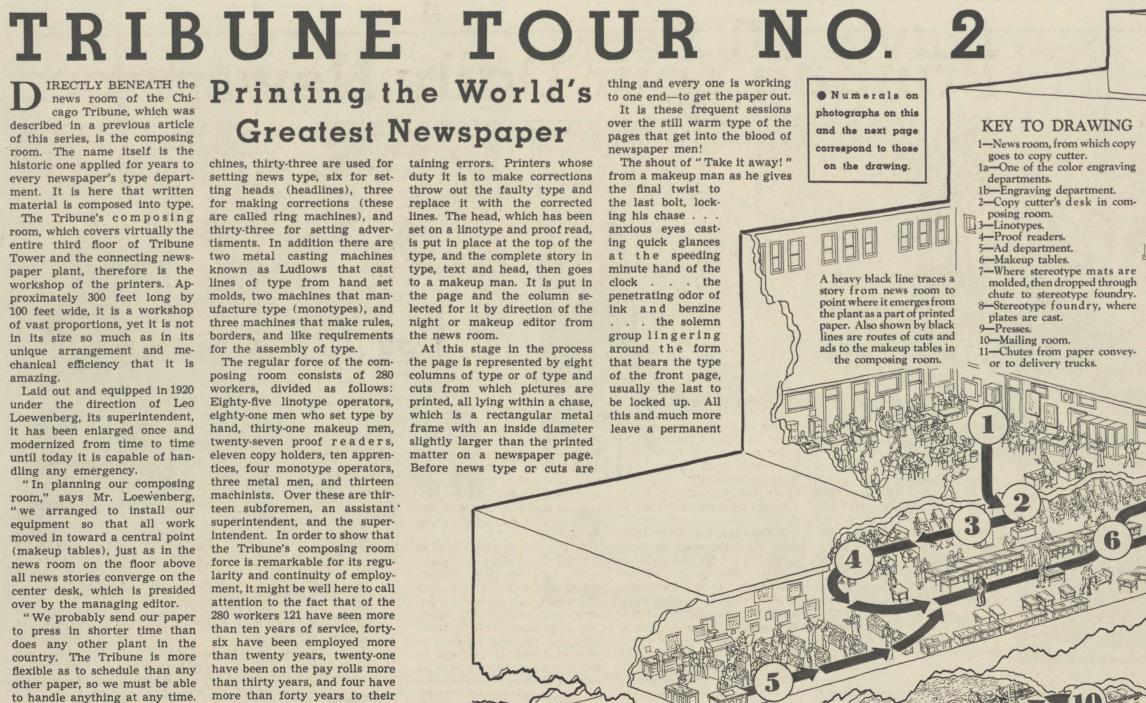
## Page Eight



laily paper is one-half hour." Mr. Loewenberg is well qualified to discuss the Tribune's Returning to the news story composing room. On Oct. 4 last that we are tracing through the une, during thirty-two of which more of the linotype operators, he has performed the duties of The type is assembled in proper room. He learned the printer's shallow receptacle called a

age time for an edition of the

twenty-five minutes. Our aver- ment, which shall be touched on.

ing business.

old hand set paper was limited over to the proof department, in the number of men it could employ. But there are no employment limits to the mechanized newspaper."

### . . .

It is to the composing room that newspaper copy comes, by means of a basket conveyor from the news department. It is delivered to the desk of a worker known as a copy cutter. If the story, which we shall trace in this article, is of any appreciable length it can be handled faster by several linotype operators than by one. So the copy cutter shears the paper upon which it is written into relatively short pieces, each piece being numbered to facilitate the assembly of type later, and passes it out to the men who operate linotype machines.

There are seventy-five of these linotype machines in the Tribune's composing room. They are, in reducing everything to machines, and are operated by ing molten metal to form their are made. system.

