

Next in order comes the wheel department. In this section there are the following motor-driven tools:

- 114 60-in. Planer.
- 115 24-in. Slotter.
- 116 96-in. Boring mill.
- 117 Extension gap lathe.
- 119 600-ton Hydraulic wheel press.
- 120 90-in. Driving wheel lathe.
- 121 85-in. Quartering machine.
- 122 80-in. Wheel lathe.
- 134 60-in. Radial drill.

To the right of this section comes the balance of the heavy motor-driven machines, classed as a general department, with the following machine tools:

- 125 60-in. Planer.
- 126 60-in. Planer.
- 128 26-in. Draw cut shaper with crane.
- 129 30-in. Draw cut shaper with crane.
- 130 72-in. Vertical boring mill.
- 131 42-in. Vertical boring mill.

- 5 14-in. Bolt lathe.
- 6 16-in. Shaper.
- 7 60-in. Radial drill.
- 8 32-in. Engine lathe.
- 9 30-in. Engine lathe.
- 10 Horizontal boring mill.
- 11 50-ton Forcing press.
- 12 52-in. Vertical boring machine.
- 12A 42-in. Vertical boring machine.

The piston, crosshead and motion department, which comes next in order, is very complete with a wide range of standard tools for this class of work. The 26 machines in this set have group drive divided into two sections with the heavier machines at the left end of the section in one drive. The complete list is as follows:

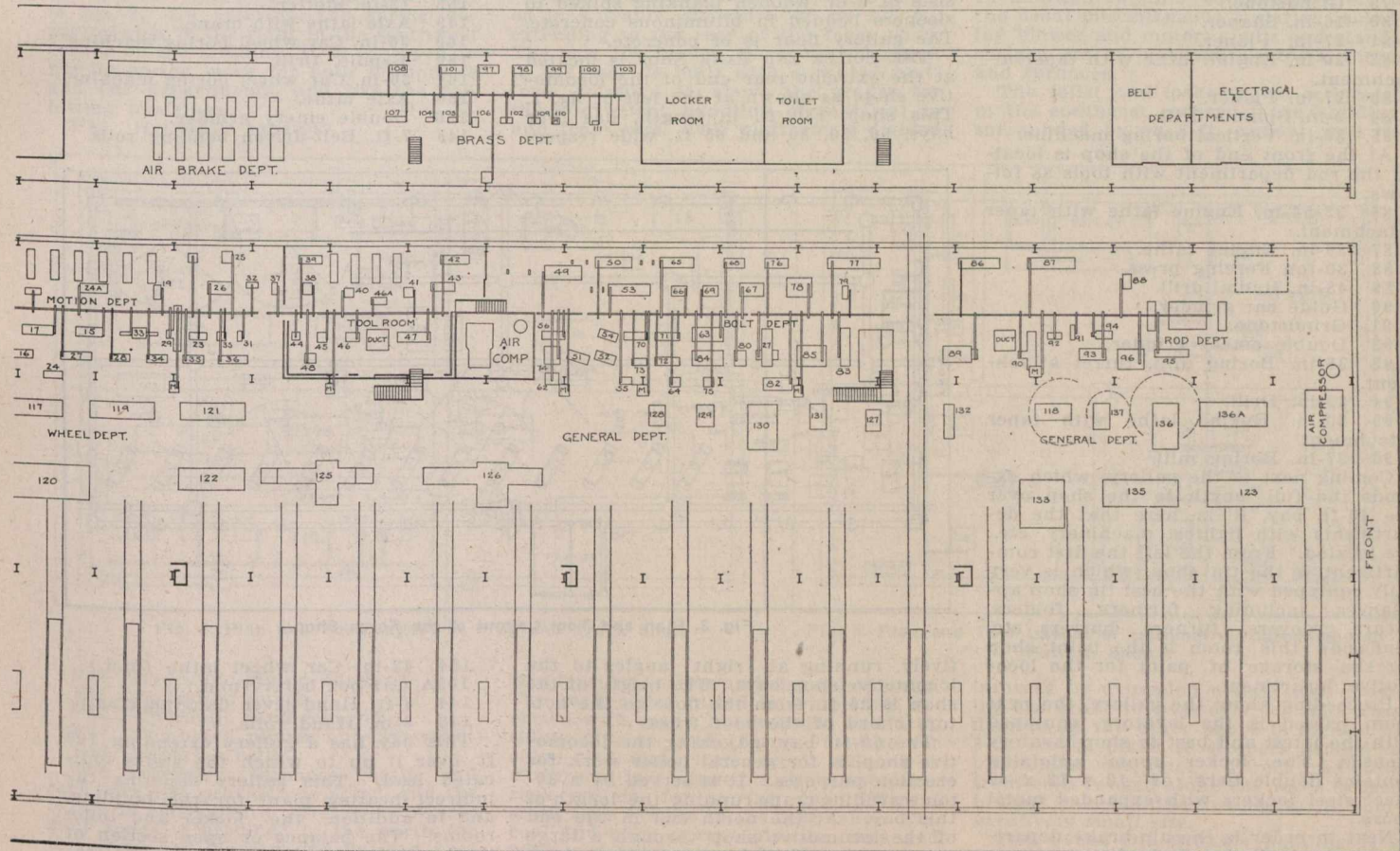
- 13 36-in. Planer.
- 13A Piston grinder.
- 14 Double emery wheel.
- 15 36-in. Radial drill.
- 16 16-in. Bolt lathe with taper attachment.
- 17 66-in. Radial drill.

