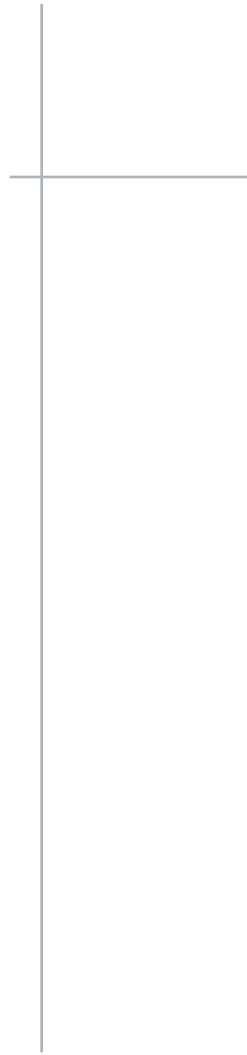


MARKING TOOL GUIDE



SCHMIDT
MARKING SYSTEMS

www.gtschmidt.com



established 1895

Original Plant at 4100 Ravenswood Ave. Chicago, Illinois.

**WHERE FINE MARKING TOOLS
AND
EQUIPMENT ARE MADE**

A Monument to
One Hundred Years
of Conscientious Service
to Users
of Marking Tools

GEO. T. SCHMIDT, INC.
NILES, ILLINOIS

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Introduction

This Marking Tool Guide will help you...

Evaluate Your Marking Procedures. The Marking Tool Guide presents a general overview of the tools required for permanently marking a wide array of industrial products. With it you can review your present marking application in light of the latest industry developments to be sure that you are using the most efficient and economical marking methods for your operation.

A Schmidt Sales Engineer or Customer Service Representative will be glad to assist you in this evaluation. Their many years of experience addressing marking applications, on a full time basis, is available to you without cost or obligation.

Contact us via telephone, fax, or internet about your next marking requirement.

Information that will help us to process your Order or Inquiry

1. **Drawings** - please specify location of marking, dimensions, material and hardness of part, and indicate whether there are any subsequent operations. A specific legend including exact wording, layout, and character size, will help to clarify your request. We can also provide assistance at your request with the design and layout of your marking tools.
2. **Blank Dimensions** - the style [knurl(round die), shank style die, rectangular die, insert, etc.] of tool required is an important detail. Key dimensions for each style are shown in the General Marking Guidelines section. A drawing of the tool is useful to clarify tolerance, finish, position of engraving or other specifications.
3. **Marking Method** - if custom tools are required, it is helpful to identify the marking machine being used or other equipment you propose to use. Include manufacturer's name, model, and serial number, if this information is available. All Schmidt marking equipment can be identified by a number stamped on the tool.
4. **Sample** - by analyzing the parts to be marked along with other information, we can make a recommendation on the best tool for your use. If sample tools, similar to those being considered, are available, we recommend that they be submitted with your inquiry.
5. **Custom Orders** - Schmidt will evaluate all marking challenges. Please be sure to provide clear drawings and specifications. Custom orders can be quoted through our Chicago headquarters or our California branch.
6. **When Ordering** - keep in mind the pressure requirements found on the next page.

Contact information

Please send inquiries and parts to:

Geo. T. Schmidt, Inc.
Attn: Customer Service
6151 W. Howard St.
Niles, IL 60714 - 3488

Phone: 800-323-1332
Fax: 800-934-3437
Website: www.gtschmidt.com

General Marking Guidelines

Pressure Requirements for Marking

Pressure to mark one character (in tons).

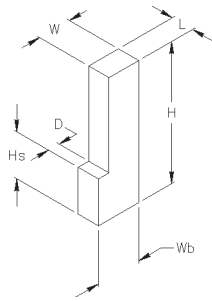
Character Size	Mild Steel	Soft Aluminum	Tool Steel	Character Depth
1/16"	.25	.15	.38	.003"
3/32"	.05	.30	.75	.004"
1/8"	.75	.45	1.13	.006"
5/32"	1.00	.60	1.50	.007"
3/16"	1.88	1.13	2.82	.008"
1/4"	2.10	1.26	3.15	.010"
5/16"	3.00	1.80	4.50	.013"
3/8"	4.00	2.40	6.00	.016"
7/16"	4.75	2.85	7.13	.016"
1/2"	5.70	3.42	8.55	.017"
5/8"	7.50	4.50	11.25	.020"
3/4"	9.25	5.55	13.88	.020"
7/8"	11.00	6.60	16.50	.020"
1"	13.00	7.80	19.50	.020"

These are pressures for Sharp Face characters.

In order to estimate marking pressure requirements, multiply the single character tonnage found above by the number of characters to be marked.

