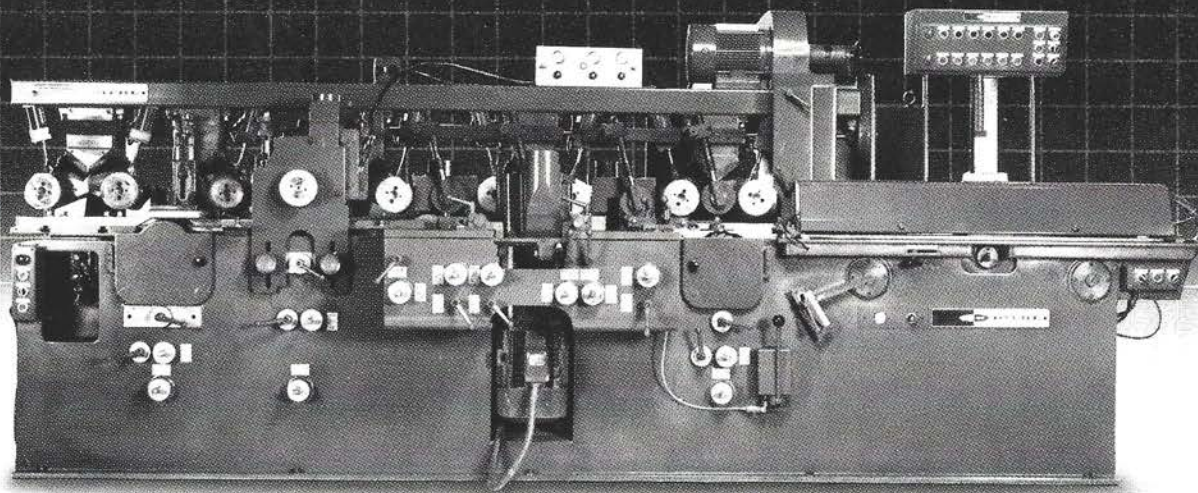


THE ALL-AMERICAN THROUGH-FEED MOULDER WITH THE LATEST STATE OF THE ART FEATURES

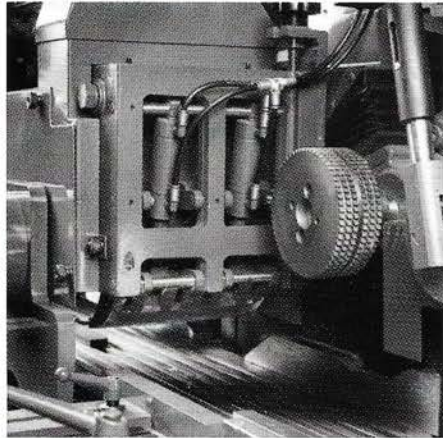


THE DIEHL TFM SERIES

SIX & SEVEN HEAD MODELS

16 Reasons To Choose The Diehl TFM Through-Feed Moulder.

1. The combination of outstanding features and quality construction provides the means for eliminating most pre-surfacing and trimming operations ahead of the moulder. And still get a good finish and close tolerances in the finished product. Provides greater flexibility in the manufacturing process and better lumber yield.



2. Get precision machining of glued, twisted, warped, rough stock and uneven ends with Diehl's grooved bed guiding system. Reduces set-up time by eliminating the need to use right and left side guides. Most material as short as 8½" can be run using the grooved bed. On uniform material a ⅛" groove is all that is required to maintain control of the stock. A deeper groove may be required on twisted and warped material. The grooved bed has a ⅛" land to the right guide side and stock as narrow as ½" can be run on top of the bed without utilizing the grooving cutter. The grooved bed with less contact surface area makes feeding easier when the groover is not used.

3. Feedrolls are driven through direct drive worm/spur gear units providing a positive, smooth material feed. The gear units are sealed with oil bath lubrication of the high speed gears. High maintenance universal joints are not required and the beam area is less cluttered providing better access for operating and maintenance person-

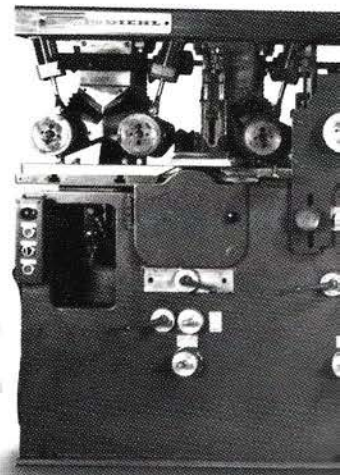
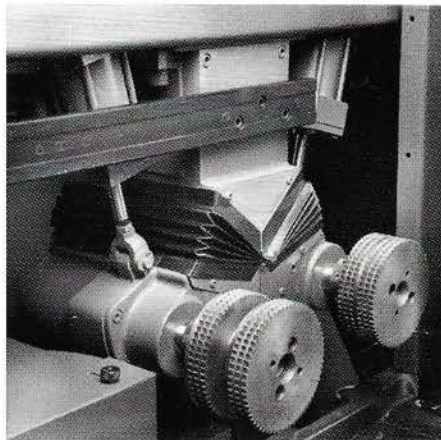
nel. Add-on feedroll components handle various stock widths without shaft interference on narrow stock. Variable feed speeds from 20 to 150 FPM.

