

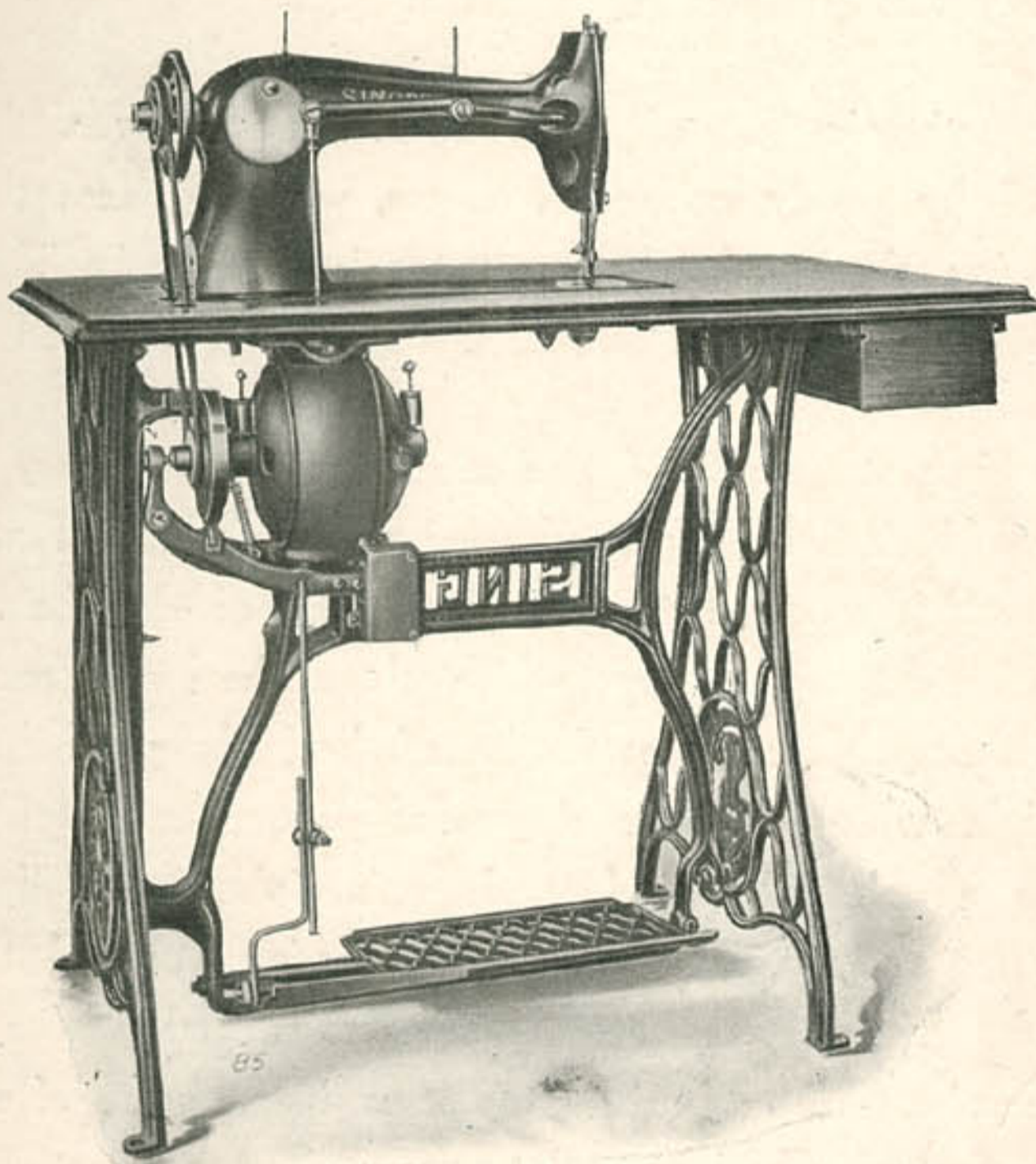
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BULLETIN No. 54.
January 1906.

(Supersedes Bulletin No. 53.)

Motors for Driving Sewing Machines.

