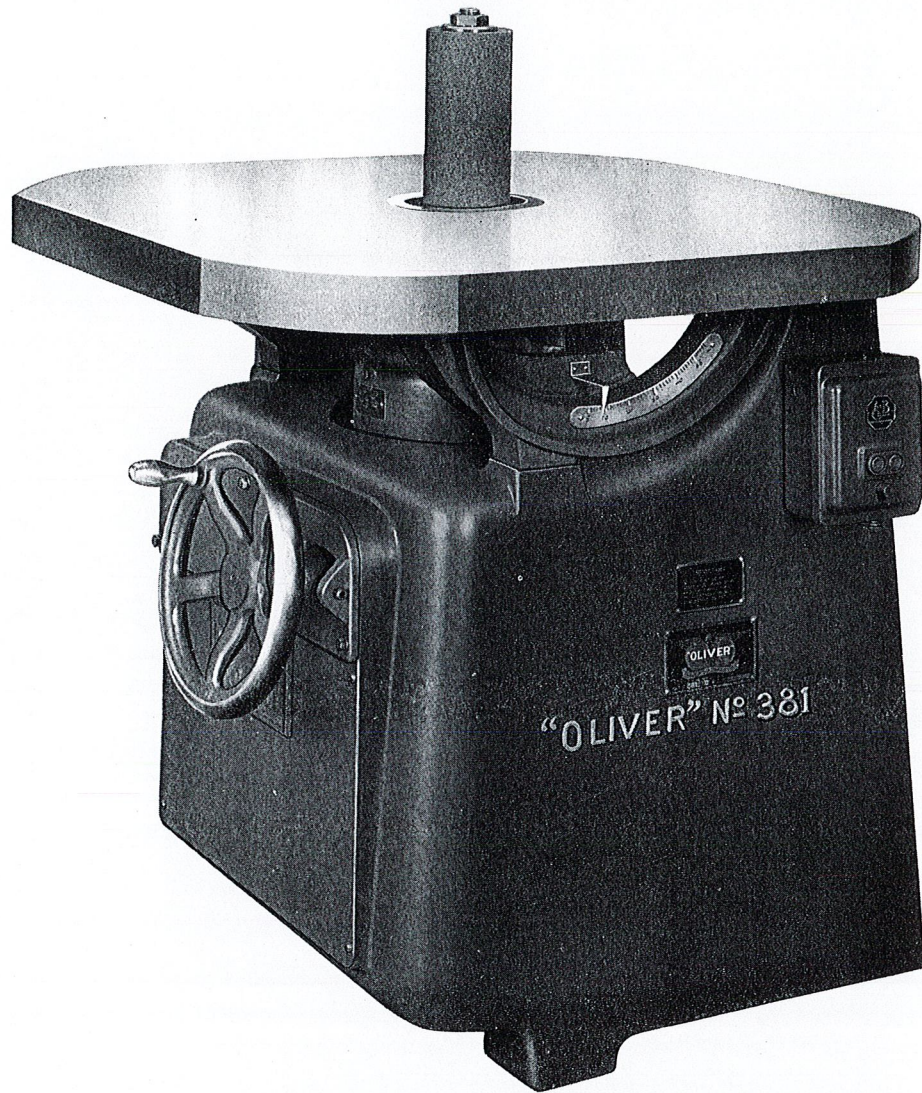




*"Every User
Is a Booster"*

"Oliver" No. 381 Heavy Duty Oscillating Single Spindle Sander and Metal Grinder



The "Oliver" No. 381 Oscillating Single Spindle Sander is heavily constructed and designed to give years of service at lowest cost.

