## SOME NOTES ON BAND CONVEYORS.

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## (FOURTH ARTICLE.)

One of the most recent developments in the details of these conveyors consists of a special type of carrier, or roller sets. The idea consists in making each individual roller complete in itself with supports, spindle and bearings, and



these are then arranged in twos, threes, fours, etc., to make up a complete carrier for any width of band.

Fig. 21 shows a section of a conveyor as made by the Jeffrey Manufacturing Company. This indicates the general appearance of the rollers, and it will be noticed that the three rollers forming the troughing set are each supported in their own bearings.

Fig. 22 is of a similar character, but includes a set of guide rollers such as were referred to in a previous article. This figure is also by the above firm.



Fig. 20.

Figs. 18, 19 and 20 show carriers as made by the Stephens-Adamson Manufacturing Company.

The first illustration depicts one of their new unit sections which are arranged to suit both the carrying and return



## Fig. 21.

sides of the band, and may be with equal facility used for either flat or troughed bands without any alteration in the unit of any kind. The manner in which this is accomplished is seen in the last two figures, viz., 19 and 20. If a wider belt is required it is only necessary to add more units to make up for the increased width.

The advantages to be gained with the use of this style of carrier are fairly obvious.



(1) Similarity of design for all belts, both flat or troughed, enables a few spares to be kept in stock which will suit any number of conveyors.

(2) If it is found necessary to alter the width of a band, the old style of rollers would be useless, but with these unit rollers all that need be done is probably a little resetting and increase of the number, and the belt will be quite as perfect as it was in its original state.

(3) Probable lessening of the cost of manufacture due to all the parts being alike, but on this point the author has no figures available.

In addition to these points Messrs. The Stephens-Adamson Manufacturing Company state that their rollers are practically dust-proof and indestructible, and further, owing to the method of construction the rollers are much lighter than the other type.

Another advantage claimed is a saving in power, and the makers state that for a flat level conveyor using this type of carrier 40 per cent. of the power required for a conveyor of the old type would be saved.



Fig. 23.

This appears to the writer to be rather a big amount and he assumes their figures are based on a conveyor running light, so that the actual percentage of saving on a conveyor fully loaded would be something less than this.