



"Every User  
Is a Booster?"

# "Oliver" No. 585 Variety Oilstone Tool Grinder

Motor Driven

## "Far in Advance"

The first motorized variety oilstone tool grinder was made by "Oliver" in 1921 and installed in a New Orleans school. The following letter testifies to the service rendered by this and subsequent installations:

"We are very much pleased with the service of the 37 machines that we have. The various safety features and the elevated table place them, in our estimation, far in advance of any other similar grinding machine on the market.

John S. Pearce,  
Supervisor of Manual Training,  
Orleans Parish School Board,  
New Orleans, La."

And as evidence of the sincerity of this statement, let us cite that twelve additional No. 585 "Oliver" Variety Oilstone Tool Grinders have since been purchased. This brings the total installations in this one city to over 50.



"OLIVER" NO. 585 VARIETY OILSTONE TOOL GRINDER  
Right side view—Note emery wheel with tool rest as well as two oilstone wheels and tool holder.



"OLIVER" NO. 585 VARIETY OILSTONE TOOL GRINDER  
Left side view—Note emery cone, leather stropping wheel as well as two oilstone wheels and tool holder.

Manufactured by

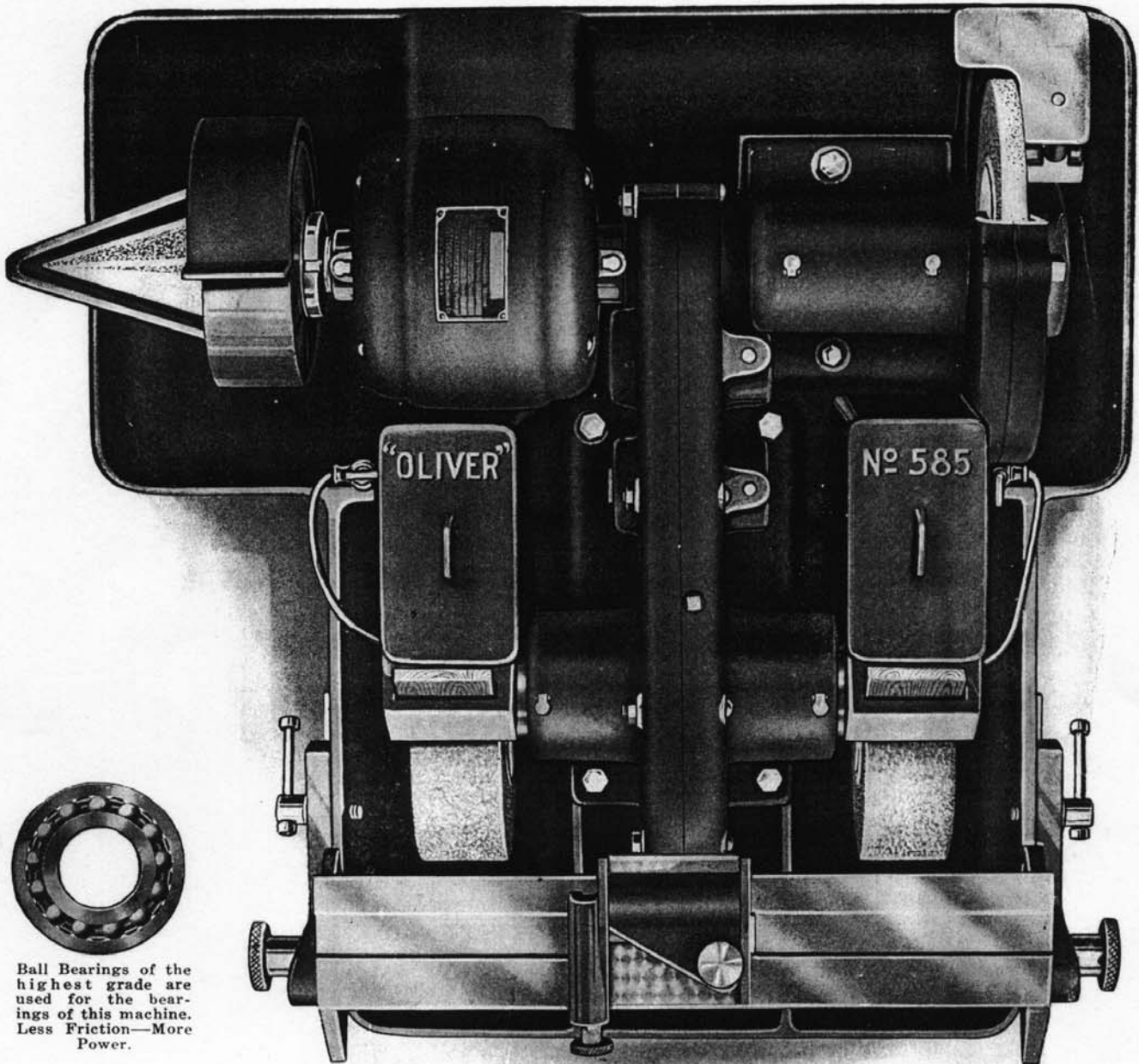
## Oliver Machinery Co.