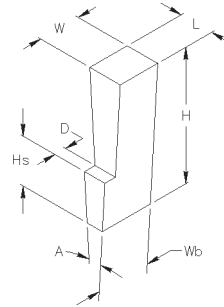
General Marking Guidelines

Blank Dimensions



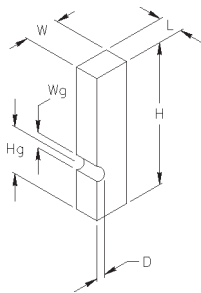
Straight Step Type

L = length
 W = width
 H = height
 H_s = height from step to bottom of die
 D = depth of step
 W_b = overall width of blank
 ($L \times W \times H$)
 step: ($H_s \times D$)



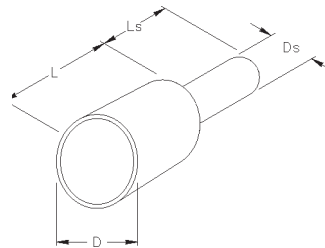
Knurl Step Type

L = length
 W = width
 H = height
 H_s = height from step to bottom of die
 D = depth of step
 W_b = overall width of blank
 A = angle
 ($L \times W \times H$)
 step: $H_s \times D$ angle: A



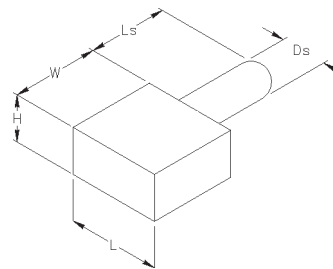
Straight Groove Type

L = length
 W = width
 H = height
 H_g = height from middle of groove to bottom of die
 W_g = width of groove
 D = depth of groove
 ($L \times W \times H$)
 groove: ($H_g \times W_g \times D$)



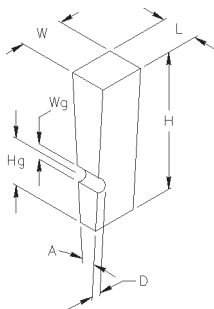
Shank Style Round Die

L = length of body
 D = diameter of body
 L_s = length of shank
 D_s = diameter of shank
 ($D \times L$)
 shank: ($D_s \times L_s$)



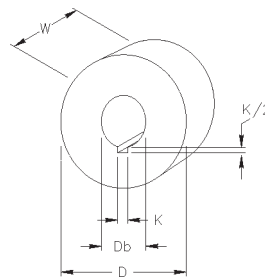
Shank Style Rectangular Die

L = length of die
 W = width of die
 H = height of die
 D_s = diameter of shank
 L_s = length of shank
 ($L \times W \times H$)
 shank: ($D_s \times L_s$)



Knurl Groove Type

L = length
 W = width
 H = height
 H_g = height from middle of groove to bottom of die
 W_g = width of groove
 D = depth of groove
 A = angle
 ($L \times W \times H$)
 groove: ($H_g \times W_g \times D$)
 angle: A



Lettering Knurl (Round Die)

D = diameter
 W = width
 D_b = diameter of bore
 K = width of keyway
 $K/2$ = depth of keyway
 ($D \times W \times D_b \times K \times K/2$)

General Marking Guidelines

Sharp Face Characters are engraved with a sharp edge where the tool comes in contact with the work. A sharp face tool penetrates more easily than others.

Flat Face Characters are engraved with a flat instead of a sharp edge in order to produce a wider impression. This face is often used on brass or other nonferrous metals or when the impression is to be color-filled. Since more material is displaced, more tonnage is required to make a flat face impression.

Aerocut Engraving produces a specially designed rounded face for marking impressions with minimum stress at the point of marking.

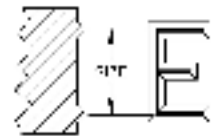
Outline Characters have two sharp face lines to produce the double line impression of an outline character. This style is often used to emphasize tradenames or designs.

Aerocut Dot face have specially rounded interrupted faces for lowest possible stress. Recommended for high pressure fittings, aircraft and other parts where sharp tools might disturb the molecular structure of the metal.

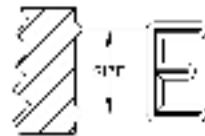
Sharp Face



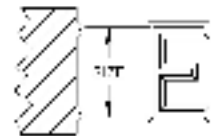
Flat Face



Aerocut



Outline



Aerocut Dot



Engraving Information

The specifications covering the engraving of a lettering tool are most important if satisfactory impressions are to be obtained. Many factors must be considered, including type of material being marked, desired depth of impression and tonnage of the marking machine.

Character Styles

A large majority of all lettering tools are engraved with standard sharp face gothic, capital letters. However, modern engraving methods make it possible to engrave almost any style of character or trademark.

