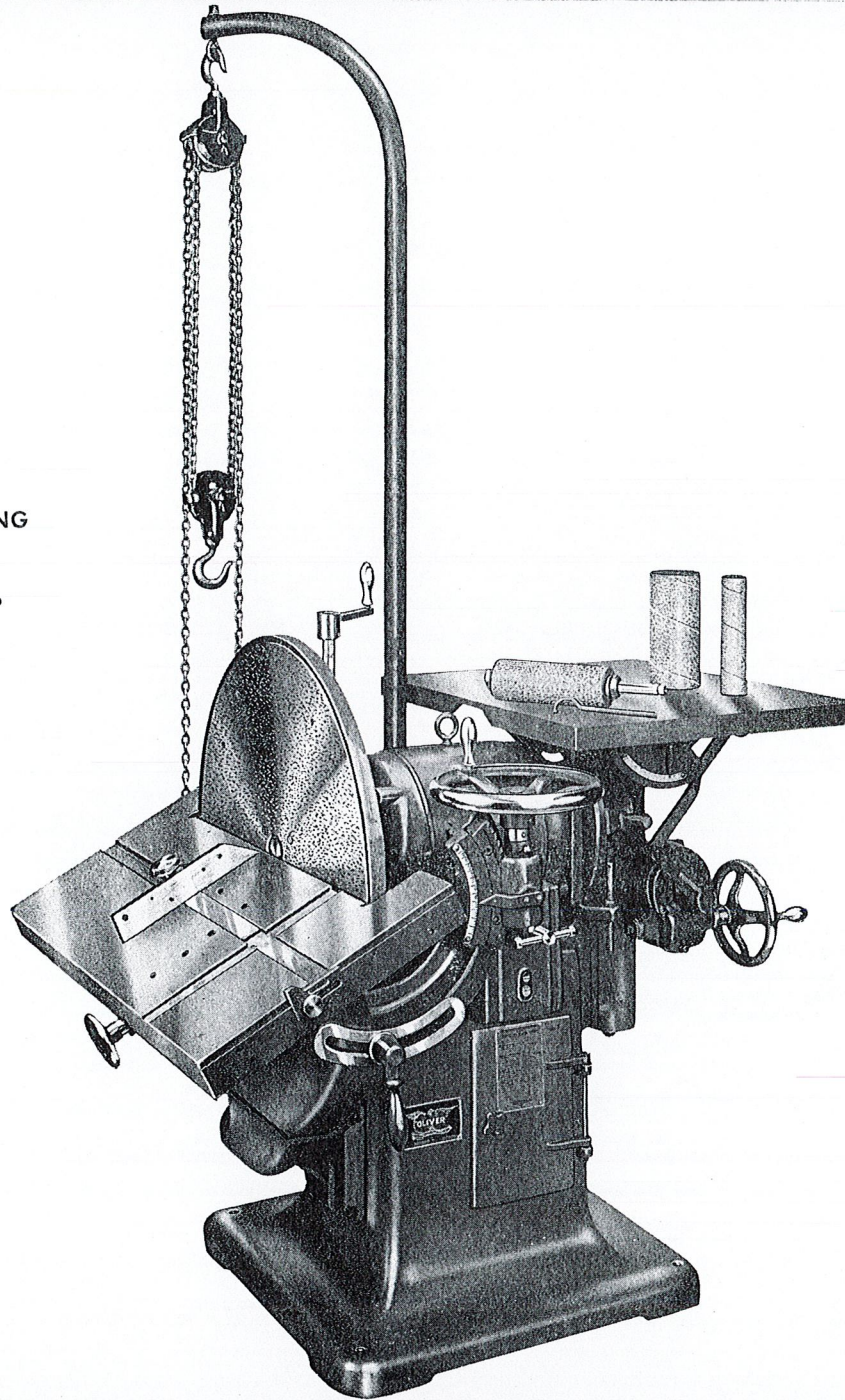


# OLIVER

## No. 34

### DISK AND SPINDLE SANDER

SHOWING  
THE WAY  
TO  
BETTER SANDING  
IN  
PATTERN SHOP  
AND FACTORY



- FASTER SANDING
- MODERN METHODS
- ADVANCED DESIGN

The "Oliver" No. 34DSD Disk and Spindle Sander with direct double end drive motor — disk and spindle units interchangeable — all component parts accessible, easily and quickly adjustable — a strictly production and precision sanding machine.



