

Hall's Agricultural Implement Factory,

It is with a very faithful and spirited engraving of an establishment in which many of them have come to feel considerable interest, from their purchase and use of implements manufactured at it. Having recently visited this establishment for ourselves, we propose to give a brief account of our observations and impressions. We confess to some surprise at finding in the quiet, unpretending town of Oshawa so large a concern, knowing, as we did, that all over the country there are factories of like description some of which do a large amount of business. It gives one an exalted and encouraging idea of the agricultural growth and resources of Canada to find, in addition to the numerous smaller shops of the same kind, a mammoth establishment like this, which, though constantly enlarging its dimensions, is always too strait for the work requisite to supply the ever-increasing demand. Here are a machine shop, three stories high in front, and two and a half stories in the rear, measuring 266 feet in length by 40 feet in width; a foundry 110 by 40 feet; a smithy 60 by 30 feet, containing 12 forges; together with office, warehouses, sheds,

and last but not least, a spacious lumber kiln. Most of these structures are built of white brick, and present a very neat and respectable appearance.

If the exterior of these works is fitted to excite surprise, the interior is still more calculated to do so. We give up in despair the attempt to describe the varied and beautiful machinery by which almost every manufacturing process is brought about. Suffice it to say, that in the iron-fitting department, planing, turning, stamping, cutting and boring machines work with a precision that tempts you to suspect them of being endowed with intelligence;

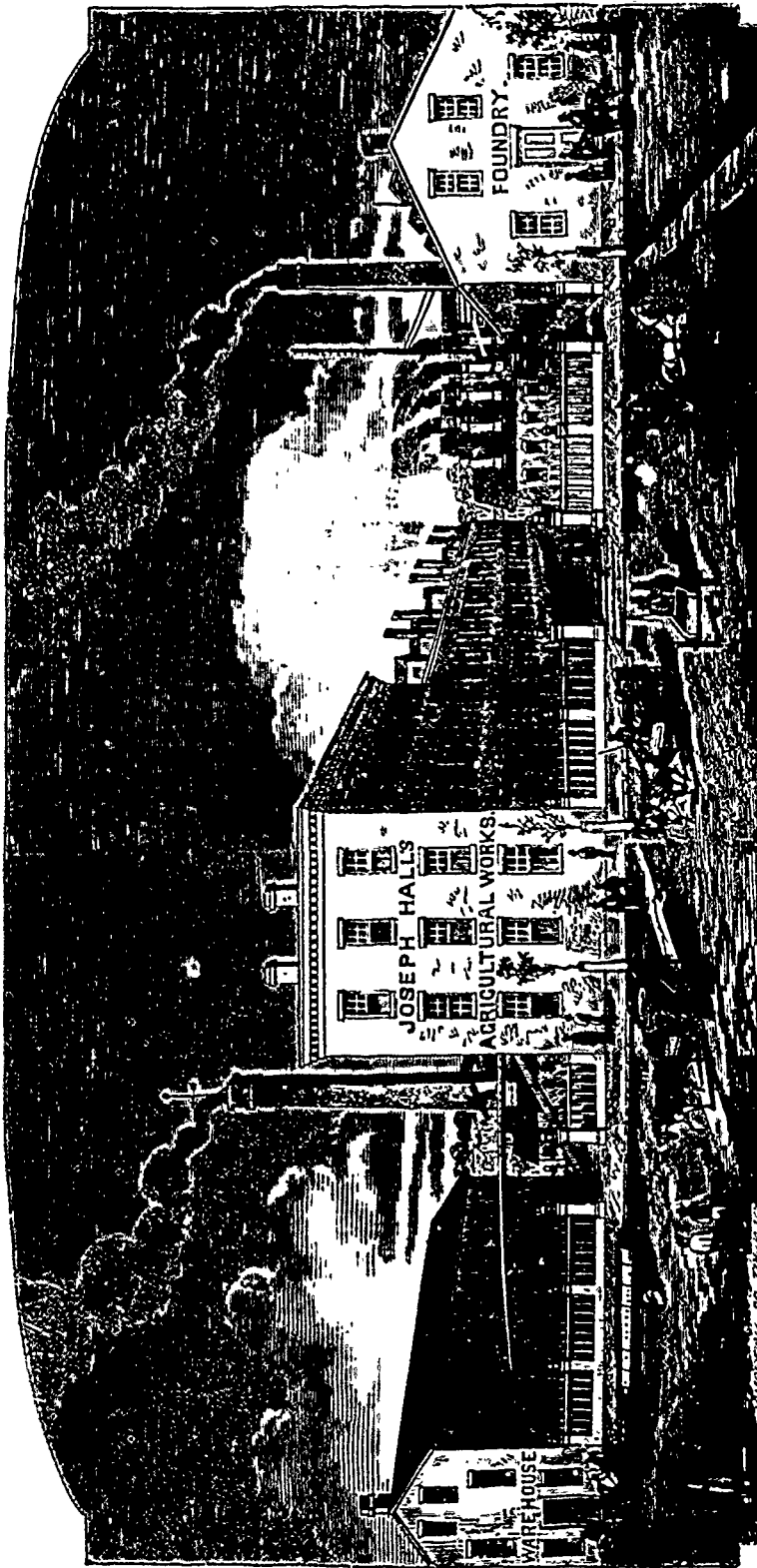
while in the wood finishing department, in like manner, the rough sawing or plank is smoothed, shaped, bored, morticed, tenoned with the most marvellous rapidity and unerring accuracy. The heap of rough castings, and the pile of rough lumber, are quickly transformed as if by magic into implements of such beauty and finish, that they seem to invite the workman to release them from inactivity and give their capabilities full scope. Something more than an attractive appearance, however, is necessary in the farmer's weapons of war, and nothing gratified us more than the evident pains taken to have every thing