Styles of Fractions

Tier Style..... $\frac{1}{2}$

Staggered Style..... $\frac{1}{2}$

Typewriter Style..... $\frac{1}{2}$

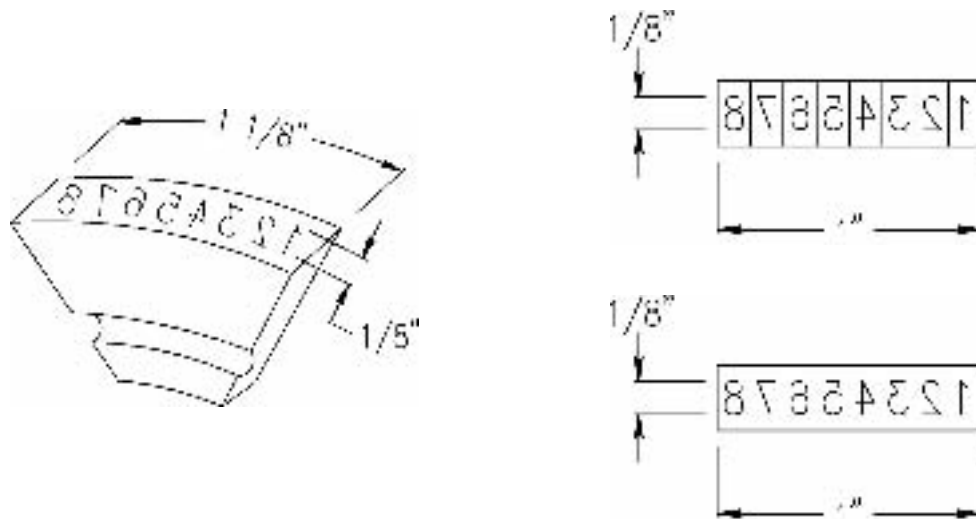
General Marking Guidelines

Character Size and Spacing

With **indented characters**, size should be determined by measuring the face of the tool. Sharp Face and Aerocut tools are measured at the apex of the engraved face indicated in the sketch. Flat Face and Outline style characters are measured to the outside edge or overall dimension of the engraved face.

Embossed characters are the exception and are measured from the impression rather than the face of the die. The size is determined by the height of the impression at the point where the raised portion meets the background.

Debossed characters. The size of a debossed character is measured at the point where the bevel of the male die meets the background.



Standard Type spacing is easily determined. The blank is the same as the character size multiplied by the total number of characters in the reading. (i.e. If a 1/16" character is used, an eight character word will be 1/2" long.) Condensed and extended style characters will decrease and increase these measurements respectively.

Straight Logotype spacing is determined in the same manner. Each character occupies an amount of space equal to the character size.

Knurl Logotype is engraved in multiples of characters as above, except that a space equal to one half a character is added before and after the reading. Thus the knurl logotype blank is one character longer than a straight logotype with the same reading. There is a natural tendency to select a larger character size than required with the result that the die may be too long for the marking area or tonnage requirements may be increased unnecessarily. Where there is a specific requirement, logotype, dies or type can be engraved either extended for a large area or condensed to permit stamping the legend in a confined area.

General Marking Guidelines

Depth Of Engraving (GTS Standards)

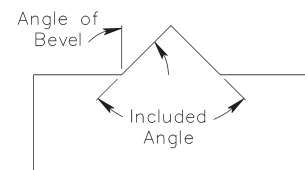
Character Size	Depth	Character Size	Depth
3/64"	.012"	5/16"	.040"
1/16"	.014"	3/8"	.050"
3/32"	.018"	7/16"	.055"
1/8"	.023"	1/2"	.060"
5/32"	.028"	5/8"	.062"
3/16"	.031"	3/4"	.078"
7/32"	.033"	1"	.093"
1/4"	.035"		

Extra Deep Engraving: Required when material is removed from a part after marking and an abnormally deep mark is required. Branding dies are engraved extra deep and with a flat face so the background of the hot die will not touch the material

Controlled Depth Engraving: In some applications, engraving may be shallower than standard depth. Trademarks and other lettering layouts are often irregular, which can result in an uneven impression. By engraving all characters and border lines somewhat shallower, the die can "bottom" (that means the die will penetrate to the background so that the whole mark is uniformly deep).



Bevels. The angle or bevel of the sides of engraved characters can be variable depending on the specific application. However, most dies for marking mild steel are engraved with 45 degree bevels. Branding or embossing tools are cut with straighter sides and flat faces. Heavier bevels and extra deep engraving are sometimes specified for particularly tough marking jobs.



Manual Marking

Hi-Loy Steel Letter and Figure Hand Stamps. Used with a hammer to mark changeable legends on a limited production basis.



Stock No.	Character Size	Size of Blank Square X Length
032665	1/16"	5/16" x 2-7/8"
032666	3/32"	5/16" x 2-7/8"
032667	1/8"	5/16" x 2-7/8"
032668	5/32"	3/8" x 3"
032669	3/16"	3/8" x 3"
032670	1/4"	3/8" x 3"
032671	5/16"	1/2" x 3-1/4"
032672	3/8"	5/8" x 3-1/2"
032673	1/2"	3/4" x 3-1/2"

Flat Steel Hand Stamps. Used with a hammer to stamp an entire legend with one blow...faster and more evenly than with single handstamps. All are made special according to customer specifications.



Aerocut and Aerocut Dot Face Letter and Figure Hand Stamps. Have specially rounded faces for making impressions with minimum stress at point of marking. Dot Face letters and figures have rounded interrupted faces for lowest possible stress. Both styles are recommended for high pressure fittings, aircraft and other parts where sharp tools might disturb the molecular structure of the metal. Available in individual characters or sets in hardwood case. Twenty-seven stamps in letter sets (A-Z plus "&"); Nine stamps in figure sets (6 is also used as a 9).



