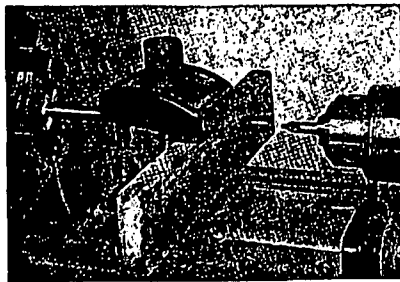


More PRACTICAL IDEAS



Lathe's Steady Rest Is Easy to Make

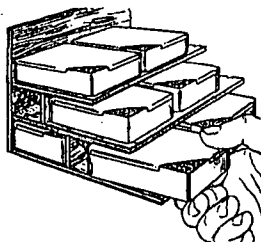
WHEN DOING LATHE WORK, setting up the 3-point steady rest for placing a center hole in end of a small-diameter shaft can take longer than actual center drilling.

I cut time by using a hardwood strip, clamped in tool post, photo. Drill holes of varying diameter for different jobs to be done.

Drill holes for work by placing drill chuck in headstock and feeding hardwood strip to rotating drill. If wood is

drilled with same side down on compound rest, any work mounted in one of the holes is right height at center. After truing up a shaft in chuck, place wood over hole it fits into, and clamp down.

This "steady rest" can be mounted in place in a few seconds. Having work run true in chuck is not too important as steady rest bears on works outside. That insures hole being in exact center. CT Bowen London, England

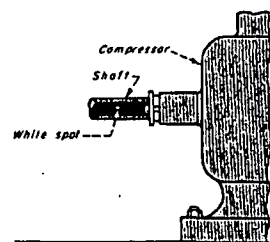


Small-Parts Container

Here's a small-parts container rack I made from small Edgeworth tobacco tins. As sketch shows, you get a quick view of contents at all times. Just cut each cover diagonally across corner as shown. Round sharp edges to prevent cutting fingers.

Take box out of rack and shake a few pieces into your hand, still retaining cover effect against spillage. Also, boxes can be stacked without a rack when taken to job at bench.

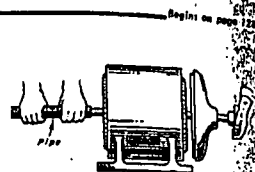
CH WILLEY Penacook, N. H.



Dot Shows Speed

OUR AMMONIA COMPRESSOR for freezing ice is driven by a wound-rotor slipring motor. Speed is regulated with a rheostat. But compressor speed must be adjusted at times to suit ammonia-suction-pressure variations, caused by degree of freezing ice. We painted a white dot on exposed surface of compressor drive shaft, sketch. This helps know compressor's speed by looking at it. Slower speed of shaft is easier to judge than much faster rim speed of flywheel.

T TRAIL Catonsville, Md.



Pipe Prevents Damage

RAW INTO IT again the other day. Squirrel-cage motor windings, 100 hp, 440 v, showed zero resistance, windings to ground. On opening her up, we saw motor had been overhauled recently. It was very clean, with new varnish still gleaming.

Close look at core at laminations edge near motor's bottom showed some had been curled over. (We know we didn't do it because the new insulating varnish had been put on afterward.) Tests later proved these laminations had curled over enough to puncture insulation and cause dead ground. This is usual example of saving expensive shut-downs and repairs with a little care in handling rotor.

Here's the way I handle these rotors. After removing one end, I free other ready for removal. Place pipe over the shaft, sketch. This allows one man on each end of shaft and rotor to guide stator through safely.

Keep several lengths of various-size pipe handy if you have several motors. Paint bright stripes on pipe so they won't get thrown in scrap-pipe pile. These pipes prevent damage, and save fingers, too, besides saving windings. E ECKERT New York, N. Y.

Metalized Cooling-Tower Doors Don't Corrode

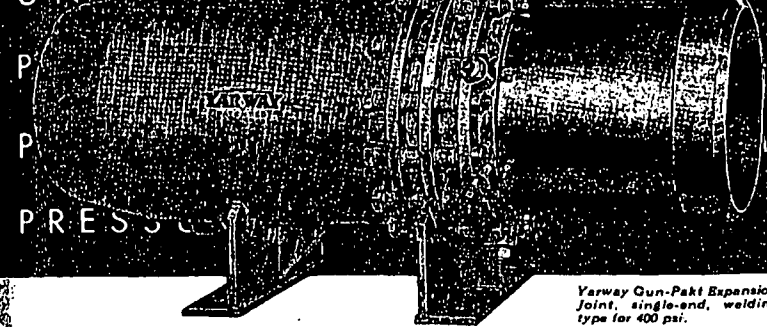
OUR LARGE, FORCED-DRAFT spray-tower was built in 1938. Makeup water is very high in sodium chloride, especially after three or four concentrations. We tried all kinds of paint, but none lasted over 40 days. In 1945 we replaced steel doors at \$57.50 each.

We sandblasted new doors, then sprayed on lead 0.010 in. thick. The four doors have shown no corrosion since that time.

Cost of metalizing both sides of these doors was only \$27.50 per door, or 15¢ per square foot. While sandblasting and metalizing, be sure to protect operators against dust, lead spray and fumes.

Of course cost of metalizing equipment must be added to this, but you can write that off by doing other jobs with it. And other jobs do come up. I. HANSEN Lawton, Okla.

GUN-PACKED UNDER FULL
STEAM PRESSURE • GUN-
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Yarway Gun-Pakt Expansion Joint, single-end, welding type for 400 psi.

BEHIND IT...AN ENGINEERING REASON

More large central station heating plants are using Yarway Gun-Pakt Expansion Joints in their steam distribution lines than any other type. This popularity of Yarway Gun-Pakt Expansion Joints in public utilities, institutions and industrial plants is due to the engineering reason behind them... they are packed by a gun under full steam pressure.

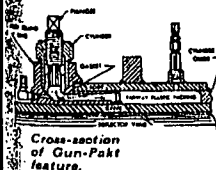
No shutdowns of steam lines, no production delays... you just insert a plug of Yarway plastic packing,

twist a wrench, and the joint is tight, the job is done.

Such labor saving features, combined with impressive records of low maintenance requirements, make Yarway Gun-Pakt Joints a natural selection for your steam lines. Certainly you'll find them worth investigating.

Write for Yarway Expansion Joint Bulletin E.J.-1912.

YARNALL-WARING COMPANY
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Cross-section of Gun-Pakt feature.

YARWAY / gun-pakt
expansion joints