

Tannewitz

TYPE U
and U-S

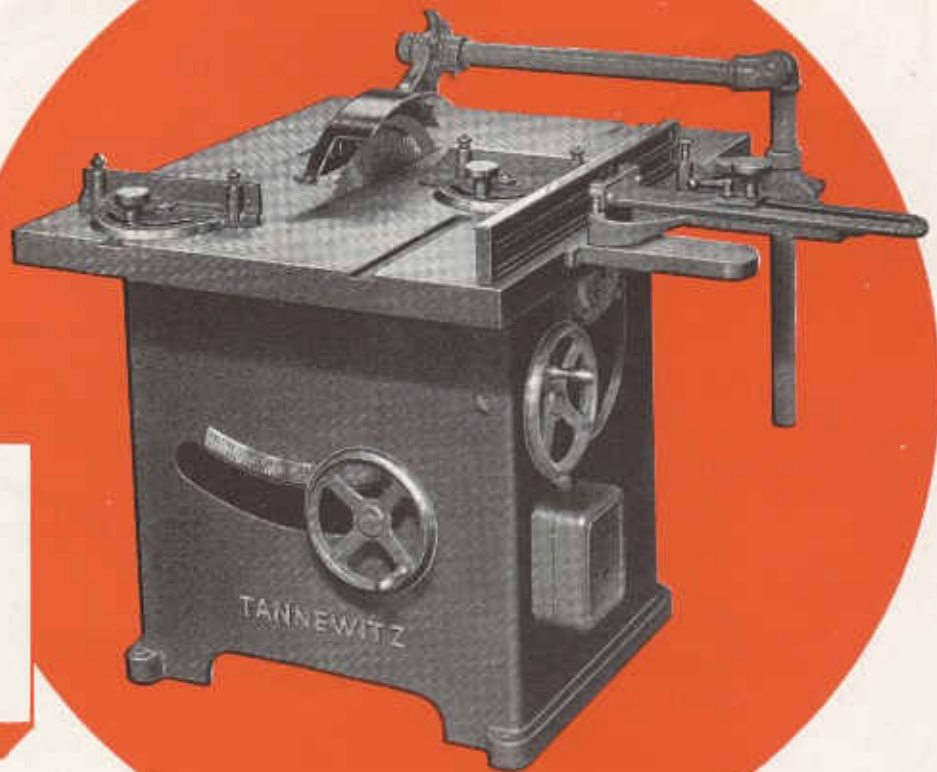
**TILTING ARBOR
MITRE SAW BENCHES**

*Designed for the "HIGH QUALITY
at LOW COST" Buyer*



TYPE U

Note: The Type "US", shown on the cover of this bulletin, and the Type "U" shown here, are identical except that the former has a sliding table and the latter has a solid table.



Tannewitz Tilting Arbor Mitre Saw Benches types "U" and "US", in spite of the fact that they are extremely modestly priced, are precision built in every detail, very sturdy and embody many advanced features of construction.

A perusal of the brief description which follows plus a careful comparison with any or all machines in their price range which the market affords, we believe will thoroughly convince the careful buyer that an investment in either the type "U" or "US" will buy more in the way of production, convenience of operation, accuracy and long trouble-free service than a like amount will purchase in any other mitre saw bench.

Steel Base Rigid and Vibrationless

Two pieces of hot rolled steel of $\frac{5}{16}$ " thickness are formed and then welded into one rigid unit to form this solid and absolutely vibrationless base; one that is many times stronger than if it were made of cast iron. This is a noteworthy point since performance, longevity and continued accuracy of any mitre saw bench is dependent to a considerable degree upon the solidity and strength of the base upon which it is mounted. In the picture above as well as that on the first page of this bulletin note that the base completely encloses the undertable mechanism, that handwheels are very conveniently located, and that even such small details as providing extra foot room by the cut-out in the lower base have been given scrupulous attention.

Heavy Cast Yoke on Non-Wearing Hinges

The yoke is a very heavy, rigid casting with a cored chamber in which the saw blade travels. As may be seen in the photo below, it is mounted on two heavy hinges which are very accurately machined, closely fitted, and securely held. Under all normal conditions these hinges will remain free from appreciable wear for the life of the machine. Should abnormal wear occur, however, any play which would then exist could be readily taken up. The rigid character of the yoke casting and the superior method of mounting it permits the use of a single screw tilting mechanism for tilting the saw blade to any angle from 0 to 45 degrees without danger of warping the yoke. It also insures the saw blade being in perfect alignment with the table regardless of the angle to which it is tilted.

