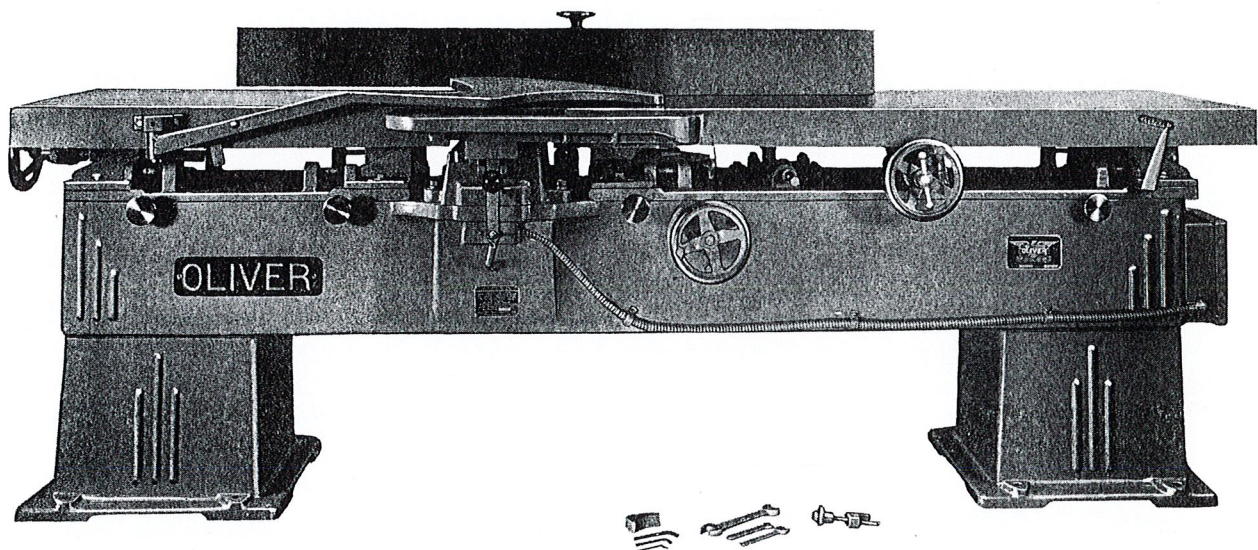




*"Every User
is a Booster"*

"Oliver" No. 12 Hand Planer and Jointer



Front View of No. 12 — 20-inch Hand Planer and Jointer.