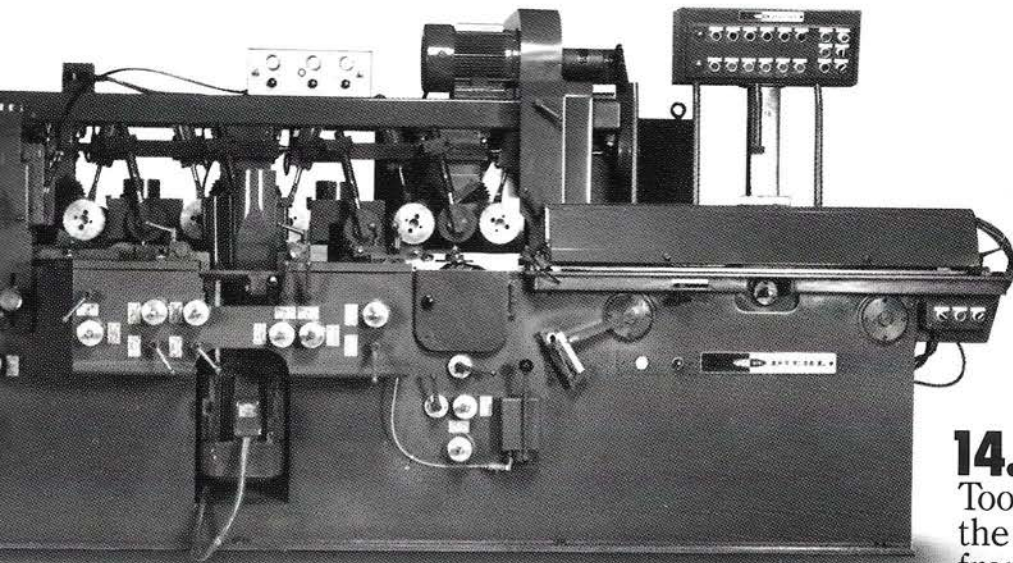
4. Feedrolls are pneumatically pressured against stock with auxiliary air valve to lift feedrolls. For quick easy access without raising the beam. Feedroll support beam is electrically operated.

5. First bottom and first right surfacing heads direct drive 3600 RPM. Profile spindles 6000 RPM direct drive with frequency convertor as standard equipment or optional belted spindles. Direct drive side head spindles tilt 30° in and 5° out. D.C. braking included as standard equipment on all direct drive spindles.

6. Precision spindle units with permanently lubricated precision bearings have integral wrench flats providing easy cutterhead locking and unlocking. On direct drive units, the integrated spindle is a rugged, rigid spindle mounted independently in its own housing—on precision ball bearings in the *same* casting—and operated as an *integral* part of the motor. All power is transmitted from the motor to the cutterhead through the enlarged middle section, and over both bearings. Bearings are pre-loaded with pressure applied directly against the bearing race, to minimize the possibility of both end and radial play. Belted spindle units include most of the features of the direct drive spindle with a C-flange motor mounted parallel to the spindle shaft.

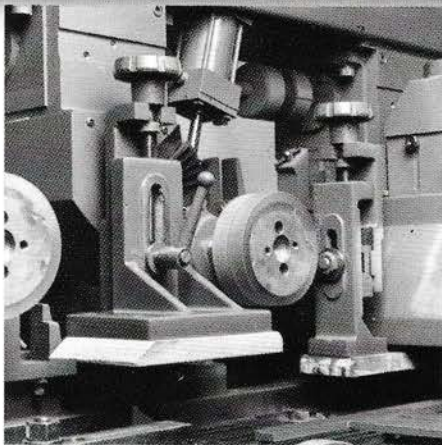
7. Chipbreaker shoes are pneumatically pressured giving constant, firm pressure even with variations in stock thickness up to ½". Separate air regulator allows operator to adjust





pressure with a turn of the dial.

8. Individual holddowns are provided after the top head(s) and over second bottom head. Adjustment for varying pressure requirements in each location are much easier with the multiple holddown arrangement.



9. All pushbutton controls are conveniently located above the hopper within easy reach of the operator. Auxiliary pushbuttons at outfeed end of machine for feed jog, feed stop, emergency stop and beam movement. Another feature reducing set-up time.

10. All locks and adjustments are conveniently located on the front of the machine with scales graduated in .001" increments. Adjustments are easy, accurate and again set-up time is reduced.

11. Dusthoods designed for efficient dust removal while providing easy access to cutterheads without removing the dust pipes.

12. Optional hydraulic locking outboard bearing for top and/or second bottom head. Added rigidity for extremely heavy cuts or for optional 1¹³/₁₆" diameter spindles.

