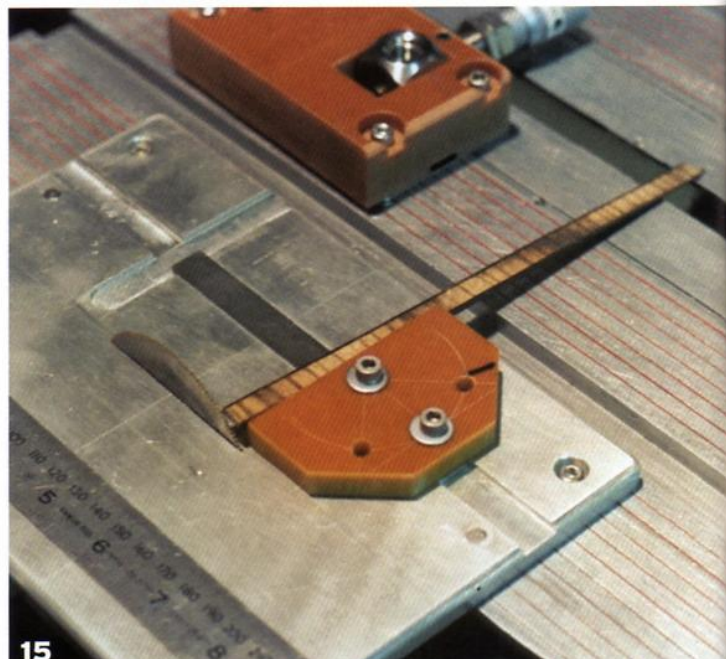
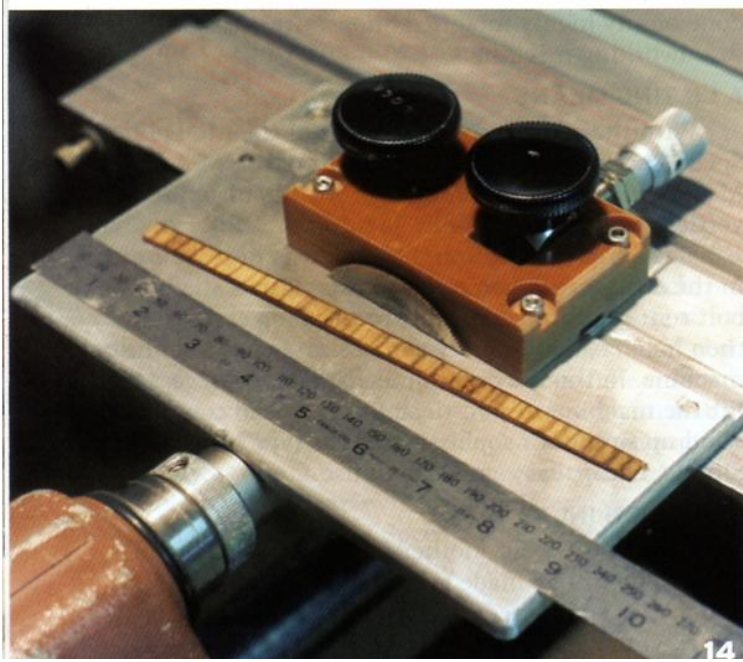




socket screws. The saw is a standard metal-cutting slitting saw of about 3" diameter and 0.032" thick (and yes, I did investigate various saw thicknesses!).

The fence is a scrap of linen *Bakelite* and so arranged that the micrometer (upper right) sets the blade-fence clearance, hence the cut inlay thickness. Once set, the black knobs lock it. Then I just slowly and gently run my laminated sandwich through the saw. Result: custom-made inlay strips for that special project.

I think this attachment would also be useful for other small sawing operations in model building; but I have not explored that adventure. Photo 15 shows the fence and micrometer removed (background). I made a miniature miter, which slides into the slot. It's easy to get square cut offs of the inlay strip with this miniature slitting saw table improvement. When the sawing and ripping are completed, remove two screws and the miniature saw table is ready for storage.

This useful accessory was easy and fun to make in my shop, and I hope in a later part to show how to make it.

THE VACUUM CLEANER

Photo 16 shows this addition. I'd initially used it as a wood dust collector from saw, jointer, and sander principally. This addition was completed in 1972 – well before the *Shop Vac* craze hit the marketing scene.

This is one of Sears' older Home-N-Shop Industrial models. It has a 10-gallon capacity and draws 6A at 115 VAC. I added the hooks and eyes at the top as well as the two wooden bases. I put casters on the bases. They're normally off the floor several inches when on the Shopsmith Mark V. A close look reveals the unit can be easily lifted out of the top hooks. Then the barrel can be emptied, the internal filter bag cleaned or replaced, or the whole Vac used in my vehicle as a clean-up tool. A steel snap ring around the top securely holds all to the barrel. The turbine blows the filtered air out the large hole, center foreground.

This was my first attempt at shop dust control, and it did collect most of the dust; but the fine dust was only stirred and shot out the outlet port. The system was unsatisfactory as a wood dust collector for my hypersensitive lungs. My next step thereafter was a central dust Vac system.

In later years, after completing the metal-cutting band saw improvement, the Vac in Photo 16 has been used exclusively for collecting metal particles from band sawing, and that's the mode it is shown in (Photo 1).

Several experts on industrial vacuum systems had advised not to admit metal particles to a central system chiefly used for wood dust. There have been, they said, reported cases of explosions triggered by a metal particle striking the side of the metal pipe and causing a brief spark – all one needs in a high dust concentration to set it off. So I avoided the explosion disaster possibility by using my earlier Shop Vac exclusively for metal particles.

Please note that it plugs into the lower convenience outlet in the pan on the left side of the headstock. This outlet is wired to be hot only when the main power switch is on. Thus turning on the main power also turns on the Vac, and I don't have to remember to manipulate two switches when I use the machine – another nice convenience feature resulting from this development.

Sharp observers will also notice in Photo 16 (upper left) a mahogany board across the ways and strapped to them via another smaller mahogany piece underneath. A hole is in the left end of the upper piece. My large, flexible, lighted, magnifying light base slips in the hole. The light and magnifier are helpful on the band saw and sometimes over on the table saw when precision cuts are being made. It can easily be moved laterally on the lower tubular ways by loosening the large knob.

Finally, the super-sharp observer will note (upper left of Photo 16) the approximately 3" piece of stainless