

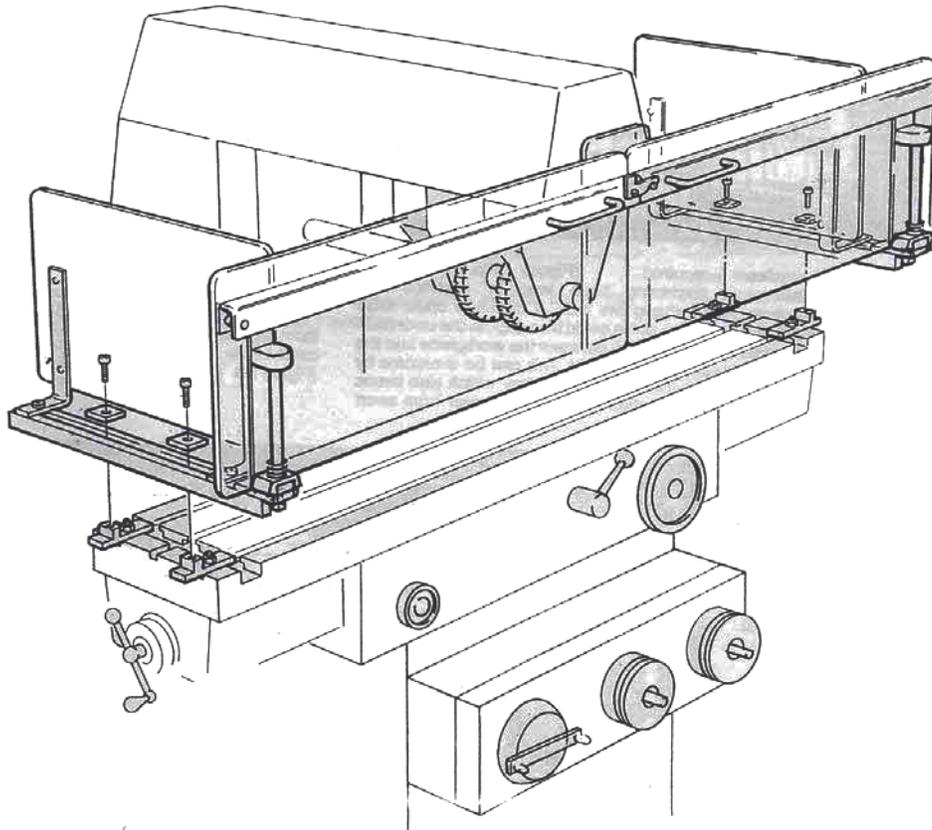


FLEXBAR TOTALGUARD

MADE IN THE U.S.A.

SLIDE AND SWING ASIDE MILLING MACHINE GUARDS
FULLY ADJUSTABLE FOR VERTICAL, HORIZONTAL AND C.N.C. MILLS

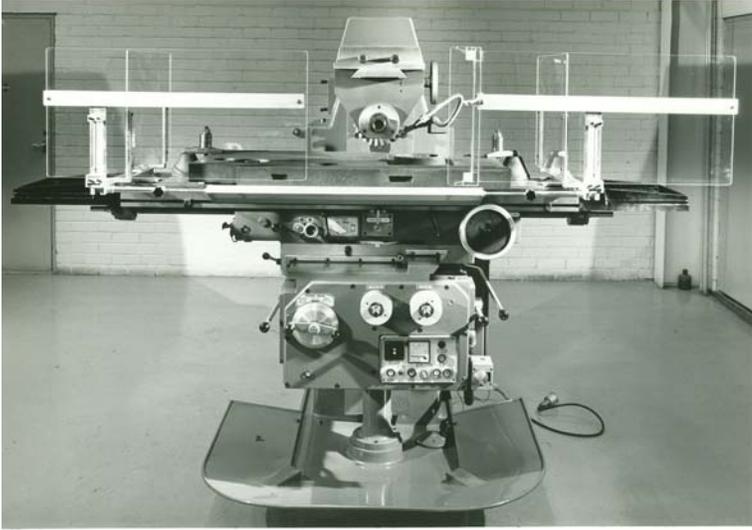
**ALL PANEL HEIGHTS NOW 23 5/8" TALL
: ACCEPTS LARGER PARTS SAFELY**



THE FLEXBAR RANGE OF SLIDE AND SWING ASIDE MILLING MACHINE GUARDS

- Fits most milling machines - Horizontal, Vertical, Universal, C.N.C. and Specialized.
- Adjustable mountings to accommodate components of all sizes.
- Patented construction allows immediate access to the whole of the table bed - yet takes up no more width than the table itself.
- Made in the U.S.A.