Manual Marking

Plain Code Stamps. These stamps provide on the spot information. Select symbols from standard code designs shown on the chart (pg. 29) or specify your own design.

Design Size	Blank Size Square x Length
1/16"	5/16" x 2-7/8"
3/32"	5/16" x 2-7/8"
1/8"	5/16" x 2-7/8"
5/32"	3/8" x 3"
3/16"	1/2" x 3-1/4"
1/4"	1/2" x 3-1/4"
5/16"	5/8" x 3-1/2"
3/8"	5/8" x 3-1/2"
1/2"	3/4" x 3-1/2"



Inspection and Code Stamps. Record two kinds of information with a single impression. Available in sizes from 3/16" to 1/2". When ordering specify design number, size and key letter or figure desired. Key characters are engraved as large as practical within designs.

Design Size	Blank Size Square x Length
3/16"	1/2" x 3-1/4"
1/4"	1/2" x 3-1/4"
5/16"	5/8" x 3-1/2"
3/8"	5/8" x 3-1/2"
1/2"	3/4" x 3-1/2"



Manual Marking

Model P Typeholder. Used with Standard Straight Groove Type for multiple character hand stamping with frequent setup changes. Type is designed to lock only in correct marking position. Holders are furnished in a complete range of sizes for single lines of type. Prices are given by quotation for multiple line holders and for holders to specifications. Order from stock on most models.

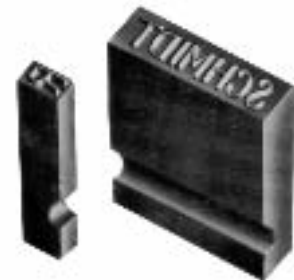


Stock Number	Model Number	Recess Size	Holder Capacity by Character Size					
			1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
032693	A-12	1/4" x 3/4"	12	8	6			
032694	A-15	1/4" x 15/16"	15	10		6		
032695	A-16	1/4" x 1"		16		8		
032696	A-18	1/4" x 1-1/8"	18	12	9			
032697	A-20	1/4" x 1-1/4"	20		10	8		
032698	A-24	1/4" x 1-1/2"	24	16	12			
032701	B-6	5/16" x 1-1/8"					6	
032702	B-8	5/16" x 1-1/2"					8	
032704	C-4	3/8" x 1"						4
032705	C-6	3/8" x 1-1/2"						6

Standard Straight Groove Type and Logotype. Type is available from stock in 1/16", 3/32", 1/8", 5/32", 3/16" and 1/4" Sharp Face Gothic Style letters and figures. These are used for long production runs and parts up to 32Rc. Spacers are also available. A locking pin engages a groove in the type locking them in the typeholder. Changes are easily made by removal of the locking pin. Logotype is made to order.

Stock Sizes

Stock Number	Character	Type Blank Dimensions Size
032608	1/16"	1/16" x 1/4" x .875"
032609	3/32"	3/32" x 1/4" x .875"
032610	1/8"	1/8" x 1/4" x .875"
032611	5/32"	5/32" x 1/4" x .875"
032612	3/16"	3/16" x 5/16" x 1.250"
032613	1/4"	1/4" x 3/8" x 1.250"



Manual Marking

Hand Style Repeat-O-Head. A time saver when repeat numbers are required. Each wheel has 10 figures and a blank space, permitting any figure setup. Individual wheel release permits freeing only one wheel without disturbing the entire setup. Standard heads available in 3/32" or 1/8" character sizes, 4-7 wheels with all wheels being figure wheels. Letter wheels are available for an additional charge per wheel. Larger characters are also available.



Radial Typeholder. Designed for radially marking flat surfaces. A pilot can be provided to guide the holder into marking position. This insures accurate placement of the radial mark.



Radial Step Type and Logotype. Used in radial typeholders to allow for quick changes and precise set-ups of radial marking information.



Press Marking

Model S Typeholder. Used for multiple character stamping with frequent setup changes. These Typeholders plus Schmidt Standard Straight Groove Type can be used in any press marking machine. A foolproof locking pin holds the type in place and prevents setting type upside down.



Stock Number	Model Number	Recess Size	Holder Capacity by Character Size					
			1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
032681	S-A12	1/4" x 3/4"	12	8	6			
032682	S-A15	1/4" x 15/16"	15	10		6		
032683	S-A16	1/4" x 1"	16		8			
032684	S-A18	1/4" x 1-1/8"	18	12	9			
032685	S-A20	1/4" x 1-1/4"	20		10	8		
032686	S-A24	1/4" x 1-1/2"	24	16	12			
032688	B-4	5/16" x 3/4"					4	
032689	B-6	5/16" x 1-1/8"					6	
032690	B-8	5/16" x 1-1/2"					8	
032691	B-10	5/16" x 1-7/8"					10	
032692	C-4	3/8" x 1"						4
048691	C-6	3/8" x 1-1/2"						6

Standard Straight Groove Type and Logotype. Type available from stock. These are used for long production runs, and parts up to 32Rcs. Logotype is made to order.

