

# **UNION SPECIAL**

**Industrial Sewing Machines**

## **Needle Manual for Union Specials**

**Catalog No. 45  
Second Edition**

**UNION SPECIAL MACHINE COMPANY  
CHICAGO**



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Catalog No. 45

Second Edition

Needle Manual

for

Union Specials

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\* Main Offices



## FOREWORD

In issuing this needle manual, Union Special is prompted by a desire to assist the users of our machines in solving the problems encountered in the sewing of the wide variety of materials used in today's sewed articles. The type, size, and point of the needle plays an all important part in securing results from both a quality and production standpoint.

On the pages which follow will be found descriptions of the needle points, their correct application to the different grades of material being sewed, illustrations of the points, a list of the types and sizes available, the types available for the various styles of machines, and additional valuable information.

See catalog No. 45 A for needle prices.

In all manufacturing centers will be found Union Special representatives, who will co-operate with those who desire in planning and estimating their requirements.

UNION SPECIAL MACHINE COMPANY

Engineering Department

# INDEX

PAGE NOS.

Abbreviations used on needle packages - - - - -	9
Abnormally short stitch operations on leather	20
Application of type numbers to machines - - - - -	39 to 49
Ball eye needles, application of- - - - -	13
Ball point needles, application of- - - - -	15
Breaking surface of patent and enamel leathers, remedy for- - - - -	21
Characteristics of needles- - - - -	12
Chromium plated finish, application of- - - - -	13
Close rows running together on leather, remedy for - - - - -	20
Cloth work sewing problems, solution of - - - - -	19 & 20
Cross point needles, application of - - - - -	15
Cross point needles, list of- - - - -	32 & 33
Cutting holes in fabric, remedy for - - - - -	19
Diagram showing the length of the various types of needles from the extreme butt end to the near side of the eye- - - - -	8
Explanation of symbols- - - - -	6
Flat point needles, application of- - - - -	18
Flat point needles, list of - - - - -	30 & 31
Genuine needles, description and necessity of	14
Government point needles, application of- - - - -	12 & 13
Gripping stitches on leather, remedy for- - - - -	21
Heating of needles on leather, remedy for - - - - -	21
Identifying needles - - - - -	8 & 9
Illustrations of needle points- - - - -	16 & 17
Instructions for ordering - - - - -	14
Leather work sewing problems, solution of - - - - -	20 & 21
List of needles - - - - -	22 to 38
Machine style numbers with list of needles available - - - - -	39 to 49
Millimeter equivalents for size numbers - - - - -	11
Narrow cross taper point needles, application of- - - - -	15 & 18
Narrow cross taper point needles, list of - - - - -	33 & 34
Needle characteristics- - - - -	12
Needle cuts in material, remedy for - - - - -	19
Needles heating on leather, remedy for- - - - -	21
Needle points - - - - -	14 to 19
Needle points, illustrations of - - - - -	16 & 17
Needle point best suited for abnormally short stitch operations on leather- - - - -	20
Needles and thread, relative sizes of - - - - -	11 & 12
Nickel plated finish, application of- - - - -	13
Nomenclature of needles - - - - -	6 & 7
Old and new size numbers- - - - -	11
Ordering- - - - -	14
Outstanding characteristics of needles- - - - -	12
Plain finish needles, application of- - - - -	13
Relative sizes of needles and thread- - - - -	11 & 12
Reverse twist rocked point needles, application of- - - - -	18
Reverse twist rocked point needles, list of - - - - -	36 & 37
Rocked point needles, application of- - - - -	18
Rocked point needles, list of - - - - -	30



# INDEX

PAGE NOS.

Round point needles, application of - - - - -	15
Round point needles, list of- - - - -	22 to 28
	37 & 38
Round point, ball point needles, application of	15
Sewing problems and their solution- - - - -	19 to 21
Sewing problems on fabrics containing rubber thread, solution of - - - - -	20
Sewing problems on cloth work, solution of- - -	19 & 20
Sewing problems on leather work, solution of- -	20 & 21
Sewing problems on spun rayon fabrics - - - -	20
Short point needles, application of - - - - -	13
Single slab needle spacing- - - - -	9 & 10
Single and double slab needle spacing - - - -	9 & 10
Size limitations of single slab needles - - - -	10
Spacing made with single slab needles - - - -	9 & 10
Solution of sewing problems - - - - -	19 to 21
Spear point needles, application of - - - - -	18 & 19
Spear point needles, list of- - - - -	31 & 32
Special needles, ordering of- - - - -	14
Special chromium plated needles, ordering of- -	14
Spotted needles, application of - - - - -	13
Spun rayon fabric sewing problems- - - - -	20
Square point needles, application of- - - - -	19
Square point needles, list of - - - - -	36 & 38
Stay point needles, application of- - - - -	15
Stay point needles, list of - - - - -	28, 29 & 38
Styles of machines and list of needles available - - - - -	39 to 49
Suggestions for overcoming needle troubles- - -	19 to 21
Symbols, explanation of - - - - -	6
Taper blade needles, application of - - - - -	14
Terms - - - - -	14
Three row needle spacing made with slab shank needles - - - - -	10
Triangle point needles, application of- - - - -	19
Triangle point needles, list of - - - - -	37
Twist point needles, application of - - - - -	18
Twist point needles, list of- - - - -	34 & 35
Twist centered point needles, application of- -	18
Twist centered point needles, list of - - - -	35 & 36
Two row needle spacing made with single slab needles - - - - -	9 & 10
Under-size eye and grooves, application of- - -	13 & 14

## MISCELLANEOUS INFORMATION

### EXPLANATION OF SYMBOLS

Needle symbols are set up in groups of 100 numbers according to the style of point, with a further subdivision segregating the round shanks from the slabbed shanks. Each needle has a type number and a size number. The former denotes the kind of shank, point, length, groove, finish, and other details. The latter denotes the diameter of the blade, measured in thousandths of an inch and is stamped in the shank. Collectively the type number and size number is the complete symbol.

### NOMENCLATURE

For the most part this is self defining. The following list shows the terms used in describing needles with the explanation set opposite.

Round Shank- As the name implies: Round.

Single Slabbed Shank- Milled flat on one side.

Double Slabbed Shank- Milled flat on two sides.

Single Groove- A long groove on one side only.

Double Groove- A groove on both sides.

Spiral Groove- A groove extending spirally from the eye of the needle.

Double groove needles have a long and short groove. The long groove is continuous from the eye to the rim of the shank and guides the thread from the source of supply through the eye. The short groove extends from the eye usually to the base of the shank, but in some types a lesser distance. These types of needles are made three ways with respect to the short groove.

(1) A clearance is milled in the blade just above the eye. This is described as "spotted".

