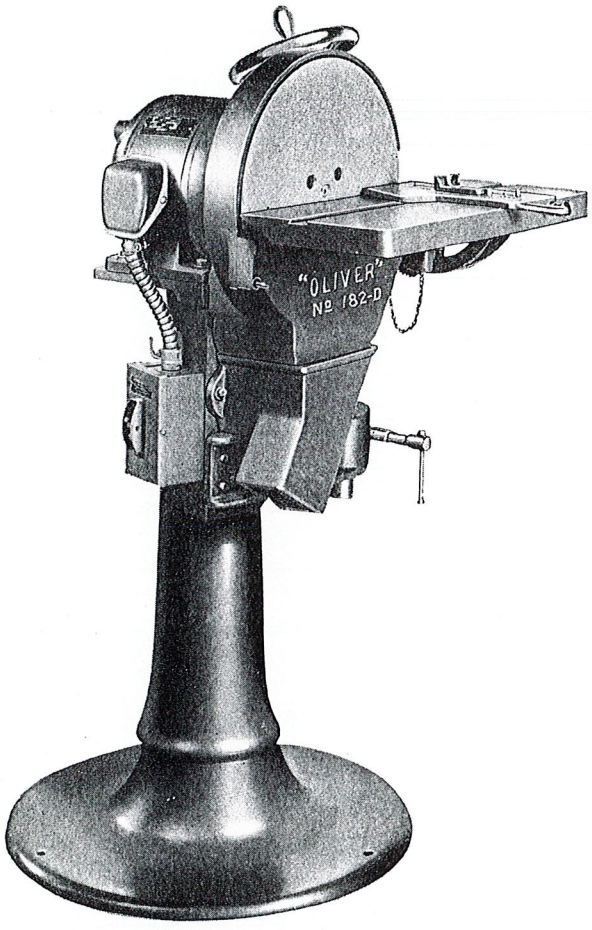
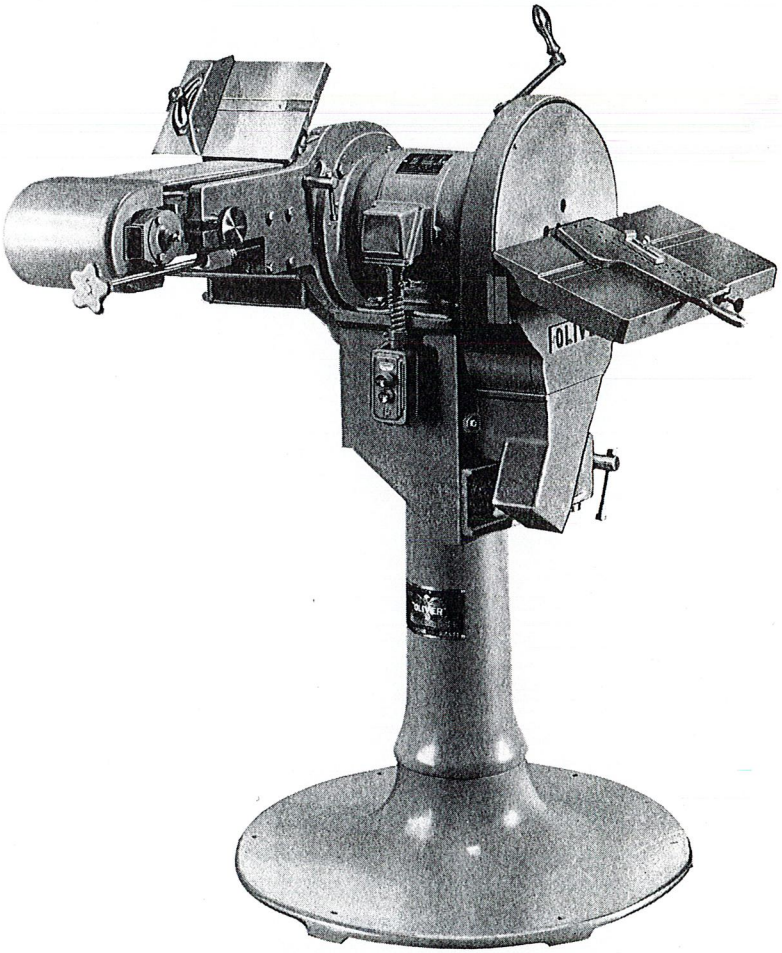
# OLIVER

