This invention comprises novel and useful improvements in and auxiliary support for a sheet metal shear table and more particularly relates to an adjustable auxiliary support which is hinged to and partially supported by a shear table for horizontal swinging movement relative thereto.

The primary object of this invention is to provide a support table construction which shall be particularly adapted for use with a conventional sheet metal shear table commonly employed in association with metal cutting shears and the like, whereby to facilitate the handling of stacks of metal sheets and for moving and positioning the same with respect to the shear table and the metal shears.

A further object of the invention is to provide an auxiliary support table construction in accordance with the preceding object which shall be of an extremely light weight character, may be compactly stored relative to the sheet metal shear table, and may be easily applied there to or removed therefrom.

A further object of the invention is to provide an auxiliary table construction for use with a sheet metal shear table in which a combined means is provided for hinging the support table structure to the shear table and for assisting in supporting the support structure from the sheet metal shear table.

And a final important object of the invention is to specifically enumerate herein, resides in the provision of an auxiliary support structure for a sheet metal shear table in which one or more auxiliary support tables shall be pivotally mounted upon and partially supported by the sheet metal shear table with their tops disposed above that of the shear table whereby horizontal swinging movement may be imparted to the support tables into positions either above or to one side of the sheet metal shear table.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view showing a preferred manner of applying the principles of this invention, the same illustrating the particular manner in which a pair of auxiliary support tables may be detachably pivotally secured to and partially supported by a sheet metal shear table;

Figure 2 is a detailed view taken upon an enlarged scale substantially upon the plane indicated by section line 2—2 of Figure 1 and showing in particular the pivotal mounting means by which a support table is connected to the sheet metal shear table;

Figure 3 is a top plan view of the arrangement of Figure 1, alternative positions of the support tables being shown in full and dotted lines therein, and their relative swinging movements being indicated by the arrows; and

Figure 4 is a fragmentary group perspective view showing the detachable pivotal connecting means of the support table and the shear table.

Referring first to Figure 1 it will be seen that the sheet metal shear table indicated generally by the numeral 10 is of conventional construction, the same including a flat top 12 which is supported by a plurality of legs 14 and is provided with brace members 16. Customarily this table is conveniently associated with and positioned approximate to sheet metal shears and the like. In accordance with this invention, the top 12 is provided with a plurality of apertures 18 which constitute a part of the pivotal connection of the auxiliary support tables each indicated generally by the numerals 20, as set forth hereinafter.

Each support table has an open frame top, preferably right angular in shape, and composed of angle iron members 22 joined at their ends. Two of the corners of the triangular tops are supported by legs 24 provided with casters 26, while a third corner is pivotally connected to the top of the shear table 12.

The pivotal connection for this purpose is shown best in Figures 2 and 4 and consists of a pin having a cylindrical upper portion 28 welded or otherwise secured to a pair of frame members at their joint, and is provided with a depending diametrically reduced pin or cylindrical portion 30. The junction of the portions 28 and 30 provide an annular bearing surface 32. The pin 30 constitutes a hinge member which is detachably received in a selected aperture 18 in the top 12 of the shear table, while the annular surface 32 constitutes a bearing surface which is adapted to rest upon the table top, as shown in Figure 2.

The legs 24 are of such length and the pivot pin is of such dimensions that the tops of the support tables are positioned at an elevation slightly above that of the top of the shear table, whereby each support table may be swung in a horizontal plane to cause its top to be positioned either overlying or to one side of the shear table top.

As indicated best in Figure 3, it will be seen that by means of the casters one or both of the auxiliary support tables may be swung horizontally to various positions, as from the full line to the dotted line positions. Thus, a stack of metal sheets to be cut by a shear can be easily moved with respect to the sheet metal shear table, thereby greatly facilitating the handling of the sheets and reducing the extent of labor required.

It will be observed that the pivot means constitutes both a means for hingedly connecting the support tables to the shear table, and also constitutes a part of the support means for the support table. The device can be readily moved into a compact position by swinging the support table tops over the shear table top, and the support tables can be readily removed or disconnected from the shear table top.

What is claimed as new is as follows:

1. An auxiliary support for a sheet metal shear table of the type having a flat, unobstructed top together with supporting legs therefor, said auxiliary support including a supporting framework constituting a top and a pair of legs supported by casters and secured thereto, a pin shank detachably seated in an opening in the shear table top adjacent and inwardly of a leg thereof, the top of said support table having a socket remote from the legs of the support table, said support table having its top disposed higher than that of the shear table with said pivot pin engaged in said socket whereby said support table may be swung horizontally about said pivot pin to dispose its top in positions overlying and to one side of the shear table top.

2. In combination, a sheet metal shear table having a flat, non-circular, unobstructed top with supporting legs secured at the corners thereof and a pair of support tables pivoted to said top for horizontal swinging movement, each support table having a pair of caster supported lugs and a top carried thereby, each support table having its top higher than that of the shear metal table, the top
of the latter having openings therein adjacent and inwardly of its support legs, each support table top having a pivot pin depending therefrom and receivable in one of said openings whereby each support table will be carried by its pivot pin and support legs and may be swung horizontally about its pivot pin to dispose its top to positions at one side of or overlying the top of the shear table.

3. The combination of claim 1 wherein the top of said support table is a polygonal shaped open frame, said pivot pin and said pair of support legs being each disposed at a corner thereof.

4. The combination of claim 1 wherein said pivot pin having a diametrically enlarged portion received in said socket and supporting the support table top, an annular bearing shoulder at the junction of the shank and enlarged portion and engageable upon the shear table top.

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