(2) A land is located in the groove a short distance above the eye.

(3) The groove is continuous from its termination to the eye.

The types, with the land in the short groove, are generally used. Where the description does not include the words "spotted" or "continuous double groove", the needle has the land in the short groove.

Extra Short- Measurement 1  $7/16$  inches from butt to near side of eye, .080 inch diameter shank.

Short- Measurement 1  $17/32$  inches from butt to near side of eye, .080 inch diameter shank.

Long- Measurement 1  $21/32$  inches from butt to near side of eye, .080 inch diameter shank.

No. 2 Bag- Measurement 1  $21/32$  inches from butt to near side of eye, .080 inch diameter shank.

Class R- Measurement 1  $21/64$  inches from butt to near side of eye, .080 inch diameter shank.

Class X- Measurement 1  $7/64$  inches from butt to near side of eye, .076 inch diameter shank.

T Length- Measurement 1  $21/64$  inches from butt to near side of eye, .080 inch diameter shank.



## MISCELLANEOUS INFORMATION

Interlock- Measurement  $1 \frac{7}{16}$  inches from butt to near side of eye, .080 inch diameter shank.

Picoetta and Crochetta- Measurement  $1 \frac{31}{64}$  inches from butt to near side of eye, .080 inch diameter shank.

Lockstitch, Short Length- Measurement  $1 \frac{11}{32}$  inches from butt to near side of eye, .072 inch diameter shank.

Herakles and Antaeus- Measurement  $2 \frac{3}{32}$  inches from butt to near side of eye, .156 inch diameter shank.

Antaeus, Long Length- Measure  $2 \frac{5}{16}$  inches from butt to near side of eye, .156 inch diameter shank.

Short Blade- The blade is from  $\frac{1}{16}$  to  $\frac{1}{8}$  inch shorter than the standard, the shank being correspondingly longer.

Long Blade- The blade is from  $\frac{1}{16}$  to  $\frac{1}{8}$  inch longer than the standard, the shank being correspondingly shorter.

Where the description does not include the words "short blade" or "long blade", the needle has the standard length blade.

Ball Eye- A swell on the blade at the outside of the eye.

Uniform Blade- The blade is a uniform diameter from the eye to the shank.

Taper Blade- The blade diameter increases from the eye to the shank.

Where the description does not include the words "ball eye" or "taper blade", the needle has a uniform blade.

Flat Blade- The blade has two flat sides. Where the description does not include the words "flat blade", the needle has a round blade.

Ball Point- A blunt point secured by a small radius. Where the description does not include the words "ball point", the needle has a sharp point.

Government- A point approximately  $\frac{1}{16}$  inch longer than regular.

Long Point- A point, approximately  $\frac{1}{32}$  inch longer than regular.

Short Point- A point, approximately  $\frac{1}{32}$  inch shorter than regular.

Where the description does not include the words "government", "long point" or "short point", the needle has a standard length of point.

Right and Left- The right needle and left needle respectively of a pair of single slab shank needles, set with the flats adjacent and the long grooves in front.

Plain Finish- Polished, without any plating.

Undersize Eye and Grooves- The width of the eye and grooves is reduced a substantial amount

Where the description does not include the words "undersize eye and groove" or "oversize eye and groove", the needle has a regular width of eye and groove.

CLASS X

$1 \frac{7}{64}$ "

CLASS R  
T LENGTH

$1 \frac{21}{64}$ "

LOCK STITCH,  
SHORT LENGTH

$1 \frac{11}{32}$ "

EXTRA SHORT  
INTERLOCK

$1 \frac{7}{16}$ "

PICOETTA  
CROCHETTA

$1 \frac{31}{64}$ "

SHORT

$1 \frac{17}{32}$ "

LONG  
NO. 2 BAG

$1 \frac{21}{32}$ "

HERAKLES  
ANTAEUS

$2 \frac{3}{32}$ "

ANTAEUS,  
LONG LENGTH

$2 \frac{5}{16}$ "

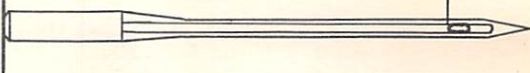


DIAGRAM SHOWING THE LENGTH OF THE  
VARIOUS TYPES OF NEEDLES FROM THE  
EXTREME BUTT END TO THE NEAR SIDE  
OF THE EYE.



# MISCELLANEOUS INFORMATION

## ABBREVIATIONS

The following list shows the abbreviations used in the descriptions on the needle packages:

ACR. - - ACROSS	PLT. - - PLATED
ANT. - - ANTAEUS	PT.- - - POINT
BL.- - - BLADE	RAD. - - RADIUS
CEN. - - CENTERED	RED. - - REDUCTION
CH.- - - CHROMIUM	REV. - - REVERSE
CL.- - - CLASS	RKD. - - ROCKED
CLE. - - CLEARANCE	RD.- - - ROUND
CR.- - - CROSS	SHK. - - SHANK
DIA. - - DIAMETER	SHP. - - SHARP
D. - - - DOUBLE	SHT. - - SHORT
EX.- - - EXTRA	S- - - - SINGLE
FIN. - - FINISH	SL.- - - SLAB
GOV. - - GOVERNMENT	SLD. - - SLABBED
G- - - - GROOVE	SP.- - - SPEAR
HER. - - HERAKLES	SPL. - - SPECIAL
INT. - - INTERLOCK	SPRL.- - SPIRAL
LOCK.- - LOCKSTITCH	SPTD.- - SPOTTED
NAR. - - NARROW	SQ.- - - SQUARE
NDLE.- - NEEDLE	STD. - - STANDARD
NIC. - - NICKEL	STR. - - STRAIGHT
NO.- - - NUMBER	TAP. - - TAPER
OVL. - - OVERALL	TRI. - - TRIANGLE
OVZE.- - OVER-SIZE	TW.- - - TWIST
PIC. - - PICOETTA	UNZE.- - UNDER-SIZE
PLN. - - PLAIN	

## IDENTIFYING NEEDLES

Printed on the needle packages will be found the Type and Size numbers, also a description of the needles contained therein. A diagram showing the length of the various types of needles from the butt end to the near side of the eye is furnished for identification convenience when the needle is separated from its package. Place the physical needle as shown at the bottom of the diagram. The term or terms used to denote the length of the needle is shown to the left.

## SINGLE SLAB NEEDLE SPACING

To secure a variety of spacing between the rows of stitches made with single slab shank needles, they are made in five different slabs viz: .056 inch, .060 inch, .064 inch, .068 inch, and .076 inch. The space between the center lines of the needles in sewing position is viz:

.056 inch slab,	.032 inch
.060 " "	.040 "
.064 " "	.048 "
.068 " "	.056 "
.076 " "	.072 "

## MISCELLANEOUS INFORMATION

### SINGLE SLAB NEEDLE SPACING (Cont'd)

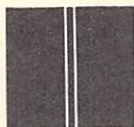
The appearance of the rows will vary slightly according to the size of thread used. The accompanying illustrations show the spacing made with B silk.