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

# OLIVER No. 34 DISK AND SPINDLE SANDER

## Column

Consists of a semi-steel box-shaped casting with wide flange at floor providing a substantial base for the entire machine. Dovetailed ways are located on the column on the disk side for mounting of the disk table mechanism. On the opposite side provision is made for mounting the oscillating spindle unit and table. The top of the column is machined for mounting of the motor.

## Disk Table

Size 15" x 40", made of semi-steel with rib reinforcements. Ends are 19" wide to support work when sanding inside corners. Vertical adjustment of table is 8" by means of hand crank and screw. Height of table from floor in lowest position 25"; in highest position 33". It is also adjustable to and from the disk 3" and will tilt down 45 degrees and up 25 degrees. Indicator and scale show exact degree of tilt. The table is mounted on heavy 18" diameter rockers.

## Spindle Table

A semi-steel casting 26" x 30"; 43" from floor to table top. Top and all sides accurately machined. Opening in center for sanding drums is 7½" diameter. Tilts down 45 degrees and up

10 degrees by means of handwheel and totally enclosed worm gear mechanism.

## Spindle

The spindle is made of high carbon steel, accurately machined and balanced to rigid standards. It oscillates at 50 strokes per minute having a stroke of 1⅞". Operation is controlled by means of a hand lever beneath the table convenient to operator. Top of spindle has a No. 3 Morse Taper hole to receive the detachable adaptors. The standard adaptor is 1" diameter with capacity to take rubber drums 9" long. Other size adaptors are available.

## Disk

Disk is 30 inches diameter, made from steel plate accurately finished and balanced. It is held in place by three large countersunk screws which fasten to a flange that is mounted on the motor arbor. It is easily removed from the machine by screwing an eyebolt into the tapped hole on the edge of the disk. The chain hoist furnished with the machine is then used to lift the disk from the flange.

## Drums

Three solid rubber drums are furnished with the machine. One each 2", 3" and 4" diameter by 9" long with a

one-inch hole to fit snugly over the spindle adaptor. The sanding sleeves fit over these drums and are held in place by a steel collar and nut.

## Motor Drive

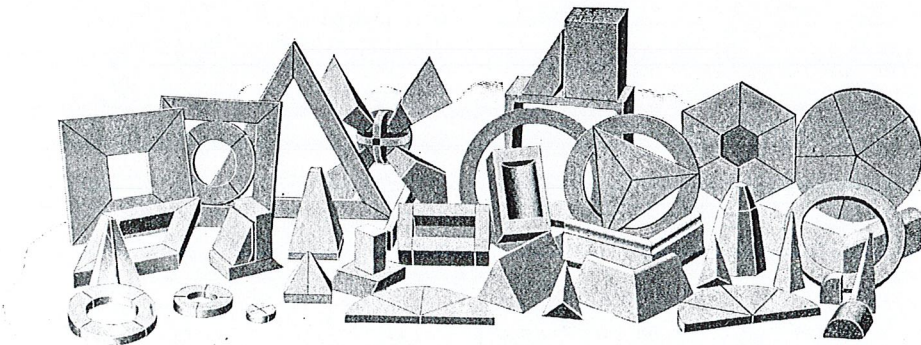
The machine is available with two types of drive. We recommend the motor-in-head type where we use a 5 h.p., 1200 r.p.m. totally enclosed, dust proof, ball bearing motor with special large diameter shafts extended at both ends to carry the disk and spindle mechanism. This drive is used where standard 2 or 3 phase, 60 cycle A.C. current is available. For direct current or 25 cycles the machine is furnished with a V-belt drive arrangement. The V-belt drive machine is shown on page 3 of this circular.

## Electrical Control

A magnetic switch giving overload and low voltage protection is mounted convenient to the operator. The start and stop buttons are mounted in the control cover.

