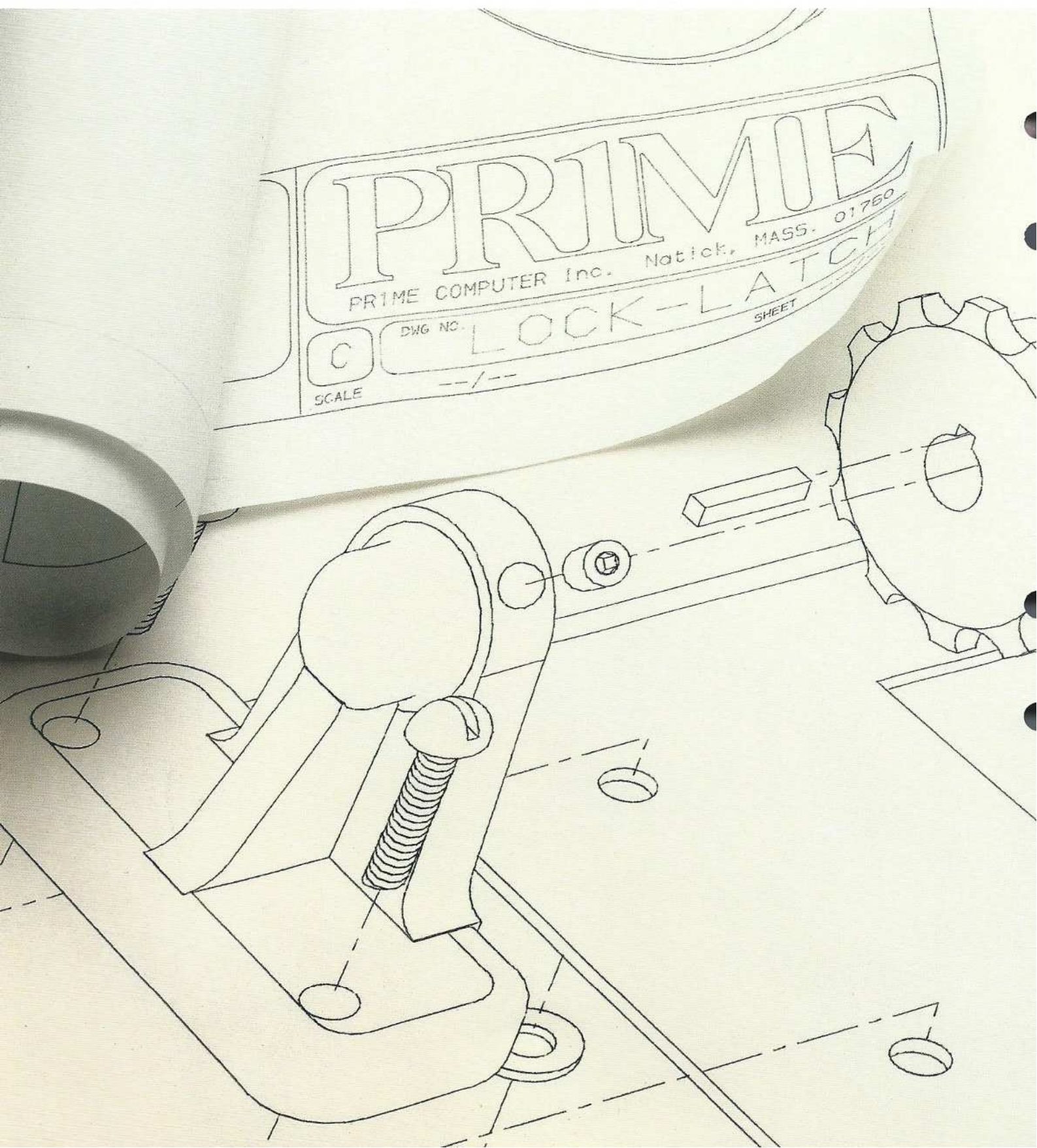
At the same time, we're dedicated to providing the advanced computer systems

needed to run them. Prime offers a full range of 32-bit systems, everything from high performance processors to low cost office systems. Every one of these systems runs on PRIMOS, a powerful, multi-user, multitask operating system that can support CAD/CAM and other applications at the same time.

Besides our powerful Prime 50 Series family of computers, you get your choice of intelligent and dedicated workstations. All our systems and workstations are fully compatible both up and down the line. That gives you the ability to choose the equipment that best fits your application today without having

to worry about tomorrow.

For example, you can start with our single user PW200 Series workstation, then, add more workstations and network them together for high speed data communications. Or you can choose one of our Prime multi-user systems and add more workstations as you need them. You can



even build a network using a variety of workstations and computers all reporting to a Prime host located around the corner, or anywhere in the world.