Advanced Method of Motor Mounting and Tilting

The motor used in this machine has a machined flange on the forward housing, which permits it to be securely fastened to a bored opening in the sliding portion of the hinged yoke. Note in the illustration at right that the motor is thus very substantially supported and rigidly held.

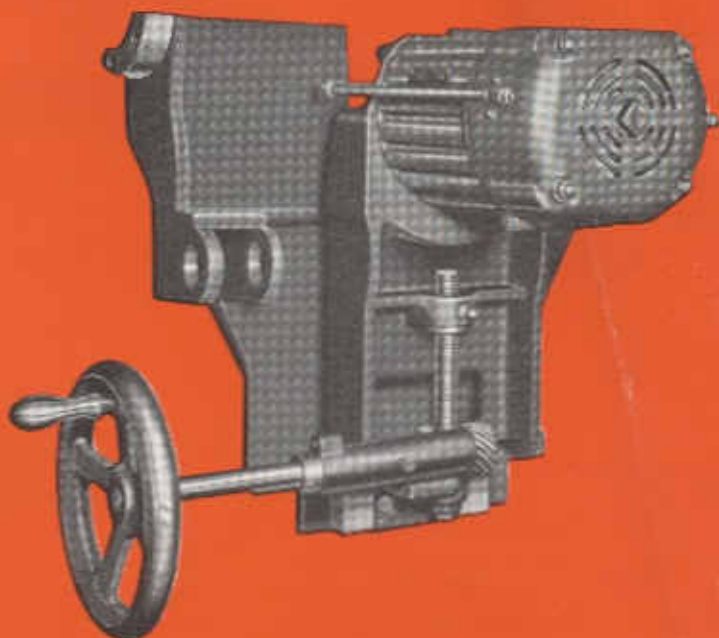
Another decided advantage of this construction is that it locates the motor with absolute accuracy in relation to the other parts of the machine. Furthermore, it makes the motor easily accessible for dismantling should the motor windings ever require replacing, or for any other reason. End of the motor is squared to take a wrench.

The tilting of the motor and yoke is accomplished by a very heavy screw and nut actuated by the conveniently located handwheel at the right of the machine. Both screw and nut are sufficiently heavy to be vibrationless as well as trouble-proof. A clamp screw is provided for locking the tilting mechanism at any point. This is absolutely positive in action and will hold the saw blade at the determined angle with complete dependability.

The motor and slide plate to which it is attached is raised and lowered by means of the handwheel at the front of the base. The movement is in gibbed ways with set screw takeup for wear. The gearing used in this mechanism is of the spiral type, self-locking and dust-proof.

Highly Developed Totally Enclosed Fan Cooled Motor

Tannewitz Types "U" and "US" Tilting Arbor Mitre Saw Benches are regularly furnished with 5 H.P. motors though



3 H.P. motors may be had if so desired. They are unquestionably the finest motors for use in mitre saw benches available anywhere — the product of long experienced specialists in the manufacture of motors for the woodworking industry. Each motor is completely enclosed and has a large integral fan for external cooling. Arbor is mounted on oversize ball bearings. Top of motor is flat to allow extra saw clearance. They are exceedingly smooth, quiet running motors and bound to give exceptionally long and trouble-free service. Control is by push-button with overload and no voltage protection.