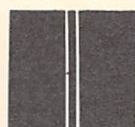
.056 Slab



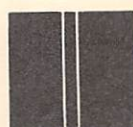
.060 Slab



.064 Slab



.068 Slab



.076 Slab

Where three equal space close rows of stitches are made with needles set abreast, one double slab shank .048 inch slab needle is located between two single slab shank needles. The variety of spacing between the rows of stitches produced is secured by substituting different slab outside needles. The spacing between the center lines of the needles in sewing position using the specified slabs of outside needles is viz:

.056	inch	slab,	.040	inch
.060	"	"	.044	"
.064	"	"	.048	"
.068	"	"	.052	"

### SIZE LIMITATIONS OF SINGLE SLAB NEEDLES

The limitations of the blade sizes of single slab needles with .080 inch diameter shank with respect to slab sizes are set up below:

Slab, .056 inch-	maximum blade size 032
Slab, .060 inch-	maximum blade size 040
Slab, .064 inch-	maximum blade size 046
Slab, .068 inch-	maximum blade size 054



# MISCELLANEOUS INFORMATION

## OLD AND NEW SIZE NUMBERS

The size numbers in vogue prior to 1918 are omitted. The following table shows the old size numbers and equivalents under the new system of the needles listed at the time the change was made, except Class X. It also shows the millimeter equivalents.

Old Size No.	New Size No.	Millimeter Equivalent	Old Size No.	New Size No.	Millimeter Equivalent
000000	- - 019	- - .483	3	- - - 049	- - 1.245
000000-	- - 022	- - .559	3 1/2	- - 052	- - 1.321
0000	- - - 025	- - .635	4	- - - 054	- - 1.372
000	- - - 027	- - .686	5	- - - 060	- - 1.524
000 1/2	- - 029	- - .737	6	- - - 067	- - 1.702
00	- - - 032	- - .813	8	- - - 080	- - 2.032
00 1/2	- - 034	- - .864	9	- - - 090	- - 2.286
0	- - - 036	- - .914	10	- - - 100	- - 2.540
0 1/2-	- - 038	- - .965	12	- - - 120	- - 3.048
1	- - - 040	- - 1.016	14	- - - 140	- - 3.556
1 1/2	- - 042	- - 1.067	16	- - - 156	- - 3.962
2	- - - 044	- - 1.118	18	- - - 172	- - 4.371
2 1/2-	- - 046	- - 1.168	20	- - - 188	- - 4.773

The equivalents for Class X needles are:

Old Size No.	New Size No.	Millimeter Equivalent	Old Size No.	New Size No.	Millimeter Equivalent
0000000-	- 020	- - .508	00	- - - 033	- - .838
000000	- - 022	- - .559	0	- - - 037	- - .940
000000	- - 025	- - .635	1	- - - 040	- - 1.016
0000	- - - 027	- - .686	1 1/2-	- - 042	- - 1.067
000	- - - 030	- - .762	2	- - - 047	- - 1.194

## RELATIVE SIZES OF NEEDLES AND THREAD

The widths and lengths of the needle eye, also the widths and depths of the needle grooves are proportional with the sizes of the blades. The quality of the work desired is largely dependent on the size and point of the needle employed. On heavy work, the penetration of which requires a sturdy needle, it is advisable to use a comparatively large size needle for a given size thread.

As the needle puncture on cloth work closes to a considerable extent, upon the withdrawal of the needle, a larger needle than is recommended for leather work can be used.

The accompanying tables show the preferred size of needle with standard widths of eye for both cloth and leather work using various kinds and sizes of threads. The choice, however, should give consideration to the factors referred to above, which may dictate the selection of a needle size

# MISCELLANEOUS INFORMATION

## RELATIVE SIZES OF NEEDLES AND THREAD (Cont'd)

slightly larger or smaller than the size specified. Too large a needle will cause skip stitches as the thread is not confined accurately in the needle eye.

### CLOTH WORK

Needles	019 to 025	026 to 029	030 and 032	034 and 036	038 and 040	042 and 044	048 and 049	054 and 060	067
Size of Cotton Thread	150 to 120	120 to 100	100 to 80	80 to 60	50	40 and 36	30 and 24	16 and 12	8
Size of Silk	0000 to 000	00 to B	C	D	E	---	---	---	---

### LEATHER WORK

Needles	027 and 028	029 and 030	032	034	036	038	040	044	048 and 049
Size of Cotton Thread	---	50	40	36	---	30	24	20	16
Size of Silk	O and A	B	C	---	D	---	---	---	---

A crude method for deciding if a given needle is large enough to sew a given thread is to pass the thread through the needle eye, hold the thread reasonably taut in a vertical position between your two hands, and spin the needle. If it does not slide down the thread the needle is too small to be successfully used with the thread.

A better test if the material to be sewed is available is to pass the thread through the needle eye, force the needle through the material and note if the thread can be drawn freely through the long groove of the needle.

The use of a larger needle than size 100 is not recommended unless the size or roughness of the sewing twine makes it necessary

### OUTSTANDING CHARACTERISTICS OF NEEDLES

Various features have been developed to improve the quality of the work produced also the durability of the needles. These features are described on a comparative basis.

### GOVERNMENT POINT NEEDLES

They have a long tapering point measuring approximately 7/32 inch from the point to the near side of the eye. This feature makes a very desirable needle for sewing delicate knitted and woven fabrics when needles with the standard



## MISCELLANEOUS INFORMATION

length point will cut holes in the fabric.

This feature also makes a very desirable needle for sewing tough closely woven fabrics such as khaki where the penetration resistance is severe. The long straight taper decreases this resistance and consequent friction.

### SHORT POINT NEEDLES

They are designed for sewing extra thick work, where it is necessary to have the maximum space under the point of the needle at high position.

### BALL EYE NEEDLES

They are designed for sewing tough woven fabrics, where the penetration resistance is severe. To decrease the friction the diameter across the eye is increased approximately .004 inch matched against the diameter midway between the eye and shank. The size numbers for machines equipped with loopers denote the diameter across the grooves midway between the eye and shank. The size numbers for lockstitch machines denote the diameter across the eye.

### SPOTTED NEEDLES

These have a spot or recess milled out on the short groove side just above the eye. They were originally designed for use in the larger sizes, so that the loop taking implement could pass closer to the center line of the needle. This construction was, however, later adopted for types made in the smaller sizes.