imprinted for the threshing machine teeth, and the steel for mould-boards, cutter bars, &c., is made expressly for this establishment in Sheffield. The white ash used in the wooden parts of the various implements in which a high degree of toughness is needed, is brought from Morpeth, in the county of Kent, and it would be difficult to find ash of better fibre. The utmost care is taken to have all the lumber thoroughly seasoned. After long exposure to sun and air, it is all passed through the kiln above-mentioned, and subjected to a kind and degree of heat such as renders further shrinkage absolutely impossible.

but think that before purchasing costly tools, farmers would do well to satisfy themselves that in quality of material, precautions against weakness and injury, and like matters, as well as in style of finish, the article they are buying has been conscientiously and faithfully made. So far as we could judge, it seems to be an established principle with Mr. Hall to do this. There are manufactured at these works reapers and mowers of various patterns, horse-powers of several kinds threshing machines, clover m'ls and steel mould-board ploughs. Besides these, all kinds of mill and job castings and machinery are made to order. A large amount of business of this description is done constantly. At the time of our visit, the main shaft and other requisites for a flour mill, besides a number of miscellaneous orders, were being prepared for delivery.

It is time now to speak a little more particularly in reference to some of the implements turned out by this establishment. Our space will not admit of our fully noticing all; we must therefore make a selection. In the first place, a few words as to the reapers and mowers. After a thorough testing of the various styles of reapers and mowers, single and combined, Mr. Hall unhesitatingly pronounced "Hall's Ohio Mower and Reaper

Combined" as decidedly the best machine of its class, and accordingly manufactures more of these far than of any other kind. Out of 700 machines which he is turning out the present season, upwards of 500 are Hall's Ohio. The remainder are Hubbard's, Brinkbolls, and the Cayuga Chief. Hall's Ohio is a combined machine, and while it is excelled by none as a mower, it stands unrivalled as a reaper. Most of the combined machines have proved unsatisfactory either as reapers or mowers. But this is equally effective in the meadow and in the grain-field. This is chiefly owing to the fact that the mowing and



Steel is used in various parts of the implements, such as the cutter bars, pitman rods, &c.; in short, wherever iron might, by bending, throw things out of order. Particular attention is paid to all bearing surfaces, so as to protect the machinery and lessen friction as much as possible. Journals are made to play in double boxes which are lined with Rabbit metal, an amalgam of tin and antimony, nearly equal to brass for smoothness and durability. We examined many of these details with the utmost care, and in view of the established axiom that the strength of a whole is just that of its several parts, we cannot

used in these shops of the very best material possible. Mr. Hall, we understand, has the reputation in Montreal of being the most particular buyer of stock in that market. Nothing could be more creditable to him as a manufacturer than such a fact as this. What avails perfection of mechanism and beauty of finish, if, after all, the raw material is of inferior quality? We were glad to find that such brands of wrought iron as "Glasgow," "Elephant," "Banks' and Baginell's," and in cast iron, the "Three Rivers" pig and car wheels, "Saulsbury," "Hemite," &c., are used: while the celebrated "Law Moor" iron is