## No. 182-D and No. 182-DB

# Disk and Disk-Belt Sanders




No. 182-D 15-inch Disk Sander



No. 182-DB Disk-Belt Sander — left side view, with the belt in a horizontal position. Notice the sturdy, compact design, the convenient gauges and stops.

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

# This Disk Sander handles a wide range of work quickly

The Oliver 15-inch Disk Sander is a sturdy machine that can be conveniently placed near the operator and his work. It is carefully designed to maintain a fine balance; it is built strong and rigid. Such engineering prevents vibration under all conditions. A Disk Sander of this design is most useful in every woodworking department. It makes joints and fits bevels faster and more accurately than can be done with a chisel and plane. Operation of this Sander is very simple. The disk can be changed quickly. The gauges are graduated for accurate angle work. It is also useful for sanding various compositions, plastics and leather.

Its all-around efficiency is keenly appreciated by mechanics. This powerful machine is used in hundreds of machine shops for light and medium metal grinding and finishing.

Garnet paper disks are used for wood sanding. Aloxite or emery cloth disks are used for metal work.

## Disk

The metal disk is 15 inches in diameter. It is turned perfectly true and accurately balanced. The disk is mounted on a hub by three screws from the face of the disk.

## Capacity

The machine handles circular work up to 15 inches in diameter, and duplicating work up to 7 inches wide.

## Disk Head

A one-piece, semi-steel casting provides the housing for the disk, disk hub and the air passages for the exhaust. The head is fastened to the column with machine screws.

## Disk Hub

A semi-steel casting, carefully finished and accurately balanced, is fastened directly on the motor shaft. The hub carries the disk fastened by three screws.

## Table

The cast iron table is 9¼ inches wide, 21½ inches long, and is 38 inches above the floor. It is machined true, and has a groove to take the angle gauge, and the circular segment and duplicating gauge. It can be tilted 45 degrees down, 25 degrees up with a hand crank with a swivel handle, worm, worm segment, and segment—device is self-locking. Positive locations are provided for square and horizontal positions. A graduated index shows the exact angle the table tilts. The entire mechanism of the table is carried by a large diameter shaft with a keyway to assure perfect parallelism with disk.

## Column

The cast iron column has a circular flange to provide a solid footing on the floor. It is convenient to move about.

## Angle Gauge

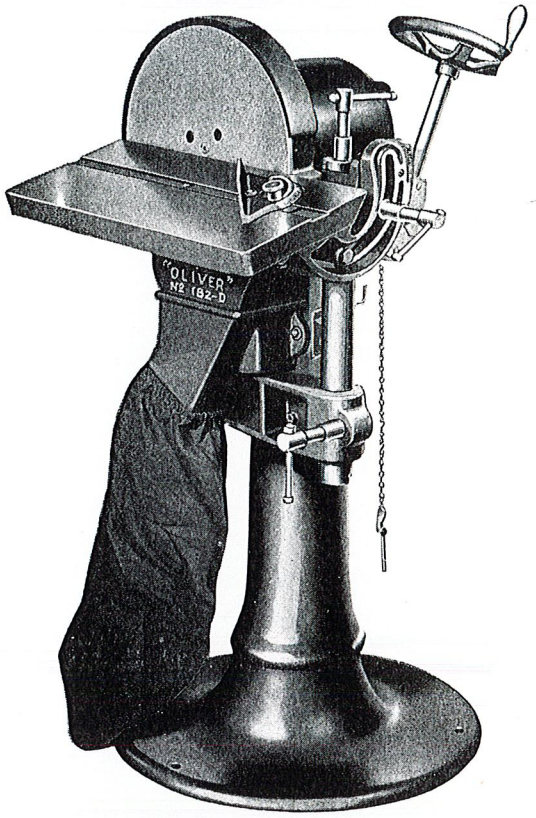
This gauge fits into the groove in the table. It is graduated from 0 to 45 degrees both right and left for accurate setting.