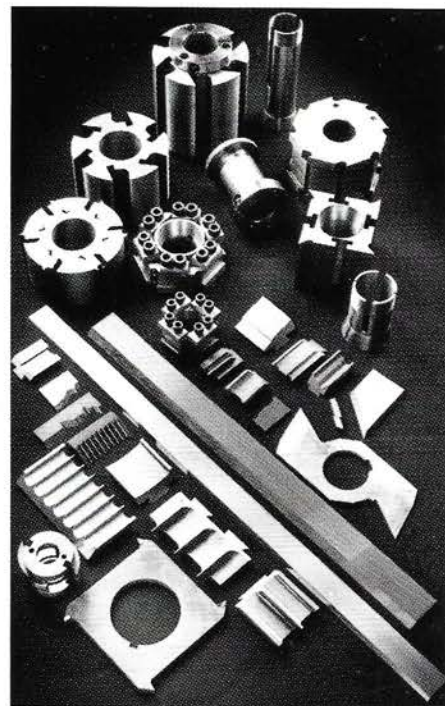
13. Optional combination ram/random hopper feed. Run random length stock from 18" with side pawl kicker or uniform lengths from 8½ to 48" with rear ram-type pusher.

14. Diehl tooling from our Graycon Tool Division. We will help you select the best tooling for your application from our wide variety of products. Graycon heads using the hydro-grip sleeve provide superior performance.

The Diehl Advantage.

15. The Diehl TFM Series is a very affordable line of through-feed moulders. The advanced technology and precision of the TFM Series enables you to manufacture a higher volume of *quality product*.

16. Diehl sales, service, engineering, and manufacturing people have a number one priority to serve the customer. Start-up, continuing service, and readily available parts are the traditions our customers have relied on for more than 70 years. Call us today.



THE SIX AND SEVEN HEAD TFM SERIES OF MOULDERS CONSISTS OF FOUR MODELS:

TFM-68

Six head, 4" x 8" capacity with head configuration B-R-L-R-T-B. First bottom and first right side surfacing heads direct drive 3600 RPM. Profile heads direct drive 6000 RPM utilizing frequency convertor included as standard equipment. D.C. braking system. Tilting side heads.

TFM-68-B

Six head, 4" x 8" capacity with head configuration B-R-L-R-T-B. First bottom and first right side surfacing heads direct drive 3600 RPM. Profile heads 6000 RPM belted spindles. D.C. braking on surfacing heads.

TFM-78

Seven head, 4" x 8" capacity with head configuration B-R-L-R-T-T-B. First bottom and first right side surfacing heads direct drive 3600 RPM. Profile heads direct drive 6000 RPM utilizing frequency convertor included as standard equipment. D.C. braking system. Tilting side heads.

TFM-78-B

Seven head, 4" x 8" capacity with head configuration B-R-L-R-T-T-B. First bottom and first right side surfacing heads direct drive 3600 RPM. Profile heads 6000 RPM belted spindles. D.C. braking on surfacing heads.

MACHINE SPECIFICATIONS FOR MODELS TFM-68 AND TFM-78:

Standard HP top and bottom head motors (20 HP optional) 15 HP
Standard HP side head motors (10 HP available) 7-1/2 HP
Tilting right and left side heads 30° IN 5° Out

MACHINE SPECIFICATIONS FOR MODELS TFM-68-B AND TFM-78-B:

Standard HP top and bottom head motors (25 HP optional) 20 HP
Standard HP side head motors (15 HP available) 10 HP

COMMON SPECIFICATIONS MODELS TFM-68, TFM-68-B, TFM-78 AND TFM-78-B:

Feedworks—variable speed drive, feed range 20 to 150 fpm 5 HP
Spindle diameter—side heads 1-13/16"
Maximum side head length 4-1/2"
Spindle diameter top and bottom heads 2-1/8"
Maximum top and bottom head length 8"
Minimum cutting circle, all heads 6"
Maximum cutting circle, side heads 7-1/2"
Maximum swing, side heads 8-1/2"
Maximum cutting circle, top head 8"
Maximum swing, top head 9"
Maximum cutting circle, bottom heads 9"
Maximum swing, 1st bottom head 10"
Maximum swing, 2nd bottom head 11"
Vertical adjustment, top head 5"
Vertical adjustment, bottom heads 2"
Vertical adjustment, side heads 1-1/4"
Horizontal adjustment, top and bottom heads 1-1/2"
Maximum output size 4" x 8"
Minimum output size, grooved bed 3/8" x 1-1/2"
Minimum output size—top of grooved bed 3/8" x 1/2"
Overall dimensions TFM-68 172-1/8"L x 73-1/4"H x 66-1/8"W
Overall dimensions TFM-78 196-1/8"L x 73-1/4"H x 66-1/8"W
Shipping weight 12000 to 15000#

Diehl Machines reserves the right to change TFM Series product specifications without prior notice.



DIEHL MACHINES

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