

CUPOLAS

FOUNDRY EQUIPMENT

CRANES

E. A. WALLBERG, C.E.

Temple Building, TORONTO

Merchants Bank Building, MONTREAL

two saw frames, one stationary, the other movable to and from it by a screw, and bevel gears.

The operator can quickly adjust the movable table to suit any length of material he may desire to cross-cut, both ends being cut off square at one operation. The saw arbors are of large diameter and run in self-oiling bearings; the arbors adjust independently of each other, and in case of wear have an adjustment for keeping them true; the arbors are mounted in a substantial frame, and can be quickly raised or lowered by means of a hand-wheel, to suit the work, the table remaining at all times at a fixed height, the belts retaining their proper tension at any position of the saw.

Motion is communicated to the arbors by a countershaft upon the rear side of frame. The driving pulley to the traversing arbor is enclosed by two arms from the table frame, and when moved, slides upon a splined shaft. The tables are of iron with planed grooves for receiving the gauges. Wood packing plates are inserted around the saws, which can be taken out for grooving purposes.

The tables can be brought together so that material eight inches in length can be cut on both ends perfectly square, or they can be separated so as to cut off on both ends material up to six feet six inches. There is also a sliding cross-cut gauge, quickly adjustable for different widths, which can be instantly removed or replaced.

The stationary table has a ripping gauge, which can be bevelled to varying angles, or reversed for sawing upon the opposite side of the table; no sliding car-

riages are necessary, the fence gauges being so constructed as to fully answer this purpose, and are such that one operator can work with a grooving saw and another cut off both ends of material at once, any length from twenty-two inches to five feet.

The tight and loose pulleys are 10x5½, and should make 700 revolutions.

For further information, address the manufacturers, Cowan & Co., Galt, Ont.

DIXON'S SOLID BELT DRESSING.

The Joseph Dixon Crucible Co., Jersey City, N.J., have sent us a circular having reference to the Traction Belt Dressing and Leather Preservative manufactured by them. The use of which, they say, absolutely prevents a belt from slipping; thoroughly preserves the leather and protects the elasticity of the belt.

An expert, in an article in the Mechanical News, says:

The common and every-day users of belts know but little about them other than what they learn by observation. They know how to put one on the pulleys when it slips off; know how to re-lace it when the lacing gives out, or how to cut out a piece and take it up when it becomes too slack, or how to put rosin on it when it slips. The latter lesson is learned too quick, probably because it ought not to be learned at all. It is simply an injurious stimulant which tends to destroy the vital energies and shorten the life of the belt, especially a leather belt.

Of course all belt users know that the life of the belt depends upon the care

given it; and if this is so it is certainly worth while to look after them.

It is the custom of many owners and superintendents to use nothing on their belts, but, when the belts slip, to tighten them up. This, however, heats and wears the journals, consumes the lubricating oil, and does not remedy the trouble of slipping. Weight we know increases journal friction, and the tightening of a belt acts just the same as would the adding of dead weight to the journals. The tighter the belt is made, the surer it is not to slip, but it is impossible to tell how much additional work it and the power plant have to do when made too tight.

There is a certain amount of elasticity in all good leather belting, but time and continued hard work weaken it, and the application of soap, rosin, tar, tallow, and castor oil is simply an injurious and temporary stimulant, which tends to destroy the vital energies and shorten the natural life of the belting. Dixon's Belt Dressing and Leather Preservative we are told, saves the life and elasticity of the belt to a most wonderful degree, and, as it completely prevents slipping of the belt, no power is wasted and the greatest economy secured. Slipping belts means loss of power, and loss of power of course means additional cost.

This belt dressing, in both liquid and solid form, has acquired great popularity in Canada.

The Gowanlock Printing & Publishing Co., Toronto, has been incorporated with a capital stock of \$15,000. The provisional directors include A. G. Gowanlock, P. E. McMillan and G. J. Gowanlock.

The Owen Sound Meat & Cold Storage Co., Owen Sound, Ont., has been incorporated with a capital stock of \$100,000. The provisional directors include E. H. Horsey, W. P. Telford and Christopher Eaton all of Owen Sound.

Midland, Ont., will install a water-works system and take over the electric light plant from the present owners.

Drayton, Ont., have passed a by-law to loan \$10,000 to aid the building of a factory for the manufacture of felt boots and shoes.



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