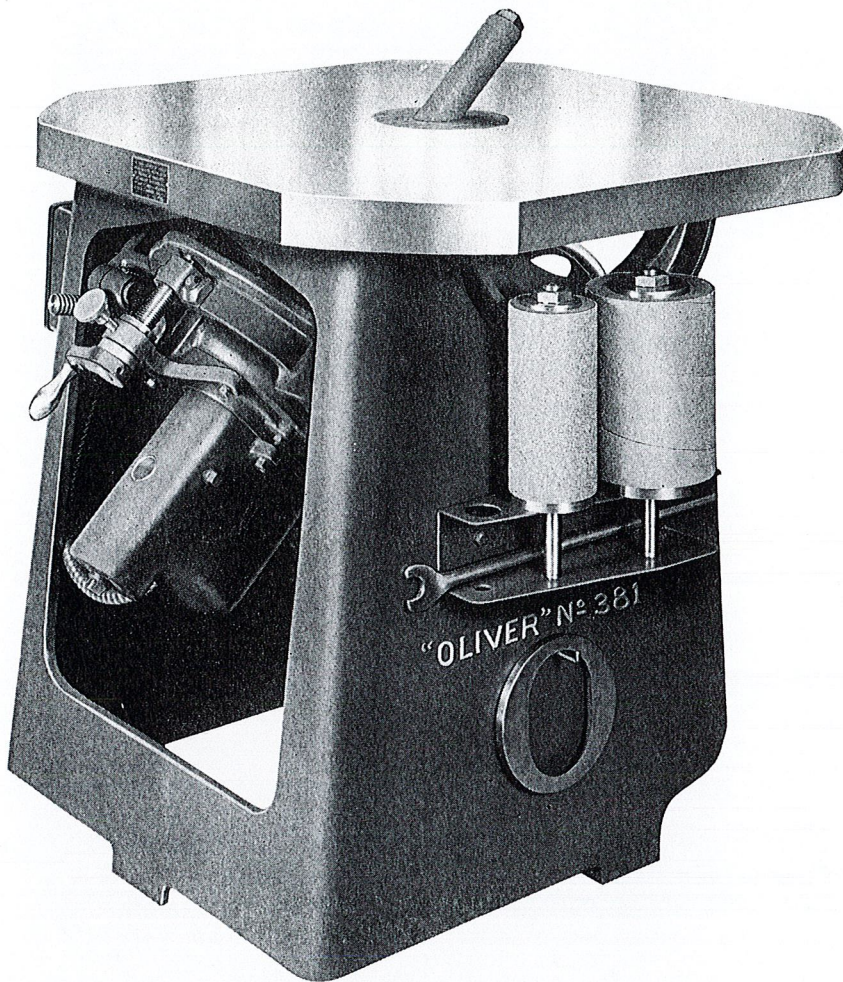
- Rigid Construction
- Modern Design
- Low Cost Operation
- Greater Efficiency

Manufactured by

Oliver Machinery Co.
Grand Rapids, Mich., U.S.A.

BRANCH SALES OFFICES:

New York, Atlanta, Pittsburgh, Cleveland, Detroit, Indianapolis, Chicago, St. Louis, Minneapolis, Denver, Salt Lake City, Seattle, Portland, San Francisco, Los Angeles.



Adaptation

The Oliver No. 381 Single Spindle Oscillating Sander has been made for the express purpose of meeting the needs of those plants requiring a heavy duty single spindle oscillating sander. Metals, plastics and many miscellaneous materials besides wood are sanded, ground or polished on this machine. The abrasive sleeves used may be paper or cloth and the abrasive sand paper, emery cloth or other smoothing abrasive material.

Design

The machine has been designed for the greatest efficiency and flexibility and to stand up under the most adverse con-

ditions. The spindle is driven directly off from the motor arbor and its oscillating motor is derived by means of a worm and oscillating worm gear.

Non-Oscillation Feature

On special order we can build in a non-oscillating unit which can be operated by merely turning a lever on the side of the gear box. This is used when special forms or shapes are to be ground or sanded in the edges of the stock.

Base

Is a one-piece cored casting having a three-point support which allows for correct alignment even where the floor is not entirely level. Two extra

large 18-inch diameter rockers are supported on top of the base that in turn support the table and form ways for tilting the spindle. By means of a hand-wheel in front of the operator, the spindle can be adjusted to any position up to 45° forward and 5° backward. The design of the No. 381 Sander permits a full 45° tilt using drums 4 inches and smaller in diameter. There is rarely occasion to use the full 45° when using drums from 6 to 10 inches in diameter, but sufficient tilt for depth on patterns, etc., is afforded for the larger diameter drums.

A shelf and hook on the left side of the machine base serves as a storage for tools, extra spindles, collars and necessary wrenches. A push button control box is mounted on the right side near the top of the base.

Table

Is a semi-steel, heavily ribbed, casting, machined on all sides with a polished top 37 x 37 inches, the corners of which are rounded. Four pads machined on the under side of the table form contact points to which the rockers and the top rear of the base are bolted. The top of the table has reference lines scored at 90° angles.

