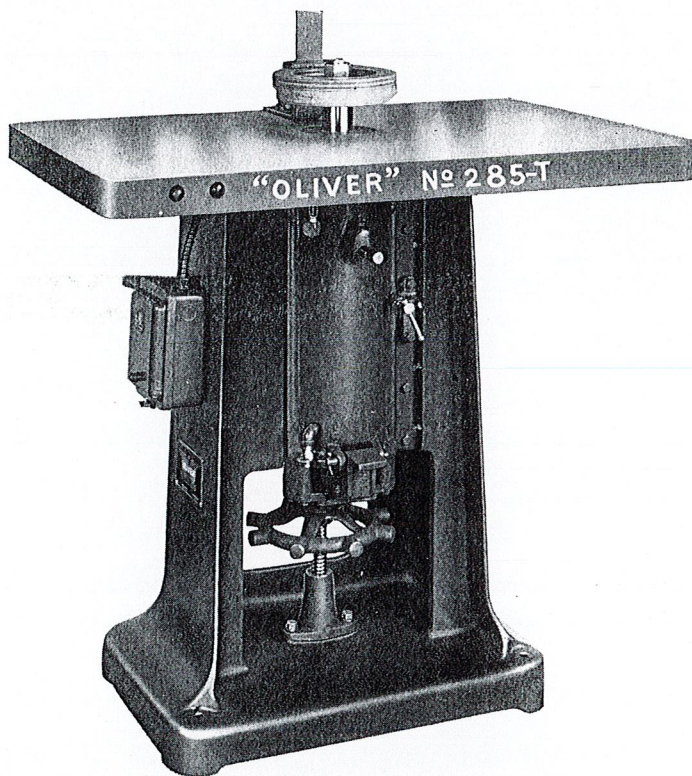


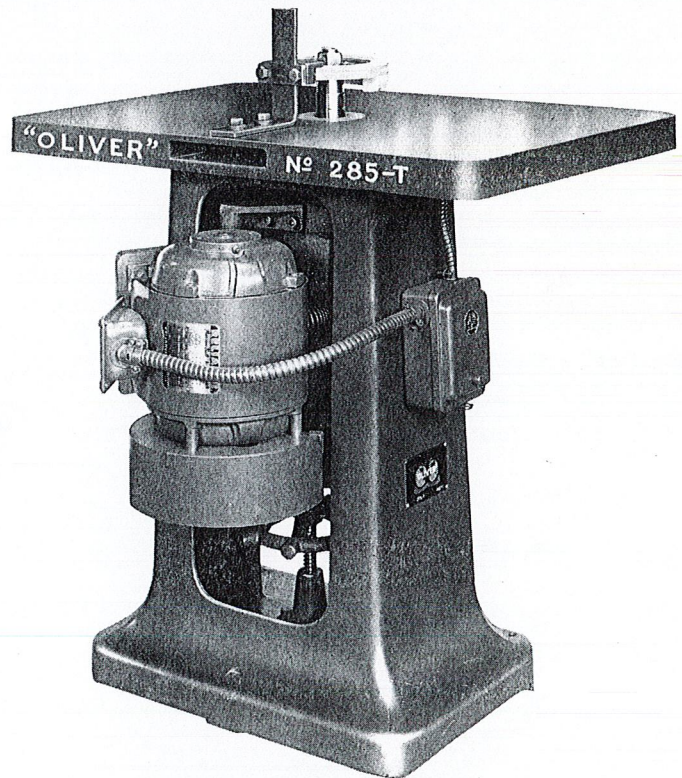
OLIVER

No. 285

Single Spindle Shaper



Front view of No. 285-T Shaper with flexible belt drive.



Rear view of No. 285-T Shaper. Notice the sturdy construction.



OLIVER MACHINERY COMPANY, GRAND RAPIDS 2, MICHIGAN, U.S.A.

A sturdy, high-speed production Shaper

General Design

A one-piece cast iron column has three-point bearing at the floor line. It has finished, dovetailed gibbed ways to support the head unit. It also carries a heavy, well ribbed table with wide finished rim at the front and the two sides for convenient clamping of forms, jigs, guides, etc. The head unit is raised and lowered by a large hand-wheel having a substantial raising screw directly applied in a vertical line.