## Equipment

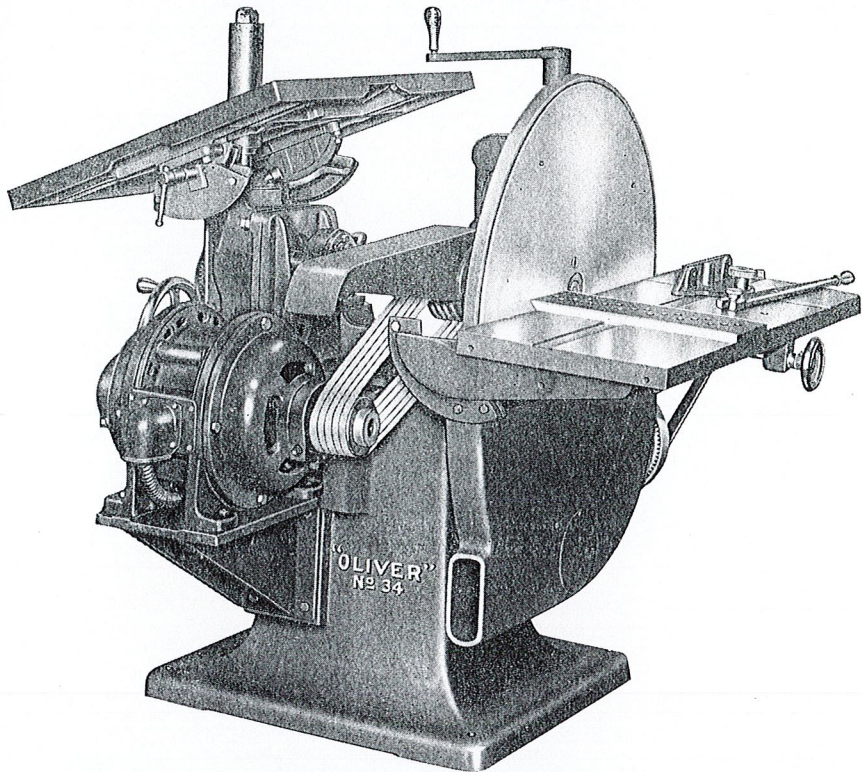
Consists of a 30 inch steel disk, one 1" x 9" removable spindle, one each 2 inch, 3 inch and 4 inch rubber drums, three different size table throat plates, one circle sanding attachment complete, one duplicate sanding attachment, chain hoist, motor and control.



A few specimens of work which can be done on an "Oliver" No. 34 Disk and Spindle Sander

# OLIVER No. 34 DISK AND SPINDLE SANDER

This is the most compact, most completely guarded and most efficient combined Disk and Spindle Sander obtainable.