Motor

A 1 H.P. 1800 R.P.M. 3 phase, 60 cycles, 220 or 440 volt, totally enclosed, fan cooled motor is supplied as regular equipment, although we have available a 3600-1800 R.P.M. motor if desired; also 2 H.P. 1800 R.P.M. or 1 H.P. 1200 R.P.M. motors available. The motor rotor is mounted direct on an arbor sleeve in which slides a spindle with a No. 3 Morse Taper bore. The lower end of the motor sleeve carries a worm which in turn operates in an eccentric worm gear running in oil, thus creating an oscillating action to the sliding spindle.

Spindles

Regular drum spindles are 1 x 9 inches long with a No. 3 Morse taper fitted into the oscillating spindle. When larger than 6-inch drums are to be used — either pneumatic or steel—we recommend a spindle of $1\frac{3}{8}$ -inch diameter. For very small sanding work, special spindles are available such as $\frac{3}{4}$ x 9 inches and $\frac{1}{2}$ x 6 inches. The operating spindle has a vertical adjustment of 3 inches which allows for the use of the entire sanding surface. The spindle tilts 45° forward and 5° backward by means of hand-wheel and screw; and oscillation of the spindles is $1\frac{1}{8}$ inch with 56 strokes per minute at 1800 R.P.M.

Drums

Drums up to 6 inches in diameter can be used on the

regular machine but table can be arranged to take 8 and 10 inch diameter drums. For certain work, steel drums are used. In this case, the abrasive paper or cloth is cemented to the drum by using “Oliver” Sando Cement. Steel drums in diameters of 2-, 3-, and 4-inches are regularly in stock in 9-inch length and with $1\frac{3}{8}$ -inch bore. Other larger sizes in steel or pneumatic up to 10-inch can be used by enlarging the hole in the table and providing proper table plates. Rubber drums and pneumatic drums are used with standard 9-inch Sanding Sleeves, which are held tight by the expansion of the rubber under pressure.

Electrical Equipment

The standard machine has a 1 H.P. 3 phase, 60 cycle, 220 or 440 volt 1800 R.P.M., built-in motor totally enclosed and fan

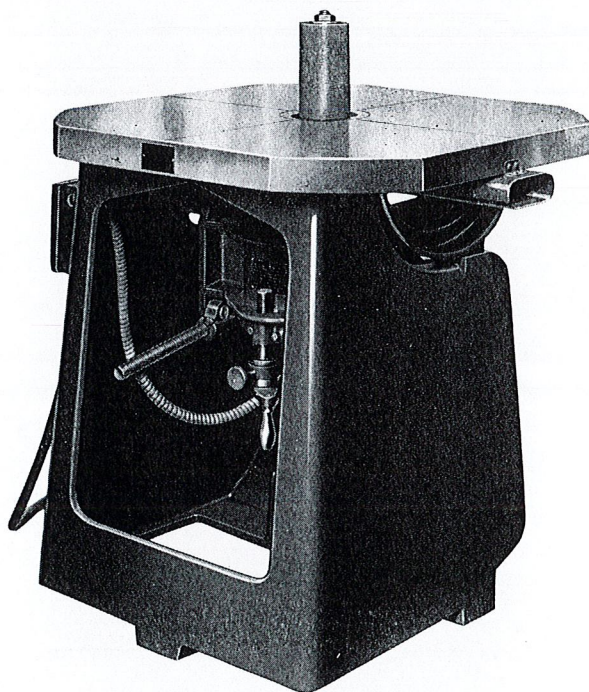
cooled with push button magnetic control. For variety work a special two-speed motor is furnished giving 1800/3600 R.P.M. For heavy duty work, using drums larger than 6-inch diameter, we recommend a 2 H.P. 3 phase, 60 cycle, 220 or 440 volt motor with 1800 R.P.M.