Not long ago we set up and credit. Other departments have made up twenty-four pages in similar records of long employ-

he observed the anniversary of department, we find that it has his forty-five years with the Trib- been set up in type by one or superintendent of the composing order in column form in a long. trade setting German type for a gally, and proofs are taken of country newspaper in Washing- the story. A proof is a trial imon, Mo., and joined the Tribune pression of type on a sheet of force as a printer in 1893, the paper, taken for the purpose of year of Chicago's first world's examination and correction. Eleven proofs comprise each set He saw the Tribune's first taken in the Tribune composing linotype machine installed in room. Some of these eleven are 1895, and is enthusiastic when sent to the Tribune's syndicate it comes to telling how machines department, others go to correof this description have revolu- spondents of out of town papers tionized the newspaper publish- who have desks in the Tribune office, and still others are dis-"It is common belief," he patched by means of a carrier says, "that machines throw men to the news room for scrutiny it of work, but the linotype by the editors and copy readers. did exactly the opposite. The One proof of each set is turned

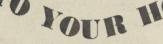
. . .

(Tribune photos.) its simplest terms, typesetting The copy cutter at desk sorting news copy before giving it to typesetters.

those of typewriters. Employ. read for errors and corrections advertisments allotted to the done in separate quarters on the

more than overcome by a venti- a previous article. Proof read- ments.

particular page are given their sixth floor.



impression upon those who make a newspaper. That's why ficient ventilating and cooling editors rarely forsake their profession; why printers usually remain printers to the end. Outsiders speak of it as romantic. Newspaper men enjoy its thrills, As it is, it is a comfortable and yet seldom talk about it.

Having traced our story from typewritten copy into metal type and into a printer's chase, duced by Tribune photographers along with other stories, with or obtained from countless outadvertisments, and with cuts side sources, the photograph A linotype operator putting news a cylinder of a press. From this are made, let us consider briefly the art department for retouchfrom, and how they are made. On the fourth floor of the ment. There by a series of proc-the plot adjacent to the ment. There by a series of proc-1887, that the Tribune's engrav-average daily paper of thirty-Tribune plant, adjacent to the esses involving photography, news room, is the main work-chemistry, and mechanics the ing department began opera- six pages three huge molding shop of the engraving depart- image on this photograph is ment. This department over-transferred in reverse to a metal sisted of two men, one of whom about 200 mats. The work is flows into a mezzanine floor printing plate, or cut. means of keyboards similar to where the story is carefully placed in the chase, however, above, and its color work is

type, these seventy-five linotype Proof readers are not to be positions within the chase. Then Employing 111 men, not in- The engraving department who was born of French speak- minute. The plates weigh fiftymachines naturally generate confused with copy readers, the news type is fitted in around cluding those in the rotogravure operates twenty-four hours a ing parents on a farm near the one pounds each. For a thirtyconsiderable heat, but this is whose duties were described in or adjacent to the advertis- plant, which is concerned only day every week day and all but St. Lawrence river, just across six page paper about 2,100 with the production of Sunday four or five hours of every Sun- from Montreal, came to Chicago plates are cast, representing a lating and air conditioning sys- ers are a part of the composing The scene around a row of paper features, the engraving day. It turns out for the daily as a boy, served an apprentice- total of fifty-three tons of metal. tem that refreshes and cools the room force. Among those em- these chases that are being department in appearance is paper an average of 125 cuts a ship in a commercial engraving Twenty-three men are employed air and makes for pleasant and ployed by the Tribune are a made ready is an exceptionally half laboratory and half ma- day, including news cuts and house, and soon obtained em- in the casting. healthful working conditions. number of women. As a rule, busy one as the time draws near chine shop. Its extremely intri- advertising cuts. Its output, ployment with the Tribune. For For the production of an av-This ventilating and air condi- members of the proof depart- for the presses to start. Makeup cate machines include eight naturally, is considerably more than fifty years the Trib- erage Sunday paper 325 mats tioning system operates as well ment staf work in teams, one men are speeding their work in giant cameras, five etching ma- greater for a Sunday edition. une has been more than good are required, and 4,300 plates, in all other departments of the reading from the proof and order to finish their pages in chines, four printing frames, Frequently 500 or more cuts are enough for Mr. Racicot, and for the last named totaling more Tribune plant, purifying the air making corrections in it where ample time. Editors and copy two acid rocker tubs, three elec- made for the various sections more than fifty years he has than 100 tons in weight. The and holding it at the most desir- necessary, while the other holds readers from the news room tric saws, two jig saws, four of the Sunday paper. Of the 111 been more than good enough metal, which is 6 per cent tin, able temperature and degree of the original copy. The last above are on hand, making last proof presses, three trimmers, men employed in this work, for the Tribune. Today he is as 14 per cent antimony, and 80 humidity. The frequency of ill- named is called a copy holder. minute corrections and elim- and five routers. A trimmer is twenty-two have seen more active in directing the work of per cent lead, and thus varies nesses in winter has been re- A marked proof of the story inating lines here and there to an apparatus with a circular than ten years of service with his department as would be a slightly from linotype metal, duced noticeably since the in- we are following goes to a ring make the stories fit the pages. knife that trims the edges of the Tribune, seventeen have much younger man. stallation of the air conditioning machine (a correcting linotype), To an outsider it all appears cuts, and a router is a machine been in the department more With cuts from the engrav- tin, 11½ to 12 per cent antiwhich sets up new lines of type confusing indeed, although there with a vertical turning spindle than twenty years, four more ing department, advertisments, mony, and the remainder lead,

