WHAT TO PRINT AND HOW TO PRINT



No. 456 1980

HELPER

The KELSEY COMPANY MERIDEN, CONN. 06450 Single orders of \$25 or, n

Numbering Machine Work

Every printer has jobs offered him that require numbering—such as tickets, checks, etc. There are two ways of handling such work—using a hand numbering machine after the rest of the printing is done, or putting a typographic machine in the chase with the form and running both together.

and running both together.

For the printer with a good size press, the last named is the only practical way, and for hand presses down to and including the 5 x 8 it is also advisable. However, in machines smaller than the 5 x 8 the use of the numbering machine in the form is the form in the form is the f the use of the numbering machine in the form itself poses a roller problem which will appear as we describe it in connection with the other presses. To change figures automatically the machine must have some kind of plunger which is operated by the impression squeeze of the press, and this is operated by the impression which preceded the figures. This No. is slightly higher than the figures, which preceded the figures. This figures, which are regular type height. Every time the press makes



pushed down and the number changes, the plunger being above type height at all times except at the moment the impression is the moment the impression is made. This means that when the rollers pass over the form, they must be soft enough to squash down over the No, and ink the figures. If the rollers are too hard, or too small in diameter, they will fail to do this, and the numbering machine figures will not be pro-perly inked.

It follows, therefore, that good soft rollers are needed on a num-

so that it is practicable, a fold can be cut in the rollers at the point where they hit the No., so as to the notation of the rollers at the point where they have been a partial impression, it can be eliminated by the rollers, which will get between the pasted or glued on one of the gripners, which will get between the rollers of the so that it is practicable, a slot can

ness, and there is no reason why you shouldn't share it. Full in-

Get the Best Impression with the Least Amount of Work

Every so often we find that a press user is not making use of the toggle action on his press to give good, and even, impression.

The action is simple enough, and easy to use, but difficult to explain in one cyliable words. It will not be so hard, however, you plain in one syllable words. It will not be so hard, however, if you refer to the appended picture. The letter A on this picture is on the little wafer-shaped piece of metal which is the connection be-



Some Good Advice the handle to make an impression

the handle to make an impression the connection moves from its vertical position to the horizont may be caused by the arrow, and at the same time if you get it down where it belongs, the handle with the point marked B.

This is the point of maximum leverage and impression. You can leverage and impression. You can

go no further.

The amount of impression you obtain by turning up the impression screws should not be so great

that you cannot push your handle down as described. The smaller the form you are printing, the less effort it will take you to do this; them up not to leave one end of your platen suspended without support. It should rest on all

as described in the Frinter's Guide and other places, to take care of low spots. You'll get better results with less squeeze. If part of the form prints, it's clearly unneces-sary and undesirable to give more

sary through makeready.

If you do this, you can get your handle down on the connection with a minimum amount of pres-sure, and each impression will be exactly like every other.

Refresh Your Memory Once in A While

The expression "He has forgot-The expression "He has forgot-ten more than so-and-so will ever know about it," aside from the us-ual implication that somebody doesn't know as much as he thinks he does, should serve as a re-minder that it is indeed possible and probable that the more exif they were brought back to mem

If they were brought back to mem-your knowledge of printing may have been picked up in any mun-her been picked up in any mun-ber of ways. You possibly have been at it for years, or your ex-perience may be only a matter of months. If in the beginning you read over the Frincies' Guide or read over the Frincies' Guide or months. If in the beginning you that the essentials—things you that the essentials—things you had been a support of the property of the your mind, whereas the other facts made more or less impression, and some were forgotten. If, in the light of the experience you have had, you will go over the Guide again, you will be surprised at the helps you will find—clearer to you now that you can concentrate on them instead of the points which you had to become well grounded

on at first. A second time is not enough, either. Make it a habit to go either the Guide, and such copies of the Helper as you own, periodically, When you are handling a rush job it isn't always convenient to rumage through your papers to find the answer to a problem, or to lo[Continued on pege ine]

Printed on Kelsey Enameled-60 paper, with Kelsey Many Purpose Blue Ink.

(Continued from page one)
cate that shortcut which you read
about one time, but which you
can't recollect the details of. The
Kelsey Printing Course, if you own
it, and keep it in a loose leaf book,
is an ideal refresher and reference
work

work, and our own experience, we'll geable that you will not spend five minutes reviewing your printing literature before you find one or more pieces of information in the immediate future. Further than that, some of the statements made which din't mean much to you at first will take on new sinkense will be supported by the statements and the statements and the support of the statements will take on new sinkense will be supported by the support of the statements and the support of the support of

larged acquaintance with printing. You remember the story of the farmer, who when he was reproached for not going to a lecture on scientific farming methods, reveil as he already knew how to, we why bother? No printer is able take that attitude and do a really sattifactory business, and it may even be stated without much fear of contradiction than the good of the contradiction than the good of the contradiction than the good of the contradiction that the good of the good of the contradiction that the good of the contradiction that the good of the

ter.

