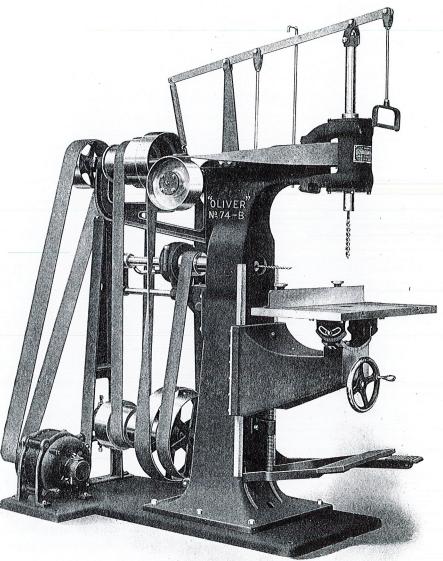
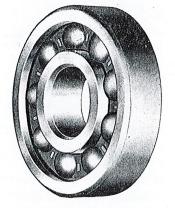
HICH GRADE WOOD WORKING MACHINERY "QUALITY"

"Oliver"

No. 74 Universal Vertical and Horizontal Wood Boring Machine





BALL BEARINGS of the highest grade are used throughout for the bearings of this machine

No. 74-B Motor Driven Universal Vertical and Horizontal Borer.

Oliver Machinery Co.

Grand Rapids, Mich., U.S.A.

BRANCH OFFICES:

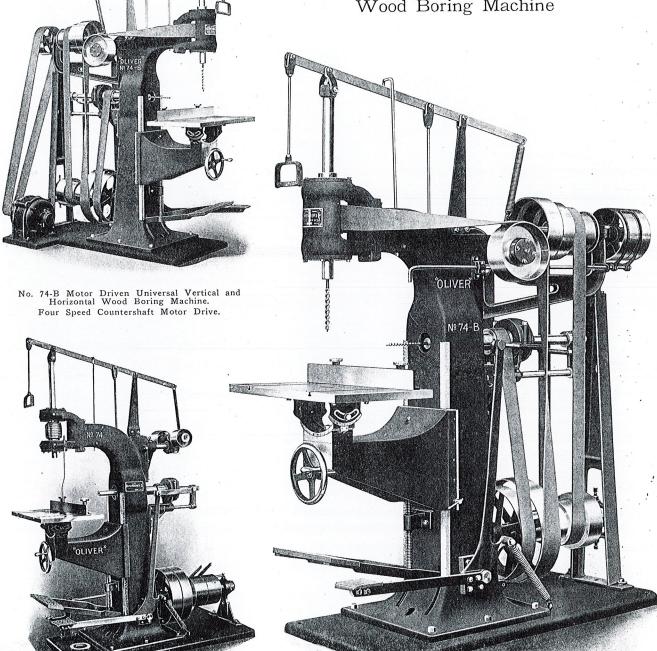
Less Friction More Power

New York Seattle Chicago Salt Lake City

St. Louis Denver Los Angeles San Francisco Phoenix Manchester, Eng.

"Oliver"

No. 74 Universal Vertical and Horizontal Wood Boring Machine



No. 74-A Universal Vertical and Horizontal Wood Boring Machine. Single Speed Countershaft Belt Drive.

No. 74-B Universal Vertical and Horizontal Wood Boring Machine, Four Speed Countershaft Belt Drive.

Oliver Machinery Co., (2007) Grand Rapids,Mich.