that removes metal from the surface of a cut.

system, the engraving department would reek of acids and be uncomfortably hot from open healthful place of employment. When a selection has been ing, if this is necessary. It then goes to the engraving depart- years.

. . .



into type.

tion. Its total force then con- machines are employed to mold was Louis Racicot, who still is done by seven men. In casting superintendent of the depart- the plates six automatic castment after more than a half ing machines are used, each of century of service. Mr. Racicot, which delivers four plates a

Of the Tribune's linotype mator to take the place of those con- actually is no confusion. Every- at the end of which is a cutter than thirty years, and one, the and news type, including that (Continued on page nine.)

November 27, 1938



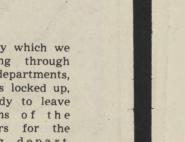


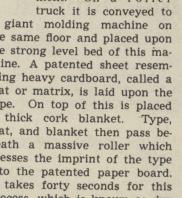
various departments. the chase is locked up. and is ready to leave the domains of the typographers for the stereotyping depart. ment. On a roller

the strong level bed of this machine. A patented sheet resembling heavy cardboard, called a mat or matrix, is laid upon the type. On top of this is placed a thick cork blanket. Type, mat, and blanket then pass beneath a massive roller which presses the imprint of the type into the patented paper board. It takes forty seconds for this process, which is known as dry mat molding.

The mat is dropped through a chute to the first basement, three floors below, where it is fitted into a half cylindrical casting mold and molten metal is poured against it. The result is a curved metal plate that fits, with other plates, upon and other plates the paper is printed.

superintendent, more than fifty

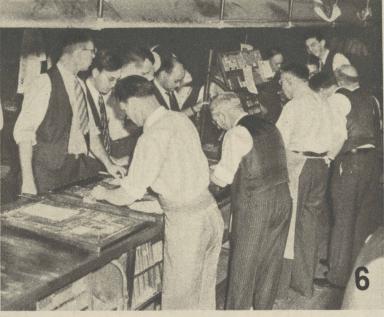




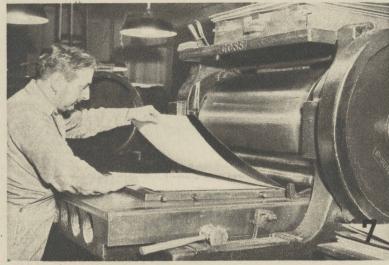
which is an alloy of 4 per cent



Proof readers checking stories for typographical errors.



Makeup editors supervising the placing of type in page forms.



A stereotyper preparing mats from type forms.

