Confidential Information for Ludlow Salesmen

MATRIX STICKS

ing 3 code words should precede the cod designating the style and size of the mati	riv sticks	desired
	(Code Word
Matrix sticks to be used on Ludlow machine	nauin.	
ped with 21-em mold		PAULD
Matrix sticks to be used on Ludlow machine	equip-	
ped with 221/2-em mold		FAUSE
Matrix sticks to be used on Ludlow machine	equip-	
ped with special length mold. Length of a	pecial	
mold is		FETCH
Loose-side for 1/2" Roman matrices		
21 or 221/2 em (single slug)		AHEAD
42 or 45 em (two slug)		AHEON
Loose-side Special Double-Column Single-Sl	ug for	
%" Roman matrices for use with 22½ em r	nold	
241/2 em (single slug)	33.00	LUFFA
251/2 em (single slug)	33.00	LUKES
261/2 om (single slug)	33.00	LUNAS
Loose-side Special 4 pt. 6-LP Lining Gothic fo	or use	
with Lining Fonts and 4 pt mold.		
21 or 221/2 em (single slug)	36.00	PLUMY
cose-side 6 pt. 6-LP Lining Gothic for use	with	
Lining Fonts and 6 pt. mold		
21 or 221/2 om (single slug)	29.00	AISLE
12 or 45 em (two alug)	37.00	ALACK
Note: Loose-side Italic matrix sticks are not	nanu-	
factured as they are not practicable.		
Solid Side for 76" Matelana		

	Solid Side for %" Matrices Roman	
-	63 or 671/2 em (three-slug)	AGAZE
	Note: One and two slug solid side sticks for %" Roman matrices have been discontinued. Only Loose-side Roman %" one and two slug sticks are to be solid.	a 0/101
	Italic	

21 or 22½ em (single alug). 33.00 AFOOT 42 or 45 em (wee-lug). 39.00 AFOOT 30 or 67½ em (three-alug). 47.00 AFOUL 80 or 67½ em three-alug). 47.00 AFOUL 1810 matrix sticks are not manufactured in lengths longer than 67½ em, because the corners of such long Italic atticks cannot withstand excessive wear and strain.

To obtain Italic lines longer than 67½ ems in length, the long (105-112½ em) Roman stick with angle quad and the clamping Italic division quad should be used.

Code Word Price Solid-side Special Double-co

24½ em (single slug) 25½ em (single slug) 26½ em (single slug)	36.00	AGLET AGLOW
Solid Side for 11/4" matrice		

Roman	
21 or 22½ em (single slug)	35.00 AGANA
42 or 45 em (two-slug)	41.00 ABEAM
63 or 67½ em (three-alug)	49.00 AIXLA
105 or 112½ em (five-alug)	O4.00 AKKIN

Italic		
21 or 22½ em (single slug)	38.00 46.00	POCI
Roman	39.00	POE

42 or 45-om sticks (two-slug) 63 or 671/2-em sticks (three-slug)

Italic 11/2"	matrices are not contemplated.
	Offset for %" matrices

Roman 42 or 45 em (two-slug)..... Note: Longer than two-slug adjustable offset sticks not made because of inability

to hold alignment on more than two-slug onete. Italic adjustable offset sticks not made

because of inability to hold alignment. 114" offnet sticks not made because of mechanical limitations in delivery slide Initial orders for two-slug adjustable offset matrix sticks should also include one 9.529 A division guad

offset division quad is required for all machines Orders for adjustable offset sticks to be used on Ludlow machines shipped prior to October 1, 1933, should include a notation that one part No. 579-B should be shipped to the customer, without charge, in exchange for their old part to be returned.

47.00 POGYS

55.00 POKES

68.00 POCKY

Confidential Information for Ludlow Salesman

MATRIX STICK

MATRIX STICKS			
Self-Quadding for %" matrices Roman Loose Side	Pr	tce	Code Wor
21 or 221/2 em (Single-slug)	\$	62.00	
Italic Solid Side 21 or 22½ em (Single-alug)		65.50 72.50	
6-pt. Lining Gothic (Roman) Loose Side 21 or 22½ em (Single-slug)		62.50	
Self-Quadding for 11/4" matrices Single Slug Casting Stick, Solid Side			
21 or 22¼ em Roman		70.00	AINC
Self-Centering for %" matrices Roman loose side (single slug)			
21, 221/1 or 24 em			

