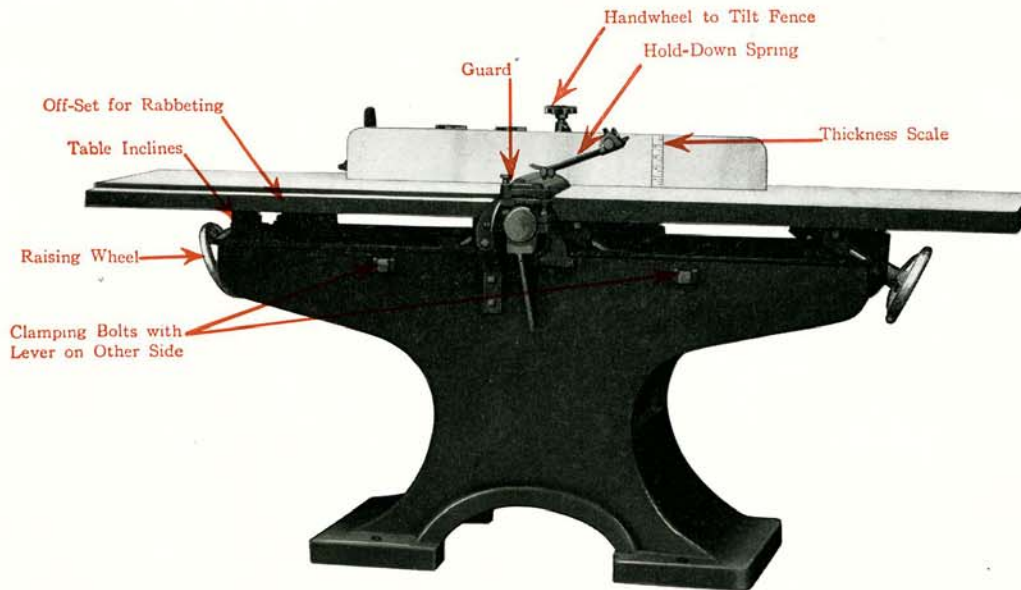


Crescent Jointers

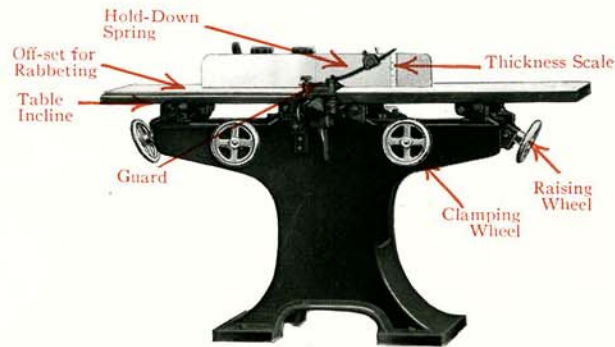
8, 12, 16, 18, 20 and 24 inch



12, 16, 18, 20 and 24-Inch Crescent Jointers
(Patented)

STRONG & COMPANY
253 N. 1st St.
Rochester, N. Y.

THE CRESCENT MACHINE COMPANY
LEETONIA, OHIO, U. S. A.



8-Inch Crescent Jointer
(Patented)

A JOINTER is used for straightening lumber. It is sometimes called a hand planer or a buzz planer. It will plane one surface straight and will take the wind out of a twisted or crooked piece of lumber. When the fence is set at an angle of 90 degrees with the table it will bring one surface square with another on dimension stock. By tilting the fence to the proper angle, accurate bevels may be planed. A Jointer is not intended for surfacing boards to uniform thickness. For this purpose a planer or surfacer must be used. By placing special cutters in the jointer head the machine may be adapted for beading, grooving, making molding and other similar work.

Substantial and Free From Vibration

The Frame of the Crescent Jointer is cast in one piece, cored out hollow with wide base bearing solidly on the floor at both ends of the machine. This design of frame gives the machine a stability and stiffness that insures accuracy and durability. It is impossible for the frame to twist when set on a floor that is slightly uneven and the strain is all absorbed in the lower portion of the frame. The overhanging parts of the frame that support the tables are made extra deep, well ribbed, so the tables will remain accurately in line. The shavings are delivered to the rear end of the machine by a proper chute.

The Bearings are an important part of any machine and on CRESCENT Jointers are made with special care. The lower part is cast solid with the frame, insuring permanent alignment. A cover is cast over the end of bearing on the operating side of the machine to prevent oil from getting on operator's clothes. The Bearings are lined with best grade of high speed babbitt, and are provided with liners to adjust for wear; also with large oil chamber and capillary felt, making them practically self-oiling.

