

# WALKER BROTHERS

ENGINEERS AND IRONFOUNDERS

PATENT AIR-COMPRESSING ENGINES, GAS-COMPRESSING ENGINES AND VENTILATING FANS

FISHER & WALKER'S PATENT FRICTION CLUTCHES, UNDERGROUND HAULAGE and GENERAL MINING MACHINERY.



## WALKERS' PATENT AIR-COMPRESSING ENGINES

Single or Compound Steam Cylinders with Corliss or Slide Valves. Air Cylinders arranged for the "Single" or "Two Stage" system of compression, the latter having an Intermediate Cooling Apparatus. [Engines constructed either with trunk frames or box girder plates.]

The system of compressing air by STAGES effects a great economy in power and fuel, with a considerable reduction of temperature in the compressed air. The air is first compressed in the Low Pressure Cylinder, then its temperature is reduced in the Intermediate Cooler, and afterwards it is again compressed in the High Pressure Cylinder.

WALKER BROTHERS have supplied a large number of compressors on this principle for Mining and other purposes, with the most satisfactory results. Nearly all they at present construct are on the stage system, both for Mining and Colliery purposes.

The latest form of their patent Valves, which is a great improvement on the earlier types, affords special advantages for compressing air, or gas, by the stage system.

WALKER BROTHERS have had thirty years' experience in the design and construction of air and gas compressing machinery, and their attention has been constantly given to perfecting the details.

The Air Valves, as at present made (to their latest patents), are an immense improvement upon those supplied twenty years ago.

The aggregate Power of the Compressors at work, about 550 in number, exceeds 250,000 Indicated H.P.

WALKER BROTHERS have re-modelled over 100 Air-Compressing Engines originally constructed by other Engineering Firms.

## THE BLACKWALL TUNNEL

For the construction of the Tunnel, Six Air-Compressing Engines were erected. The largest Two Pairs of Compound Engines, were supplied by us. Messrs. S. PEARSON & SON, the Contractors for the construction of the Tunnel, have kindly written to us, as below, with reference to the quality and working of our Machinery:—

S. PEARSON & SON, CONTRACTORS.

MESSRS. WALKER BROTHERS, PAGEFIELD IRONWORKS, WIGAN.

DEAR SIRS,—We are pleased to confirm what we told you verbally the other day, viz: that we consider the Air Cylinders and Valves of your Compressors to be the best for such work as we have been carrying out on the above Contract.

One of your Engines ran for almost a year without stopping, and it gives us great pleasure to thus testify to the good qualities of the plant which we purchased from you.

We are, Dear Sirs, Yours faithfully. (Signed) pro S. PEARSON & SON, E. W. MOIR.

BLACKWALL TUNNEL WORKS, EAST GREENWICH, S.E.

May 10th, 1897.

# PAGEFIELD IRON WORKS, WIGAN, ENG.

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