Stock Sizes for Standard Straight Groove Type

Stock Number	Character	Type Blank Dimensions	
		Size	
032608	1/16"	1/16" x 1/4" x .875"	
032609	3/32"	3/32" x 1/4" x .875"	
032610	1/8"	1/8" x 1/4" x .875"	
032611	5/32"	5/32" x 1/4" x .875"	
032612	3/16"	3/16" x 5/16" x 1.250"	
032613	1/4"	1/4" x 3/8" x 1.250"	



Press Marking

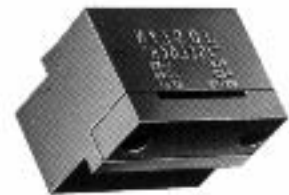
Radial Typeholder. Equipped with a shank for mounting. Radial Step Type or Logotype are held in position with a retaining plug and a socket head cap screw. The spacer ring may have more than one recess to position the marking in accordance with specifications.



Radial Step Type. Used when the entire legend changes. Logotype can be used when part of the legend remains constant.



Combination Engraved Dies and Typeholder. An engraved die with recesses for interchangeable type permits changing a portion of a legend while the basic engraving remains constant.



Plain Round Dies. Used as an insert or in a press to mark codes, trademarks, part numbers or other legends. Available in any diameter or length.



Press Marking

Rectangular Stamping Dies. Used as a die insert or in a press. Any pattern or design can be engraved.



Radially Engraved Shank Style Dies. Used in a press when a radial impression is desired on a flat surface.



Shank Style Dies. Shank sizes and lengths made to suit press and application.



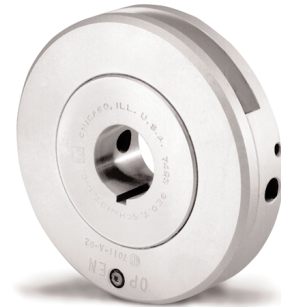
Embossing Dies. Used in matched pairs to produce raised characters or designs. Custom made by our skilled craftsmen.



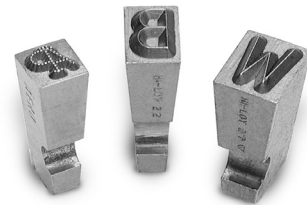
Roll Marking

Knurl (Round) Groove Typeholder. Used in roll marking machine or Screw Machine Knurl Holder, it accommodates Knurl Groove Type. Side plate of typeholder turns to allow type changes. Carried in stock.

Stock Number	Model Number	Recess Size
032706	7011-2	2"
032707	7011-3	3"



Knurl Groove Type and Logotype. Used in Knurl Groove Typeholder for roll marking when legend changes frequently. Bead in cover plate of holder keeps type in place. Type is carried in stock, logotype is made to order.



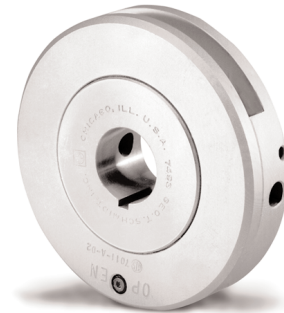
Spacers

Stock Number	Character Size	Stock Number	Character Size
032634	3/64"	032628	1/16"
032635	1/16"	032629	3/32"
032636	3/32"	032630	1/8"
032637	1/8"	032631	5/32"
032638	5/32"		

Roll Marking

Knurl (Round) Step Typeholder. Used in roll marking machines or Screw Machine Knurl Holder it accommodates Knurl Step Type. Carried in Stock.

Stock Number	Model Number	Recess Size
032712	7326-2	2"
032713	7326-3	3"



Knurl Step Type and Logotype. Used in Knurl Step Typeholder for roll marking when legend changes frequently. Shoulder in cover plate of typeholder engages step of type to hold type in place. Type is carried in stock, logotype is made to order.



Spacers

Stock Number	Character Size	Stock Number	Character Size
032648	1/32"	032645	1/16"
032649	1/16"	032646	3/32"
032650	3/32"	032647	1/8"
032651	1/8"	Custom	5/32"
032652	5/32"		

Roll Marking

Straight Typeholder. For use in Schmidt or other Roll Marking Machines. Type or logotype are easily changed by removing the locking pin. Several sizes are in stock, in both T-Slot and Dovetail Mounts.



Stock Number	Model Number	Character Size				Recess Size	Mount
		1/16"	3/32"	1/8"	5/32"		
032679	2518-2	32	21	16	12	2"	T-bolt
032680	2518-3	48	32	24	19	3"	T-bolt
032930	R-3312-3	48	32	24	19	3"	Dovetail

Standard Straight Groove Type and Logotype. Used in straight typeholders. Gives long, efficient service and is recommended for marking parts heat treated up to 32Rc. Logotype with figures or words engraved on a single blank to speed setup time are made to order. Standard Straight Groove Type is available from stock in the following sizes.