FULLY ADJUSTABLE GUARD FOR VERTICAL, HORIZONTAL & UNIVERSAL MACHINES



This is the first guard of its kind which enables either small workpieces or large castings fitting and overhanging the milling machine table to be completely protected but at the same time giving immediate and complete access to the piecepart or casting being machined.

THE GUARD

Most guards consist of two front sliding panels and two fixed panels, one fixed at either end of the table, all made from high impact resistant polycarbonate.* These are formed as two separate complete assemblies mounted at either end of the table.

These assemblies can be mounted or removed in a matter of a few minutes by means of two locking T-bolts and nuts at either end of the table. (Figure No. 6-next page)

Each of the front panels can slide to the right or left and swing aside on their own axis out of the way, finishing in a position parallel to the end panels and at right angles to the front of the table. (Figure No. 4).

The advantage of the SLIDE AND SWING ASIDE MOVEMENT is that you can obtain immediate access to the whole length of the table for loading and unloading large workpieces and although the panels slide aside they will not take up any more room than the actual length of the table itself, as the sliding and swing aside movement takes place in one operation.

Where large castings are being machined that overhang the table you can slide the guard forward and lock in to the position required (Figure No. 6).

*Alternative materials available. High impact PVC, Paction, etc.

When machined large irregular castings that overhang the table a situation could arise where there could be a gap on the underside of the guard between the workpiece and the front of the guard. This can be overcome by the fitting of a splash tray which also keeps the operator and machine clear from swarf and coolant.

THE GUARD CONSTRUCTION

The guard construction is supplied in two separate assemblies which are mounted at either end of the table. A plate fitted with two locating studs having an equivalent diameter to the width of the table slots is positioned at each end of the table in one of the T-slots and the parallel guard sole bars are clamped to the plates by two socket cap screws. (Figure No. 6).

The two parallel sole bars support a kingpost to which a pivoting bracket is fitted supporting a ball bearing sliding track to which the polycarbonate transparent front panels are fixed. (Figure No. 6)

The sliding parallel sole bars enable the guard to move backwards and forwards to cater for vices or parts which overhang the table. (Figure No. 6)

This is achieved by loosening the two socket cap screws at either end of the table permitting the complete guard assembly to be repositioned after which the socket screws are tightened. (Figure No. 6)

For normal milling operations the guard should be clamped in position against the front edge of the table.

Where the two panels meet and overlap a catch is provided which automatically holds them together. Prior to opening the panels the catch has to be released by hand. (Figure No. 1)



The Slide & Swing Aside gives immediate easy access.

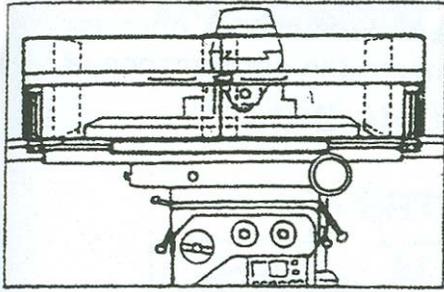


Figure No. 1
Guard in closed position. Note: Quick release catch holding the two front panels together also the special transparent overlap between the two panels for added protection.

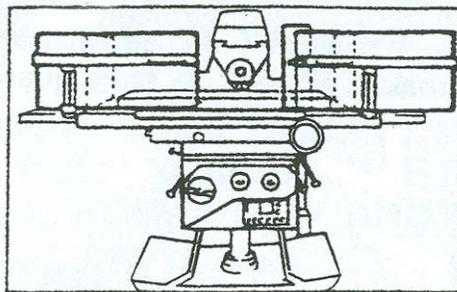


Figure No. 2
Each front panel slides aside giving access to the table and cutter.

