

Exterior View of the Northey Manufacturing Co's Works.

MINE PUMPS.

Their Manufacture in Canada at the Works of the Northey Manufacturing Company at Toronto.

With the steady and persistent growth of mining in Canada has sprung up in the various provinces, notably, in Nova Scotia, Quebec and Ontario, a corresponding extension of the home manufactures of mining machinery. Among these may be mentioned the manufacture of special lines of air compressors and drills by the Ingersoll and Rand Companies at Montreal and Sherbrooke, hoisting engines, coal mining machines, and a general line of mining machinery by the Jenckes Machine Co.; stamp mills and a complete line of gold mining machinery by the Truro Foundry and Machine Co., at Truro; and the Messrs. Matheson, at New Glasgow; and by no means the least important, the large establishment operated by the Northey Manufacturing Co., Ltd., at Toronto, for the production of mine and quarry pumps, two excellent views of which are reproduced in this number. The Messrs. Northey commenced business in Hamilton, as far back as 1842, and in 1882 the works were removed to Toronto. The rapid extension and success of the business, however, necessitated its incorporation into a stock company, and this was accomplished in 1892, under the name of the Northey Manufacturing Company, Ltd.

The machine shop, 250 feet long and 75 feet wide, is divided into three bays, the centre one of which is used for travelling crane, surface railway and heavy tools. The two outer bays are equipped with special and general tools for the manufacture of pumping and general hydraulic machinery. The tools used are all modern, and include duplex boring machines, gang millers, horizontal and vertical boring machines for large work, heavy planers, milling machines, lathes and the usual complement of tools used in modern machine work. At one end of the main shop is the tool room, where a number of hands are constantly employed in the production of special tools, jigs, gauges, etc., required for the purposes of the business.

The engine supplying power is located at end of centre bay in machine shop, and drives two shafts running entire length of each side bay, leaving centre clear of shafts and belting, and free for the erection of machinery, and the operation of overhead crane.

Testing tanks are conveniently located below floor level, and are supplied with cold and hot water, to allow of thorough tests of pumps for the various duties required. A test pressure is put on all pumps very much in excess of that which they are required to work under, and each machine is shipped in perfect working order, and requiring no further adjustment.

The building shown in left foreground of engraving, is the pattern shop, which is thoroughly equipped with power machinery for wood working. Adjoining the pattern shop are the public and private offices, and draughting room, the latter is fitted with drawing tables, cabinets for finished drawings, and for supplies, and complete equipment for the making of blue prints. The main and private offices are spacious rooms, handsomely furnished, and finished in natural woods. The main office is provided

with a large plate glass window, with cut glass heading, which commands a view of the entire length of machine shop.

At the further end of main building is the boiler house, smithy and brass foundry, all specially adapted to their purpose.

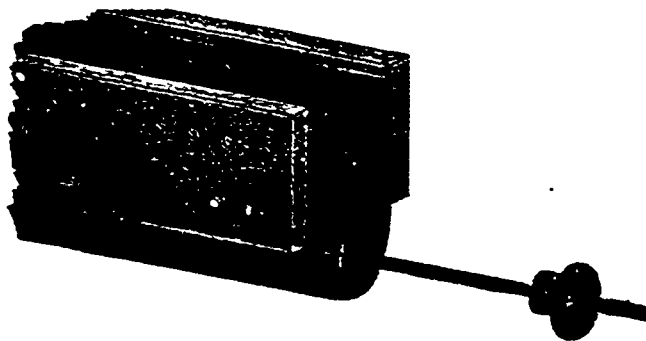
A very marked characteristic of the works is the ample light obtained at all points by the judicious arrangement of skylights and windows, and the shops being lofty and well ventilated, present a contrast to the old-fashioned, dingy and crowded quarters, so frequently considered quite suitable for machine shop premises.

The Northey Manufacturing Company's shops were erected from special designs, prepared by Mr. E. J. Lennox, of Toronto, and are consequently very fully adapted to the requirements of the business. The firm's trade has experienced a healthy and continuous growth, their pumping and other machinery being universally recognized as quite equal to standard English or American makes.

We are pleased to note that they have lately been entrusted with orders for important pumping machinery for some of the large Canadian mines. They make a specialty of mining pumps of all classes, and up to the largest sizes.

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