

Miscellaneous Notes.

Haswell, an Acknowledged Authority and most quoted by American mechanics, summarizes thus: The ratio of friction to pressure for leather belts when worn over wooden pulleys is 47, over turned cast iron pulleys 24. Thus showing the average advantage of a wood pulley over iron to be about 50 per cent.

The Compression Fastening, whether used with keys in iron center or compression alone, keeps the pulley always in balance, as the compression on the shaft and key is always towards the center.

The Most Perfectly balanced iron pulley fastened with set screws or key, is invariably out of balance by being thrown from the center. This fact is obvious to all mechanics.

When the Shaft is Very Small and a large amount of power is required and the area of surface in contact is not sufficient, we make the pulley with a keyseat and key the pulley to the shaft, and then by compression on the key and shaft, it is not thrown out of balance as by the use of set screws and keys as commonly fitted.

We Guarantee the Compression of Wood on Iron to hold stronger than steel set screws in any case, and on shafts above $2\frac{1}{4}$ inches in diameter, stronger than keys as ordinarily fitted.

The Method of Fastening does not mar or injure the shafting in the slightest degree. No weakening of shafts as from key ways or burrs, or rings on small shafting, as in the use of set screws. No delays from broken set screws or rusted keys, or taking down of shafting to change a pulley. This advantage alone frequently saves more than ten times the cost of a pulley.

The Advantages of Our Mode of Fastening over any other are:

First:—It is the only absolutely true fastening for a pulley. A pulley once properly balanced cannot be thrown out of balance in being secured with this fastening. A pulley fastened with key or set screw in the ordinary way, cannot be screwed without lifting the pulley from the shaft at that point where key or set screw is placed, thus throwing the pulley out of balance.

It is a More Secure Fastening than a set screw in any case, and more so than an ordinary key as usually fitted.

The Shaft Where the Pulley is to be fastened should be cleaned or wiped off with shavings or waste.

All Pulleys Should be Examined after running a day or two and set up tighter if possible, and should you wish to use a pulley you have on hand of our make that is bored for a size or two larger shafting, it may be bushed successfully with paper or leather and drawn up perfectly tight and used successfully on smaller shafting until you order a new bushing, thus not delaying you for want of a proper size bushing.

Note Carefully Our Bushing System. It is cheaper to buy a new Split Pulley any time than to take down a line of shafting and shift pulleys.