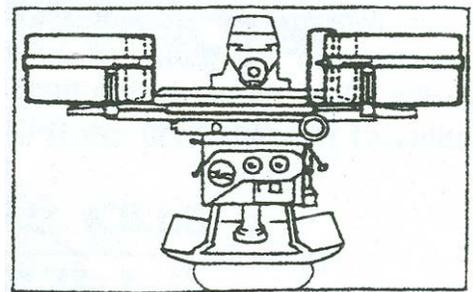


Figure No. 3
Two front panels slide aside to maximum opening position prior to swinging aside.

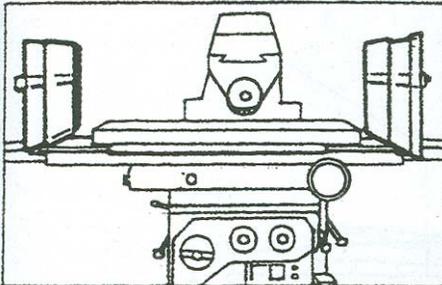


Figure No. 4
Two front panels swung aside parallel to the side panels and at right angles to the front of the table. Note: This position gives maximum access to the table allowing large components to be loaded and unloaded without obstruction.

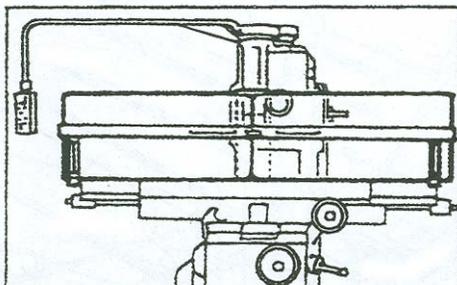


Figure No. 5
Guard in closed position fitted to heavy duty milling machine.

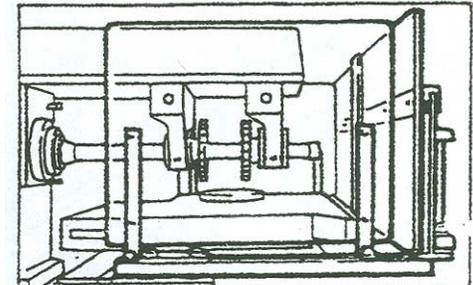
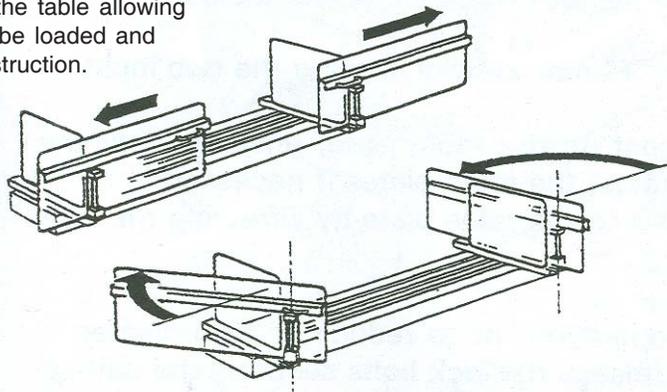


Figure No. 6
The parallel sole bars supporting the front kingpost assembly are held in position by socket cap screws to table clamps fastened in the machine slots. The guard has been extended away from the front of the table to its maximum position to accommodate a casting with a big overhang at the front of the table. The side panel guard is held rigidly in an upright position by two brackets which are clamped to the parallel sole bars by a single screw quick release fastener.



This unique patented construction allows the front panels to slide and swing aside revealing the whole of the table bed. Available in three sizes to fit table lengths from 32" to 76" or even longer.

There are several front panel positions available to the operator which are as follows:

- A. Guard closed no access to table (Photograph No. 1)
- B. Front panels slide aside giving an operating for either: a) cutter adjustment, b) for loading or removing small pieceparts (Photograph No. 2)
- C. Front panels fully slide aside for access to table. You would only use this position if there was ample room for the panels to extend beyond the width of the machine and also if the full length of the table is not being utilized. (Photograph No. 3)
- D. Panels open and swung aside at right angles to the table giving.