# **Mechanical Marvels That Are Merely Routine**

is maintained in a molten state the superintendent, whose rec- eight page plates in duplicate. for casting at a temperature of ord for years of service is al-575 degrees Fahrenheit.

the Sunday paper, where it dif- 4, 1898, just in time to help the width of a double page. fers from that of the daily mold the mats that bore the They are delivered into the subsequent article.) The entire tory at Santiage de Cuba. On is the basement directly beforce of the stereotyping de- the first day of the previous neath the press room, by means been employed in the depart- the employ of the Philadelphia Chicago river. Each roll of ment more than ten years, four Press. He had served his ap- paper is from 36 to 38 inches in more than twenty years, three prenticeship in Chicago, how- diameter, weighs between 1,700 more than thirty years, and one, ever, with the old American and 1,800 pounds, and contains the superintendent, more than Press association, a concern a ribbon of paper approxi- A pressman locks plate on a press cylinder alongside similar plates. forty years.

used for black press printing more, now a Tribune veteran of of thirty-six pages requires ap- trucks. only. Those employed for casting more than forty years of serv- proximately 350 rolls of paper, The older methods here de- to prevent further accidents of paper, and it represents the Exigencies may come up durplates for color work are molded ice, was made superintendent which, if stretched end to end, scribed were the normal prac- this type. on a direct pressure machine ca- of the stereotyping department would extend more than 1,500 tice among newspapers up until From 1935 to 1937 accidents an emergency such as this. the Tribune that will demand a pable of exerting a maximum in 1902. pressure of 800 tons. The mats The casting machines of the a Sunday edition are consider- signed a modern newspaper duced 29 per cent. in this case are damp, contain- stereotyping foundry are on the ably more than double, and fre- building, its present day plant. How well the Tribune press rather to have all the paper re- department, the composing by volume, and require a dry- or ground level-as the presses. The Tribune's press room into its present plant it was emergency was revealed within instead of adding four pages to ment, and the press room. the casting machines. The prob- from three floors above, since Up until about fourteen years omies to the value of a million Its own presses had been put terest of producing a better ap- to meet emergencies. lem of register-the printing of they are relatively light. But ago rolls of newsprint paper dollars a year. Today the econ- out of service temporarily by a pearing and a well balanced its exact place on a page- dropped without damage. And weighed approximately 1,200 ical installations are consider- offered the use of its presses, Here is what happened that Tribune. makes this wet mat process nec- it would take time to lower them pounds. At the former Tribune ably more than that sum annu- and, although the other paper's essary in color work, as it pro- by elevators. So they are cast quarters at Dearborn and Mad- ally. Each color, it should be borne the presses. in mind, calls for a separate They are carried to the press next to the plant, placed upon sary to operate Tribune presses were readjusted and editions of mat and a separate plate. Al- room by means of a conveyor, dollies, small wheeled devices at capacity for a full day. Of the afternoon paper were rolled

the Sunday paper.

(Continued from page eight.) rection of Robert J. Longmore, sixteen page plates. These are most comparable with those of Seven men make mats and Mr. Loewenberg and Mr. Raci- The rolls of paper from which from mat ready for the press. thirty-two do the casting for a cot. Mr. Longmore first came the Tribune is printed are sev-Sunday edition. (Production of to work for the Tribune on July enty-one inches wide, or twice paper, will be discussed in a story of the American naval vic- paper. room, or reel room, which partment consists of fifty-two May, the day that Commodore of automatic cars through a employés. Twenty-eight, or Dewey fought his famous bat- tunnel from the paper waremore than half of these, have tle in Manila Bay, he was in houses on the north bank of the that supplied "boiler plate" to mately four and a third miles The aforedescribed mats are country newspapers. Mr. Long- long. A full run of a daily paper directly at the rear of waiting similar accident, and tells what describe four extra pages on ment to go out.

fined to that of the Sunday the stereotype plates along. By elevator. paper, it is in the last named means of this conveyor the They were delivered to and and four have more than thirty The whole story of preparing that it is employed to its full plates are carried directly to hoisted up onto presses that years. Their chief, the superin- and printing the Tribune is one limitations. Therefore a more each of the black press units. usually ran at a speed of 19,000 tendent of the press room, is of efficiency and speed. The last complete description of color When the plates have been used papers an hour, as compared Edgar Mahar, a veteran in advertisment for the first ediprinting will be reserved for a on the presses they are re- with the present day speed of years of service. He first came tion is taken at 4:30 in the aftsubsequent article dealing with turned to the stereotyping 45,000 papers an hour. These to work for the Tribune in 1900, ernoon, and at 6:45 the presses foundry by means of the same old presses, which were the and was elevated to superin- start. Work in the stereotyping de- conveyor, a switch being used first in the world to be driven tendent in 1910.



