

Established 1887.

Moro, Sherman County, Oregon. Friday, March 20, 1925

Five Cents

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Sherman County Obser- ver Installs New Equip- ment in Printing Office

Model Five Linotype Two Magazine Casts Lines of Type From Metal

Capacity of Linotype Machine Unlimited The Output Depending Solely Upon The Ability and Speed of The Operator

With the issue of the Sherman County Observer this week and with a great deal of pride in the culmination of a hope long deferred, the publisher of the Sherman County Observer announces the installation of a new Model Five Linotype. This mechanical marvel is especially equipped with the necessary type faces to enable this office to serve efficiently those readers who depend upon our publication for enlightenment of the community happenings of Sherman county and also those advertisers who use the columns of the Sherman County Observer to inform our readers of business news that would help them in the purchase of their daily requirements.

The Sherman County Observer has always aimed to be able to keep its printing equipment up to the last possible notch of efficiency to the end that our readers and advertisers would be adequately served at all times. To that end the Sherman County Observer was the first newspaper to install power press equipment in all that eastern Oregon district between The Dalles and Pendleton. The first power used in this office was steam, later gas engine power was used and in connection with the gas power was used electric power supplied from the old city system. Later, when the Sherman Electric Company power lines were built into our county we were the first to discard gas engine power for the present 24-hour electric service.

For the last ten years and up to and including last week, the main portion of the Sherman County Observer has been composed upon a Unitype machine. So named because the operating idea of the machine was based upon the old hand-set system of single types which were used over and over again. The Model Five Linotype, with which the reading portion of the Sherman County Observer is composed this week, operates upon an entirely different principle. This machine casts its own type from brass matrices into lines of various lengths, thus the name Line-of-type, using melted metal. The heat to melt the metal and the power to operate the Linotype is furnished by the Sherman Electric Company.

We invite anyone to come in and watch the Linotype operate. It is a most wonderful machine, intricate and yet very simple in its operation. The capacity of the work that can be done upon the Linotype is unlimited and the range of type faces that can be composed on the Linotype installed in the Sherman County Observer office run from a type face half the size of this type you are now reading to type faces two and a half times as large. In addition we have the choice of a very great variety of fancy letters, initial letters, borders and decorative designs for artistic printing.

THE MERGENTHALER LINO- TYPE.

A machine to set type was the dream of inventors from the time when the printing business began to assume a position of importance among the trades. The original idea was that a machine must handle type-founders' type and compose it into lines with the help of one or more operators. A number of machines were made along this line. One of these machines has been used in the office of the Sherman County Observer for ten years last past. Some were failures entirely, while a few others were perfected so that they would set type, but found to be too expensive to operate. It was through experimenting with a machine for the more rapid transcribing of reports of law cases and the reports of legislative committees that the idea of a slug-casting machine developed.

The Mergenthaler Linotype is the most successful one-man composing machine in the world. It is a single machine which at the will of one operator assembles a line of matrices, casts a slug from them, trims and delivers the slug into a galley ready for use, and finally distributes the matrices back into their respective channels in the magazine, where they are ready to be called down again, in their turn by the touch of the keyboard. With the exception

either the one-letter or two-letter matrix can be used in the same machine, and either character of the two-letter matrix can be used at will.

The spaceband, which is used to separate the words in a line and at the same time "justify" the line to the end of the slug, consists of two steel wedges. One is about the size of and in form somewhat like a matrix the other is about 5 inches long. The two are fastened together so that the long wedge will slide past the short one. The short wedge has two lugs at the top which engage in grooves in the front and back jaw of the first elevator, so that when pressure is applied to the lower end of the wedge, the short wedge is held in position between the matrices, and as the long wedge is forced upward, the thickness of the band or space increases until the line is justified to its full length.

The assembling mechanism is the only part of the Linotype where the human mind is applied to the work of the machine. It is necessary for the eye to read the copy, and the mind, through the medium of the fingers, to translate the copy into assembled lines of matrices; after that the machine acts automatically.

The keyboard is made up of 90 keys, which act directly on the matrices in their channels in the magazine. The slightest touch on the key buttons releases the matrix, which drops to the assembler's belt and is carried swiftly to the assembler. When a word is assembled, the spaceband key is touched and a spaceband drops into the assembler. When the necessary matrices and spacebands to fill the line have been assembled, the operator raises the assembler by pressing the lever on the side of the keyboard. When the assembler reaches its highest point it automatically starts the machine and the matrices are transferred to the casting position.