- 36 18-in. Engine lathe with taper attachments.

Alongside this section is the tool room in a closed partition. It has the usual tool room equipment for a shop of this size, as follows:

- 37 Grindstone.
- 38 16-in. Universal shaper.
- 39 14-in. Tool lathe with taper and relieving attachments.
- 40 6-spindle Drill.
- 41 2-spindle Drill.
- 42 18-in. Tool lathe with taper attachments.
- 43 14-in. Tool lathe with taper attachment and draw-in collets.
- 44 Twist drill grinder.
- 45 Reamer grinder with attachments.
- 46 Tool grinder.
- 46A 12-in. Speed lathe.
- 47 22-in. Engine lathe with taper attachments.
- 48 Milling machine.

An air compressor, electrically operated, in a compartment alongside the



Boiler and Tank Shop, showing Tool Layout in all Shops.

- 127 Combined milling machine.
- 132 18-in. Slotter.
- 118 6-ft. Radial drill.
- 137 26-in. Draw cut shaper with crane.
- 136 18-in. Vertical miller.
- 136A Locomotive rod boring machine.
- 133 60-in. Draw cut cylinder planer.
- 135 Special cylinder borer.
- 123 36 x 36-in. Milling machine.
- 120 96-in. Boring mill.
- 122 80-in. Wheel lathe.
- 125 24-in. Slotter.
- 126 60-in. Planer.
- 128 26-in. Draw cut shaper with crane.
- 129 30-in. Draw cut shaper with crane.
- 130 72-in. Vertical boring mill.
- 131 42-in. Vertical boring mill.
- 18 48-in. Radial drill.
- 19 50-ton Forcing press.
- 20 16-in. Engine lathe with taper attachment.
- 21 Centreing machine.
- 22 Milling machine.
- 23 18-in. Emery grinder.
- 24 Disc grinder.
- 24A Link grinder.
- 25 16-in. Traverse shaper.
- 26 10-in. Slotter.
- 27 20-in. Engine lathe with taper attachment.
- 28 16-in. Engine lathe with taper attachment.
- 29 20-in. Planer.
- 30 14-in. Drill.
- 31 4-in. Hack saw.
- 32 Buffing machine.
- 33 Universal grinder with all attachments.
- 34 16-in. Engine lathe with taper attachments.
- 35 16-in. Engine lathe with taper attachments.

tool room, in conjunction with the air compressor at the right hand end of the middle bay, supplies all the air required in this shop, thus making it independent of the central plant air compressor in the powerhouse. Moreover, standing connections are provided, connected with the general air distribution for use in case of emergency.

Just past the tool and air compressor rooms is the bolt department, equipped with the machines enumerated:

- 49 3-in. x 36-in. Hollow hex. turret lathe.
- 50 3-in. x 36-in. Hollow hex. turret lathe.
- 51 4-in. Hack saw.
- 52 4-in. Hack saw.
- 53 2-in. x 24-in. Hollow hex turret lathe.
- 54 Automatic lathe.
- 55 Centering machine.
- 56 14-in. Bolt lathe with taper attachment.