## Circular Segment and Duplicating Gauge

With this gauge accurate circular segment and duplicating work can be done efficiently. It consists of a plate with a hinged strip pivoted to bottom which fits the slot in the table. The plate has a series of reamed and tapped holes to take center pins for circular work and fence part of angle gauge for duplicating work. It also has a stop gauge and pin for segment sanding, operated by a handle cast to plate, and adjusting screw as stop or set for amount of cut to be taken.

## Motor

Has ½ h.p., 1800 r.p.m., totally enclosed continuous duty, ball bearing motor for single phase, 60 cycle, 110 or 220 volts A.C. or 3 phase, 60 cycle, 220/440 volts A.C. Oversize ball bearings take both thrust and radial loads. Larger motors can be furnished on request at extra cost.




Right side view of No. 182-D Sander. Notice the large handwheel for tilting the table, and the heavy mechanism for tilting, clamping, swinging and vertical movement of table. The bag shown is furnished as an extra when ordered.

## Switch

A safety-first type switch is mounted on side of motor convenient to operator. Single phase motor has ten feet of rubber covered cord and plug for lighting circuit.

## Equipment

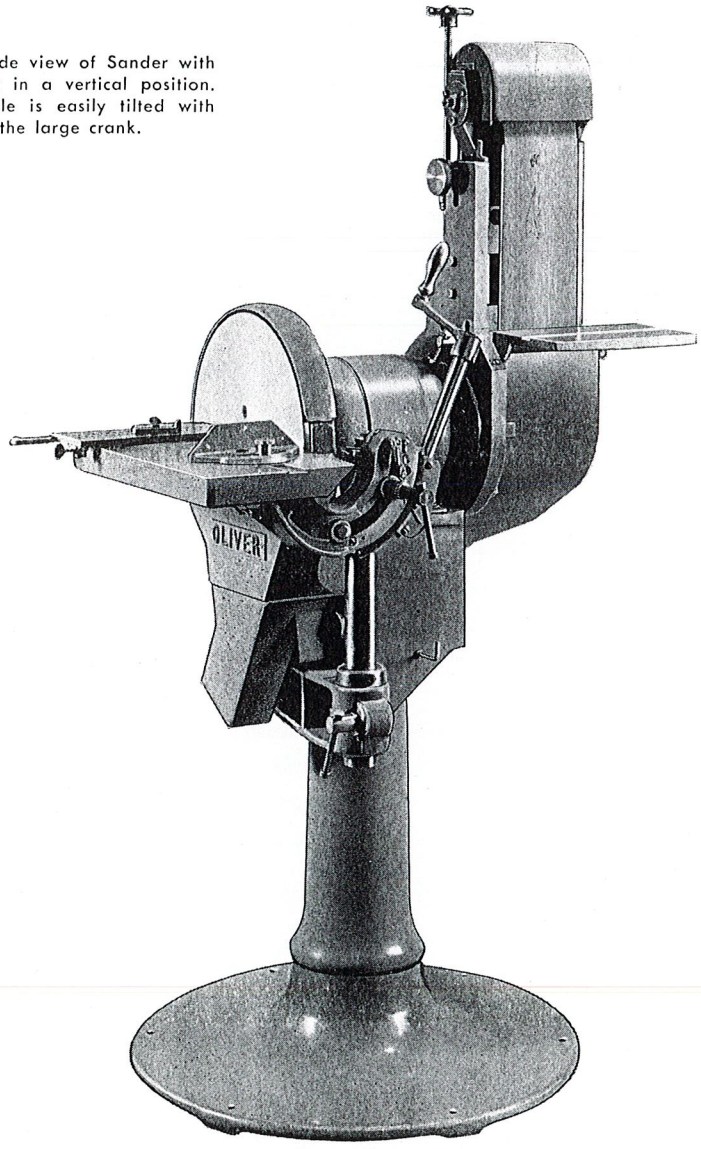
Machine is furnished with motor, switch, one 15-inch diameter metal disk, six garnet abrading disks, sample can of Sando cement, one angle gauge, one circular segment and duplicating gauge with six centers, segment stop and pin.