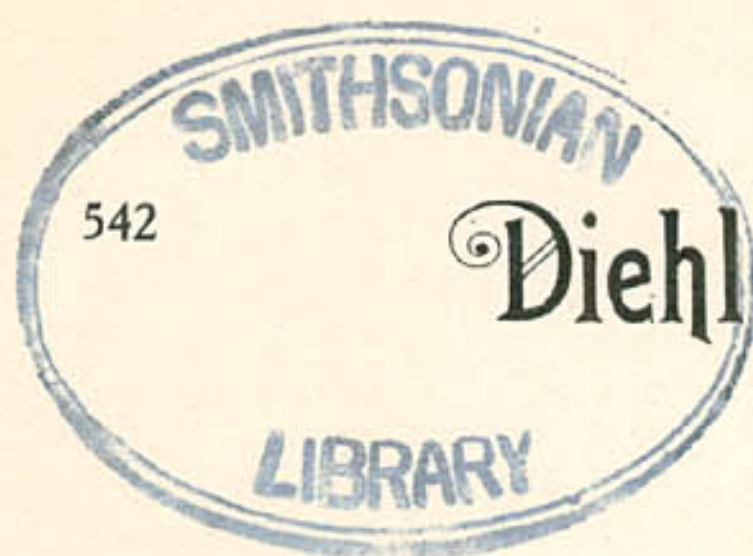
DIRECT CURRENT ONLY.



Diehl Manufacturing Co.

ELIZABETHPORT,
New Jersey.

BRANCH OFFICES:
561-563 Broadway, New York.
128-132 Essex Street, Boston.
1217 Filbert Street, Philadelphia.
207-211 East Jackson Boulevard, Chicago.



Diehl Manufacturing Co.

THE New Diehl Motor for driving individual sewing machines marks a long step in advance in the development of electric power for small machines. It is combined with a transmitter, brake and switch, on a single supporting bracket, which may be attached to any style of table for use with every variety of sewing machines.

The transmitter consists of a friction device and levers giving perfect speed control by purely mechanical means, which replaces the old style speed regulating rheostat. The apparatus is greatly simplified, and the number of parts reduced to a minimum. It is fully protected by patents.

The equipment consists of the motor, switch, necessary levers and transmitter, which includes a pair of friction wheels, one of which serves as a pulley, and is arranged to move lengthwise of the shaft. Pressure on the treadle operates a lever which closes the switch and starts the motor. Further pressure moves the loose wheel along the shaft and engages the tight wheel, and the degree of pressure regulates the friction between the wheels, and, therefore, determines the speed of the driving pulley. When the treadle is released, a spring attached to the lever disengages the friction wheels, opens the switch, and applies the brake. As the connection between treadle and lever is by means of a pitman rod the braking effect may be increased by pressure on the front of the treadle. As the drive depends upon the friction between the wheels, it is evident that by variation of the foot pressure on the treadle, any degree of speed may be obtained from a single stitch to the full speed of the machine.

The motor, being started without load, requires no starting resistance, and attains full speed almost instantly. As a consequence, the treadle may be pressed down to its limit in one movement, and the machine reaches its full speed at once.

