

and the latter cannot be increased beyond a certain point without disturbing the proper working of the apparatus.

*Dressing-Works and Machinery.*—The steam crushing and amalgamating mill of the Company, is a substantial frame building, 40 by 50 feet, of two stories, with a boiler house annexed.

*The Steam Engine* is the best one I saw in the Nova Scotia Gold Region. It is estimated at fifty-horse power, has a cylinder of fourteen inches diameter and three feet stroke, with a fly wheel of fifteen feet diameter. It is supplied with steam from two cylinder boilers, forty-two inches diameter, and twenty-eight feet long. Two small donkey engines and pumps supply water, for the boilers and dressing machinery, from a well, communicating with Rush Lake, which is immediately adjoining. This portion of the machinery was supplied by C. H. Richards, of Brooklyn, N. Y., and does much credit to the builders.

*The Stamps* are arranged in four batteries of six each—twenty-four heads—with wooden lifters, raised by cams, making three blows to each revolution of the cam shaft, which is designed for twenty revolutions per minute, giving sixty blows each minute of a hammer weighing in all 800 lbs. The mill has power for forty head of stamps. As originally built, the stamps had wooden boxes. These have been, in part, changed for cast-iron boxes with four-inch bottoms and six-inch arms, calculated to crush in six inches of water, using mercury in the boxes. The system adopted also includes—

*Two Chilean Mills*, or edge-stones, running on cast-iron tracks or pans,  $6\frac{1}{2}$  feet in diameter, weighing 31 cwt. The stones are of granite,  $4' 2''$  diameter by  $18''$  face, and weighing about two tons each. They make ten revolutions each per minute, at an estimated cost of four-horse power. These mills are fed directly from the stamps, or they may be run separately, as when I saw them, being then fed by hand. They discharge upon

*Rifle Tables*, covered with amalgamated copper plates, designed to retain the fine gold which escapes from the mills. The sluice

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