**Front Table
Tilts Sideways
up to 5° for
Planing Draft
on Pattern
Lumber**

Manufactured by

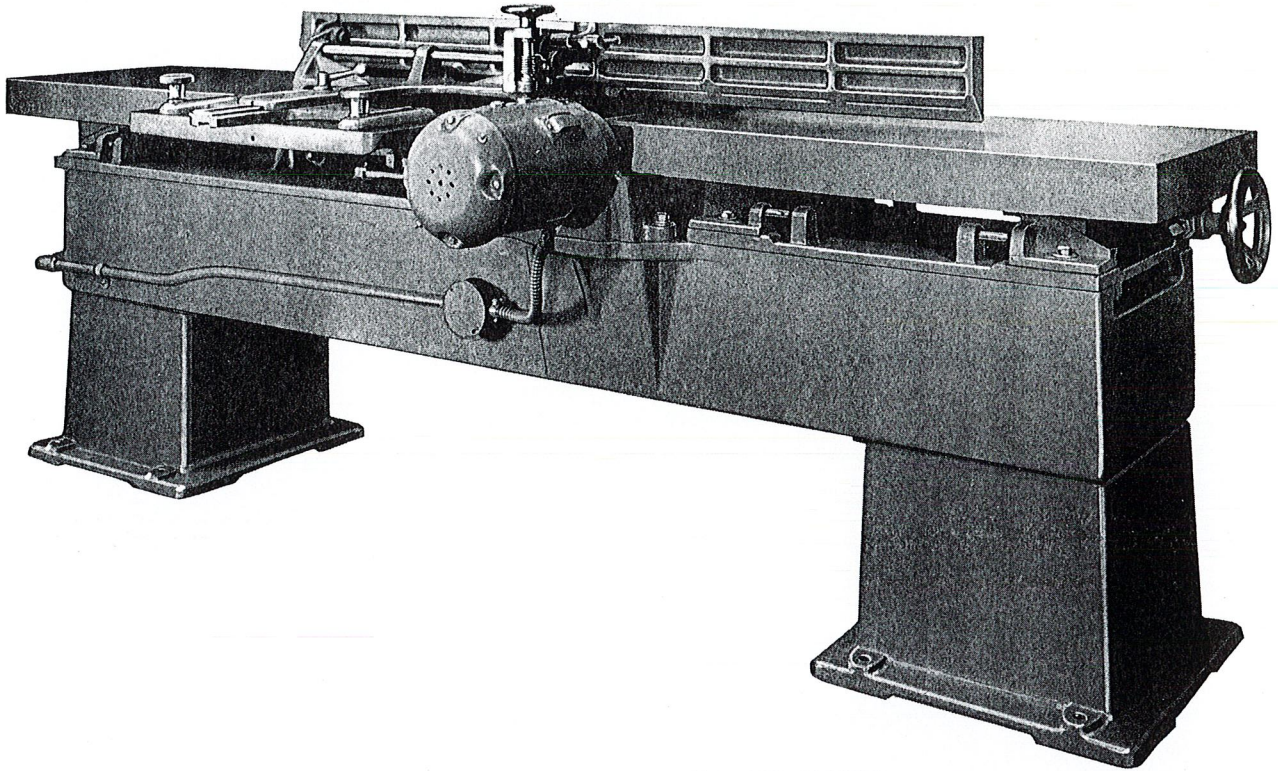
Oliver Machinery Company

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

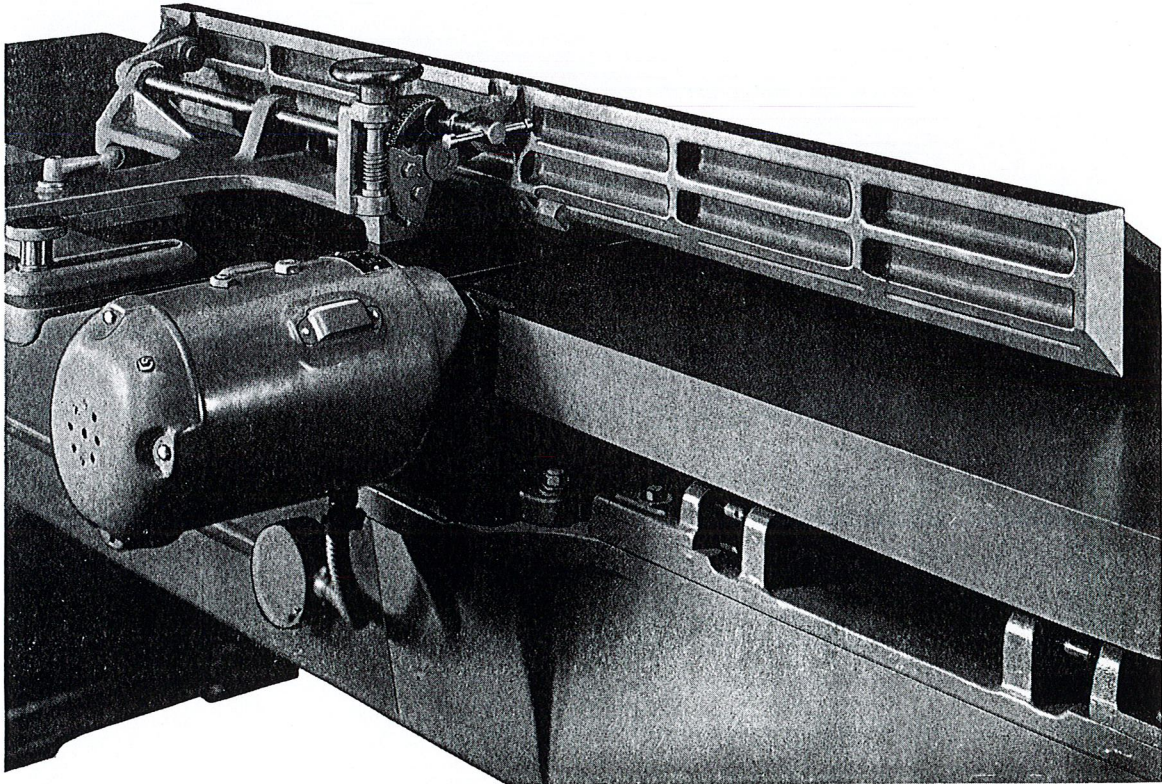
BRANCH SALES OFFICES:

New York, Atlanta, Pittsburgh, Cleveland, Detroit, Chicago,
St. Louis, Minneapolis, Denver, Salt Lake City, Seattle,
Portland, San Francisco, Los Angeles.