	Adaptation	The demand for a heavier and more universal boring machine has been met by this most extraordinary borer. It responds very effectively not only to all kinds of boring machine work, but also to drill holes in metals or to do the work of a router, shaper, buzz planer or sanding machine. Both vertical and horizontal spindles are very heavy mounted in ball bearings and can be fitted to carry a three-jawed chuck, an innumerable variety of bits, fly cutters, special cutters, little pattern makers, etc. The machine is built right, works right and we recommend it as a great money maker for shops having a variety of heavy boring work.								
	Capacity	Both spindles will bore holes 3" diameter and under. Vertical spindle will bore 12" deep to center of 36". Horizontal spindle will bore 7" deep at a height of 16" from top of table.								
	Types	The No. 74-A machine has only a single speed self-contained countershaft and is tended for shops who do not require a variety of speeds. The No. 74-B has a fo speed self-contained countershaft. Either type may be furnished motor driven.								
	Column	This is a large, heavy, hollow casting bolted to a sole plate $28'' \times 60''$; height over all 7' 9".								
	Vertical Spindle	Regularly bored to take $\frac{1}{2}$ " straight shanks, but when so ordered may be threaded to receive a three-jawed chuck. Spindle is $17/8$ " diameter, slides in a sleeve formed by the driving pulley which has extended ends. These ends are fitted to very large and substantial ball bearings. Vertical travel 12". Pulley 5" x $4\frac{1}{2}$ ". No. 74-A has single speed of 3,000 R. P. M.; No. 74-B has four speeds, 968 to 3,450 R. P. M.								
~	Horizontal Spindle	Takes $\frac{1}{2}$ " straight shank, but may be arranged differently when so ordered. Slides in a sleeve formed by the pulley which is fitted with ball bearings of ample size. Is sustained by a bracket fastened to the column. Has 7" travel at a maximum height of 16" from top of table. A foot treadle moves it forward and a coiled spring returns it to its normal position. Pulley $4\frac{1}{2}$ " x 4". No. 74-A has single speed of 3,000 R. P. M.; No. 74-B has four speeds, 968 to 3,450 R. P. M.								
	Table	Is 18" x 30", with a vertical adjustment of 17" obtained by hand wheel and screw. Table tilts up to 40 degrees to or from the column and 30 degrees to right or left. Rockers are accurately machined and graduated to show degree of tilt. Table has two slots to receive the fence which can be easily removed when not desired.								
	Idler Pulleys	These are finished all over and have ball bearings of large size. Those on No. 74-A machines are independently adjustable to suit various sizes of motor pulleys.								
		With the No. 74-A machine either a 900 R. P. M. constant speed or a suitable adjustable speed motor is mounted on the sole plate in place of the countershaft. With the No. 74-B machine either an 1,800 R. P. M. constant speed or a suitable adjustable speed motor is mounted on an extension of the sole plate and belted to upper drive shaft.								
	Countershaft	Self-contained; tight and loose pulleys for No. 74-A, 10" x 5", 830 R. P. M.; for No. 74-B, 12" x 5", 345 R. P. M.								
	Horse Power	3 to 5 H. P., is required, as work demands.								
	Equipment Floor Space	Five bits 6" twist, one each $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " are regularly supplied. 70" x 38" for No. 74-A; 73" x 38" for No. 74-B.								
		CODE, WEIGHT, ETC. Domestic Foreign Measure								
	Code Exile Exilg	No. Description Power Machine Domestic Weight Weight Cubic Feet Weight Speed Belt Driven Machine 2000 2300 101 74-B Four Speed Belt Driven Machine 2000 2600 101								
		EXTRAS								
	Exist Exotic Exotif Exotik Exov Exovic	Boring Bits, 6" twist, state size desired. Two endless leather belts, for driving the two spindles only. Endless leather belt for driving countershaft on No. 74-B. Endless leather belt from motor to upper drive shaft of No. 74-B. Wire Mesh Guards for belts and pulleys of No. 74-A. Wire Mesh Guards for belts and pulleys of No. 74-B.								
	Expel	Little Giant Chuck to take shanks 0" to \(\frac{1}{2}\)" diameter.								

"Oliver" Little Pattern Makers

Cutters

These are useful cutters for the purpose of working out small core boxes, making fillets and routing. They may be best used on a Boring or Profiling Machine, though they can be used in a lathe or any tool that has a spindle fitted to receive them.

Adaptation

The philosophy of these cutters is that the broad, circular band of the cutter, just above the knife edge, forms a rub-collar and any irregular shape or pattern bandsawed as required (say, ½" to ½" thick) and tacked temporarily to top of work, allows the work to be pushed or pulled by hand under the cutter with the collar pressed against the pattern, if cutter is sunk into the work beyond the pattern the path just cut acts as a guide for cutter. A very simple, quick and effective way of working out core boxes, slots, etc.







Shapes and Sizes

They are made in a variety of shapes and sizes and perform a large amount of the old hand work in about one-quarter of the time, and do it more correctly.

Fillet Cutter

These cut the fillet into the pattern, and thus avoid using leather or other fillet that must be glued in and which often comes loose after being in the sand. They can be used where it is necessary to cut a recess and level it or in leveling a spotting cut around any shape leaving a fillet in the corner.

Core Box Cutter Routing Cutter These are made to cut a half round in straight, angle or curved lines; work out small boxes for taps, dies or other small tools, corrugated work, etc.

These are for routing flat grooves, either straight or curved. Will groove stair stringers, shelving, etc.

By using a set of these in the shop, one saves the time of one pattern-maker, saves buying destructible fillet; saves money in finishing by hand; saves time in making a pattern. They will not spoil the work, but on the contrary will improve its quality.

No. 1. The fillet and recess done by 1/2-inch fillet cutter.

SPECIMENS OF WORK



No. 2. Core Box done with 1-inch cutter.



No. 3. This shows works of the three styles of cutters.



No. 4. Section of stair stringer grooved by 7/8-inch routing cutter.



No. 5. Sample of work done with fillet cutter and 1-inch core box cutter. The large recess is 3½-inch in diameter.



No. 6. Showing round and flat bottom mortises made with core and routing cutters, respectively.

Order b	y number—give exact	diamete	r and length of	shank.	State nam	e of ma	chine i	n whic	h will be u	sed			
Code Fabub			NO. 210 F	ILLET CU	JTTERS				20 4	Jou.			
rabub	Nos 210A Radius ¹ / ₈ "	210B 1⁄4″	210C 210D	210E	210F	210G	210H	210J	210K	210L			
	78	74	3/8" 1/2"	5/8"	3/4"	1"	11/4"	$1\frac{1}{2}''$	13/4"	2"			
Fabuf	Nos. 211A 211B		NO. 211 CO		CUTTER	S							
rabui	Dill			211F 211	G 211H	211 T	211K	211L	211M 211N	211P			
	Diam. $\frac{1}{4}''$ $\frac{3}{8}''$	1/2"	, , , ,	1" 11/4		13/4"			21/2" 23/4"	3"			
73.1.1	NO. 212 ROUTING CUTTERS												
Fabuk	Nos.	212A 1/2"	212B 212C	212D	212E	212F	212G	212H	212 T	212K			
~.	Size	5/8" 3/4"	7/8"	1"	11/8"	11/4"	11/"	13/."	2"				
Give us	your requirements for	special	size and shape	cutters ar	d we wil	l be plea	sed to s	submit	prices.	-			