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OSTEOTOMY JIG

ABSTRACT

We describe the design of a jig used for the purpose of osteotomy of the metacarpal for correction of angular deformities arising from malunion using the Rhomboid Rotational Osteotomy technique. The Rhomboid Rotational Osteotomy is a technique for correcting malunion metacarpal without changing the length of the bone significantly. The jig consists of a base, a sliding body, and a shaft assembly with a cutting slot. Two orthogonal angular adjustments, each in its respective plane, can align the saw blade in any desired plane of cut. An alignment guide which holds the K-wires will align the jig to the bone firmly. Fast locking mechanism embedded in the jig allows multi cuts to be performed speedily and flexibly. The jig allows precise angular and positional adjustment for malunion correction osteotomy in a single step operation.

(Figure 5)