Stock Sizes

Stock Number	Character Size	Type Blank Dimensions
032608	1/16"	1/16" x 1/4" x .875"
032609	3/32"	3/32" x 1/4" x .875"
032610	1/8"	1/8" x 1/4" x .875"
032611	5/32"	5/32" x 1/4" x .875"
032612	3/16"	3/16" x 5/16" x 1.250"
032613	1/4"	1/4" x 3/8" x 1.250"

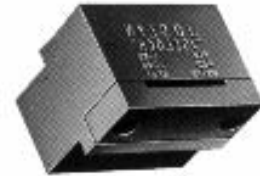


Straight Dieholder. Holds solid engraved die. T-slot for Model 660, 175, 575, 365 and Series 12. Dovetail mount for Series 9.



Roll Marking

Engraved Die & Typeholder. An engraved die with recesses for interchangeable type permits changing a portion of a legend while the basic engraving remains constant.



Solid Engraved Knurl (Round Die). The basic tool used in roll marking machines, lathes, or screw machine knurl holders. May be engraved with part numbers, name or other legend.



Engraved Trademark Knurls. Used to indent a trademark or other large legend or decorative design into a flat surface.

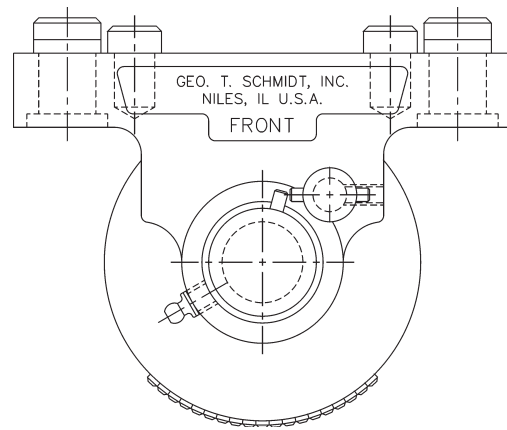


Engraved Graduating Knurl. Used to mark graduations on a flat surface. Schmidt engravers do this exacting work to assure you of perfect accuracy.



Fixturing

Knurl Carriages. Specifically designed for use in Schmidt or other roll marking machines. The carriage is mounted to the machine die slide and supports a knurl typeholder or solid engraved lettering knurl for roll marking flat parts. After marking a part, the knurl is returned to the starting position by a spring in a thimble at the end of the shaft. Alloy steel shafts with replaceable bronze bushings are used for durability. In addition, grease fittings are provided for ease of maintenance. Since shafts are removable, the lettering knurl can be removed without taking the carriage from the machine. Several sizes are in stock in both T-Slot and Dovetail Mounts.



Stock Number	Bore	Knurl Thickness	Knurl Diameter	Carriage Number	Mounts
032734	3/4"	5/8"	2-1/4"	7289-D1	T-Slot
032735	3/4"	3/4"	3"	7289-D2	T-Slot
032789	3/4"	3/4"	3"	7975	Dovetail

Fixturing

Camera lens mounts, graduated thimbles, collars and a great many other parts which are turned in a lathe, screw machine, multiple spindle or chucking machine can be efficiently marked in these machines, thus eliminating secondary operations during the turning operation. As the tool is fed in toward the rotating work, tapered beginners or dash lines are first to make contact. The knurl type holder rotates, marks the part and locks in position when it has rotated beyond the end to a cleared area on the periphery of the holder, thus preventing bur-nishing of the piece part and reducing wear on the last character of engraving. When the tool is withdrawn the trigger mechanism strikes a stop to release the cam-lock permitting the lettering tool to spring back to starting position.



The Shank Style Knurl Holder has the Schmidt cam-lock and spring return feature. The lettering tool is a knurl type holder with replaceable type. The shank permits mounting in a number of machines.

Free Running Knurl Holders are held in continuous contact with the turning work and mark on every revolution. The work piece diameter may have to be adjusted so that the marking tool will “track” properly.



In order to properly assess your application, please provide the following information:

1. Machine in which holder is to be used
 - a. make
 - b. model
 - c. serial number or year it was manufactured
2. Position of slide for mounting
3. Direction of stock rotation when facing chuck or collet - clockwise or counterclockwise
4. If shank style holder is desired, give size of shank
5. Dimension from center line of marking to face of collet (standard is 5/8")
6. Sample or drawing of piece part including diameter to be marked.(standard is 2-1/4")
7. Include lettering detail, layout, character sizes and depth of impression
8. Material to be marked

Fixturing

Roller Bearing Cradles are fixtures that can be mounted on the tables of roll markers to support and locate solid round parts or heavy walled tubing for peripheral marking



Standard Roller Bearing Cradles. These cradles are designed with low friction cam followers for maximum durability and service. Parts are loaded on these fixtures manually, and peripheral impressions are made by flat dies or typeholders mounted in the machine slide. Dies roll over the periphery of the part causing it to rotate while marking. Cradles are provided with tapped holes to permit installation of back gauges and outboard supports. All standard cradles are carried in stock.