Floor Space

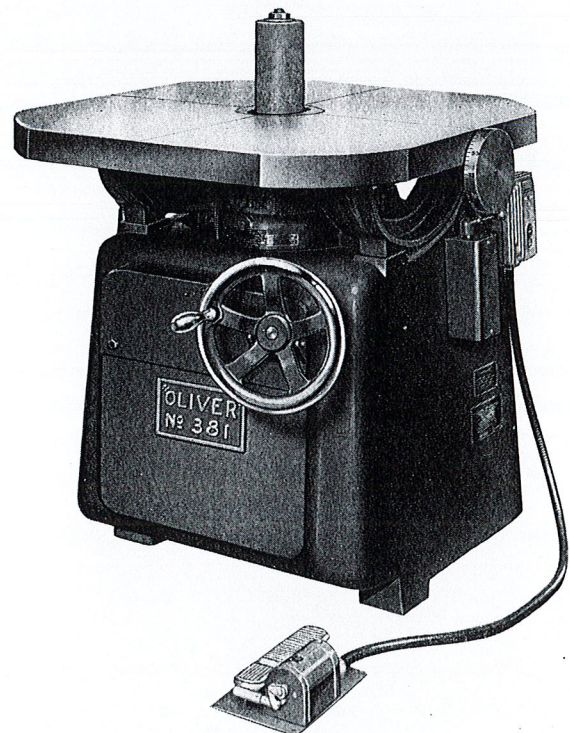
This machine occupies a space 37 x 37 inches and stands 37 inches high.

Equipment

Standard equipment includes one 1 x 9 inch removable spindle with three rubber drums 2, 4 and 6 inches in diameter. Two each 2-, 4- and 6-inch diameter sanding sleeves. One set of two throat blocks for the 2-inch and 4-inch drums. One set of wrenches. Push Button Magnetic Control all wired and ready to operate.

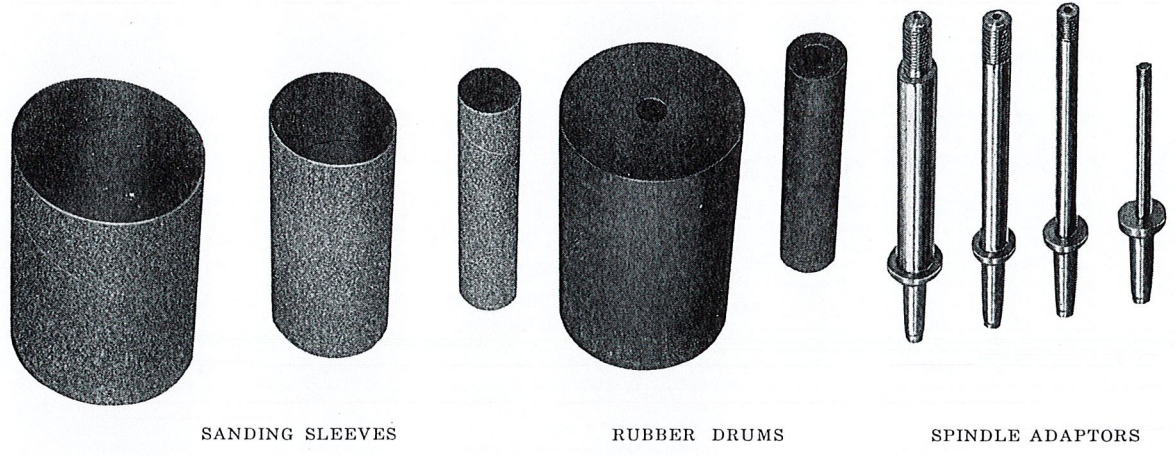


Dust hood mounted under table furnished as an extra.



No. 381-DM Oscillating Grinder equipped with power tilting by foot control. Operator has large dial at right side of table to read degree of tilt while operating machine. Used in the aircraft industry for cutting changing degrees taper on sides of long aluminum parts.


OLIVER MACHINERY COMPANY GRAND RAPIDS, MICHIGAN, U.S.A.
 'OLIVER' NO. 381 SINGLE SPINDLE SANDER



C O D E , W E I G H T , E T C .

CODE	NO.	MACHINE DESCRIPTION	WEIGHT IN POUNDS		CUBIC FEET
			CRATED	BOXED	
Eunda	381-D	Heavy Duty Oscillating Single Spindle Sander.....	1400	1750	30

E X T R A

- Sando Cement, One Gallon Can.
- Eubatu 1 H.P. Constant H.P. 3600/1800 2 Speed Motor.
- Eubite 2 H.P. 1800 RPM Motor.
- Eubito 1 H.P. 1200 RPM Motor.
- Eubitt Table Arrangement for 8" and 10" Drums.
- Eubate 1/2" x 6" Spindle with Nut.
- Eubati 3/4" x 9" Spindle with Nut.
- Eubato 1 3/8" x 9" Spindle with Nut.
- Throat Plates for Spindles under two inches diameter.
- Etita Dust Hood under Table.
- Etito Non-Oscillation of Spindle feature.
- Etite Power Tilt of Spindle.