### PLAIN FINISH NEEDLES

These needles are polished without any plating. It is the standard on needles for sewing leather. The penetrating resistance is reduced a substantial amount matched against needles with nickel plated finish.

### NICKEL PLATED FINISH

This finish is standard for sewing cloth. The friction is reduced a substantial amount matched against needles with plain finish.

### CHROMIUM PLATED FINISH

Since 1930 when the chromium plate finish was introduced into the manufacture of needles, its popularity has increased by leaps and bounds. It makes the ideal finish for sewing tough woven fabrics. The durability of the needles is substantially increased as the heat generated by the friction has a lesser effect on the chromium plate.

This finish has also proved very efficient for sewing the tougher grades of leather.

### UNDERSIZE EYE AND GROOVES

Needles with undersize eye and grooves were developed for sewing comparatively heavy work such as overalls, where the penetrating resistance is severe and a comparatively small size thread fills the strength of seam requirements. This



## MISCELLANEOUS INFORMATION

### UNDERSIZE EYE AND GROOVES (Cont'd)

construction furnishes a more sturdy needle in a given size. A one step reduction describes a needle with a width of eye and grooves equal to that of a corresponding regular needle approximately .004 inch smaller in blade diameter. A two step reduction describes a corresponding regular needle approximately .008 inch smaller in blade diameter.

### TAPER BLADE

The taper blade needles were developed for sewing ultra delicate fabrics. They have an exceptionally small blade diameter across the eye which increases in a straight taper to the shank. This construction produces a reasonably sturdy needle yet the diameter across the eye can be abnormally small.

### ORDERING

To have orders promptly and accurately filled, the type and size numbers should be given. See marks on packages. An intelligent order would read as follows "1000 Needles Type 106, Size 040. If the type and size numbers are not available, send the empty package or a sample needle.

Special needles, not listed herein, will be made to order in lots of 1000 or more. Customer is obligated to accept the proceeds of the production order even though there is an overrun or underrun of 20%. The price will be based on the quantity furnished. Full details must be submitted with the order.

Chromium plated needles not listed herein can be furnished by converting standard needles listed. The minimum quantity is 200.

### USE GENUINE NEEDLES

Success in the operation of these machines can be secured only by the use of genuine Union Special Needles as furnished by the Union Special Machine Company, its subsidiaries and authorized distributors. Obviously, it is to our interest to maintain the reputation of Union Specials by furnishing the very best needles obtainable. They are designed according to the most approved scientific principles, and are made with the utmost precision. The maximum efficiency and durability are assured.

Genuine needles are put up in packages marked at the top "Trade 'UNION SPECIAL' mark". This trade mark is symbolic of superlative excellence. All other needles are bogus.

### TERMS

Prices are strictly "net cash" and subject to change without notice. See Catalog No. 45 A. All shipments are forwarded at the buyer's risk f.o.b. shipping point. Parcel post shipments are insured unless otherwise directed. A charge is made to cover the postage and insurance.

### NEEDLE POINTS

The needle point must be carefully selected for the kind of material to be sewed. Its importance with respect to



## NEEDLE POINTS

producing quality plus sewing, durability of the seam produced, and durability of the needle cannot be over estimated. A large variety of points are made for penetrating leathers so that the needle thread will be embedded properly in the finished side and avoid breaking the surface adjacent to the punctures. The accompanying illustrations show the styles of points available.

The arrows show the direction of the line of stitches with respect to the needle incision, when the needle is used in machines equipped with loopers traveling across the line of feed like styles in Classes 7200, 8900, and 51400. When used in machines equipped with loopers traveling in line with the feed like styles in Classes 16800, 54100 and lockstitch machines, the same needle is turned 90° consequently the incisions will likewise be turned 90° from that shown in the illustrations.

### THE ROUND POINT

This point, sometimes called "cloth point", is almost universally used on cloth work. It has no cutting edges, consequently spreads the material as it passes through. It is not easily deflected as it has a sharp point, unless the words "ball point" are included in the description.

### THE ROUND POINT BALL POINT

This is a modification of the round point, symbolized in the round point group. Instead of the sharp point, which characterizes most of the needles in this group, it has a small radius at the point which allows it to automatically find its way between the yarns comprising the body fabric by deflecting the yarns.

### THE STAY POINT

This is a very popular point for stitching leathers of average firmness. Its incision is made across the line of stitches, 20% by cutting and the remainder by spreading the material.

An outstanding feature is its durability as this needle will continue sewing even though the point has become slightly blunted.

### THE CROSS POINT

This point is designed for stitching fine leathers where the desire for a short stitch is paramount. Its incision is made across the line of stitching, 45% by cutting and the remainder by spreading the material. A firm portion of surface leather is left between the needle punctures which prevents the thread from being drawn through the surface. Thus a stitch of thirty two per inch is made possible under favorable conditions.

The cross point needle cannot be recommended for use on leathers having a hard, firm surface, nor for close row stitching with two or more needles set abreast.

### THE NARROW CROSS TAPER POINT

This point, as its name indicates, is similar to the cross point, but is made slightly narrower to increase its durability, and to prevent its being deflected in passing through

# NEEDLE POINTS



Round  
Point



Round  
Point  
Ball  
Point



Stay  
Point



Reverse  
Twist  
Rocked  
Point



Twist  
Point



Twist  
Centered  
Point



Flat  
Point



# NEEDLE POINTS



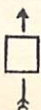
Cross  
Point



Narrow  
Cross  
Taper  
Point



Rocked  
Point



Square  
Point



Spear  
Point



Triangle  
Point

## NEEDLE POINTS

### THE NARROW CROSS TAPER POINT (Cont'd)

the leather. Its incision is made across the line of stitching, 35% by cutting and the remainder by spreading the material.

### THE ROCKED POINT

This point is the most extensively used for stitching fine and medium grade shoes where the needle thread is exposed on the finished surface of the leather. Its incision is made across the line of stitching, 40% by cutting and the remainder by spreading the material.

### THE REVERSE TWIST ROCKED POINT

This point as its name indicates is similar to the rocked point. Its incision is made across the line of stitching but at an angle that will insure the maximum of stock between two or more close adjoining rows of stitching made with needles set abreast. The incision is made 40% by cutting and the remainder by spreading the material. All the advantages found in the rocked point are present in the reverse twist rocked point. The slight twist avoids two adjoining rows of stitches running together when made with .056 inch single slab needles.

### THE TWIST POINT

This point is recommended for sewing leathers having a hard firm surface. Also for sewing tough woven fabrics where the round point needles have a tendency to heat excessively. Its incision is made diagonally with the line of stitching, as shown in the illustration, 45% by cutting and the remainder by spreading the material.

The twist point opens up the material a substantial amount, consequently it permits an abnormally free passage of the thread.

