

MACHINERY AND CONSTRUCTION NOTES.

An order received by the Jenckes Machine Co., Ltd., of Sherbrooke, Quebec, through its Vancouver, B.C., office, for a 100-h.p. tubular steam boiler for the Brown-Alaska Co., of New York, has lately been executed, the boiler having been delivered at Vancouver, for shipment thence to Portland Canal. Beside this boiler the Brown-Alaska Mining Co. lately also shipped from Vancouver an air compressor, cable etc., for an aerial tramway; 110,000 ft. of lumber for wharf and ore bunkers; and other plant and materials for two mines which it is developing near Portland Canal. This company has copper mines and (in conjunction with the Alaska Smelting and Refining Co.) smelting works on Prince of Wales Island, Southeast Alaska.

The Jenckes Machine Co., Ltd., through its Rossland office, has closed a contract with the Dominion Copper Co., Ltd., operating copper mines and smelting works in the Boundary district of British Columbia, for the supply of two Farrel-Bacon crushers—one 42 by 30 in. and the other 16 by 10 in. The shipping weight of the larger machine is 125,000 lb. and its capacity is 1,500 tons crushed to not larger than a 6-in. cube in a day of 10 hours. It is stated to be the largest pattern jaw crusher so far made anywhere. Several of the Jenckes Farrel-Bacon pattern crushers have, during the last three or four years, been installed at the mines of the British Columbia Copper Co. and Granby Consolidated M. S. and P. Co., Boundary district, and have been found well suited to the continuous and heavy ore-crushing work connected with the large output steadily maintained by those mines. Another order recently received by the Jenckes Co.'s representative at Rossland was for a 36 by 24 in. Farrel-Bacon crusher for the Centre Star mine at Rossland, owned by the Consolidated Mining and Smelting Co., of Canada, Ltd. This crusher is to have a capacity of 1,000 tons crushed to 6-in. cube every 10 hours; its shipping weight will be 60,000 lb.

The Alberta Portland Cement Co., Ltd., of Calgary, Alberta, has obtained from the Jenckes Machine Co., Ltd., a hoisting plant, consisting of 40-h.p. locomotive boiler, 7 by 10 hoisting engine, rope, steam piping, etc.

The Hamilton Powder Co. this month purchased from the Western Fuel Co. 90 acres of land situated near Nanaimo, Vancouver Island, and adjoining that on which the former company's powder factory stands. This land has been acquired to admit of necessary extensions to the factory buildings and plant being made, the increasing demand for the Hamilton explosives, which find a large and ready sale in the Pacific Northwest, making it imperative that provision be made without further delay for the expansion of business already experienced and further developing.

The Crow's Nest Pass Coal Co., Ltd., is installing at its No. 9 mine, Coal Creek colliery, near Fernie, Southeast Kootenay, a Wilson fan, similar to that supplying air to Nos. 2 and 3 mines, which is 12 ft. face and 16 ft. diameter, capacity 250,000 cu. ft. of air per min. and discharging about 150,000 ft. at water gauge 0.9 in. The output of No. 9 mine being now about 600 tons per diem, the fan in use during development operations is now too small to properly ventilate this mine. A new tunnel is being driven in No. 9, to be completed by the time the new fan shall be ready for operation—about the end of July.

The Granby Consolidated M. S. and P. Co., Ltd., is adding to its smelting plant at its works at Grand Forks, Boundary district, two Connorsville "Jumbo" blowers, to meet additional blast requirements following the enlargement of several of its copper blast furnaces, and four 150-h.p. induction motors to drive these blowers. The "Jumbo" blower installed late last year has a capacity of 30,000 cu. ft. of air per min., and has a double drive, being operated by two 100-h.p. induction motors. It is the largest blower in Canada. Those about to be installed are of similar make and capacity. Three more electric motors, for furnace automatic charging purposes, are being obtained, and another power pump, having a capacity of 750,000 gal. per diem. The work

of putting in a third converter stand, of the horizontal barrel type, is already well advanced.

Additional machinery is being received at the Ottawa mine, Slocan City mining division, including air compressor, hoist, pumps, etc. An electric light plant is also to be installed. It is intended to sink a shaft from the 500-ft. level of the mine. The Ottawa is owned by Mr. Thos. A. Noble and others, of Pittsburg, Pa., who are stated to have made money out of operating it during the last two years. Mr. R. J. McPhee is manager.

The International Coal and Coke Co. has let a contract for building 90 additional beehive coke ovens at its colliery, Coleman, Alberta. The company is already using about 100 similar ovens.

A wharf with coal bunkers to have a storage capacity of about 600 tons is to be built at Coal Harbour, Vancouver, Macdonald, Marpole, & Co. having let a contract to Ironside, Rennie & Campbell, the work to be completed by the end of July. The *Province* states that Macdonald, Marpole & Co. have secured a water frontage of 295 ft. 6 in. immediately west of Jarvis Street, and that the bunkers will be 160 ft. in length, with an extension for a travelling crane to unload the coal from the scows in which it will be conveyed from Vancouver Island shipping ports, the total length of the structure to be about 200 ft.

TRADE NOTES AND CATALOGUES.

Mr. N. S. Braden, sales manager for the Canadian Westinghouse Co., Ltd., has returned to headquarters at Hamilton, Ontario, from a business trip through the West, in the course of which he visited the chief cities in Alberta and British Columbia and went thence to Seattle, Wash., and San Francisco, California.

The *Mining and Scientific Press* states that the C. T. Carahan Co., of Denver, Colorado, has given a Murphy air-hammer rock-drill and dust-layer to the College of Mining of the University of California. This is a useful addition to the apparatus at the college, and it does credit alike to the enterprise and the generosity of the company mentioned.

The Colorado Iron Works Co., of Denver, Colorado, frequently receives shipments of ore to be treated at its ore-testing works. These shipments vary from small parcels of 25 lb. up to lots of a carload or more. Recently a 500-lb. shipment was received from Japan others have come from Mexico, South America, the Philippines, Australia, and from points scattered over the western half of North America. The company's testing plant provides facilities for stamp-milling, amalgamation, concentration and cyanidation, with all modern accessories for each process.

Canadian Westinghouse Co.'s Circular No. 1130 describes and illustrates that company's Electro-Static Voltmeter, for measuring high voltages, the advantages of which are outlined and compared with the disadvantages of the more familiar of other methods.

Among the May circulars of the Westinghouse Electric and Manufacturing Co. are the following: No. 1,129, Westinghouse No. 119 Railway Motor for Direct-Current Service; No. 1,132, Westinghouse Protective Apparatus and No. 1,134 Electrical and Mechanical Brakes for Westinghouse Type K Motors. Each is freely illustrated and gives much useful information on its subject.

The Westinghouse Electric and Mfg. Co. is doing a large business in equipping mines with electric locomotives, to replace the older forms of haulage, whether animal or mechanical. Electric mine haulage, whether considered from the point of efficiency or economy, has so many advantages as compared with the older practice, that it is believed the time is not far distant when any other method of mine haulage will be the exception.

The tipples being erected at Frank, Alberta, for the Canadian-American Coal and Coke Co. is well under way.