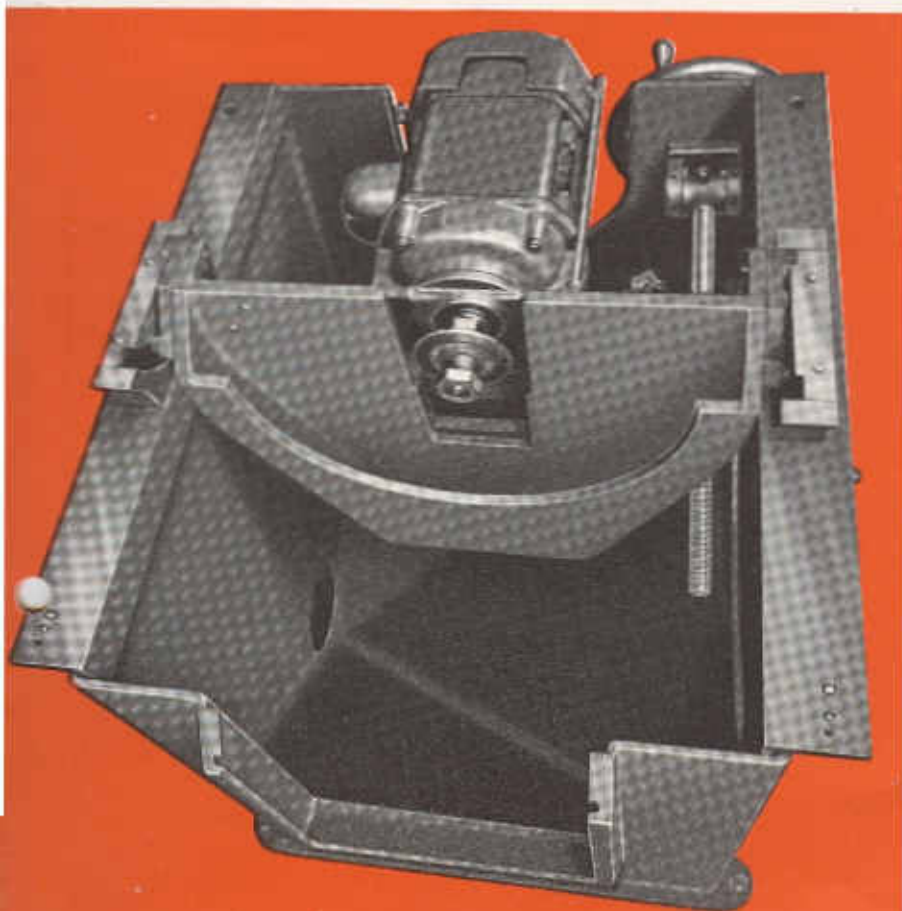
Stub Arbors for Dado Heads up to 3" Wide

The motor shaft is provided with removable stub arbor ends. The one furnished as standard equipment is long enough for saw blades only. A longer stub arbor, however, is available which will accommodate dados up to 3 inches wide. Note: Stub arbors are usually furnished 1-inch in diameter at the point saws are applied, but they may be had with any diameter desired upon special order. Dado stub arbors can also be supplied with filler collars to take care of any dado heads within the capacity of the stub arbor.

Very Efficient Dust Removal

A steel dust collector extending over the entire lower part of the base slants downward towards a large central opening at the back of the machine. This construction plus the fact that the entire base is enclosed makes for complete and efficient dust removal.

Left: View with top removed looking down into base.