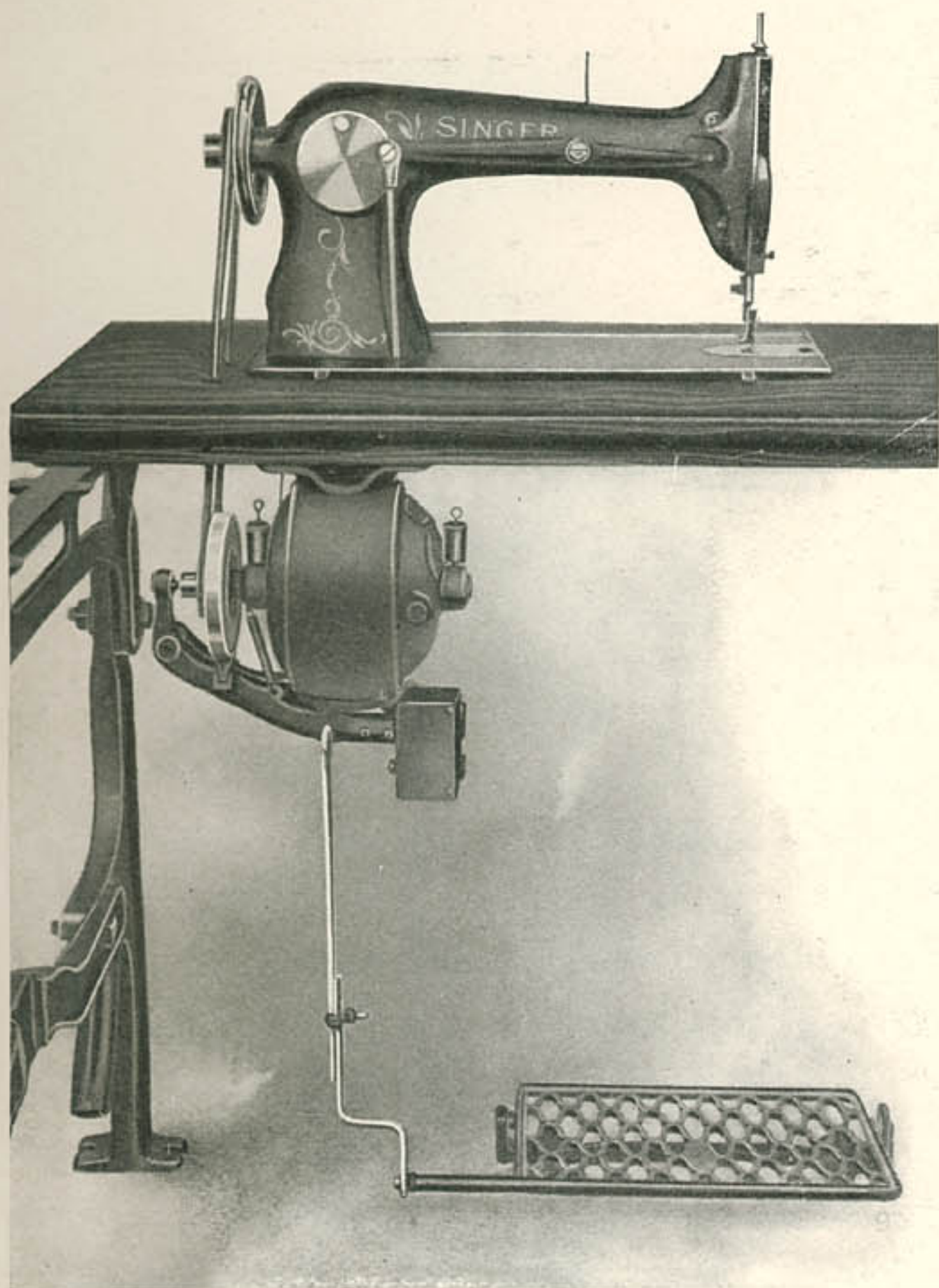
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Diehl Manufacturing Co.

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The motor is of the well known Diehl type, and needs no special description. It possesses all of the Diehl points of excellence, including

silk insulated wire on the armature; commutator of hard drawn copper, insulated with mica; self-aligning bronze bearings, and grease cup lubrication.



The apparatus, as mounted on stand, is illustrated on front page, and for use on power-tables is shown on page 543.