24, 23-70 c 24 ms. \$262.50 FLANS
6-pt. Lining Gothic loose side
21, 22% or 24 em. 282.50 FLISK
Special lengths (single slug) longer than 21 ems

MATRIX STICKS		
cose-side for %" Roman matrices	Price	Code Word
quipped with Ratchet Stop and Index Col	lar	
1 or 22½ em (single slug) 2 or 45 em (two-slug)	\$32.0 40.0	
cose-side Special Double-column Single llug for %" Roman matrices.		
quipped with Ratchet Stop and Index Col		
4½ ems (single slug)	37.0 37.0	0 LORYS
cose-side 4 pt. 6-LP Lining Gothic for us ining fonts and 4 pt, mold		
quipped with Ratchet Stop and Index Coll 1 or 221/2 om (single slug)	40.0	D POLAR
cose-side 6 pt. 6-LP Lining Gothic for use rith Lining fonts and 6 pt. mold		
quipped with Ratchet Stop and Index Col		276 ap. 25
1 or 22½ em (single slug) 2 or 45 em (two-slug)	41.0	
Italic 21 or 22½ em (single slug)	41.00	
42 or 45 em (two-alug)	44.0	O FRAIK
quipped with Ratchet Stop and Index Col	lar	
4½ ems (single slug)	40.00	GAITT
S1/2 oms (single slug)	40.00	GATTY

Reichet Stop and Index Collar for ins tion on %" matrix sticks in SASSOS1/4 Ratchet Stop for Installation on 114" matrix sticks in the field. SASSSM.

Ratchet Stop and Index Collar Assembly cannot be installed on the following styles of matrix sticks because impracti-

Adjustable Offset sticks Salf-guadding sticks Self-centering sticks

10.55.65

5.00 GLISK

5.00 GLOUR

Price Code Word

Matrix Sticks for use with Special Length Ludlow Molds

The schedule below is to be used in figuring prices of special-length Ludlow matrix sticks for use with special-length Ludlow molds:

A single-slug stick (any length) is the same price as the corresponding style single-slug (21 or 221/2 em) matrix stick. A two-slug stick (any length) is the same

price as the corresponding style two-slug (42 or 45 em) matrix stick. A three-slug stick (any length) is the same price as the corresponding style three-slug (63 or 671/2 em) matrix stick. A special four-slug, solid-side, Roman or

Italic stick (for special purposes) is priced as follows: Length of single-slug cast W" 114" Below 18 ems..... \$55.00 \$62.00 \$67.00 58.00 64.00 18 to 23 ems (incl.).....

Over 23 ems..... A special five-slug, solid-side

stick (Roman only) priced as follows: Length of single-slug cast

Below 18 ems..... 69.00 67.00 65.00 72.00 18 to 23 ems (incl.)..... 69.00 Over 23 ems.....

69.00

79.00

77.00

79,00

62.00 67.00 73.00

34" 114"

1/4" Loose-Side Sticks

These sticks have a movable side, which is forced against the sides of the matrices by the locking slide shoe as the stick and matrices are locked in position in the machine. The loose or movable side forces the matrices into proper alignment. The one and two slug Loose-side sticks are used with all the point sizes of %" matrices.

The Italic loose-side stick is obviously not practical.

36" Solid Side Matrix Sticks

The three and five-slug length Roman sticks are made only in the solid side because it will be almost impossible to operate the loose-side stick on more than a double-slug cast. Italic matrix sticks are made only with solid side. It is only necessary to order Italic matrix sticks when angle (Italic) body typeface matrices are specified. The sticks are specially

designed to take the Ludlow angle body matrices. All sizes of the No. 11 Italic, the No. 18 Victoria Italic and the No. 28 Tempo Italic faces are driven on a perpendicular (Roman) body and Roman sticks are used when casting from those three "Italic" type-faces.

The five-alug length sticks are arranged for either the Roman or the Italic body typefaces. When the Italic typefaces are to be used, clamping Italic division quads should be ordered with the stick (see spaces and quads).

Double-column Single-Slug Matrix Sticks The double-column matrix sticks are designed for use in newspaper and publication house composing rooms for the custing of the double-column headings on one slug in the 12, 121/2 and 13-em column measures. They are designed so the type overhangs on both ends of the alug shank, High spaces and quads are used in casting from these sticks to insure a proper cast on the end overhang.

