

# OLIVER

No. 384

## Oilstone Tool Grinder



Front right side view — note two oilstone grinding wheels, emery wheel and tool holder.



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



### Automatic Saturation

An oil reservoir is mounted over each oilstone cup wheel, and the oil is directed to drip on inside of cup wheels through small tubes, with faucets to regulate flow of oil. Centrifugal force causes oil to flow from inside, through the pores to periphery of wheels, preventing glazing of wheels and cooling the edge being ground. Special wipers prevent oil being thrown off wheels. Covers on oil reservoirs are permanently fastened, can not be removed and lost. A spring holddown prevents rattle.

### Oilstone Wheels

There are two oilstone cup wheels — 6-inch diameter, 1½-inch face — one coarse grain for rapid abrasion, the other fine grain for putting smooth, keen edge on tool. They run in ball bearings at 472 r.p.m.

### Emery Wheel and Tool Rest

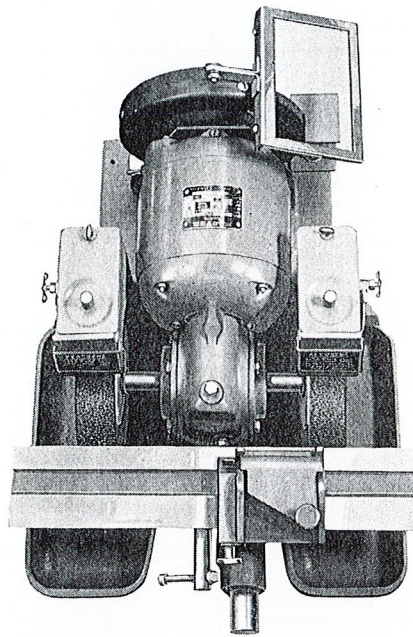
Emery wheel — 8-inch diameter, ½-inch face, speed 1750 r.p.m. — is used for general dry grinding. It is mounted directly on ball bearing high-speed shaft of motor. Tool rest has side as well as face support.

### Safety Features

Safety is a prominent feature of this machine. Gears and bearings are fully enclosed and run in lubricant. Oilstone wheels and emery wheel have guards exposing only those parts that do the grinding. Emery wheel is furnished with a shatter-proof glass adjustable eye shield (4 x 6 inches) with stainless steel frame and holder.

### Floor Space

Machine is portable. Pan measures 17 x 21 inches. Height from floor to axis of oilstone wheels, 33¾ inches.



Top view of motor driven assembly. Note: the three grinding wheels are independently accessible, yet the whole machine is extremely compact and thoroughly guarded.

### Equipment

Machine has two 6 x 1½-inch oilstone cup wheels (one coarse, one fine grain), one 8 x ½-inch emery wheel, adjustable tool holder, right angle tool rest, suitable motor, switch, cord and plug, floor base, and eye shield over emery wheel.

### Application

This Variety Tool Grinder has two revolving oilstone wheels and one dry emery wheel. It provides the quick grinding advantages of a dry emery wheel with smooth, keen sharpening of revolving oilstones, making it ideal for sharpening various woodworking tools as plane bits, chisels, gouges, small cutters, cutterhead knives up to 8 inches long, and shaper bits.

### Machine Shop Tool

It's ideal for sharpening hand scraping tools. The oilstone wheels provide a hollow-ground effect better than a flat scraping tool.

### Pan and Floor Base

Pan is one-piece casting with finished pads at top and bottom, bolted to floor base and other units of machine. Drain plug at bottom of pan simplifies cleaning.

### Motor

Motor is a ¼ h.p., 40 degree, continuous rated, ball bearing, practically enclosed, single phase, 60 cycle, 110 volt, repulsion induction type AC. Motor is built in as a unit with worm gear, silent running, totally enclosed, grease lubricated speed reducer. Motor can also be furnished for 3 phase, 60 cycle, 220 volt A.C. with same type worm gear speed reducing unit — sturdy, compact and neat.

### Switch and Cord


A switch, conveniently and securely mounted on motor, starts and stops machine. It is fully wired with a 10-foot extra heavy rubber covered cord and plug.

### Table and Tool Holder

Cast iron table is carefully machined, rigid, quickly tilted and moved to and from oilstone wheels without use of wrenches. It is supported on a large shaft with a V-point clamp. Tool holder has a 4-inch long bearing for knife support, and bearing of same length on table. By placing inside end of knife flush with side of tool holder, a knife 8 inches long can be ground. Micrometer feed in tool holder permits fine adjustment of tool with the wheel.

### CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS			CUBIC FEET
		CRATED	BOXED		
Fofa	No. 384 Variety Oilstone Tool Grinder.....	225	325	15	
	EXTRA				
Fogoc	Emery Cone and Cone Guard—5 x 3 inches.....				



## OLIVER MACHINERY COMPANY

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

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