Stock Number	Model Number	Work Diameters
032721	9701-0B	1/4" to 7/16"
032722	9701-1B	3/8" to 1"
032723	9701-2B	3/4" to 2"
032724	9701-3B	1-3/4" to 4-1/2"

Special Cradles. Stock cradles range from 1/4" to 4-1/2" diameter. We can make special cradles to your specifications.

Stud Arbor Fixtures. Hollow round parts often are supported on arbors for marking. All Schmidt built arbors are of sturdy construction with heavy ball bearings mounted in machined steel bases. Plain Stud Arbor Table Fixtures are suitable where marking may appear at any point on the periphery. When a range of sizes needs to be marked, interchangeable stud arbors can be furnished for the same fixture base. A Spring Return Type Arbor is required for marking at the same starting point for each part. The spring return feature allows the stud arbor to return to its correct starting position after each marking cycle.



Numbering Heads

A wide variety of standard and custom numbering heads, for use in roll marking machines and press marking machines can be provided to meet specific serial numbering and sequential marking applications.

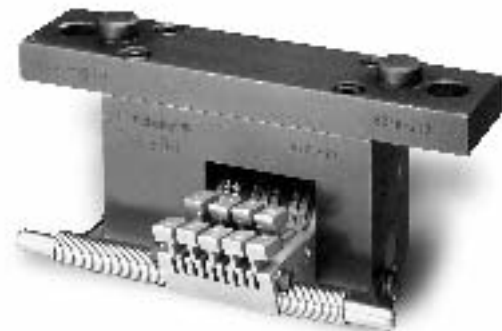
Shank Style Repeat-O-Head. For infrequent or low-volume numbering applications. An individual wheel release feature allows you to rotate one wheel without moving any other wheels. Standard Heads have 4-7 wheels, each engraved with number 0-9 plus a blank space. Standard character sizes are 3/32" or 1/8".



Model 10. The industry standard for automatic numbering. Used in press markers or roll markers to indent consecutive numbers in metal and other materials. Standard heads have 5-7 wheels, and character sizes from 3/32" to 1/8".

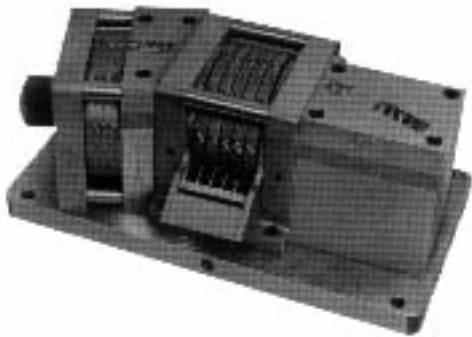


Select-O-Heads. Recommended for applications where all or several wheels must be changed frequently. Each wheel has its own manual selector lever for fast, super-accurate settings.



Numbering Heads

Barrel-Style. Used in roll marking applications to mark flat parts. They can be automatic, semiautomatic, or manual.



Special Numbering Heads. With design modifications, all of the Schmidt numbering heads mentioned previously can be ordered to meet special circumstances. For example, you can specify larger characters, different character styles, or any combination of letters and numbers you want on the wheels.

Embossing Numbering Heads. For legible numbering of stock up to .093" thick. All are made to order to customer's specifications.

