

FURNACE STACK.

Height, 40 feet; Bosh, 9 feet diameter; Crucible, 5 feet diameter; height of Bosh line from Hearth, 13 feet; 4 Tuyeres of $3\frac{1}{2}$ inch diameter.

Crucible and Bosh from mantel ring down is encased and protected with a Russell Wheel and Foundry Co. Water Jacket.

Furnace Top is provided with a Bell and Hopper, capacity of which is 25 bushels.

HOT BLAST STOVE.

This is of the pipe pattern, with a combustion chamber below. Dimensions are :—

Length, 24 feet; height, 18 feet; width, 9 feet 6 inches. 68 openings between combustion chamber and pipe chamber above.

STEAM POWER.

Consists of four steam boilers, each 4 feet diameter by 25 feet long, with two 18-inch flues; shells are of $\frac{3}{8}$ inch plate and double rivetted. All boilers connected with a brick chimney 75 feet high, and all are bricked separately, and arranged to fire with either wood or gas. Gas connections are made so that boilers can be worked in batteries of two each or more, and one or two can be laid off for repairs or cleaning at any time.

WATER POWER.

This consists of a head of 24 feet, with a "New America" wheel 35 inches in diameter, capable of delivering 65 horse-power.

BLOWING ENGINES.

New Weimer Blowing Engine, size 16 x 48 x 30, set up on a solid stone foundation, which rests