%" Roman 4 Pt. and 6 Pt. Lining Gothic

Loose-Side Sticks
Lining matrices (Lining Gothic, Engravers Bold, Victoria

table and Commerce Coding are so driven that the Joseph Coding are the fixed code of the matrix lines up with the side of the International code of the International Coding and the International Coding and International C

%" Adjustable Roman Offset Sticks This stick is used to obtain variation in the top and bottom

alignment of Ludiow typoscoss. The adjustable side is a under in two parts. One part (the stationary side bay) is attached to the end pieces of the stick and has a groove cut in It at an angle. The other part (the sliding sideplate) has a tongue cut at the same angle as the groove in the stationary side bar. The tongue on the skiding sideplate is held in the groove in the stationary side bar by two stude in the parallel angled slots that are cut in the skiding sideplate.

By turning the adjusting nut at the front end of the stick, the sliding sideplate moves on the tongue and groove arrangement and alters its position in relation to the scaled side of the stick.

When open to its widest point this stick will permit the matrices to be moved a maximum of 6 points from the scaled side of the stick.

Use of the ratchet stop and index collar is not practicable on the adjustable offset stick. An italic offset stick is not manufactured because of inability to hold alignment of angle body matrices in such a stick.

134" Solid-side Matrix Sticks

The investment in 146" multiple-slug sitchs should be profitable to those large newspapers, publication and poster plants which can be expected to a considerable percentage of lines in the 14" matrices, but for gossrel use in the smaller plant the single-slug casting sitck method may prove most practical.

Comparing the two methods in detail:

By using both hands, as compositors are accustomed to do when setting large movable types, and using the assembling row in the 14" case, it takes no more time to set the line than it would with a long casting stick.

The first slug length of matrices is then removed from the

and the stage can be case and placed in the 114" soldquadding of the case and placed in the 14" soldquadding of the sold of the stage sold of the sold of time. The stick is then placed in the wave small amount of slag cast. The stick is then removed from the machine and the next set of matrices placed in the sold-quadding stick, and the stick is again placed in the machine, while the previous slag is being trimmed and delivered. No time is leaf in this operation as there need be no stopping of the machine.

With the multiple-slug atick division quads must be used, and because of the width of the characters it may sometimes be necessary to juggle the matrices, placing quads in the front end of the sitck in order to make the breaks in the proper places. There is time lost in this operation that is not lost in the assembly plan.

The only actual time lost is trimming the ends of the slug. If the slug cutter is used, chipping off the slug ends takes only a second.

only a second.

Italic 1¼" three-slug sticks will be manufactured only on special order. The objections to such Italic sticks are:

(1) They are not entirely practical because of the limited

space in which the division quad must be placed.

(2) Generally the use of the three-slug 1¼" Italic line would be so limited that the investment in such sticks would hardly be warranted.

(3) Roman sticks can be used for this purpose by placing angle spaces at each end of the stick.

Self-Quadding Matrix Sticks This stick can be used in quadding-out left or right flush

lines or in centering lines, by the use of the supplementary one-to-two scale. The ease and speed with which a line will

be quadded-out with this stick will be appreciated by Ludlow users, and should prove a valuable solling point when approaching Ludlow prospects, especially those who already know all about the Ludlow.

Because of the low price of our other matrix sticks, it is possible that certain customers or prospective customers would not understand why the selling price of the self-quadding matrix stick is not lower. The truth of the matter is that the price of the stick is actually very low. The cost of making and selling the sticks exceeds the price charged for them, and it is not likely that the company will ever make a fair profit at the present price. This fact was faced before deciding to offer the stick for sale, but it was concluded at that time that the advantages to Ludlow users would warrant proceeding to manufacture and sell the sticks without profit.

The following are some reasons why the cost of these self-quadding sticks is so much higher than that of the regular sticks and also higher than might be supposed by people not familiar with the manufacture of such products:

1. The sticks cannot be manufactured in large enough quantities to warrant a big investment in special machines and expensive special tools calculated to afford quantityproduction low cost,

2. The total number of parts in a self-quadding stick is almost twice the total number of parts in a regular stick. 3. Extreme precision is required on four times as many parts on the self-quadding stick as on a regular stick.

4. Both sides and the entire length of the sliding member must be ground to extreme precision. The least variation in this part will cause a fin on the slug.