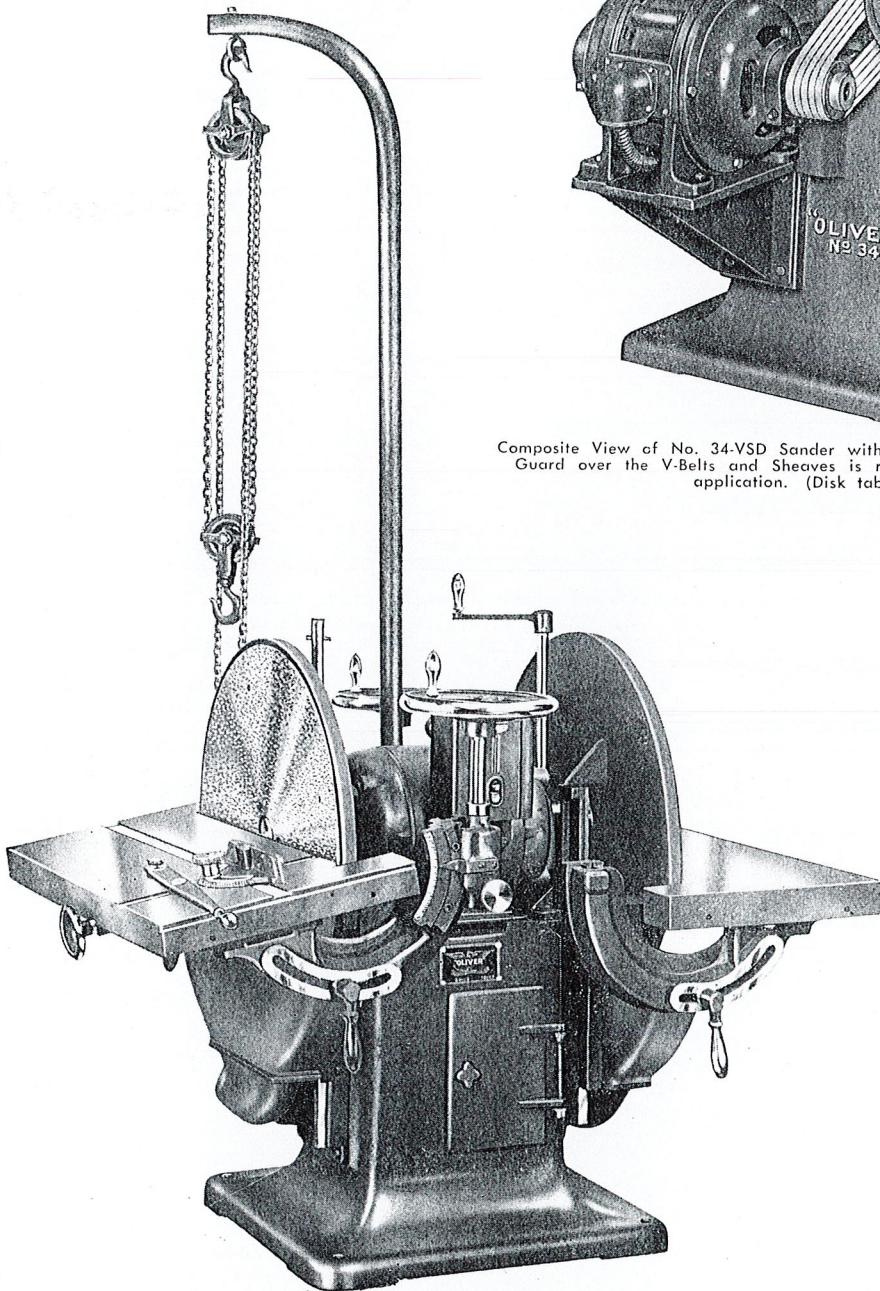


Composite View of No. 34-VSD Sander with Motor Belt Drive Arrangement. Note that Steel Guard over the V-Belts and Sheaves is raised up to show simple and effective power application. (Disk table unit not latest design.)

## PROMINENT FEATURES

"Oliver" No. 34 Disk and Spindle Sander.

1. Direct motor - on - spindle drive for 2 or 3 phase, A.C.
2. Two tilting tables, accurate graduations with indicators.
3. Large hand wheels for quick easy adjustment.
4. Combination guard and dust chute.
5. Sandpaper disks easily renewed by one man.
6. Choice of three drums, instantly changed.
7. Oscillating drum and spindle.
8. All parts and units interchangeable.



No. 34-DD Double Disk Sander — showing the new extra heavy table rocker assembly. Note the plain table for R.H. Disk.

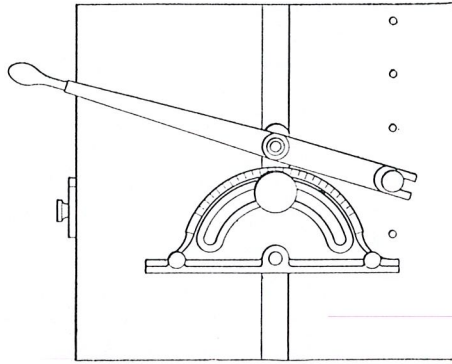
Investigate this Sander!

# OLIVER No. 34 DISK AND SPINDLE SANDER

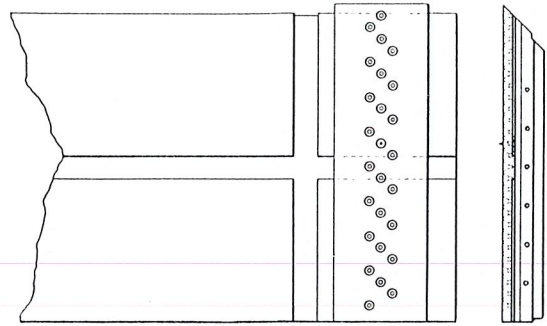
## Equipment

Consists of a 30-inch metal disk, one 1" x 9" removable spindle, one each 2-inch, 3-inch and 4-inch rubber drums with three semi-steel polished circles to fit the hole in the table, one centering plate with two pivot plugs for circle sanding up to a 30-inch diameter circle. A hand lever, one end forked