# The Disk and Belt Sander is fast on straight line work and smooth finishing

The purpose of this Disk-Belt Sander is to provide more flexible production than the Disk Sander alone. The Disk-Belt Sander is especially useful in shops where a variety of woodwork is produced requiring not only straight line sanding on the Disk Sander, but also general smoothing and polishing on the Belt Sander.

## Disk, Head, Hub

The metal disk is 15 inches in diameter, turned true, and accurately balanced. It is mounted on the disk hub by three screws. The one-piece disk head provides housing for disk, disk hub and passages for dust of exhaust. The casting of the hub is finished and balanced, and is fastened directly on the motor shaft.




Right side view of Sander with the belt in a vertical position. The table is easily tilted with the large crank.

## Disk Table

The table is identical to that of the No. 182-D Disk Sander. It has both the angle and the circular segment and duplicating gauge. Self-locking mechanism tilts table 45 degrees down, 25 degrees up—same as for the No. 182-D Disk Sander. A shaft of large diameter with keyway carries the table mechanism, and keeps table parallel to disk.

## Column

The cast iron column has a wide circular flange to provide solid footing on floor. It is easily moved about.

## Two Gauges

The angle gauge fits the slot in the disk table. It is graduated from 0 to 45 degrees, right and left, for accurate work. The circular segment and duplicating gauge (same as furnished with No. 182-D Sander) simplifies accurate circular segment and duplicating work. These gauges are simple in design and easy to use.

## Belt Sanding Unit

A belt sanding unit with endless sanding belt 6 inches wide and 60 inches long is provided. The belt runs on an 8-inch diameter motor pulley, and 4¾-inch diameter ball bearing idler pulley. The idler pulley is adjusted by one belt tracking screw and one belt tightening screw. The sanding surface can be placed in a horizontal or vertical position with a hand clamp screw. A polished metal backing plate

is located between the pulleys to support the belt while sanding. A metal table 7 x 11 inches is provided. The table can be tilted 30 degrees toward the belt, 45 degrees away, or at any angle from 60 to 135 degrees between belt and table top. The table is fitted with an angle gauge, adjustable up to 45 degrees in either direction, and slides the full width of the belt. It can be locked in any position.

## Motor

Machine is furnished with 1 h.p., 1800 r.p.m., totally enclosed motor for three phase, 60 cycle, 220/440 volts A.C. The hub, carrying the disk, is fastened directly on the motor shaft. Extra large ball bearings take both the thrust and radial loads.

## Equipment

The machine is furnished with motor, switch, one 15-inch diameter metal disk, six garnet abrading sheets, sample of Sando cement, ground platen, tilting table with angle gauge, circular segment and duplicating gauge, and two 6-inch endless belts.

## Switch

A start-and-stop push button station is mounted directly on the machine, wired ready for use.

CODE, WEIGHT, ETC.

| CODE | MACHINE DESCRIPTION | WEIGHT IN POUNDS CRATED | WEIGHT IN POUNDS BOXED | CUBIC FEET |
|---|---|---|---|---|
| Euba | No. 182-D Disk Sander for A.C. | 425 | 750 | 30 |
| Eubab | No. 182-DB Combination Disk and Belt Sander, with 1 h.p. Motor | 750 | 1150 | 59 |
| Sando | Sando Cement, in one gallon can | ..... | ..... | .... |
| Eubed | 1 h.p. Motor instead of ½ h.p. Motor, extra if desired | ..... | ..... | .... |
| Eubat | Dust Bag | ..... | ..... | .... |

OLIVER MACHINERY COMPANY
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