SINGER MACHINES OF CLASS 7

(LOCK STITCH)

FOR

STITCHING SAILS, TARPALINS,
TENTS, WAGON COVERS, ETC.

Machines Nos. 7-31, 7-33 and 7-41, Single Needle
and
Machine No. 7-27, Two Needles

Machine No. 7-31

Machines Nos. 7-31, 7-33 and 7-41 single needle, and No. 7-27, two needles, illustrated and described herein, are especially adapted for stitching sails, tarpalins, tents, wagon covers, etc. These machines are strongly constructed and are the most successful on the market for use in the manufacture of articles made from all descriptions of heavy fabrics. The machines are efficient and reliable under all conditions and will withstand hard usage. Although built for heavy service they require a minimum of power and are economical in operation.
Machine No. 7-33 on Table No. 5201 and Foot Power Stand No. 25207

The Single Needle Machines Nos. 7-31, 7-33 and 7-41 can be driven up to a speed of 550 stitches per minute according to the length of stitch and class of work. Each of these single needle machines is equipped with two alternating presser feet. One foot assists in feeding the work forward while the other foot lifts and descends at alternate periods to hold the work. Roughness or unevenness of fabric cannot therefore interfere with the efficiency of the feed of these machines.
Machine No. 7-31 is fitted with the Singer Driving Attachment (as shown on pages 6, 7 and 8) which enables the operator to run the machine at varying speeds by varying the pressure on the treadle.

Machine No. 7-33, when driven by power, can be connected with a round belt to the transmitter as shown above, the small balance wheel No. 11356 being used. A flat belt connection is made between the transmitter and the shaft of the iron work. Slackness of belt can be instantly taken up, the transmitter having a convenient adjustment for this purpose. When used on a foot power stand, Machine No. 7-33 is fitted with the larger balance wheel No. 11358, as shown on page 2.

Machine No. 7-41 is equipped with tight and loose pulleys and a convenient form of belt shifter for a flat belt as shown on page 4.
Large work is easily handled on Machines Nos. 7-31, 7-33, 7-41 and 7-27, there being a clear working space of 15\(\frac{3}{4}\) inches at the right of the needle bar. The length of stitch is adjustable from \(\frac{1}{8}\) to \(\frac{3}{8}\) inch. To assist the operator in guiding the work an adjustable guide is furnished with each of the machines.

The shuttle in these machines carries a large bobbin of ample thread capacity. This is found to be an especial advantage when heavy thread is being used.

These machines are fitted with the latest type of automatic bobbin winder which is located at the front of the arm. Bobbins can be wound while the machine is stitching.

As shown in the above illustration, Machine No. 7-41 is furnished with tight and loose pulleys and belt shifter. The machine starts by depression on the treadle, and when the treadle is released, a spring moves the shifting fork with the belt to the loose pulley at the right.
Machine No. 7-27 (two needles) Equipped with Tight and Loose Pulleys and Belt Shifter

The above illustration shows the two needle machine No. 7-27 mounted ready for operation on a power table. This is one of the most satisfactory two needle machines of Class 7, the distance between the needles varying from $\frac{3}{4}$ to 1 inch as desired. This machine can also be furnished with a wider needle gauge, varying from 1 to $1\frac{1}{2}$ inch, at extra cost. In all cases the distance between needles should be specified on the order for the machine. The length of stitch can be adjusted from $\frac{1}{8}$ to $\frac{1}{2}$ inch. The machine can be driven up to the speed of 500 stitches per minute according to the length of stitch and the class of material being sewn.

This machine has upper and lower feeding mechanism consisting of a feeding foot and drop feed either of which can be independently adjusted to feed the upper or under plies of fabric faster or slower as desired. It is also equipped with a foot lifter enabling the operator to more easily manipulate the work with the hands.

When ordered, lap seam fellers can be furnished at an extra charge for use with this machine. The gauge of the machine should be specified on the order for lap seam fellers, and the order must be accompanied with a sample of the material to be felled.