Grand Rapids, Michigan, U.S.A.

BRANCH SALES OFFICES:

New York, St. Louis, Minneapolis, Los Angeles, San Francisco,  
Chicago, Denver, Salt Lake City, Seattle, Manchester, Eng.

Motor Driven



Ball Bearings of the highest grade are used for the bearings of this machine. Less Friction—More Power.

TOP VIEW OF "OLIVER" NO. 585 VARIETY OILSTONE TOOL GRINDER

Note that all four grinding wheels and the leather stropping wheel are each independently accessible and yet the whole machine is extremely compact and thoroughly guarded. The operative units consist of two oilstone wheels, one emery wheel, one emery cone and one leather stropping wheel.

## Application

This latest model variety oilstone tool grinder has been designed to meet the needs of all kinds of woodworking shops where a small grinder is desired for rapidly grinding and sharpening various woodworking tools, such as plane bits, chisels, gouges, and other bench tools. Hand Planer and Jointer Knives up to about six inches long may also be hand sharpened on this machine.

## Advantages

Being portable and equipped with a plug and cord of suitable length, it can be attached to any electric light socket and placed where it will be most convenient to the operator. Expensive wiring is entirely avoided. It insures better tools—consequently better and faster work. It saves steps—time—money.

## General Construction

It is the most compact and most efficient small tool grinder ever designed. Mounting on a cast iron column with a broad flanged base insures a very sturdy floor support, yet having metal domes attached to the base, it can be moved about very easily. The motor is mounted on and forms a part of the machine and has a double ended shaft, at one end of which is mounted an emery cone and leather stropping wheel; the other end

carries a gear and a flexible coupling. The gear, by means of a train of gears running in lubricant, transmits power to the arbor carrying the oilstone wheels. The flexible coupling connects the motor shaft to a ball bearing arbor which carries the emery wheel.

## Light Running

The use of high grade ball bearings throughout insures a light running quality not found in other grinders.

## Table and Tool Holder

The table extends across the front of the machine, tilts to any desirable angle and has horizontal adjustment of several inches. It is fitted with a special tool holder for holding chisels, plane bits, etc., with screw feed arrangement for feeding the tools to the oilstones when grinding. Tool holder will hold Jointer knives up to about six inches long for hand sharpening on this machine.

## Automatic Saturation System

An oil reservoir is mounted over each oilstone cup wheel and the oil is directed so as to drip on the inside of the cup wheels, through small tubes with faucets to regulate the flow of oil. Special wipers prevent the oil being thrown off the wheels.

## Oilstone Wheels

These are of the cup wheel type and run in ball bearings. They are two in number—one coarse grain for rapid abrasion and the other fine grain for putting a smooth, keen edge on the tool. Size, 8-inch diameter, 2-inch face. Speed, 300 r.p.m.

## Emery Wheel

This wheel is mounted on a ball bearing shaft and is used for general dry grinding. Size 8-inch diameter, 1/2-inch face. Speed 1800 r.p.m.

## Emery Cone

The emery cone, mounted at one end of the ball bearing motor shaft, is used for grinding gouges and irregular shaped tools. Size 3-inch diameter, 5 inches long. Speed 1800 r.p.m.

