

# WALKER BROTHERS

## WIGAN, ENGLAND

### PATENT

# AIR COMPRESSING ENGINES

## 310,000 IND. HORSE-POWER AT WORK

In Great Britain, France, Germany, Spain, Russia, Holland, Canada, South America, India, Japan, South Africa, China, Australia, New Zealand, &c., &c.

**PATTERNS FROM 20 HORSE-POWER UP TO 2,000 HORSE-POWER.**

WALKER BROTHERS have constructed 700 Air Compressing Engines, with Steam and Air Cylinders ranging from the smallest sizes to 72 in. diameter, including 350 from 30 in. to 70 in. diameters.

One installation, in process of construction, has four Steam Cylinders (Corliss type) and four Air Cylinders.

The Low-pressure Steam Cylinders are 64 in. diameter, the Low-pressure Air Cylinders are 58 in. diameter. Steam Pressure, 140 lb. per square inch; Air Pressure, 100 lb. per square inch.

### EXTRACTED FROM CATALOGUE.

Messrs. WALKER BROS.,  
Loftus Mines, Loftus in Cleveland, R.S.O.,  
3rd December, 1901.

Dear Sirs,—I have much pleasure in stating that the air compressing machinery, supplied by you in 1891 and 1897, to Pease and Partners, Ltd., Loftus Ironstone Mines, has given every satisfaction.

The valves of the air cylinders are remarkably good, and have never given any trouble or needed repairs. The compressor is a double horizontal compound engine, steam cylinders, 28 in. and 48 in. diameters, air cylinders, 40 in. diameters by 72 in. stroke.

The compressed air is used for rock drilling, hauling, and pumping underground.—Yours faithfully,  
For Pease and Partners, Ltd.,  
W. MOORE, Manager.

[NOTE.—These engines have four steam cylinders and two air cylinders.—WALKER BROS.]

The United Alkali Co., Ltd., Chief Engineer's Office,  
Widnes, 23rd December, 1901.

Messrs. WALKER BROS., Pagefield Ironworks, Wigan.

Dear Sirs,—In reply to your enquiry of the 29th November, we have pleasure in being able to state that your blowing engines have given us great service and satisfaction.

We have had for several years quite a number of your large blowing engines in operation, driven direct by both single and cross compound arrangement of steam cylinders.

We consider that the arrangement of the "Walker" valves on the compressor cylinders is a valuable one, possessing the merit of simplicity and efficiency, while giving a large throughway with a small clearance space.—Yours faithfully,  
For the United Alkali Co.,  
EDWARD J. DUFF, Chief Engineer.

[NOTE.—See the number and dimensions of the compressors referred to in the list of users in our catalogue. The steam and air cylinders are nearly 70 in number, from 20 in. to 50 in. diameter.—WALKER BROS.]

Barrow Hæmatite Steel Company, Limited,  
Barrow-in Furness, 7th October, 1901.

Messrs. WALKER BROS., Pagefield Ironworks, Wigan.

Dear Sirs,—I have much pleasure in stating that after a long experience of your Bessemer blowing cylinders, extending over 15 years, we find the valves perform their work most satisfactorily, and they are most enduring; indeed, we cannot speak too highly of their performance or life.—Yours faithfully,  
For Barrow Hæmatite Steel Company, Limited,  
J. M. WHILE, General Manager.

[NOTE.—The various blowing engines (air compressing engine) referred to above include several air cylinders 48 in. diameter.—WALKER BROS.]

Messrs. The GLENGARNOCK STEEL AND IRON COMPANY write, in November, 1901, after 15 years' experience of Walker Bros' blowing engines, having air compressing cylinders 54 in. diameter by 6 ft. stroke:—"These engines have given us every satisfaction."

Messrs. DE WENDEL & CO., Hayange, Lorraine, after seven years' experience of air cylinders (four) 54 in. diameter by 6 ft. 6 in. stroke write:—"The working of the air cylinders you supplied leaves nothing to be desired."

S. PEARSON AND SON, Contractors.

Blackwall Tunnell Works, East Greenwich, S.E.,  
May 10th, 1897.

Messrs. WALKER BROS., 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 and Son, E. W. MOIR.

SOLE CANADIAN  
REPRESENTATIVES

**PEACOCK BROTHERS**

CANADA LIFE BUILDING  
MONTREAL