The Tribune composing room as it appeared in 1897.

tion, is 847 feet long.

pages. Since pages go to the stance. press in inverse order of their Printed papers were taken by guards. importance, the plates of the in- from the old presses by hand, This is only a small part of room shouts:

"Let's go!" five of these series of units. the belt conveyors are a number injurious to health. Four times an hour the presses of distributing chutes which demust slow down momentarily liver the bundles to stations to permit the splicing on of new rolls of paper-the rest of the time they are turning at full speed.

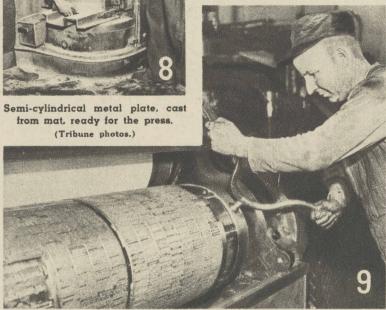
In two long rows on this floor, extending from Michigan avenue to St. Clair street, are the main batteries of presses. There are on this floor ninetyfour black press units, thirteen of which are equipped with color decks, or supplementary units for the purpose of printing pages in color. In addition there are twenty-eight units for the printing of colored comics, sixteen of which have just been

Each black plate unit takes . . .

miles. Paper requirements for the time that the Tribune de- in the Tribune plant were re- The editor decided against complete change in plans for

partment is done under the di- to place them on the return sec- by electricity, were the best and Because turning wheels and ting news stories ready and





have more than twenty years, printing.

Page Nine

The Tribune's "mammoth sextuple press" in 1897.

tion of the conveyor. This con- fastest of their times, even as moving gears are likely to preveyor, including its return sec- early as 1901. Hoisting the sent a source of danger, the paper up onto them in changing press room is provided with a The plates that carry the rolls, instead of placing them nonslip floor, to prevent pressstory we have been following in reels below the presses, as men and others from slipping are locked upon cylinders of the in the modern method, required or falling against the machinpress, along with plates of other several minutes in each in- ery. In addition, wherever possible, moving parts are covered

side pages first and those bear- carried to the floor above by an the Tribune's safety program, ing later news afterward, it elevator, and there tied into which involves every departgenerally is only the plates of bundles by hand. Then they ment. For more than a year the first page that actually have were carried by another eleva- and a half workers in the stereto be rushed in the casting tor to the sidewalk level, where otyping department, for examfoundry. When everything is they were placed in wagons by ple, have been wearing shoes ready-all the plates are on the hand. In marked contrast is with steel protected toe caps, to press-the head of the press the present day way of han- prevent injury as a result of dling printed papers. They are falling plates. Everywhere saws, taken direct from the presses drills, and the like are covered An electric switch is closed. by automatic wire conveyors to by guards to prevent injury, A low rumble slowly mounts the floor above, where they are and switches are placed where plicated machines that print the they are taken, fifty at a time, cidentally. In the engraving Tribune gather speed. Within and placed in an automatic department, wherever feasible, printing them is astoundingly night: At 7:15 a new extra went a few moments these presses tying machine. The bundles harmless chemicals have been brief by comparison. When Joe to press with the first account are operating at capacity, de- then are transported by means substituted for dangerous ones Louis not long ago knocked out of the destruction of the dirlivering papers at the rate of of belt conveyors to the St. Clair as a protection against irritat- Max Schmeling in the first igible. At 7:30 the first fleet 45,000 an hour for each series, street side of the building and ing fumes. Exhaust fans have round of their fight in New of delivery trucks took the or hook-up, of press units, or at the lower level of Michigan been installed to draw out York the Tribune's special extra papers to the stands. At 8:15 the rate of 225,000 an hour for avenue. At the delivery end of fumes and dust that might be edition carrying the complete the second extra went to