Machine No. 7-38 is similar to Machine No. 7-27 but is equipped with Singer Driving Attachment in place of tight and loose pulleys and belt shifter.
Machine No. 7-31 on Table No. 5283 and Iron Work No. 27244
Equipped with Singer Motor SD-101 or SD-102

Singer Motor SD-101 for 120 volts or SD-102 for 230 volts direct current are of \( \frac{1}{2} \) H. P. with an approximate speed of 950 R. P. M. and are designed for inverted suspension under Table No. 5283 for the operation of Class 7 machines equipped with Singer Driving Attachments, by direct flat belt connection. They are supplied with a 4" x 1\( \frac{1}{2} \)" double flanged iron pulley and conveniently located switch.

In addition to the economy and convenience of the individual drive equipment as illustrated above for general use in sail lofts and factories, its portability especially adapts it for use on ships of the naval and merchant marine, as it need not be permanently attached to a floor or deck but may be moved as desired and the suspended position of the motor protects it from damage by water when decks are flooded, or washed.

All inquiries and orders must state whether current is direct or alternating, voltage, and if alternating, the cycles and phase.
The equipment illustrated above is designed for operation by Singer motors SA-203 to SA-206 of $\frac{1}{2}$ H. P. for alternating currents. These are polyphase motors of 60 cycles and have a speed of 1760 R. P. M. They are of the belted type and when used with iron work No. 41160 are bolted to the floor at the rear or to overhead supports as preferred.

Portable individual motor drive equipment similar to that described on page 6 is also furnished with motors SA-203 to SA-206 for alternating currents. These motors have bearings constructed so that the oil cups may be reversed for inverted suspension, but where they are to be so used, it should be specified on the order. The portable equipment consists of the proper motor, table No. 5376, to the under side of which it is bolted, and iron work No. 41164, which has a supported shaft with pulley of 10” diameter for belt from motor and pulley of 6” diameter for belt to machine, to secure necessary reduction in speed.

The use of equipment illustrated and described in this leaflet is not limited to machines here mentioned, but may be used with the other machines of Class 7.
SINGER SEWING MACHINE CO. SHOPS FOR THE MANUFACTURING TRADE

ATLANTA, GA., 68 South Broad Street
Baltimore, MD., 106 West Clay Street
Boston, Mass., 566 Atlantic Avenue
Brockton, Mass., 69 Centre Street
Buffalo, N. Y., 24 Ellicott Street
Chicago, ILL., 1015-1019 West Jackson Boulevard
Cincinnati, Ohio, 113 West Third Street
Cleveland, Ohio, 1225 W. Ninth Street, N. W.
Columbus, Ohio, 117 South High Street
Dallas, Texas, 1305 Main Street
Denver, Colo., 535 Sixteenth Street
Detroit, Mich., Room 201, Kresge Bldg.
Cor. Adams and Park Sts.
Gloversville, N. Y., 29 and 31 W. Fulton St.
Halifax, N. S., 33 Barrington Street
Haverhill, Mass., 153 Essex Street
Indianapolis, Ind., 126 W. Washington St.
Kansas City, Mo., 1209 Grand Avenue
Los Angeles, Calif., 208 West Ninth Street
Lynn, Mass., 66 Munroe Street
Mexico City, Mexico
Milwaukee, Wis., 62 Mason Street
Montreal, Que., Can., 344 Notre Dame St., W.

Nashville, Tenn., 244 North Fifth Avenue
Newark, N. J., 297 Market Street
New Orleans, La., 1011 Canal Street
New York City, 561 and 563 Broadway
Philadelphia, Pa., 924 Chestnut Street
Pittsburgh, Pa., 238 Market Street
Portland, Ore., 402 Washington Street
Quebec, P. Q., Can., 63 Crown Street
Rochester, N. Y., 132 Andrews Street
Salt Lake City, Utah, 43 South Main Street
San Francisco, Cal., 142 Fourth Street
Seattle, Wash., 1317 Third Avenue
St. John, N. B., 45 Germain Street
St. Johns, N. F., 339 Duckworth Street
St. Louis, Mo., 1507 Olive Street
St. Paul, Minn., 29 East Sixth Street
Syracuse, N. Y., 613 South Clinton Street
Toledo, Ohio, 511 Adams Street
Toronto, Ont., Can., 246 Richmond Street, W.
Troy, N. Y., 14 Union Street
Utica, N. Y., 71 Genesee Street
Vancouver, B. C., 615 Granville Street
Winnipeg, Manitoba, Can., 306 Main Street