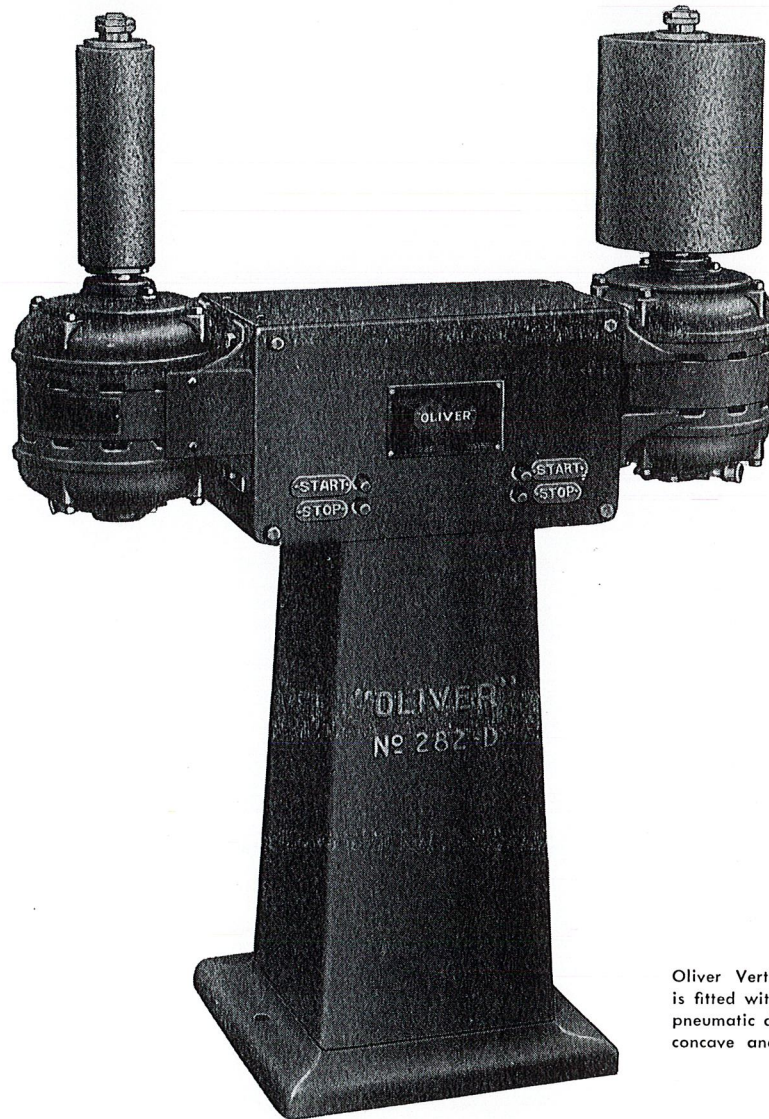


No. 282 Vertical Drum Sander



Oliver Vertical Drum Sander
is fitted with two
pneumatic drums to sand
concave and convex surfaces.

OLIVER

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49502

Pneumatic drums of Oliver Sander smooth convex and concave surfaces where curve runs with grain

The main purpose of this machine is to facilitate free-hand sanding on curved or shaped stock where the grain of the wood runs with the curve. When slightly inflated, the soft, pliable cushion of the drum readily conforms to any convex or outside curved shape. When fully inflated it forms a barrel-shaped cushion to sand concave or inside curved shapes.

In sanding many irregularly shaped pieces used in the manufacture of furniture, often there are curved pieces, such as Queen Anne legs and other irregular shapes, where the grain runs lengthwise the curve. To sand across the grain with a belt is objectionable. The Oliver Vertical Two-spindle Sander is fitted with two different sizes of pneumatic sanding drums. The small drum is used for sharp curves, the big drum for larger curves. The operator can finish the sanding of a piece in one handling. The machine can also be used as two separate spindle sanders by two operators.

COLUMN

The main column consists of two parts: the floor stand and the top piece. Both parts are of welded steel construction, fitted to give substantial support to the entire machine. In the top part — in totally enclosed dust-proof chamber — are located the two automatic push button starters that operate the motors. Both motors have low voltage protection and overload relay. At top of column are four tapped holes to receive ordinary cap screws for fastening jigs, forms, or any type of wooden table that the operator may devise to suit his needs.

MOTORS

The two motors used with this machine are of the vertical ball bearing type with dust-proof lubrication of the ball bearings. Motors are rigidly fastened, one at each end of the top part of the column. All wiring is enclosed. The motors are wired to the starters inside the column ready for use. Motors are regularly furnished for 2 or 3 phase, 60 cycles, 220 or 440 volts A.C. The 1 h.p. motor carrying the larger drum runs at 1200 r.p.m., and the one carrying the smaller drum runs at 1800 r.p.m.

SPINDLES

The two special $\frac{3}{4}$ -inch extended motor spindles are fitted with two special bushings on each spindle to carry drums either with $\frac{3}{4}$ -inch inside or $1\frac{1}{4}$ -inch hole. Locating collars and nuts with locking nuts at top are furnished for carrying drums with straight holes.

SANDING DRUMS

The pneumatic type sanding drums have a straight hole in the center, either $\frac{3}{4}$ -inch or $1\frac{1}{4}$ -inch, depending upon type and size of drum used. The outside diameter of drums can vary from 2 to 10 inches. Drums are 9 inches long. Regular equipment includes two drums. Additional drums can be bought at additional cost. The inside rubber drum has suitable valve stem for inflation with a bicycle pump. Canvas slipover for the drum protects the drum and regulates the air pressure to keep outside surface of drum in a nearly straight line with normal pressure.

EQUIPMENT

Regular equipment of machine includes two 1 h.p. motors with magnetic push button control with overload and under voltage protection mounted on machine and wired ready for use. Also one 8-inch and one 3-inch pneumatic drum.

SPECIFICATIONS

Center to center of spindles, 24 inches. Height from floor to bottom edge of sanding drums, 33 inches. Total floor space, 18 x 40 inches. Actual footing at floor line, 15 x 15 inches. Crated weight 465 lbs.

OLIVER

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49502