Ball Bearings. At a slight additional charge CRESCENT Jointers may be supplied with the head mounted on S.K.F. self aligning ball bearings. The application of ball bearings to CRESCENT machines has been thoroughly tested out over a period of years and the machines have been found to operate continuously and satisfactorily with only a minimum of attention to the bearings.

Table Adjustments. The inclines upon which the tables are supported are carefully and accurately made so that the tables stay parallel with each other while being raised and lowered. They are adjustable for keeping tables in perfect alignment. Adjustable clips hold the tables to the incline slides and take up wear.

The Inclines are bolted to sliding sash that are gibbed into main frame on dovetailed ways, allowing the tables to be drawn horizontally away from the head without disturbing their vertical adjustment in the least. This is convenient for sharpening or changing knives.

The Hand Wheels on side of frame hold tables firmly when in their proper position, on the 8 inch Jointer. Two lock levers on rear side of machine answer the same purpose on the large Jointers. These levers can easily be changed to stand on front side of machine, when so desired, but are more out of the way when left on rear side.

The Tables. The front and rear tables on Crescent Jointers are made of equal length and either table may be vertically or horizontally adjusted independently of the other. The accuracy of the finished work depends mainly on the length and accuracy of rear table, therefore the rear table should be as long as the front one. Heavy ribs and flanges keep the tables permanently straight.

Guaranteed Smooth Running and Accurate

Fig. No. 172 shows how rabbeting may easily be done on any CRESCENT Jointer. This is a regular feature and need not be mentioned when ordering.

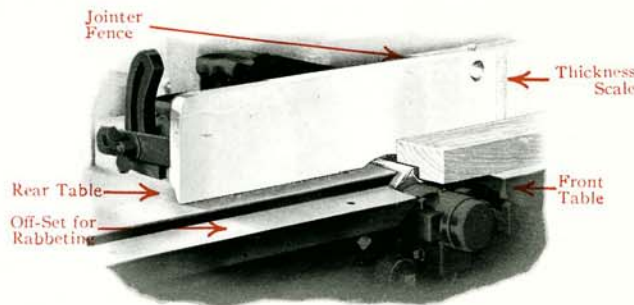


Fig. 172

The Lips, (the ends of tables next to the throat) are regularly formed solid with the table casting, which is accurately machined on the under side, insuring a minimum opening of $1\frac{5}{8}$ inch between the tables. This feature alone helps to increase the safety of the operator.

Steel Lips can also be furnished at a slight advance in price.

The Heads. All CRESCENT Jointers are furnished regularly with Crescent Safety Heads, unless otherwise specified. A description of the head is not necessary as the illustration Fig. No. 136 very clearly shows the details of construction.

Four sided square heads having two sides slotted for attaching special cutters can also be furnished at same price as safety heads. Because of excessive danger to the operator, square heads are not recommended.

The Tilting Fence can be moved to any position across the table. It is provided with a pressure spring to hold work down on the table; this is convenient when working thin strips. For all CRESCENT Jointers, the fence is made tilting to suit for bevel work and can be set at any angle from square to 45 degrees.



Fig. 136

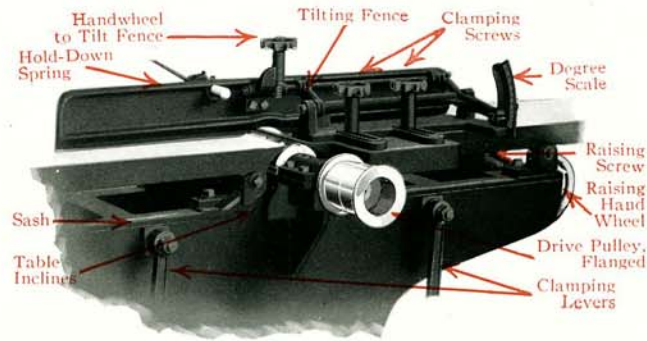


Fig. 215

The tilting fence on the 12, 16, 18, 20 and 24 inch Jointers is adjusted by means of a hand-wheel and worm gear; a graduated scale being provided to indicate the degrees of angle. This arrangement is convenient for fine adjustment.

On the 8 inch Jointer, the fence is tilted by means of a thumb-screw working in a slide; and the degree scale is omitted.

to another takes less than five seconds' time and may be done while machine is in motion, as the guard has clearance along its front edge, and cannot get into the knives. When in position it covers the unused portion of the head.