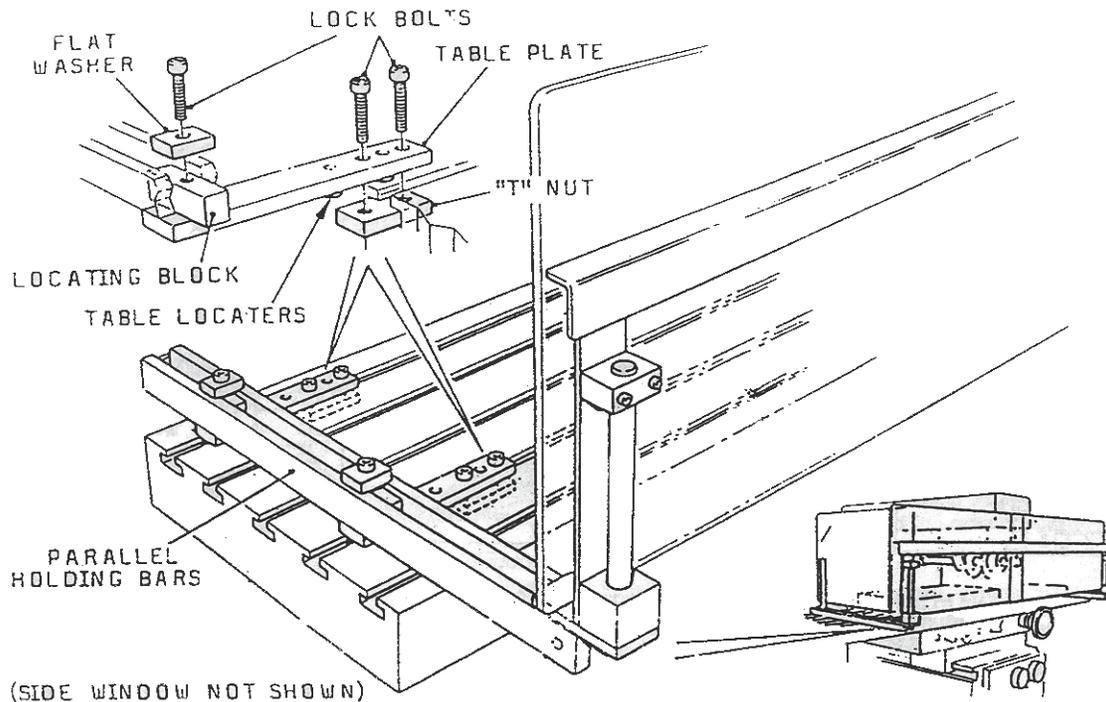
On bed type milling machines where the table length is well in excess of 78"mm, it is still possible to use the 13080-H as in many instances only part of the maximum length of table is utilized. Special guards are available for machines with greater table lengths.

For a table less than 635mm the 13088-H guard may be used but the front panel will extend slightly to one side of the table.

These guards have been designed to give maximum protection to the operator and this will be noted in Dimension 'H' which gives the height of the guards (other heights available). As standard, the guard is supplied without a back guard.

Slide and Swing Aside Milling Machine Guards FULLY ADJUSTABLE FOR VERTICAL, HORIZONTAL AND C.N.C. MILLS

The Slide and Swing Aside guard has been designed to meet the stringent guidelines laid down by both legal requirements and industrial necessity. Manufactured using clear industrial safety Lexan, this table mounting guard gives all round visibility, immediate access and maximum operator protection. Its unique design ensures that at no time does the guard impair the performance or versatility of the machine.



1. Remove all packing material from the guard.
2. Locate the two left hand table plates squarely on the left hand side of the table in the two "T" slots of your choice.
3. Provisionally fasten them using the lock bolt and "T" nut, initially aligning the two locating blocks parallel to the edge of the table.
4. Place the parallel holding bar chassis and kingpost on the table plate, ensuring that the locating block runs between the parallel bars. Adjust the table plates if necessary.
5. Provisionally fasten the parallel holding bar chassis to the table plate by screwing the lock bolts into the threaded hole in the locating blocks.
6. Repeat operations 2-5 for the right side of the guard.
7. To align the front window and ensure smooth operation, or to reduce or gain clearance between the front window and the table, simply release the lock bolts securing the parallel bar chassis to the table plates and slide the assembly to the required position and retighten the lock bolts. If greater clearance is needed at the ends of the table, extra long fixing plates can be provided.
8. To reduce or gain clearance between the side panels, release the lock bolts and "T" nuts securing the fixing plates to the table and adjust the assembly to the required position and retighten the lock bolts. If greater clearance is needed at the ends of the table, extra long fixing plates can be provided.