### THE TWIST CENTERED POINT

This point, as its name indicates, is similar to the twist point, but is recommended only for sewing leathers having a hard firm surface. Its incision is substantially the same as the twist point.

### THE FLAT POINT

This point is recommended for sewing leathers having a hard firm surface where it is desirable to have the needle thread embedded below the surface, also for the closing operation on all grades of leather. Its incision is made parallel with the line of stitching, 35% by cutting and the remainder by spreading the material.

A stitch length shorter than 16 per inch should not be used on leathers of average firmness.

### THE SPEAR POINT

This point, sometimes called the "diamond point", is recommended for sewing leathers having a hard firm surface, tough fabrics where the round point needles heat excessively and heavy weight multi-wall type paper bags. Two of the edges cut across the line of stitching and two parallel with it.



## NEEDLE POINTS

An outstanding feature is two long and two short facets, which allows two of the edges to cut through the material a substantial distance ahead of the two opposite edges. Its incision is made 40% by cutting and the remainder by spreading the material.

### THE SQUARE POINT

This point is recommended for sewing heavy jute and other coarse fabrics, also for heavy weight multi-wall type paper bags. All four edges cut diagonally across the line of stitching. Its incision is made 40% by cutting and the remainder by spreading the material.

### THE TRIANGLE POINT

This point is designed for sewing tents, awnings and other canvas products on lockstitch machines. Its incision is made 45% by cutting and the remainder by spreading the material.

## SEWING PROBLEMS AND THEIR SOLUTION

The introduction of fabrics made from rayon and rayon mixtures, fabrics made with a percentage of rubber thread or covered rubber thread, leathers made from a variety of reptile skins, and other innovations is a constant source of worry to the manufacturer of sewed articles, who is striving to produce quality work. The needle plays an all important part in solving these problems. An excellent remedy is to use a smaller size needle and a smaller size thread provided the sewing conditions and strength of seam requirements will permit.

## SEWING PROBLEMS ON CLOTH WORK

For sewing cloth work, the round point (sometimes called "cloth point") needles are almost universally used. They are made with two kinds of points viz: "sharp point" and "ball point". The sharp point is preferred for average operations.

### NEEDLE CUTS IN MATERIAL

When a given size sharp point needle cuts holes in knitted fabrics and it is not desirable to use a smaller size needle, the same size ball point needle will usually eliminate the cutting. The sharp point needle penetrates the yarn comprising the fabric and weakens or severs it. Thus a hole will show in the body fabric when stretched across the seam. The ball point needle deflects the yarn and thus finds its way automatically between the strands.

When sewing delicate woven fabrics with sharp point needles, the strands of yarn comprising the body fabric can be weakened or severed without showing a hole. This not only exposes fuzz on the surface of the fabric but makes an inferior seam particularly after the garment has been laundered a few times. The ball point needle will solve these problems.



## SEWING PROBLEMS ON CLOTH WORK

### SEWING SPUN RAYON FABRICS

When sewing spun rayon fabrics or any type of fabric with a large difference between the size of the warp and woof threads, the ball point needle is preferred. This applies particularly to the basting seams where the sewing thread has to be subsequently withdrawn and any defect caused by the needle punctures is exposed in the finished goods.

### SEWING FABRICS CONTAINING RUBBER THREAD

The ball point needle was originally designed for sewing fabrics made with a percentage of rubber thread or rubber covered thread. In actual practice the sharp point needle pierces the rubber thread part way and the elasticity of the thread prevents the full penetration of the needle point without creating a serious disarrangement of the body fabric and other sewing trouble. The ball point needle working under the same conditions automatically finds its way to one side of the rubber thread.

## SEWING PROBLEMS ON LEATHER WORK

For sewing leather the cutting point needles (sometimes called "leather points") are almost universally used. The several types of points are illustrated on preceding pages. Each point serves its own useful purpose in securing quality work, seam durability, or high production rates. The fitting room operations in the modern shoe factory, with its wide variety of leathers, require a careful study in needle points to make a proper selection. It is, of course, impracticable for the operators to use a different style of point for each grade of leather. However, it is possible to select the point best suited for their entire range of work.

In the suggestions which follow, it is assumed that the incisions made by the needle points with respect to the line of stitching is the same as indicated by the arrows in the illustrations. The incisions thus made are more favorable for making short stitches, as a given size needle has a smaller diameter in the direction of the stitches.

### ABNORMALLY SHORT STITCH OPERATIONS

The demand for shorter and still shorter stitches by the quality man in the modern shoe factory has in some cases produced a condition whereby there is not sufficient stock between the needle punctures in line with the stitches to support the thread. Thus it draws through the grain of the leather and makes a weak and unsightly seam. Where an ultra short stitch is paramount and the rows of stitches are at least 1/16 inch apart, the cross point is considered the best.

### CLOSE ROWS RUNNING TOGETHER

When the rows of stitches run together in making two or more close rows of stitches with needles set abreast, the reverse twist rocked point is an effective remedy. The angle of this point leaves the maximum of stock between the rows.



## SEWING PROBLEMS ON LEATHER WORK

### GRINNING STITCHES

When the needle thread shows abnormally on the outside of closing seams (commonly called "grinning stitches") the flat point is considered the best, provided the stitch length is 16 per inch or longer. The flat point cannot be recommended for short stitch work as its incision in line with the stitching is unfavorable.

### BREAKING SURFACE OF PATENT LEATHERS

When the needle incisions break the surface of patent or enamel leathers adjacent to the needle punctures, use the rocked point. A liberal application of oil to the finished surface immediately before or during the sewing process will greatly improve sewing conditions. The rocked point needles were originally designed for these leathers.

### NEEDLE HEATING

When the needle heats quickly and turns blue in sewing leathers that offer abnormal resistance to needle penetration, like the white buck varieties, substitute the twist point. It cuts its way through these tough leathers sufficiently to avoid the friction heat and opens up the leather to permit the free passage of the thread.

# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

See Group 8000 for additional round shank, round point needles

Type No.	Description and Sizes Available
101	Extra short, double groove, nickel plated- sizes 019, 022, 025, 027, 029, 032, 034, 036, 038, 040, 042, 044, 046, 049, 054
101A	Same as Type 101, except plain finish- size 040
101G	Same as Type 101, except chromium plated- sizes 027, 032, 036, 040
101J	Extra short, double groove, taper blade, diameter across eye is the size number, plain finish- sizes 019, 022, 027
102	Extra short, double groove, short blade, 1/8 inch less than standard, nickel plated- sizes 025, 027, 032, 036, 040, 044
103	Same as Type 101, except long blade- sizes 027, 032, 044
104	Same as Type 101, except spotted- sizes 036, 040, 042, 044, 049
104J	Extra short, double groove, spotted, short blade 1/8 inch less than standard, taper blade, diameter across eye is the size number, chromium plated- sizes 029, 032
104JC	Extra short, double groove, spotted, ball point, short blade 1/8 inch less than standard, taper blade, diameter across eye is the size number, chromium plated- size 032
104JH	Extra short, double groove, spotted, ball point, taper blade, diameter across eye is the size number, chromium plated- sizes 029, 032
105	Same as Type 101, except spotted and government point- size 036
106	Extra short, double groove, ball eye, nickel plated- sizes 025, 027, 029, 032, 034, 036, 038, 040, 042, 044, 049
106A	Same as Type 106, except short blade 1/16 inch less than standard- sizes 032, 036, 040
106G	Same as Type 106, except chromium plated- sizes 029, 032, 036, 038, 040, 044
106H	Same as Type 106, except ball point- size 040
106GH	Same as Type 106, except chromium plated, ball point- sizes 036, 040
106ZA	Same as Type 106, except under-size eye and grooves, one step reduction- size 040



# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

Type No.	Description and Sizes Available
107	Extra short, double groove, ball eye, short blade 1/8 inch less than standard, nickel plated- sizes 027, 029, 032, 036, 040, 044
107B	Same as Type 107, except over-size eye- sizes 032, 036, 040
107G	Same as Type 107, except chromium plated- sizes 032, 036, 040, 044
108	Extra short, double groove, ball eye, spotted, nickel plated- sizes 032, 036, 038, 040, 042, 044, 049, 054
108B	Same as Type 108, except high spot- sizes 040, 044
108C	Same as Type 108, except short blade 1/8 inch less than standard- sizes 036, 040, 044
108 G	Same as Type 108, except chromium plated- sizes 032, 036, 040, 044, 049, 054
108H	Same as Type 108, except ball point- sizes 036, 040
108GC	Same as Type 108, except short blade 1/8 inch less than standard, and chromium plated- sizes 036, 040, 044
108GH	Same as Type 108, except chromium plated, ball point- sizes 036, 040, 044
108HA	Same as Type 108, except ball point, short blade 1/8 inch less than standard, chromium plated- sizes 040, 044
109	Extra short, double groove, ball eye, government, nickel plated- sizes 027, 032, 036, 040, 044
109B	Extra short, double groove, government, nickel plated- sizes 027, 032, 036, 040, 044, 049
109G	Same as Type 109, except chromium plated- sizes 036, 040, 044
109GA	Same as Type 109 B, except chromium plated- size 054
109HA	Same as Type 109, except ball point, chromium plated- size 040
110	Extra short, double groove, ball eye, spotted, government, nickel plated- sizes 036, 040, 044, 049
110G	Same as Type 110, except chromium plated- sizes 036, 040, 044, 049
110ZL	Same as Type 110, except ball point, chromium plated- size 040
111	Extra short, double groove, spiral groove, nickel plated- sizes 032, 036, 040, 044, 049
112	Same as Type 111, except ball eye- sizes 032, 036, 040, 044, 049
113	Same as Type 111, except ball eye, spotted- sizes 036, 040, 044
115	Extra short, single groove, nickel plated- size 036
116	Extra short, single groove, ball eye, nickel plated- sizes 034, 036, 040
117	Same as Type 111, except spotted- sizes 032, 036, 044
121	Short, double groove, nickel plated- sizes 019, 022, 025, 027, 029, 032, 036, 038, 040, 042, 044, 049, 054, 060

# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

Type No.	Description and Sizes Available
121G	Same as Type 121, except chromium plated- sizes 027, 029, 032, 036, 040, 044, 049
121H	Same as Type 121, except ball point- sizes 029, 032, 036
121J	Short, double groove, taper blade, diameter across eye is the size number, plain finish- sizes 022, 025, 027, 032
121JH	Short, double groove, ball point, diameter across eye is the size number, plain finish- size 027
122	Same as Type 121, except short blade 1/8 inch less than standard- sizes 032, 049
124	Short, double groove, spotted, nickel plated- sizes 038, 040, 044, 049, 060, 067, 080, 090
124A	Same as Type 124, except short point- size 080
124B	Short, double groove, spotted, over-size eye and grooves, long point, nickel plated- sizes 036, 038, 040
124G	Same as Type 124, except chromium plated- size 067
124J	Short, double groove, spotted, taper blade, diameter across eye is the size number, chromium plated- size 044
124GB	Same as Type 124 B, except chromium plated- size 040
125	Same as Type 124, except long blade 1/8 inch more than standard- sizes 049, 054, 060
126	Short, double groove, ball eye, nickel plated- sizes 027, 032, 036, 040, 042, 044, 049, 054
126G	Same as Type 126, except chromium plated- sizes 040, 044, 049
128	Short, double groove, ball eye, spotted, nickel plated- sizes 032, 036, 040, 044, 049, 054, 060, 067, 080
128C	Same as Type 128, except short blade 1/8 inch less than standard, width of eye and grooves under size one step reduction- sizes 040, 044, 049
128E	Same as Type 128, except over-size eye- size 044
128F	Same as Type 128, except under-size eye and grooves 27% of size of needle- sizes 044, 049, 054
128G	Same as Type 128, except chromium plated, under-size eye and grooves 27% of size of needle- sizes 044, 049, 054,
128H	Same as Type 128, except short blade 1/8 inch less than standard, width of eye and grooves under-size one step reduction, ball point- sizes 036, 040, 044, 049
128GA	Same as Type 128, except chromium plated- sizes 032, 036, 040, 044, 049, 054
128GC	Same as Type 128, except short blade 1/8 inch less than standard, width of eye and grooves under-size one step reduction, chromium plated- sizes 040, 044, 049
128GH	Same as Type 128, except short blade 1/8 inch less than standard, width of eye and grooves under-size one step reduction, ball point, chromium plated- sizes 036, 040, 044, 049



# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

Type No.	Description and Sizes Available
128HA	Same as Type 128, except under-size eye and grooves 27% of needle size, ball point- sizes 044, 049, 054
128HB	Same as Type 128, except under-size eye and grooves 27% of needle size, ball point, chromium plated- sizes 044, 049, 054
129	Short, double groove, government, nickel plated, diameter of shank .080 inch- sizes 027, 029, 032, 036, 040, 044, 049
129C	Same as Type 129, except diameter of shank .060 inch- sizes 032, 036
129G	Same as Type 129, except chromium plated- sizes 029, 032, 036, 040
130	Short, double groove, ball eye, spotted, government, nickel plated- sizes 032, 036, 040, 044, 049, 054, 060, 067
130A	Same as Type 130, except uniform blade- size 040
130G	Same as Type 130, except chromium plated- sizes 040, 044, 049, 054, 060
130H	Same as Type 130, except short blade 1/8 inch less than standard, width of eye and grooves under-size one step reduction, ball point- sizes 036, 040, 044, 049
130GH	Same as Type 130, except short blade 1/8 inch less than standard, width of eye and grooves under-size one step reduction, ball point, chromium plated- sizes 036, 040, 044, 049
130HA	Same as Type 130, except ball point- sizes 044, 049, 054
130HB	Same as Type 130, except ball point, chromium plated- sizes 044, 049, 054
133	Short, double groove, ball eye, spotted, spiral groove, nickel plated- sizes 049, 054
133G	Same as Type 133, except chromium plated- size 054
135	Short, single groove, nickel plated- sizes 040, 044, 049, 054
136	Short, single groove, ball eye, nickel plated- size 044
136A	Short, single groove, ball eye, spotted, diameter of shank .072 inch, over-size eye and groove, nickel plated- sizes 060, 067
140	Long, double groove, nickel plated- sizes 027, 032, 036, 040, 044, 049, 054, 060
142	Long, single groove, R.B., nickel plated- sizes 027, 032, 036, 040, 044, 049, 054, 060
143	No. 2 bag, double groove, nickel plated- sizes 054, 060, 067, 073, 080, 090, 100, 120
143G	Same as Type 143, except chromium plated- sizes 067, 090
144	No. 2 bag, short point, nickel plated- sizes 067, 080, 090
147G	Long, double groove, ball eye, spotted, short point, under-size eye and grooves one step reduction, chromium plated- sizes 044, 049, 054
147ZG	Long, double groove, ball eye, spotted, long point, chromium plated- size 054



# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

Type No.	Description and Sizes Available
150	Class "R" double groove, spotted, nickel plated- sizes 022, 025, 027, 029, 032, 036, 040, 044, 049, 054, 060
150A	Class "R" double groove, spotted, long blade, long point, nickel plated- sizes 025, 027, 029, 032, 036, 040, 044, 049, 054
150G	Same as Type 150, except chromium plated- sizes 032, 040, 044, 049
150H	Same as Type 150 A, except ball point- sizes 029, 032, 036
150GA	Same as Type 150 A, except chromium plated- size 044
150ZM	Same as Type 150 A, except back groove is continuous, spot is omitted and length of point is increased 1/32 inch- sizes 025, 027
151	Class "R" double groove, spotted, ball eye, nickel plated- sizes 032, 036, 040
152	Class "R" double groove, flat blade, plain finish- sizes 019, 022
153	Class "R" single groove, spotted, nickel plated- sizes 029, 036
153A	Class "R" single groove, spotted, long blade, long point, nickel plated- sizes 019, 022, 025, 027, 029, 032, 036, 040, 044
155	Class "X" continuous double groove, plain finish- sizes 020, 022, 025, 027, 030, 033, 037, 040, 042, 047
155A	Class "X" double groove, spotted, plain finish- sizes 022, 025, 027, 030
155H	Same as Type 155, except ball point- size 027
155HA	Same as Type 155 A, except ball point- size 027
159	"T" length, double groove, spotted, nickel plated- sizes 049, 054, 060, 067
160	Interlock, double groove, nickel plated- sizes 022, 025, 027, 030, 032, 036, 040, 044, 049
163	Picoetta, single groove, flat blade, spotted, plain finish- sizes 025, 027, 029, 032, 034, 036, 040, 044, 049
Note: Type 163 replaces the American made Type 8021.	
The replacing size numbers are set up below:	
Type 163-025 replaces 8021-027	
" 163-027 " 8021-032	
" 163-029 " 8021-036	
" 163-032 " 8021-040	
" 163-034 " 8021-044	
173	Antaeus, double groove, spotted, plain finish- sizes 080, 100, 120
174	Antaeus, double groove, ball eye, short spot, nickel plated- sizes 067, 080, 090, 100, 120
180	Lockstitch, short length, ball eye, single groove, spotted, nickel plated- sizes 028, 032, 036, 040, 044, 048, 054, 060
180A	Lockstitch, short length, ball eye, single groove, spotted, short blade, nickel plated- sizes 032, 036, 038, 040, 044



# LIST OF NEEDLES

## Group 100 Round Shank, Round Point

Type No.	Description and Sizes Available
180F	Same as Type 180, except under-size eye and groove two step reduction- size 060
180G	Same as Type 180, except chromium plated- sizes 032, 036, 040, 044, 048, 054, 060
180H	Same as Type 180, except ball point, length of point increased $\frac{3}{64}$ inch, chromium plated- sizes 028, 032, 036, 040, 044, 048, 054
180GA	Same as Type 180, except chromium plated, length of point increased $\frac{3}{64}$ inch- sizes 032, 036, 040, 044, 048
181	Lockstitch, short length, single groove, spotted, nickel plated- sizes 026, 028, 030
181A	Lockstitch, short length, single groove, spotted, short blade $\frac{1}{8}$ inch less than standard, nickel plated- sizes 020, 022, 024, 026, 028, 030
182	Lockstitch, long length, ball eye, single groove, spotted, nickel plated- sizes 040, 044, 048, 054, 060

## Group 200, Slabbed Shank, Round Point

See Group 8100 for additional slabbed shank, round point needles

Type No.	Description and Sizes Available
201	.056 inch single slab, extra short, right, nickel plated- sizes 022, 025, 027, 029, 032
202	.056 inch single slab, extra short, left, nickel plated- sizes 022, 025, 027, 029, 032
203	.060 inch single slab, extra short, right, nickel plated- sizes 022, 025, 027, 029, 032, 034, 036
204	.060 inch single slab, extra short, left, nickel plated- sizes 022, 025, 027, 029, 032, 034, 036
205	.064 inch single slab, extra short, right, nickel plated- sizes 032, 036, 038
206	.064 inch single slab, extra short, left, nickel plated- sizes 032, 036, 038
207	.068 inch single slab, extra short, right, nickel plated- sizes 022, 025, 027, 032, 036, 042, 044
208	.068 inch single slab, extra short, left, nickel plated- sizes 022, 025, 027, 032, 036, 042, 044
211	.076 inch single slab, extra short, right, nickel plated- sizes 027, 032, 036, 040
212	.076 inch single slab, extra short, left, nickel plated- sizes 027, 032, 036, 040
215	.068 inch single slab, extra short, long blade $\frac{1}{8}$ inch more than standard, right, nickel plated- sizes 032, 036, 040
216	.068 inch single slab, extra short, long blade $\frac{1}{8}$ inch more than standard, left, nickel plated- sizes 032, 036, 040