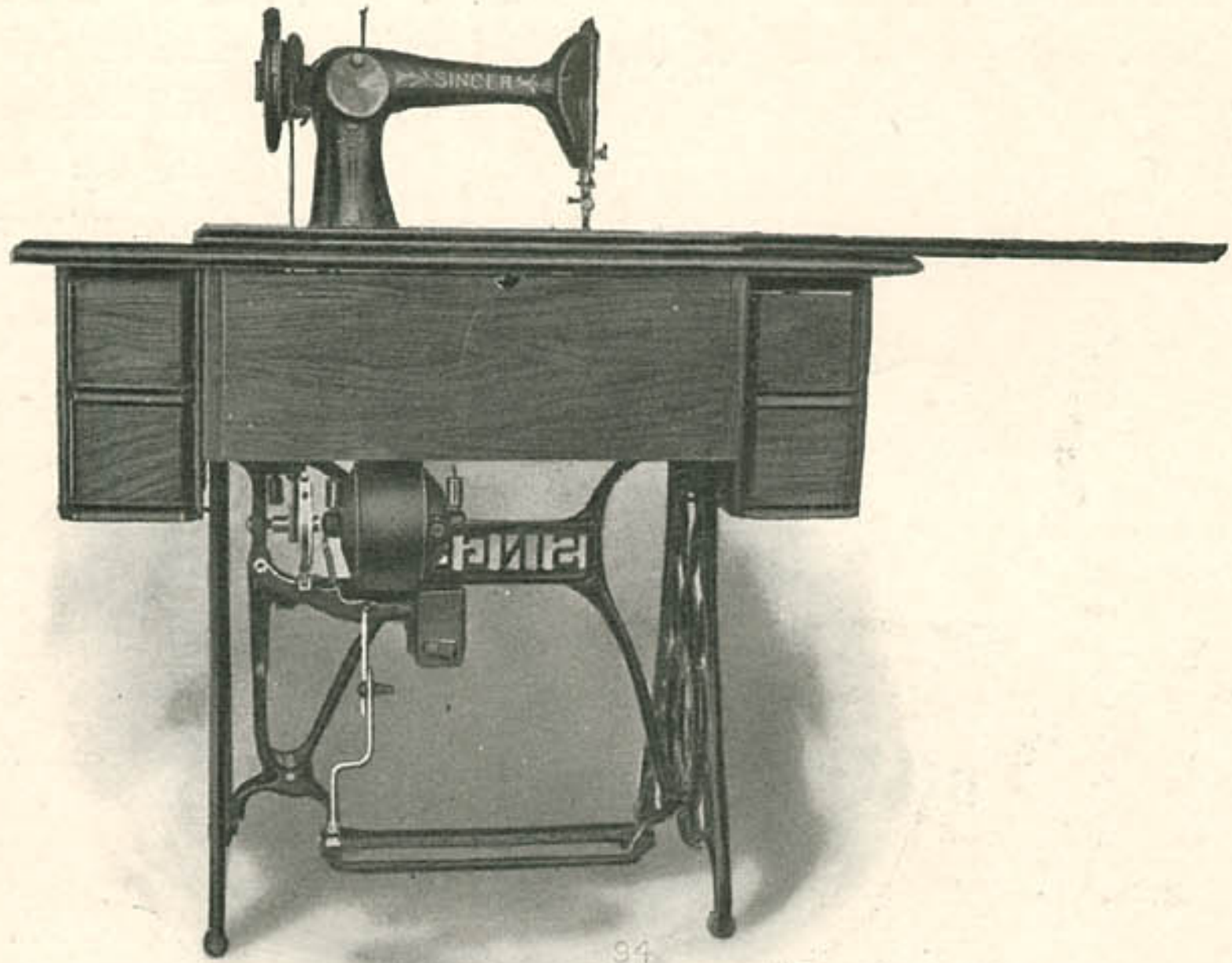
The complete equipment consists of motor, switch, transmitter and brake together with necessary brackets, levers, and pitman rods.



CODE WORD.	Catalog No.	Horse-Power.	Voltage.	Speed.	Price.
Ulster.....	200	$\frac{1}{10}$	110	2600	\$33.00
Ultimo.....	201	$\frac{1}{10}$	220	2900	35.50
Umpire.....	210	$\frac{1}{10}$	110	2800	37.50
Unbend.....	211	$\frac{1}{10}$	220	2700	40.00
Unclasp.....	220	$\frac{1}{10}$	110	2400	45.00
Uncrown.....	221	$\frac{1}{10}$	220	2400	47.50
Uunction.....	230	$\frac{1}{10}$	110	1200	70.00
Under.....	231	$\frac{1}{10}$	220	1300	72.00

A treadle is necessary, and will be furnished, when specially ordered, at an additional price of \$1.00 list. Code word, "Ibis."

Diehl Manufacturing Co.



The application of the Electric Motor to Cabinet Table Sewing Machines is shown in the illustration.

Brackets are furnished for motor and transmitter to fit Singer Machines, and the outfit includes an idler with gravity catch, and belt tightener which serves to guide the belt through the holes in the lifting plate.

No change in the machine is necessary except the removal of the band wheel which is replaced by the bracket carrying the motor.

Price includes motor, transmitter and idler complete with connecting pitman rod to treadle.

CODE WORD.	Catalog No.	Horse Power.	Volts.	Speed.	Price.
Undergo	202	1/10	110	2500	\$35.00
Underlay	203	1/10	220	2900	37.50
Undermine	212	1/7	110	2800	39.50
Underpin	213	1/7	220	2700	42.00