5. The time required to assemble the self-quadding stick is three times the time required to assemble a regular stick. The fitting of the special floating nut to overcome the possibility of the threads on the long screw hitting at dead center on the nut is no small part of the assembling expense.

Because of the higher price that must be charged for these self-guadding sticks, a little extra tact should be used in selling them. A good way, when applicable, is to tell the customer, before showing him the stick, that you have an article that should save many hours in his composing room, but that it is very expensive to make and therefore not cheap to buy.

When he has asked to see this stick, show it to him, pointing out the advantages and the amount of time that could be saved by its use. After he understands the amount of time that could be saved by using this stick in his composing room, tell him something of why it is expensive to make, returning to the point that, stern all, its price is integnitional compared with its value to him. Often the time that the standard with the value to him. Often the time that the standard with the standard wi

high, but low.

The length of the locking surface of the under aide of the new style standard locking equalizing bars for Ludlow machines has been increased. On this new equalizing bar, which has been included on all machines shipped after February 1. 1931, this bearing surface extends the entire 6" length of

the bar.

This change was made because of the small (about 16") bearing surface between the end of the old style equalising bar and the end quad of the 22%-on sail-quadding sitck.
While this 16" bearing surface would probably be satisfactory in most cases, it was decided to increase the longht of this bearing surface, because of the possibility of variations in the equalisting bars and of wear to the lockdown parts.

Users who purchased 22%-om self-quadding slicks prior to February 1, 1931, have been supplied with new equising bers without charge. On all orders from users whosen 22%-om machines are not equipped with the new equaling bar, such a bar should be included with the order, without charge to the customer.

1/4" Self-Centering Matrix Sticks

This stick may not interest all Ludlow users and prospects, but any user or prospective user who sets any considerable number of lines centered within ringle slug measures will undoubtedly find it to be of great value. This should apply particularly to check imprinters, tag manufacturers, lables annufacturers, ticket manufacturers, book binders, publics

tion houses, etc.

The self-centering stick can be manufactured for any special single-sing mold length from 12 to 25½ ems. Multiple slug self-centering sticks are not practicable. Some present or prospective customers may question why

Some present or prospective customers may question why the selling price of the self-centering metrix sitck is not lower. Really, it is unfair, although seemingly advisable, to call it a matrix stick, in view of its being so much more of a precision tool. The following facts may be helpful in discussing price:

The cost of manufacturing this stick is much higher than might generally be supposed by those not familiar with the manufacture of precision tools, because: (1) The demand for such sticks will not warrant their manu-

(1) The demand for such sticks will not warrant their manufacture in large enough quantities to justify a big investment in expensive special tools (jigs and fixtures) which are necessary in order to afford quantity production at low cost.

(2) The total number of parts in a self-centering stick is many times the number of parts in a regular stick.

(3) Extreme precision is required on eight times as many parts of the self-centering stick as in a regular stick.

(4) The time required to assemble the self-centering stick

is twenty times the time required to assemble a regular stick.

(5) Only the most expert workmen can be used on the

manufacture of these sticks.

Actually, the price set is extremely low, but because of its necessarily being so much higher than the price of other simpler matrix sticks, a little extra tact must be used in solling

ii. It may be best that the prospective purchaser be not told the price of the stick until after he has some idea of its advantage to him and of the amount of savings the use of this stick promises in his composing room, and so understands that after all its price is really insignificant compared to the value of the stick to him.
The actual amount of time that this stick can be expected to

save in the composing room, will of course vary considerably scording to its use. It is, after all, a tool and not a piece of automatic machinery, and any tool is only as effective as the collective as the amount of time they believe the self-contexting stake has served for them, and they both insate that it has now unser; "plants practically every line see its contexted, and the lines are composatively about, but they feel that even with a lines are composatively about, but they feel that even with a the lines that it is a second of the context of the context of the lines that is eat and appose it.

Care should be taken, however, not to guarantee any particular time saving, because, after all, the operator has control of the time element and the efficiency of any tool he uses. Recause if is not always possible to show the prospective

buyer why the stick may be worth many times the cost, we have no objection to accepting orders in the United States on a ten-day approval basis. The user may try the stick out for

Confidential Information for Lucilow Salesmen

MATRIX STICKS

ten days in his own plant, and if he finds that the saving does not warrant the investment, the stick may then be returned for

full credit.

Parts for self-centering sticks can not be successfully fitted to sticks in the field. Self-centering sticks requiring repairs should be returned to the factory.