A Vertical Scale on the face of the fence shows in advance the exact thickness the piece will be after the cut is made. For instance, a block of

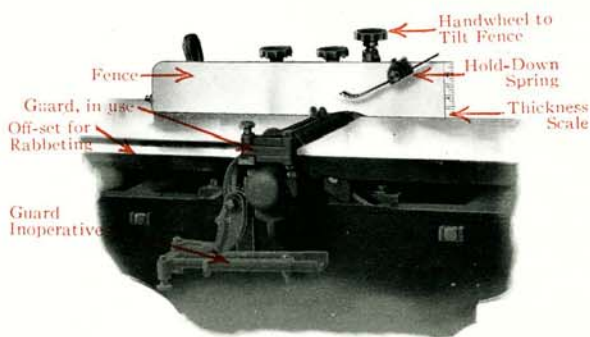


Fig. 226

The Jointer Guard (patented) may be folded down against side of machine in an instant, leaving table clear; and may just as quickly be brought up to working position again. No wrench or tools of any kind required for changing from one position to another; simply lift the latch, then hinge the guard around till it clears the edge of table, then hinge down against side of machine, where it will be entirely out of the way. To replace into position, the operation is simply reversed, when the latch will snap into place by means of a spring. To change from one position

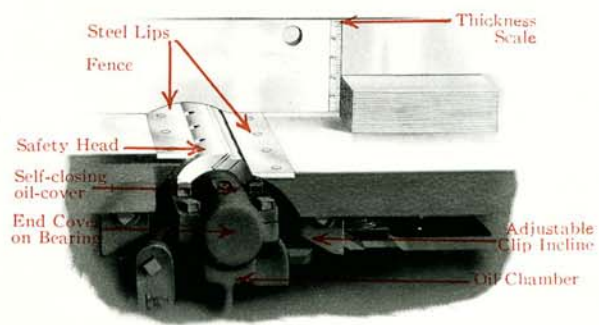


Fig. 160

wood is $2\frac{1}{4}$ inches thick, and it is desired to reduce it to 2 inches in thickness; lay it on the front table and lower the table till the top of the piece is opposite the 2 inch graduation, then make the cut, and the piece will be found to be of the desired thickness. The lower edge of the fence always rests on the rear table, hence the thickness of the piece after the cut is made will always correspond to the graduations on the scale, as shown before the cut is made. This is an original CRESCENT feature and one that will prove valuable on many kinds of work.

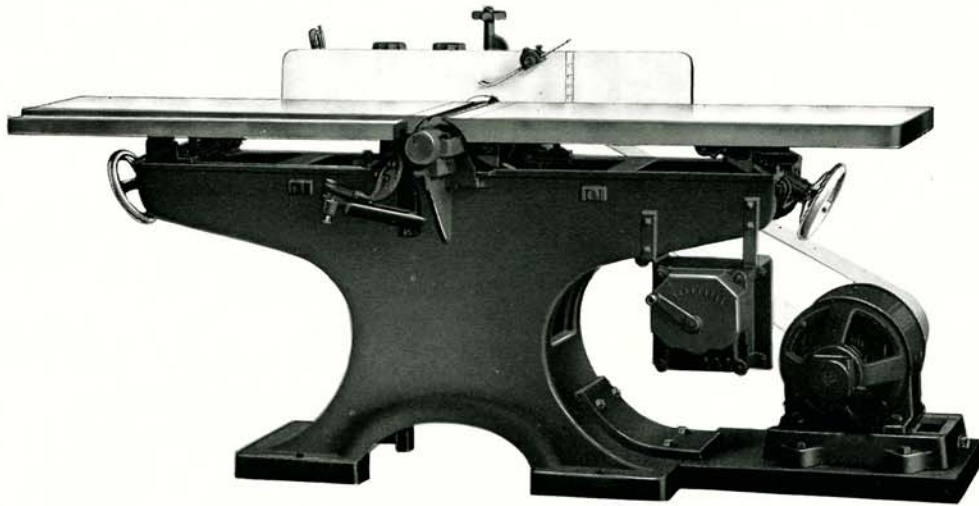


Fig. 270

Motor Driven Jointer. The illustration of belted motor drive shows how CRESCENT Jointers may be driven by direct current motors and by 25 cycle alternating current motors. Any regular motor with proper size pulley may be used for driving the machines in this way.