Printers of forty and fifty years' experience repeatedly tell of the assistance they receive from the Guide, the Helper, and the Course. Those of us who can't claim any such record of service will also find that we are not too old or too highly educated to learn—or re-

The Right Length for Leads and Slugs

We often have questions and discussions with readers about the proper length for cut leads and slugs.

sing them you buy cut leads and slugs, that is, leads or slugs in less than the regular two foot lengths, the slugs of the

leads preventing it.

This tolerance varies among different supply houses, and among printers themselves, all the way from one ten thousandlu of an inch, the control of th

THE PRINTER'S

Run In—To reset matter which has been set in display type in the same kind as the body matter, or te eliminate a paragraph (set the same matter so as to run in with the previous paragraph).

Run Over—To carry over words from one line to the next, spacing them out and running the matter along, until ing, or the intervening of a paragraph.

Safety Paper—Paper treated and watermarked in various ways to make alteration easily detected. Used mostly for bank checks.

Sea and S. C. Abbreviation for "sized and supercalendered" paper. S. and S. C. is better than S. and C. (Sized and calendered or Sized and Sized and Calendered or Sized and Calendered or Sized and Calendered or Sized and Calendered or Sized and S

ring to creasing rule.

Script Type—Type whose face is made in imitation of writing. Used mostly for formal announcements.

Secondary Color—A color made by mixing two of the primary colors (red, yellow, blue) in any proportion.

proportion.

Series—One style of type in its various sizes. A type family consists of several series having characteristics in common. See defini-

Serif-Small projections at the ends and more of letters. Same ends and the several feet of the series of the serie

Set—The making up of lines of type for printing; the width of type (left to right or right to left dimensions). Set Close—To set with thin spaces. Set Solid—Set without leads or other spacing between the lines. (Solid matter).

(Solid matter)
Shade—Technically speaking, a shade is made by adding black to a color. Probably many printers use the word indiscriminately, when making lighter tints, darker shades, or mixing two colors together if it doesn't materially alter

the original colors.
Shank—The body of the type on which the face or character is set.
Shooting Stick—An instrument for tightening up quoins. Very

rarely used nowadays, when metal quoins are the rule, and wooden quoins more or less a thing of the

Short And—The character (&), otherwise called an ampersand. Short Run—A job of few impressions as contrasting with a long run one running into a large amount.



Parts of printing type
Shoulder—The top of the body of
type, between the face and the

Side Heads—Words—in cape or heavier face than the body, at the side or indented in a paragraph. This ABC is set with sideheads.
Signature—Each section of a book which is printed on a single sheet is called a signature. The number of signatures depends on the size of the pages, the size of the sheets and the number of

Combination

Monograms

Series No. 1 (48 point) Series No.

Font contains 81 pieces
No. 1 or 2, 527.80
Any 2 or 8 letters, \$4.50

Series No. 3 Series No. 4
Outline (95 point) Solid
Font contains 81 pieces
No. 3 or 4, \$23.25
Any 2 or 3 letters, \$4.60

Chateau Initials
(36 point)
Series No. 9 Series No. 10
Outline Soid
Font contains 78 pieces
No. 9 or 10, \$23.10
Any 2 or 3 letters, \$4.60

Lite-Wate Bristol

Index Quality Tub-sized

An inexpensive, white bristol for business and
personal cards, mice file cards, checks, tickets
tags, ntc. 1000 shapets sine 174 x224 inches weigh

tage, arc. 100) shaets size 17 | x22| inches weigh 111 pounds. Quantities of 50 100 200 400 Prices per 50 100 100 100 **[7] x22| inches 509 10.09 10.09 2.5 *[11] x17| 300 6.5 6.35 6.31

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WITH OUR R.E.A.DER.S

One Printer's Cost System

From J. S. Clarke:

This is my way of figuring costs. Others may find it useful. Labor cost should be determined, so that a standard figure per hour can be used. I include cleanup and inkup in press time. Here are my estimated costs.

- Cost of paper stock, shipping and cutting to size. 2. Cost of any materials which are
- required for this job only. Time required for composition, lock-up and distribution.
- Presswork, ink-up and clean-up All other estimated time, includ-
- ing the following: For raised printing, add 35%

to press time.