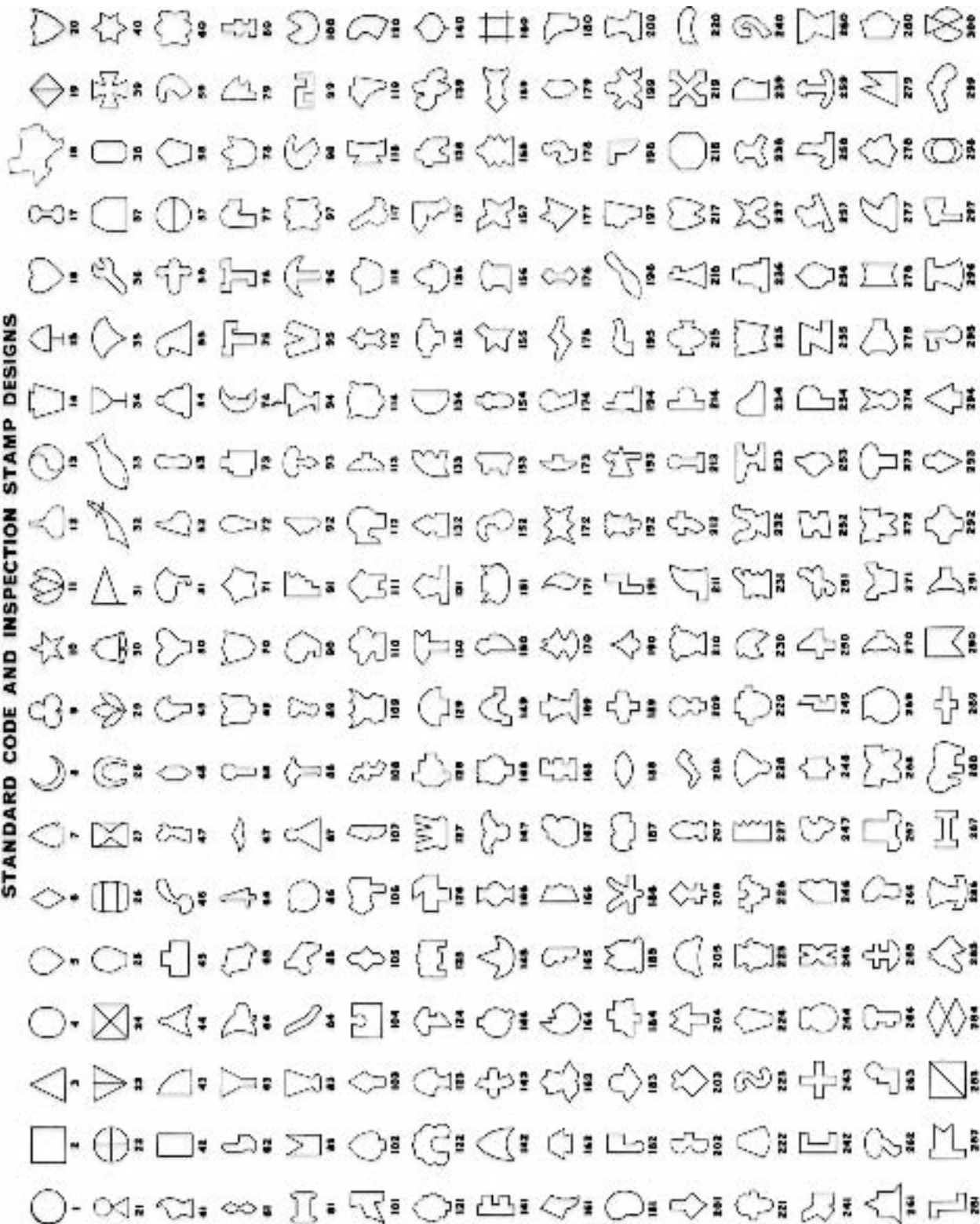
Required Information

Please specify the following information when ordering or requesting quotations on any embossing numbering heads:

1. Character size
2. Type and gauge of material to be embossed
3. Number of wheels required
4. Prefix and suffix requirements, if any
5. Production rate
6. Tonnage capacity of press
7. Die space and throat
8. Length of press stroke

Standard Code & Design Chart

STANDARD CODE AND INSPECTION STAMP DESIGNS



Company Information

When German immigrant George Schmidt founded Geo. T. Schmidt, Inc. in 1895, it was to provide simple, manual hand stamps like the ones used to mark addresses in the sidewalk. These marks were made by pressing cast iron numbers into wet concrete to create a permanent indentation or mark.

The cold metal type and dies used in manual stamping operations are the oldest and most widely used marking methods to this day. But because hand stamping is best only when the production run is very short and the marking tolerances are not highly critical, Schmidt's product line has expanded over the century to include much more sophisticated, computer-controlled marking systems and custom tooling.

Geo. T. Schmidt, Inc., has been the worldwide leader in permanent marking technology and services for more than 100 years. With product offerings ranging from manual, low-volume needs utilizing hand stamps, to automated systems including hydraulic and pneumatic machines, to stylus and laser systems, Schmidt is able to provide marking solutions for almost any permanent marking application. Geo. T. Schmidt, Inc. not only has the engineering expertise to solve your marking needs but also provides follow up service support as well.

Schmidt has maintained the highest level of marking quality for over 100 years. That is why we are ISO 9001 certified to ensure our quality standards will continue. We consistently maintain high tooling standards by using materials made of high grade steel, heat treated to required Rockwell hardness, with a precise character bevel, clean background and nick free, as well as, centered on a blank within .003" of specification.

If Schmidt ever fails to meet these standard we will rework the tooling on a priority basis at no cost to you and we will pay the cost of overnight shipping to and from our company.

We also offer an outstanding customer service department that is available and waiting to help you 24 hours a day, 7 days a week on our entire product line.

Schmidt's Complete Product Line of Indent Marking

Press Marking

Model 5T Pneumatic Impact Press
Model 10T Pneumatic Impact Press
Model 450 Squeeze Press
Model 25ES-S Squeeze Press

Rotary Marking

Model 19 Rotary Marking Machine
Model 20 Rotary Marking Machine
Model 21 Rotary Marking Machine

Roll Marking

Series 9
Series 12
Model 175-MPC Hydraulic Marker
Model 575-MPC Hydraulic Marker
Model 377, 477 and 577 Hydraulic Marking Machines

Stylus Marking

Mark3
Mark4
Stinger Portable Marker
QuietMark 1
QuietMark 2

Nameplate Marking

Model 4&6
Model 990-SST

Laser Marking

MicroLase

For more information, literature requests, or to purchase online please visit our website at

www.gtschmidt.com

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