# . . .

bulletins are posted in conspic- than ten minutes. This allowed passengers of the Hindenburg, report all accidents on forms plates on the presses. filled-in report describes the na- limit for the receiving of ad- sinking to the ground in flames. the safety man's opinion as to frequently a large amount of press units were thrown into ac-

steps already have been taken the outside of the existing And so it goes!

ing about 35 per cent moisture same floor-the first basement, quently triple, this amount. At the time the Tribune moved room is equipped to handle any plated for a fifty-two page paper room, the stereotyping departing period of about fifteen min- The reason for this should be handles more paper than any considered that its mechanical recent months when an after make a fifty-four page paper. That is why these departutes before they can be used in obvious. It is easy to drop mats other press room in the world. achievements would effect econ- noon paper sent out an S. O. S. He made his decision in the in- ments are manned and equipped each of three or four colors in 51-pound plates could not be were 32 inches in diameter and omies resulting from mechan- fire in its plant. The Tribune paper. press width of 66 inches was 5 vides for greater precision. upon the same floor that bears ison streets these rolls were de- Two hundred fifty pressmen inches less than that of the livered by wagons into the alley and their assistants are neces- Tribune's, the presses speedily though color work enters into a tracklike arrangement of a for handling paper, and deliv- these, 128 have more than ten out with no great delay. Ten of the production of the daily long series of rollers that turn ered down into the press room years of service with the Trib- the Tribune's ninety-four black paper and by no means is con- beneath a guide plate and push two at a time by means of an une to their credit, twenty-six press units were utilized in this

But the time allotted for get-



to a roar as the great and com- delivered onto tables. Then they cannot be snapped on ac- Unloading paper for The Tribune during the early days of the century

enth hour, causing a complete dry cast 3,800 plates. change in plans for the paper.

Such was the case on the fate-The forty-four pages on nine a false report. different presses, some 400 In an edition of the paper of denburg disaster.

Finished papers being

circulation department trucks waiting at end of conveyor belt.

story of the bout was on the press, with three columns destreet in front of Tribune Tower voted to the story of the disaswithin eight minutes and on the ter. At 9:15 the third extra was In each department safety newsstands in the loop in less printed, with a revised list of uous positions. The Tribune for the editing and setting up and trucks were loaded with the maintains a safety committee of the story, forty seconds for new edition for the newsstands. chosen from among its work- the molding of the mat, one At 9:15 arrived the first wireers, with an active representa- minute for drying it, one min- less photographs, which were tive in each department. It is ute for casting the plates, and put into the paper. At 10:20 the the duty of these safety men to one minute for putting the paper went to press again, with a full page of photographs printed for the purpose. A Although there is a time showing the ill-fated airship ture of the accident, sets forth vertisments for each edition, During the night sixty-seven

what can be done to prevent a advertising comes in at the elev- tion, and the stereotyping foun-

## . . .

ful evening of May 6, 1937. The Illustrative of another type of Tribune was scheduled to print emergency that proves costly forty-four pages in its first edi- but nevertheless is met by the tion that evening, when sud- Tribune with the best interests denly it was confronted with six of its readers in mind is that more pages of advertisments. associated with the printing of

plates in all, had to be taken Aug. 7, last, there was printed off the presses, thrown back the statement that the missing into the stereotype foundry, Hawaiian Clipper, the Pacific and recast. That evening those plane which had disappeared in forty-four pages were replated a flight from Guam to Manila. to fifty pages, and then, just as had been reported found. After the presses started running, 16,000 copies of the Tribune came the first news of the Hin- bearing this statement had been printed and sent out the report Mechanically this was a was contradicted. The Tribune heavy blow to the managing recalled all of these papers beeditor. He called the editor by fore any of them had fallen into telephone and asked if he could hands of readers, suffering a put a "blanket" on the paper. loss in money and circulation A blanket is a Tribune term to rather than allow the misstate-

easiest way of taking care of ing the course of getting out the easiest way, preferring the news room, the engraving

Next week-Story of the Sunday