Belt Drive

We recommend the Oliver Flexible Belt Drive. In this type drive the shaper head spindle unit and the vertical ball bearing motor unit are supported from the same housing. The housing is supported on gibbed ways in the column. There's an automatic tension spring for the motor. This method of drive eliminates a frequency changer, 60 cycle, 220 or 440 volt current. It will operate the spindle at 7200 r.p.m.

Safety Features

An effective yet simple shaper guard is furnished on L-shaped heavy spring-steel holder with suitable clamps for raising and lowering. It circularly guards any portion of the cutter above the work. The operator cannot run his hand into the knife while feeding the stock, because the top ring is easily adjusted to rest on the top of the work. It acts as a hold-down as well as a safety guard. A suitable brake is provided at the lower end of the spindle to stop the spindle immediately after the electric current is shut off. A totally enclosed guard is furnished for the pulleys and the flexible belt.

Spindle

The spindle is made of special alloy steel ground true. It is ball bearing, totally enclosed. The upper end is threaded to receive the detachable spindle which can be screwed on much the same as a face plate is screwed on the spindle of a lathe. It has a collar to draw up against to assure rigidity and perfect alignment. The de-

tachable spindle is also made of alloy steel, ground true, having the lower end fitted with a threaded bore to fit the main spindle. At the lower end of the spindle is a foot brake to stop the spindle immediately after the current has been shut off.

Bearings and Lubrication

The highest type of precision ball bearings is used. A filtered thin oil lubricant is automatically applied as needed from suitable reservoir.

Electrical Equipment

Automatic push button remote control with low voltage protection and overload relay is furnished mounted on the machine and wired to the motor. Motor is 2 h.p., 3600 r.p.m.

Equipment

The regular equipment includes a 1 1/8-inch detachable spindle, one pair of knife collars 2-inch diameter, three filling-in collars (one each 1/2-inch, 3/4-inch and 1-inch thick), one table ring (reversible with rub collar on one side, plain on other), quick adjusting shaper guard, locking plug, oil cups and necessary wrenches.

GENERAL DIMENSIONS

Spindle

Revolutions per minute	7200
Vertical adjustment	4 inches
Spindle capacity under the nut	4 3/4 inches
Diameter of detachable spindle.....	1 1/8 inches
Maximum knife width	3 inches
Driving belt flexible woven	2 1/2 x 44 inches

Collars

Knife collars, diameter	2 inches
Filling collars, diameter	1 7/8 inches
Width, one each, sizes	1/2, 3/4, 1 inch
Rub ring, No. 285-6-1, diameter	2 3/4 inches

Rings

Number of rings	1
Hole in ring, diameter	2 1/8 inches

Table

Size (larger if desired)	26 x 38 inches
Special larger table (5 inches added to front and rear)	36 x 38 inches
Front edge to spindle (standard)	14 inches
Front edge to spindle (special)	19 inches
Height from floor	36 inches
Hole in table, diameter	4 1/4 inches

Floor Space

.....26 x 38 inches

Horsepower

.....2 h.p.

CODE, WEIGHT, ETC.

Code	Machine Description	Weight in Pounds		Cubic Feet
		Crated	Boxed	
Faloxi	No. 285-T Single Spindle Shaper.....	950	1200	45

EXTRAS

- Adaptor and Nut, either 1/2", 5/8", 3/4", 7/8", 1", 1 1/8" or 1 1/4".
- Filling Collars for any of above adaptors 1/2", 3/4", and 1" thick.
- Knife Collars, 2" diameter regular, or other sizes on special order.
- Chuck, 9/16" threaded end, for holding carver cutters, to screw on end of spindle.
- High-speed Shaper Steel for knives.
- Solid Milled-to-Shape Three-wing Cutters, high-speed steel.



OLIVER MACHINERY COMPANY
Grand Rapids 2, Michigan, U.S.A.

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