Perforating or punching holes, add 20% to press time.

Stapling, add 10% to 20% to press time cost (less for large booklets).

booklets).
Padding, add 5% to 10% to
press time cost.
Overhead expense (heat, light,
rent, etc.) 10% and up depending on job.
Markup for profit from 15% on
cheap work to 25% on printing requiring extra care, and stock of

Editor's Note-Cost systems and

selling prices are controversial sub-jects. We make no recommendajects. We make no too tions but pass them along for you to read and judge and try if you



Tympan Paper and Pressboard

The correct names and position but we recently made this picture for some of our instruc-tional material and thought at least a few would like to see it. Incidentally a hard tympan (one Incidentally a nard tympan (one or two sheets of paper and a sheet of pressboard) is desirable. Start from that, and if you have to add more, you can. Try makeready before you begin to load on the impression and the tympan pad-

Protecting Rollers from Perforating or Cutting Rule

Perforating or cutting rule has to project up above the type form to do its work, the only alternative being to force the paper down on the rule. The objection to the first method is that the face of the rule cuts the rollers as well as the paper. The use of an old pair on such work will save your good ones

Some printers grind or file off the bottom of the rule, to make it slightly under type high. The rule, when put in the press, is then too low to hurt the rollers, but will too low to hart the rollers, but will not cut or perforate unless the tympan is built up where the rule thit, so that it will force the paper one point brass or copper put un-der the tympan (platen) padding will give the desired results, and will also assure good clear perfora-glued down, and narrow enough so that it will not be in the way of the rest of the form. The per-forating rule and the brass act as forating rule and the brass act as two parts of a die in this opera-tion. If paper or cardboard are used as the other half of the die, they cut too easily and do not make

such sharp work. such sharp work.

If you don't want to grind or file the bottom of the rule you can underlay all of the type form except the rule itself with cardboard. This will push the form up above the rule, and you can then proceed as described.

A couple of extra spring tongue gauge pins up close to the point where the paper makes contact with the rule will, if the tongues are out far enough, help to pull the paper away from the rule after the

The methods we have described The methods we have described are suitable for use with either steel cutting or perforating rule. When brass perforating rule is used, lead or copper should be used under the tympan.

There is nothing about either perforating or cutting which should bother any printer. After one job, you will handle the succeeding ones with confidence.

Ivory Announcement Cabinet



What Happens To Old Ink

Occasionally a reader will tell us that he has some quite old ink which does not work very well and he wants to know whether any-thing can be done about it.

Considering the cost of new ink, we do not feel that the effort ink, we do not feel that the effort necessary to make the old ink workable is very well expended. To understand why requires a little information on the proper-ties of inks. Roughly speaking, inks consist of color (or pigment) and the varnish or binder which may be called the volicle by which the color is transferred and which the color is transferred and held to the paper. The pigments run all the way from lampblack in the black inks to dyes and colors from mineral, vegetable and animal sources (hence the wide variation in weight and wide variation in weight and amount in a pound of different colors which sometimes makes people who have not weighed a purchase, think that they have been cheated on the quantity.) The "varnish" may come from linseed oil, rosin oil, china oil, or plenty of others.

floor varnish which is quite old? The stuff may seem to be all right, but after you get it on, it stays sticky for days, perhaps in-definitely. The volatile or light definitely. The volatile or light parts of the varnish evaporated long before you used it, leaving the heavier, alow drying parts, so that when you put it on, there is very little left to "dry." The same thing happens to old ink. The evaporation out of the dryer ne evaporation out of the dryer not only makes drying the ink difficult, but it often spoils the appearance of it on the paper. Drying out of the oil makes the

inks, which should be removed before using ink from a can. old ink is to keep it for handbills
Probably, if you do not want to
discard it, the best way to use an
and other work not requiring a
really good job. Reducing compound really good job. Reducing compound may then make it workable enough for that purpose. The time consumed trying to get a really good job on quality work with old ink can be used to better advantage in other ways.

advantage in other ways.
Keep your ink tightly closed,
so as to prevent oxidation and
evaporation. The cap can be kept
on ink in tubes, and link in cans
may be protected by keeping the
top covered with water. If you
are careful in this way, you will
not wate much ink, imless you
use it vory seldom, indeed.