The casting mechanism consists of the metal pot, mold disk, mold, ejector, and trimming knives. When the line of matrices leaves the assembler, they pass to a position in front of the mold disk. The disk makes one-quarter turn to the left, which brings the mold from the ejecting position, where it stands while the machine is at rest, to the casting position. It then advances until the face of the mold comes in contact with the matrices. The metal pot advances until the pot mouthpiece comes in contact with the back of the mold; at this point the pump plunger descends and forces the metal into the mold and against the matrices. The pot then recedes, the mold disk withdraws from the matrices and makes three-fourths of a revolution to the left, stopping at the ejecting position, from which it started. The slug is ejected and assembled in the galley.

During the last revolution of the disk the bottom of the slug is trimmed off, and in the process of ejection the sides of the slug are trimmed, so that when it drops into the galley the slug is a perfect line of type, ready for the form. After the slug has been cast, the matrices are carried up to the second position, where they are pushed to the right, and the teeth in the V at the top of the matrices engage the grooves in the distributor bar of the second elevator, which descends from the distributor box at the same time that the matrices rise to the second transfer position. The second elevator then rises toward the distributor box, taking the matrices with it, but leaving the spacebands; these are then pushed to the right and slide into the spaceband box, to be used again.

As the second elevator rises toward the distributor box with its load of matrices, the distributor shifter lever moves to the left until the elevator head has reached its place by the distributor box. It then moves back to the right and pushes the matrices off the second elevator distributor bar into the distributor box, where they meet the "matrix lift" and are lifted, one at a time, to the distributor screws and distributor bar proper. The teeth in the matrix and the grooves in the bar are so arranged that when a matrix arrives at a point directly over the channel in which it belongs, it "lets go" and drops into its channel.

If, however, there is a matrix in the line which was not designed to drop into one of the channels operated from the keyboard, it will be carried clear across the distributor bar and dropped into the last channel, and from there it will find its way to the sorts box.

The distribution of the matrices is the most wonderful part of the Linotype. The distributor will handle the matrices day after day and week after week, taking the lines as they come, separating the matrices and dropping each one into its proper channel without an error. It does its work automatically and requires

Continued on page Two

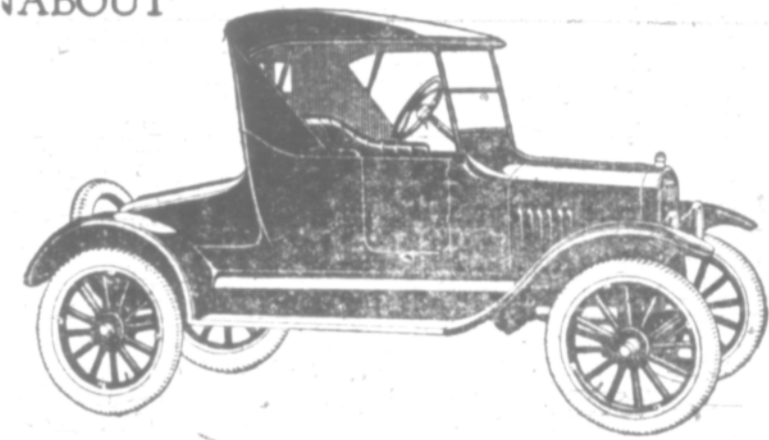
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6	577	8400
7	126	7950
8	134	7800
9	181	7800
10	67	7300
11	559	5800
12	821	5600
13	293	5500
14	879	5350
15	50	5250
16	166	4750
17	555	4500
18	524	4350
19	280	4350
20	53	3900
21	36	3800
22	574	3750
23	47	3600
24	70	3500
25	568	3450
26	566	3350
27	163	3300
28	562	3200
29	73	3200
30	57	3050
31	54	3000
32	283	3000
33	52	2900
34	83	2850
35	194	2800
36	571	2700
37	153	2650
38	242	2650
39	505	2550
40	284	2400
41	63	2150
42	51	2100
43	75	1900
44	66	1900
45	170	1900
46	62	1800
47	58	1800
48	504	1700
49	243	1300
50	74	1300
51	162	1250
52	567	1250
53	572	1150
54	138	1150
55	135	1150
56	570	1100
57	82	1100
58	55	1050
59	159	1050
60	65	850
61	184	850
62	133	850
63	77	850
64	513	800
65	169	750
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