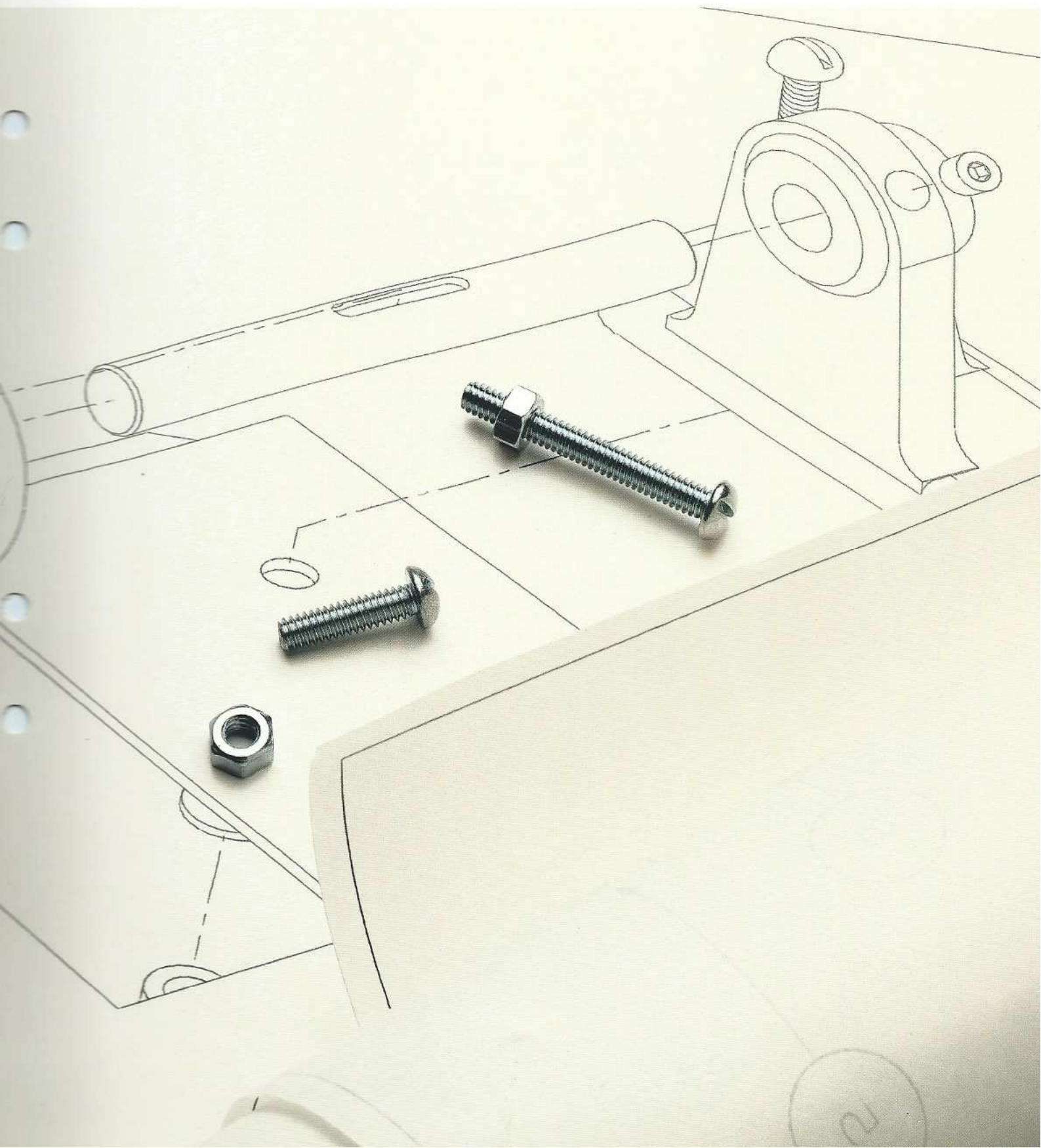
Prime also lets you tie Prime computers and other vendors' systems together using some of the most advanced communications

tools available. They include the PRIMENET™ X.25-based networking capability and a variety of Remote Job Entry (RJE) emulation packages.

Finally, Prime offers you a wide variety of special applications software for electronic design, architectural design, automotive engineer-

ing, process planning, numerical control and more. Both Prime software and hardware systems are backed by a complete service and support network. It includes customer training, hardware and software maintenance, documentation, and assistance from our worldwide CAD/CAM support organization.

So, if you're seriously considering a CAD system, consider the proven system that combines powerful solid modeling and state-of-the-art drafting with unmatched potential for growth and change. PRIME MEDUSA from Prime.



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