18pt 12 6-in, lines 12.05 10 6-in, lines 10.85 9 8-in, lines 11.25 8 6-in, lines 10.70 6 6-in, lines 0.00 6 pt, 5 6-in, lines 6.96 8 pt, 5 6-in, lines 6.96 10 pt, 5 6-in, lines 7.25 12 pt, 4 6-in, lines 6.30 18 pt, 3 6-in, lines 5.46



THE KELSEY MAN Comments On ONE HUNDRED VEARS

As some of our readers have perhaps noticed, the Kelsey Com-pany has entered its one hun-dred and eighth year of business. This may or may not be of any significance, depending upon cirsions, but are almost dead, and don't know it yet. Nearly every-body can recall one or two exam-

ples of such We are glad to report that the Kelsey Company has no reason to feel itself in that class. It has been operated on the conviction that a limited business, given close personal attention by all those in it can do a better job for its cus-tomers and be a source of more satisfaction to those who participate in it than a much larger one. always trying to expand and hence

This philosophy has not preimprovements in our line which we felt would make it more useful, complete or attractive. In the ful, complete or attractive. In the same way, factory equipment and machinery has been renewed and replaced with more up-to-date units as fast as they came on the market. Without such labor-sav-ing moves, the gradual transition from the 59 hour work week of 1872 to the 40 hours of 1980 would

We're sorry we haven't cal cetalls. Everybody knows that in those days we had to get along without telephone, United Parcel, typewriters, addressing and dic-tating machines, etc. But how many stop to think, or realize, that leging destrict. nrm, no matter now small, had to own a steam engine power plant, and every piece of equip-ment which could not be operated by hand or foot was of necessity. so placed in the factory that it could be operated with a belt from shafting, and this shafting ran clear back down to the steam clear back down to the steam engine on the ground floor? And how many realize that it was a time when toilet facilities were strictly the rugged outdoor varistrictly the rugged outdoor variety, with a wooden trough for washing up; anyone wishing hot water had to draw off a pail from the steam boiler; and the illumination was strictly by gas, which couldn't have been as good as a 15 watt bulb? That wages were from 10 cents an hour up, with a machinist getting 25 cents? And the head of the business making all of \$25 a week? High cost of living or not, would you like to go back to 1872?

However, all that is behind us,

and we are looking forward in-stead of back. The many friends we have made over the years, and the many we have with us now. are a constant source of pleasure and satisfaction. We regret that are a consum.

and satisfaction. We regret that
the exigencies of time do not enlength the mighty fine letters we receive from you.

Number of Leads To a Pound

The following table gives the approximate number of leads of a given size, per pound. It will be handy if you need a large quantity of one size, and wish to order them



Cutting Heavy Rule

Lead and rule cutters are made to handle brass rule up to six points in thickness, and it is just as well not to use them for cutting type or composition rule any thicker. To cut heavier rule is to strain the cutter and perhaps make it impossible to cut the smaller sizes accurately.

smaller sizes accurately.

Larger shops use metal saws, and if you have access to one, or can rig one up, you'll find it a great convenience, as well as a producer of better work. Remember that in cutting you must allow a little extra for the part which will be turned to sawdust, which will be the width of the saw, plus whatever "set" or bend there may be to the teeth which cut their path through the metal. Any kind of a metal saw will do, but small teeth are preferable.

If you are going out to find one, here are a few more suggestions: The teeth should have a slight set, and be about 1/16 of an inch thick. The saw will work best if it is reinforced on each side by a thicker disc to prevent it from bending. Teeth that are slightly thicker at the cutting edge also give the equivalent of the ordi-nary set, and work well. A hollow ground saw is preferable.

For a really good job, rub the cut ends over a fine file after sawing.

IINOIFIIM

PRINTING BLOCKS mooth Surface for Easy Drawing





X-Acto Linoleum Cutting Tools



Cutting Knife, (with handle), (Same handle used with knife or tools.)

and Roller, 51/2 inch, with handle, 10.55 Rubber Roller, 4 in. 1 in. diam. \$49, 3.95 Rubber Roller, 4 in. 1½ in. diam. \$51, 4.25

Raised Printing Unit



Unit, only, with 6-foot cord, Outfit, consisting of: Unit (as above) plus 4-oz. tube each of Bond Black, Red, Blue inks; a tube each of Gloss and Dull compounds, \$3.40

Raised Printing Compounds Gloss or Dull tube, \$2.55 % lb., 3.65; % lb., 6.10; 1 lb., 10.20

Use Bond Black or Many Purpose colored inka Bronze or Aluminum tube, \$3.20 ½ lb., 4.55; ½ lb., 7.60; 1 lb., 12.65 Yellow Ink, for bronze or aluminum 4 or, tube, \$3.30 I pound,

Combination

Label Holder-Drawer Pull

ame as supplied with new cabinet-front typeses. White card covered with celluloid strip r identification of type in case—can castly be all from standing position. per deven 11 40

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