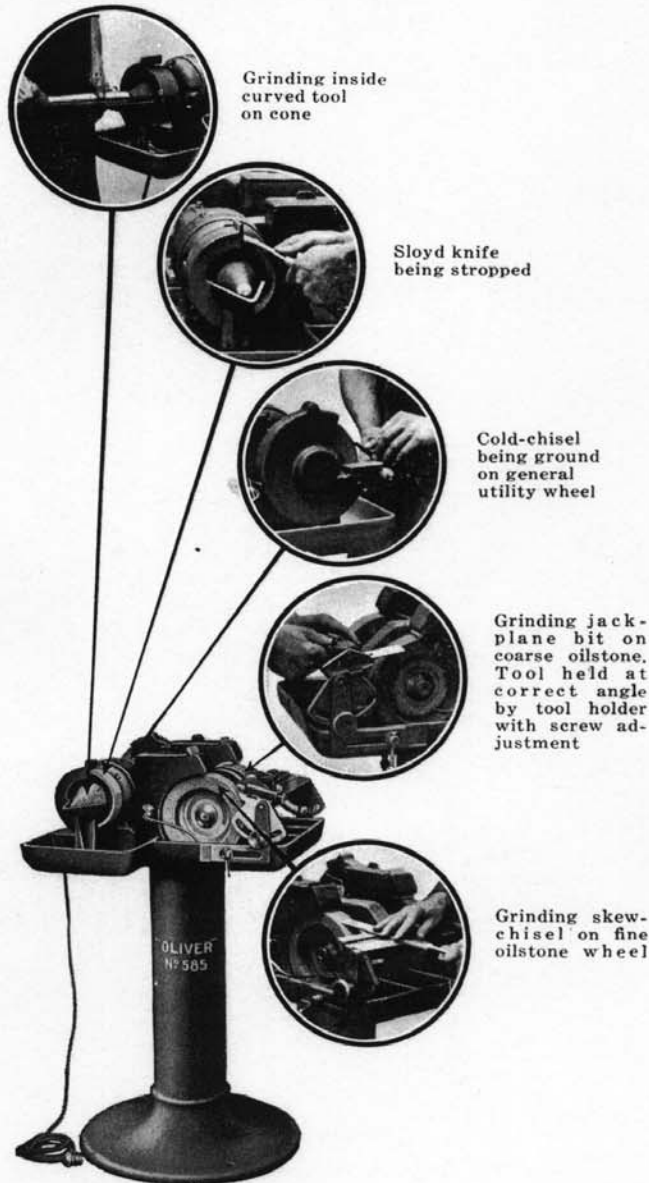
## Stropping Wheel

The leather stropping wheel, mounted on the same shaft as the emery cone, takes away burrs and puts the finishing touches on the tools. Size 6-inch diameter, 2-inch face. Speed 1800 r.p.m.

## Emery Wheel Tool Rest

This right angle tool rest permits grinding on the side of the emery wheel as well as on the face.

### Five Principal Uses of "Oliver" No. 585 Grinder



### Safety Features

"SAFETY FIRST" is a dominant feature in the design of this machine. The gears and bearings are fully enclosed with cast iron covers. The oilstone wheels, emery wheel and emery cone have the most improved metal guards, the leather stropping wheel has a guard on the off-side. Belts and pulleys are entirely eliminated.

### Motive Power

By direct application of motor, by the use of ball bearings throughout, and the elimination of belts and pulleys, power consumption is decidedly minimized and full efficiency is secured. Motor is fully enclosed, fitted with ball bearings, 1800 r.p.m., either alternating or direct current, 110 or 220 volt, has ample power and may run from any lamp socket.

### Switch and Cord

A push button switch, conveniently mounted on the machine, starts and stops the machine, and is fully wired with cord and plug for attaching to light socket.

### Equipment

Two 8 x 2-inch oilstone cup wheels (one coarse and one fine grain), one 8 x 1/2-inch emery wheel, one 6 x 2-inch leather stropping wheel, one emery cone 3-inch diameter, 5 inches long, adjustable tool holder, right angle tool rest, suitable motor, push button switch, and cord and plug for attaching to light socket.

### Floor Space

Machine is portable; pan measures 28 x 25 inches.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS		CUBIC FEET
		CRATED	BOXED	
Foga	No. 585—Motor Driven Variety Oilstone Grinder as shown.....	420	550	15
Fogob	Shatter Proof Eye Shield for use over grinding wheel.....	.....	.....	.....

### KIND OF ELECTRIC CURRENT

This Grinder can be furnished for any kind of electric current. When ordering, it is absolutely necessary to tell what current you have. Always state what volt, what cycle and what phase.