OLIVER MACHINERY COMPANY  GRAND RAPIDS, MICHIGAN, U.S.A.
NO. 12 'OLIVER' HAND PLANER AND JOINTER



NO. 12 "OLIVER" HAND PLANER AND JOINTER
Made in three sizes, viz.: To plane 20, 24 and 30 inches wide. Rear View showing direct motor drive.



This view shows the jointer fence which is regularly furnished with the machine. It is a heavy ribbed casting, accurately machined and ground to give perfect joints.

Introduction

This machine has been designed to meet the demands of a class of purchasers who recognize the fact that the best is cheapest. To produce it we have spared neither skilled labor nor material. They are used to plane smoothly, or true-up long or short pieces of lumber or timber, taking them out of wind, making glue joints, planing draft on pattern lumber, etc. Where high grade work is the requirement they are most profitable.

Capacity

We make this machine in three widths, viz.: to plane 20 inches, 24 inches and 30 inches wide, and the tables may be adjusted to take a cut $\frac{3}{4}$ -inch deep when desired.

Bed

This is very heavy, mounted on two cabinet columns which places it on a very firm foundation, dissipating all vibration and allowing greatest foot room possible for the workman.

Table

Tables are rigid, proportionately made, and are provided with all the conveniences for promptly adjusting them to perform their functions. Front or in-feed table is 5 feet, 4 inches long and 2 inches wider than length of knife. Rear or out-feed table is 3 feet, 3 inches long and 1 inch wider than length of knife. Vertical adjustment of tables $\frac{3}{4}$ inch and each table draws away from the cylinder 18 inches to provide ample working space when

changing knives. Will rabbet to $\frac{3}{4}$ " depth.

Table Tilting Device

One of the distinctive features of this machine is the fact that the front table tilts sideways up to 5 degrees. By means of this the pattern maker can obtain the draft upon every straight piece of wood that passes through his hand. This one point alone adds exceptional value to the machine for this particular work. It operates the rockers upon which the rear table rests and by means of a handwheel and screw the table may be adjusted to give the required taper, or draft to the work. In order to obtain draft over full width of table it is necessary to gradually lower the rear table upon the shoes and plane the material several times until the full length of the knives is in use. Upon stock less than one-half of the width of the table this is not necessary. Very sharp or acute angles of any degree desired may be obtained by simple repetition of the above operation.

Table Throats

These tables are faced at the throat next the cutting cylinder with finished steel angle plates which may be replaced at any time should the edges become badly nicked or worn from the use of special projecting knives or other causes.

Sliding Frames

These carry the work tables and move in dovetailed ways planed in the bed. They are easily withdrawn for convenience in sharpening or removing knives. To them are bolted the shoes for the adjustment

of the work tables, the rockers upon which the table rests and also the screws and hand wheels which raise and lower for depth of cut.

Shoes

These are tongued and grooved to the sliding frame and securely bolted. They also have large flat bearing surfaces and are gibbed by separate gibs running in slots which hold the work table securely to the sliding frame. These surfaces are all milled and accurately scraped and keep the correct plane, or level, of the tables at all times.

Cylinder Yoke

This carries the cylinder and is made in one solid piece and bolted to the bed. This is a very desirable feature.

Cylinder

This is made of forged crucible steel and machine ground to a perfect running balance; of the circular "Safety" type, through the use of which danger of a serious injury to the hand is entirely eliminated, giving operator a feeling of absolute safety. Regularly equipped with three high-speed thin steel knives; may be equipped with four or more knives if desired. Cutting diameter 5 inches, speed 3600 r.p.m.

Cylinder Bearings

Ball bearings of the highest grade and over size capacity are used. We guarantee our ball bearing construction as the very best and most efficient type of bearings for hand planers and jointers.

Rabbeting Attachment

This device is furnished with each machine. It may easily be removed at any time and as it presents a wide supporting surface for stock being rabbeted it is preferred to the old style rabbetting groove in the receiving table.

Fence

This is held in position on the slide which is bolted to the table. It may be moved backward or forward the full width of the table. It may also be set at any angle from square to 45 degrees by means of a worm and wheel. When the fence is not used it rests on the table extension bracket out of the

way of the operator, leaving the table clear. Fence is 5 feet long, 5 inches wide.