Accurate, Warp-proof Table

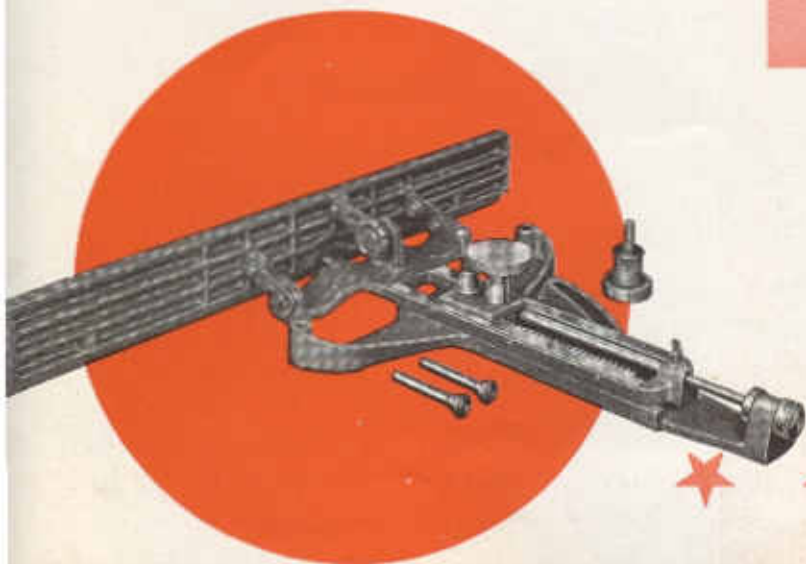
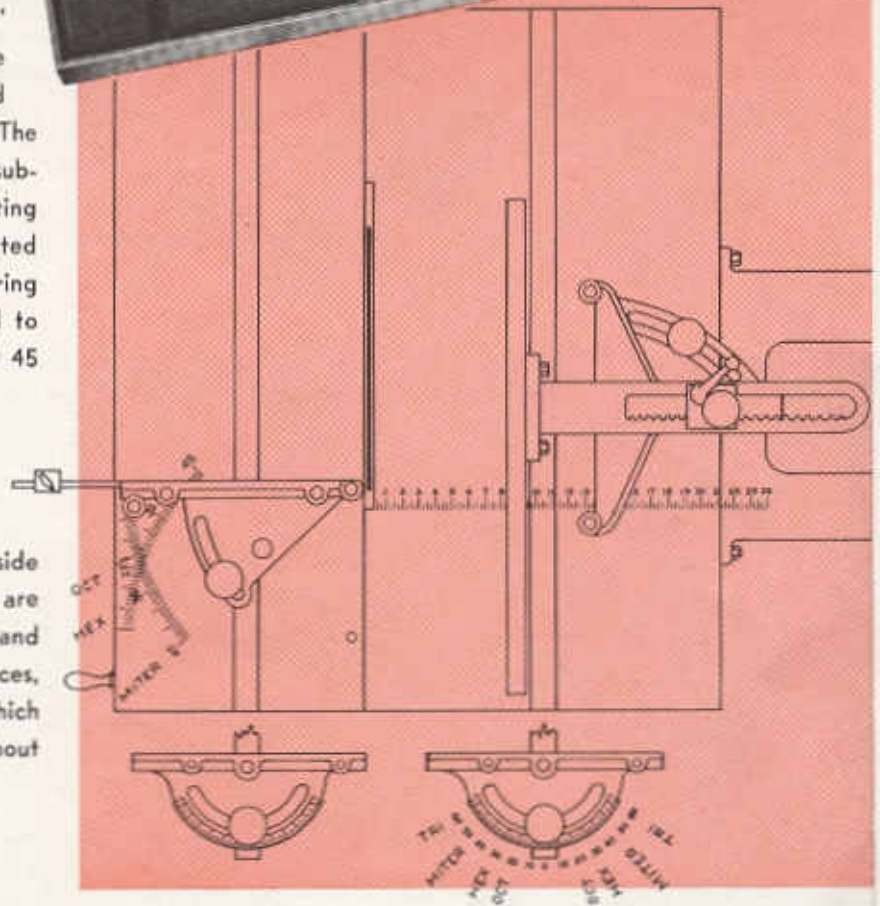
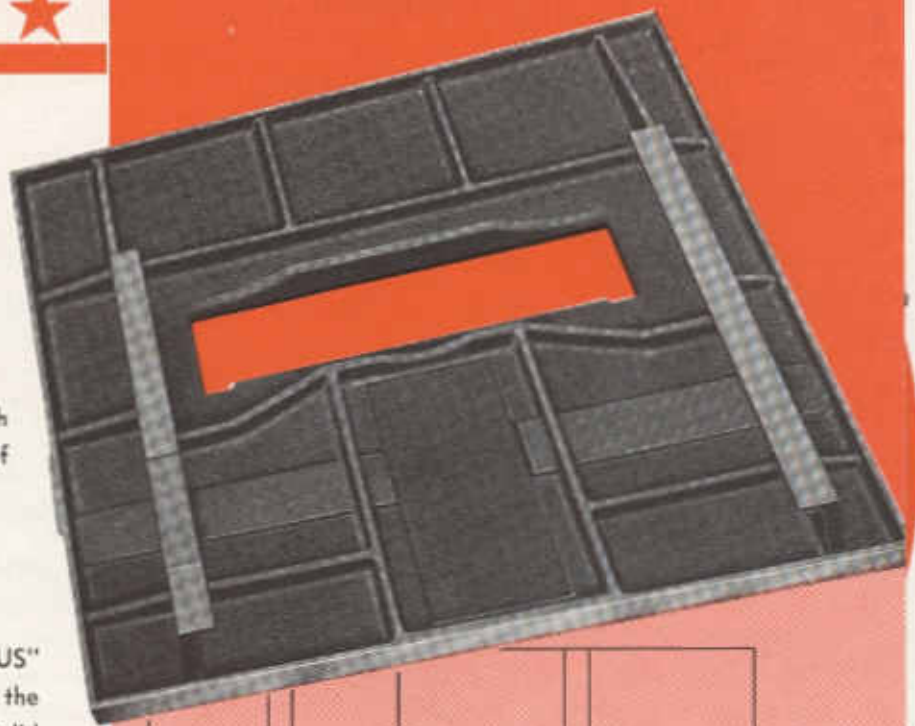
The underside of the table is exceptionally well ribbed and provided with two flanged ribs which fasten securely to the base — positive insurance that the table will remain true for all time. The surface is accurately ground, beautifully flaked and graduated in inches to the right of the saw blade up to the full capacity of the machine which on standard models is 24 inches. Overall size of the one-piece table is 37" x 43".