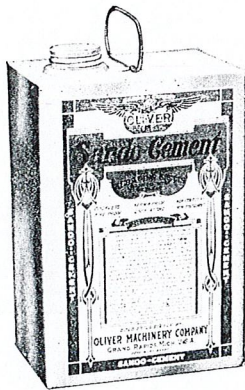
to engage a pin fastened to the universal gauge used for angle sanding, and adjustable stop screws into the right side of the table and the hand lever butts against it; this attachment makes precision sanding of quantity stock exceptionally easy. A 1 7/8-inch outside diameter pipe with a chain hoist, drive motor, one spanner wrench and one drum wrench. All moving parts are thoroughly lubricated with grease and oil cups.



DUPLICATING ATTACHMENT  
Etching of Table Showing Device for Sanding to Uniform Widths and Lengths



CIRCLE SEGMENT ATTACHMENT  
Etching of Device for Sanding Circular Work on the Edges



## "OLIVER" SANDO CEMENT

After many experiments we now offer with pride this scientifically prepared adhesive — "Oliver" Sando Cement — for fastening garnet paper or emery cloth sheets to metal disks and rolls of disk and spindle sanders or grinders. "Oliver" Sando Cement is odorless, vermin-proof, non-corrosive, fireproof, quick-acting, non-poisonous and comes in a gallon can ready for use. No mixing or preparing is required. Order a gallon can with the "Oliver" Sander.

### GENERAL SPECIFICATIONS

MOTOR:  
H.P. .... 5  
R.P.M. .... 1200  
Volts .... 220 or 440  
Current .... A.C., 2 or 3 Phase

### DISK:

Outside Diameter ..... 30 inches  
Thickness ..... 5/8-inch  
R.P.M. .... 1200

### DISK TABLE:

Size ..... 15 x 40 inches  
Tilts up ..... 10 degrees  
Tilts down ..... 45 degrees  
Highest position from the floor, approx. .... 33 inches  
Lowest position from floor ..... 25 inches

### SPINDLE—(Removable)

Size ..... 1 x 9 inches  
Oscillating movement ..... 1 1/8 inches  
R.P.M. .... 1800

### SPINDLE TABLE:

Size ..... 26 x 30 inches  
Three rings dia. .... 7 1/2 inches  
Tilts up ..... 10 degrees  
Tilts down ..... 45 degrees  
Top from floor ..... 42 inches

### BASE:

Size at floor ..... 28 x 30 inches

### OVER ALL:

Width ..... 40 inches  
Length ..... 62 inches  
Height ..... 51 inches  
Height of chain hoist from floor ..... 8 feet

## CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	Weight in Pounds Crated	Weight in Pounds Boxed	Cubic Feet
Etapi	No. 34-V—30 inch Disk and Spindle Sander, V-Belt driven	2000	2200	70
Etara	No. 34-DSD—30 inch Disk and Spindle Sander complete, with 5 h.p., 1200 r.p.m., 2 or 3 phase, 60 cycle, 220 or 440 volt, A.C., ball bearing motor on spindle and push button switch wired ready for use	2360	2660	110
Etare	No. 34-DD—30-inch Double Disk Sander direct motor driven with 5 h.p., 1200 r.p.m., 2 or 3 phase, 60 cycle, 220 or 440 volts, A.C., ball bearing motor	2600	2900	117
Etom	No. 34-D—30-inch single disk sander			

## EXTRAS

Sando	"Oliver" Sando Cement, one gallon can.
Etate	Abrading Sheets, No. 1 1/2 Garnet Sandpaper for 30-inch Disks.
Etati	Roll of Garnet Sandpaper. No. 1 1/2, 9 inches wide, 50 yards long.
Etav	30-inch Metal Disks.
Eubati	3/4" x 9" Detachable spindle with nut.
Eubate	1/2" x 6" Detachable spindle with nut.
Eubato	1 3/8" x 9" Detachable spindle with nut.
Eubot	1" x 9" Detachable spindle with nut. (Regular equipment).



# OLIVER MACHINERY COMPANY

## Grand Rapids 2, Michigan, U.S.A.

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