Guard

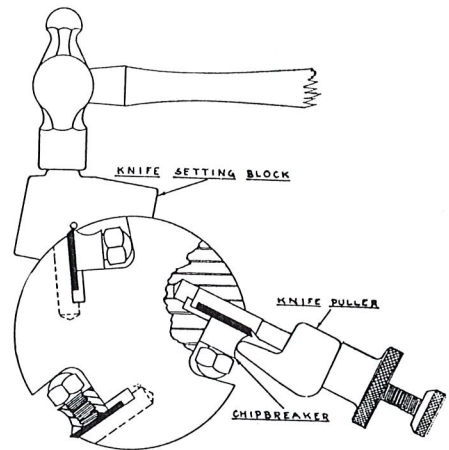
An "Oliver" Automatic Cylinder Guard is regularly furnished with all "Oliver" Hand Planers and Jointers.

Motor Drive

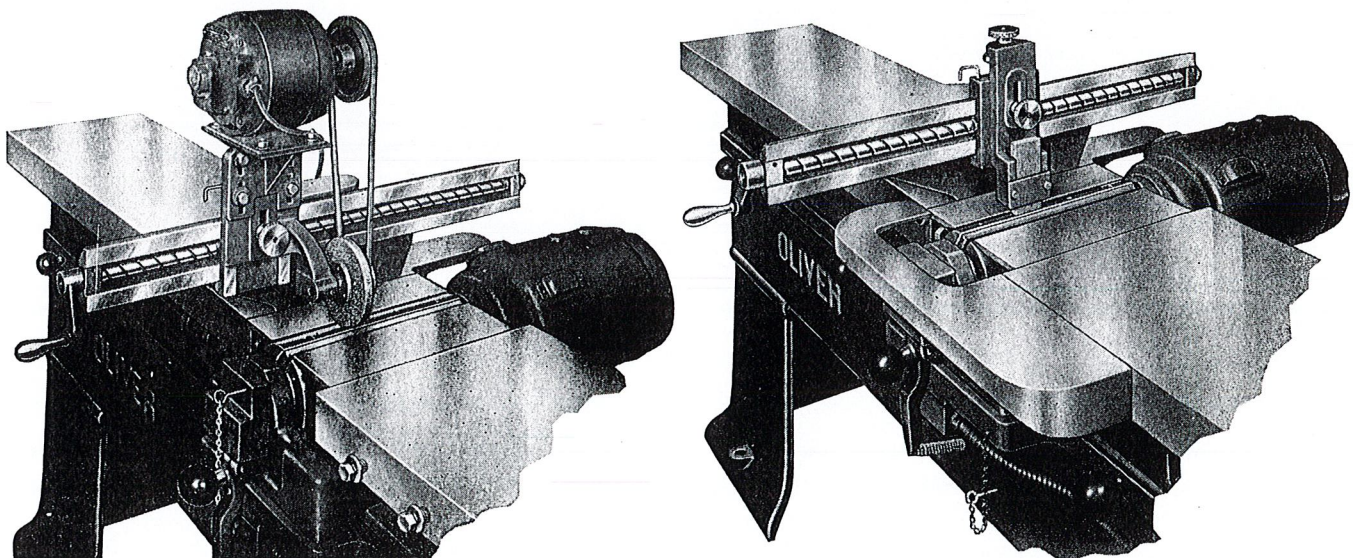
Three types of motor drive are possible: "Shaftless" motor drive for polyphase A.C., "Coupled" motor drive for 3600 r.p.m. motors either A.C. or D.C., "Belted" motor drive for any kind of 1800 r.p.m. motors. State the phase, cycles and voltage of your electric current and we will recommend the best motor drive for you.

Equipment

We furnish one circular safety cylinder with three high speed steel knives, and the regular wrenches.



Cross Section of Cylinder showing Details of the Three Knife Cutter Head and the Method of Using the Knife Puller and the Knife Setting Block, both of which are regularly furnished.



"OLIVER" MOTOR KNIFE GRINDING AND JOINTING ATTACHMENTS
 With New Style Extra Rigid Bar fastened on the rear Table of Jointer (8-inch to 16-inch sizes), with two Cap Screws in two Tapped Holes. For Jointers larger than 16 inches a different Bar with two legs will be provided.

CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	HORSE POWER	WEIGHT IN POUNDS		CUBIC FEET
			CRATED	BOXED	
Divib	No. 12-BC to plane 20 inches wide.....	5	3200	3900	115
Divic	No. 12-CD to plane 24 inches wide.....	5	3500	4250	130
Divid	No. 12-DD to plane 30 inches wide.....	7½	3800	4650	145

EXTRAS

Knife Setting, Jointing and Motor Knife Grinding Attachments.