Sliding Table

The construction of the table used on the Type "US" is similar to that used on the Type "U" except that the left section is sliding and expands 3" from the solid section of the table to permit the use of dado heads. The slide table which measures 15" x 43" is mounted on a sub-table adjustable through a rack and gear lever operating device located on the front of the machine. It is mounted on six adjustable, self-oiling, dustproof, ball bearing rollers. Top of the slide table is drilled and reamed to take a taper pin miter square, at square, 22½, 30, 45 and 60 degree angles.

Universal Gauges

Two universal gauges of high quality, one for each side of the saw are furnished as regular equipment. They are accurately graduated from 0 to 60 degrees right and left, fitted with square stop rods set flush with the faces, and provided with T-shaped gauge strips ⅜" thick, which permit the gauges to be drawn clear of the table without falling on the floor.



Non-Tilting Rip Fence

The non-tilting rack-adjusted ripping fence, which is standard equipment, can be adjusted very minutely and will be found very satisfactory for the run of work. For those, however, who desire a tilting fence with or without mike, we recommend the one shown at the left.

Ready Access to Saws

The semi-steel throat plate which is perfectly flush with the rest of the table is supported on ledges around the throat. By simply lifting this out the arbor end is exposed and ample clearance is provided for changing saw blades.

Saw Blade Guard Curved Steel Splitter

Full protection is afforded the operator by the rigid type overhead guard (may be swung out of the way) and the steel splitter back of the saw blade. These are furnished as regular equipment. For states that require automatic

guards we are able to furnish one of exceptional merit which rises and falls as the work passes under it and which has a row of anti-kickback dogs back of the cage guard in addition to a splitter back of the saw blades.

A Quality Product in Every Detail

Not even the minor details are overlooked in the construction of these machines. For instance: The handwheels are a full 10" in diameter, turned and polished, and equipped with swivel steel handles for easy use. Either of them is an exceedingly lot of mitre saw bench for the money.

See specifications on the rear page.



★ SPECIFICATIONS ★

TANNEWITZ TYPE "U" TILTING ARBOR SAW BENCH

Specifications

Net Weight, 1350 lbs.
Crated Weight, 1500 lbs.
Boxed Weight, 1600 lbs.
Size of Box, 56 cubic feet.
Size of One Piece Table, 37 x 43 inches.
Size of Slide Table 15 x 41 inches.
Size of R. H. Table Section 20 x 41 inches.
Slide Table rolls on 6 adjustable self oiling Ball Bearings.
Overall Width, 53 inches.
Table expands 3 inches for dados.
Ripping Capacity, 24 inches.
Cutting Off Capacity, 30 inches.
Height of Table, 35½ inches.
Size of Base at Floor, 27½ x 32½ inches.
Size of Arbor where saws are applied, 1-inch.
16-Inch Saw Projects 4 inches.
Largest Saw that can be used, 20 inches.
10-Inch Saw Projects 1-inch.
10 Inch or 12-Inch Dados Recommended.
4-Inch Vertical Saw Adjustment.
Alemite Lubrication.

Equipment

5 H.P. Woods-Tannewitz A.C. motor, fully enclosed and externally ventilated.
Cutler-Hammer Push Button Control with overload and under voltage protection.
16-Inch Diameter Cross-Cut Saw Blade.
B-13-A and B-14-A Universal Mitre Gauges, graduated 60 degrees right and left, complete with stop rods.
F-407 Non-Tilting Rack and Gear Adjusted Rip Fence, held in place by two taper pins and clamp knob.
Curved Steel Splitter and Rigid Overhead Guard.
10-Inch Handwheels with Swivel Handles.
Tee-Shaped Gauge Strips, ¾-inch thick.
6-Inch Dust Outlet in rear of Base.
One Set of Wrenches.

Available Equipment

3 H.P. A.C. Motor.
36-Inch Ripping Capacity.
4-Inch Dado Stub Arbor.
B-435 Tilting Rip Fence with or without mike.
Automatic Cage Guard with Anti-Kickback Dogs.



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Printed in U.S.A.

THE TANNEWITZ WORKS, GRAND RAPIDS, MICH.