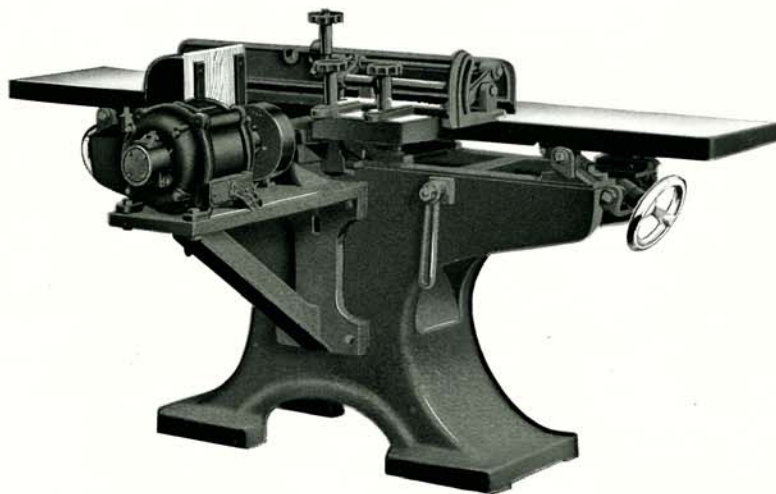


Fig. 240

Direct Motor Drive. This application of electric power for driving CRESCENT Jointer is convenient where the current characteristics are such as to make it possible. The motor must run not less than 3600 RPM and may be attached direct to the head of the Jointer by means of flexible coupling. This style of drive is adapted for 110, 220 or 440 volt, 60 cycle, 1, 2 or 3 phase and direct current.



Fig. 300

In another very compact application of motor drive for the CRESCENT Jointer the rotor of the motor is mounted directly on the Jointer Head. The stator of the motor is attached to the frame of the machine. This does away with the use of flexible coupling and gives a neat and attractive

appearance to the outfit. This is a popular method of driving by motor and one that has proven very satisfactory. This style of drive may be used where current is alternating 110, 220 or 440 volt, 60 cycle, 1, 2 or 3 phase.

Dimensions

Length of Knives, inches.....	8	12	16	18	20	24
Length of Front Table, inches.....	31½	40	40	40	40	40
Length of Rear Table, inches.....	31½	40	40	40	40	40
Length Overall, inches.....	65	82	82	82	82	82
Width of Tables, inches.....	13	15½	19½	21½	23½	27½
Height of Table from Floor, inches.....	33	33½	33½	33½	33½	33½
Diameter of Pulley on Head, inches.....	3½	4	4	4	4	4
Widest Belt to be Used, inches.....	2½	4	4	4	4	4
Size of Bearing, Pulley End, inches.....	1¼x4½	1½x7	1½x7	1½x7	1½x7	1½x7
Size of Bearing, Operator End, inches.....	1¼x3½	1½x5	1½x5	1½x5	1½x5	1½x5
Size of Tight and Loose Pulleys, inches.....	8x3	10x5	10x5	10x5	10x5	10x5
Speed, Countershaft, revolutions per minute.....	900	800	800	800	800	800
Giving Head, Speed, revolutions per minute.....	4000	4000	4000	4000	4000	4000
Floor Space, Exclusive of Countershaft, inches.....	21x64	31x82	35x82	37x82	39x82	43x82
Horsepower Required.....	2 to 3	3 to 4	3 to 4	4 to 5	4 to 5	4 to 5
Cubic Measure, Boxed for Export, feet.....	25	42	50	52	56	62
Gross Weight, Boxed for Export, pounds.....	900	1500	1650	1775	1900	2100
Domestic Shipping Weight, pounds.....	800	1375	1525	1625	1700	1800
No. of Machine with Safety Head, solid lips.....	No. 83	No. 123	No. 163	No. 183	No. 203	No. 243
Telegraphic Code Word.....	Gordi	Gowan	Guste	Hecti	Hebin	Henco
No. of Machine with Safety Head, Steel Lips.....	No. 85	No. 125	No. 165	No. 185	No. 205	No. 245
Telegraphic Code Word.....	Herme	Heran	Hatis	Hamar	Hugos	Hymen

Mail orders should mention number of machine; telegraph orders should mention code word. Further designation is not necessary.

Regular Equipment. Each belt driven machine is furnished with one countershaft, fitted with self-oiling loose pulley, and belt shifter, one tilting adjustable fence, one pressure spring, one wrench and one Jointer Guard. Safety Head, and solid lips furnished on all Jointers, unless otherwise designated. The eight inch jointer has two knives and the 12", 16", 18", 20" and 24" have four knives in the head. Countershaft is not furnished with motor driven machines.

