SPECIALTY VISES

Hydraulic Vises. Two types are available. One kind has a built-in hydraulic booster-reservoir to multiply the power of your hand as the handle is turned. The other type, used in production work, operates by means of an air-hydraulic system controlled with a foot pedal. The big advantage with such a vise is the amount of time saved in installing and removing the work and the extra tightness with which they hold the work.

Model Maker's Vise. (Also known as the Hand Vise). A light-duty vise with 2 inch jaws, hand held for use with small work. The jaws are tightened by means of a thumb nut. Model railroad fans and model airplane workers use these vises.

FIG. 40. The Model Maker's Vise (also known as the Hand Vise) is usually hand held as shown for holding small parts to be assembled or worked on. It can also be mounted on a larger vise when the use of both hands is required. Caution: Do not over-tighten the jaws of the vise.

Vacuum Base Vises. These vises even require less work to mount than the clamp-on vises. Their base consists of a rubber pad which is arched into a concave shape by means of a lever. When the vise is placed on a smooth surface and the lever is turned, a vacuum is created that firmly holds the vise in place. These vises of course are designed for comparatively light-duty work.

FIG. 41. The Vacuum Base Vise can only be fastened to a smooth non-porous surface. A handle, moved as indicated, creates a vacuum that secures the vise to the table's surface. Such vises are used for light-duty work only.

FIG. 42. This type of vise is designed so that it can be flipped to hold the work in a vertical position as shown in the small illustration. After flipping, an auxiliary handle is used to keep the jaws in their new position.
FIG. 43. The Hobby Vise, used by model makers and kindred folks, has a clamping arrangement in its base that allows it to be tilted in practically any direction and then firmly locked in place.

The air-hydraulic vise opens and closes by means of a foot control. It locks on to the work with a force of more than 2,000 pounds. Made with stationary and swivel bases in jaw widths up to six inches.