



OFFICE BUILDING OF JOHN BERTRAM & SONS COMPANY, DUNDAS, ONT. HARRIS & RICHARDS, ARCHITECTS.

## The Bertram and Pratt & Whitney Plants

**D**UNDAS, Ontario, has the appearance of a quiet and peaceful valley town, which at casual glance somewhat obscures its industrial prestige. Yet very little investigation reveals plenty of evidence of manufacturing activity. Its two most important firms—John Bertram & Sons, Limited, and the Pratt & Whitney Company—have achieved a prominence as producers of heavy machinery and small precision tools, respectively, which makes them nationally known. The plants of both of these concerns, which are two separate companies under one management, have within the past two years been enlarged to about three times their original size. War orders and the growth of normal trade have made necessary this additional capacity, which in the case of the Bertram plant takes the form of a new lathe shop and storage building, each 320 x 60 feet; a pattern storage building, 102 x 102 feet, and a modern office building, 113 x 55 feet.

These additions have necessitated very careful planning so as to bring the several departments in proper relation to one another, and to provide for a direct routing of the work through the plant. The key of the plan is really an industrial track connecting with the foundry

and running through transversely at the centre of the main buildings. This track is served by travelling cranes which do all the heavy lifting and operate the full length in each bay of the various shops. Each casting or part is thus quickly and conveniently handled through the entire process until the finished work finds itself either in the storage building or is placed on the cars ready for shipment.

In addition to this, there is an outside or yard crane of twenty ton capacity travelling on "A" frames, 32 feet high with 60 ft. spans, and having a total length of 400 feet, which serves each of the several structures.

While the Bertram Company has up to recently been engaged in filling important war contracts, it has for fifty years specialized in the manufacture of locomotive and car shop equipment, structural and bridge shop machinery, and repair and general machine shop equipment. It is for the purpose of enlarging the output in these permanent lines that the facilities of the plant have been increased. Besides the several new buildings, the original plant itself has been enlarged, and further additions will shortly be required in view of the present inadequacy of the existing foundry and power