# LIST OF NEEDLES

## Group 200, Slabbed Shank, Round Point

Type No.	Description and Sizes Available
217	.076 inch single slab, extra short, long blade 1/8 inch more than standard, right, nickel plated-size 036
218	.076 inch single slab, extra short, long blade 1/8 inch more than standard, left, nickel plated-size 036
240	.048 inch double slab, extra short, nickel plated-sizes 027, 029, 036, 038
241	.052 inch double slab, extra short, nickel plated-sizes 022, 027, 040
242	.056 inch double slab, extra short, nickel plated-size 036

## Group 300, Round Shank, Stay Point

See Group 8300 for addition round shank stay point needles

Type No.	Description and Sizes Available
301	Extra short, double groove, plain finish- sizes 027, 029, 032, 034, 036, 038, 040, 042, 044, 046, 049, 052, 054, 060
301G	Same as Type 301, except chromium plated- sizes 032, 034, 036, 038, 040, 042, 044, 049, 054
302	Same as Type 301, except nickel plated- sizes 032, 036, 040, 044, 049
303	Extra short, double groove, long blade 1/8 inch more than standard, plain finish- sizes 040, 042
321	Short, double groove, plain finish- sizes 032, 036, 038, 040, 042, 044, 049
322	Same as Type 321, except nickel plated- sizes 036, 040, 049
350	Class "R", double groove, spotted, plain finish-sizes 036, 040, 044
360	Interlock, double groove, plain finish- sizes 036, 044

## Group 400, Slabbed Shank, Stay Point

Type No.	Description and Sizes Available
401	.056 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034
401G	Same as Type 401, except chromium plated- sizes 032, 034
402	.056 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034
402G	Same as Type 402, except chromium plated- sizes 032, 034
403	.060 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038, 040



# LIST OF NEEDLES

## Group 400, Slabbed Shank, Stay Point

Type No.	Description and Sizes Available
403G	Same as Type 403, except chromium plated- sizes 032, 034, 036, 038
404	.060 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038, 040
404G	Same as Type 404, except chromium plated- sizes 032, 034, 036, 038
405	.064 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038, 040, 042, 044
405G	Same as Type 405, except chromium plated- sizes 034, 036, 038, 040, 042
406	.064 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038, 040, 042, 044
406G	Same as Type 406, except chromium plated- sizes 034, 036, 038, 040, 042
407	.068 inch single slab, extra short, plain finish, right- sizes 032, 034, 036, 038, 040, 042, 044, 046
408	.068 inch single slab, extra short, plain finish, left- sizes 032, 034, 036, 038, 040, 042, 044, 046
411	.076 inch single slab, extra short, plain finish, right- sizes 032, 038, 040, 042, 049
412	.076 inch single slab, extra short, plain finish, left- sizes 032, 038, 040, 042, 049
415	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- sizes 040, 042, 044
416	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- sizes 040, 042, 044
417	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- sizes 042, 049, 054
418	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- sizes 042, 049, 054
425	.064 inch single slab, short, plain finish, right- sizes 036, 038
426	.064 inch single slab, short, plain finish, left- sizes 036, 038
427	.068 inch single slab, short, plain finish, right- size 040
428	.068 inch single slab, short, plain finish, left- size 040
440	.048 inch double slab, extra short, plain finish- sizes 029, 032, 034, 036, 038, 040, 042, 044
440G	Same as Type 440, except chromium plated- sizes 032, 034, 036, 038

# LIST OF NEEDLES

## Group 500, Round Shank, Rocked Point

Type No.	Description and Sizes Available
501	Extra short, double groove, plain finish- sizes 029, 032, 034, 036, 038, 040, 042, 044, 046
501G	Same as Type 501, except chromium plated- sizes 036, 038, 040, 042
513	Extra short, double groove, ball eye, spotted, spiral groove, nickel plated, sizes- 036, 040
521	Short, double groove, plain finish- sizes 027, 029, 032, 036, 038, 040, 042

## Group 600, Slabbed Shank, Rocked Point

Type No.	Description and Sizes Available
601	.056 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 034, 036
602	.056 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034, 036
603	.060 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 034, 036, 038
604	.060 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034, 036, 038
605	.064 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 034, 036, 038, 040, 042
606	.064 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034, 036, 038, 040, 042
607	.068 inch single slab, extra short, plain finish, right-sizes 032, 034, 036, 038, 040, 042
608	.068 inch single slab, extra short, plain finish, left-sizes 032, 034, 036, 038, 040, 042
611	.076 inch single slab, extra short, plain finish, right-sizes 029, 032, 034
612	.076 inch single slab, extra short, plain finish, left-sizes 029, 032, 034

## Group 700, Round Shank, Flat Point

Type No.	Description and Sizes Available
701	Extra short, double groove, plain finish- sizes 027, 029, 032, 034, 036, 038, 040, 042, 044, 049, 054, 060
701G	Same as Type 701, except chromium plated- size 038
703	Extra short, double groove, long blade 1/8 inch more than standard, plain finish- size 044
712	Extra short, double groove, spotted, spiral groove, nickel plated- size 036
721	Short, double groove, plain finish- size 054



# LIST OF NEEDLES

## Group 800, Slabbed Shank, Flat Point

Type No.	Description and Sizes Available
801	.056 inch single slab, extra short, plain finish, right- sizes 027, 029, 032
802	.056 inch single slab, extra short, plain finish, left- sizes 027, 029, 032
803	.060 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038
803G	Same as Type 803, except chromium plated- size 034
804	.060 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038
804G	Same as Type 804, except chromium plated- size 034
805	.064 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038, 040, 042
806	.064 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038, 040, 042
807	.068 inch single slab, extra short, plain finish, right- sizes 029, 034, 036, 038, 040, 042
808	.068 inch single slab, extra short, plain finish, left- sizes 029, 034, 036, 038, 040, 042
815	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- size 044
816	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- size 044
817	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- size 054
818	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- size 054

## Group 900, Round Shank, Spear Point

Type No.	Description and Sizes Available
901	Extra short, double groove, plain finish- sizes 027, 032, 034, 036, 038, 040, 042, 044, 046, 049, 054
902	Same as Type 901, except nickel plated- sizes 036, 040, 042, 044
903	Same as Type 901, except short blade, nickel plated- sizes 040, 044
905	Same as Type 901, except spotted- size 040
907	Extra short, double groove, ball eye, nickel plated- sizes 027, 032, 034, 036, 040, 042, 044, 049
907G	Same as Type 907, except chromium plated- size 040
908	Same as Type 907, except spotted- sizes 042, 044, 049
916	Same as Type 907, except single groove- sizes 036, 040
917	Same as Type 907, except single groove, spotted- size 054
921	Short, double groove, plain finish- sizes 036, 040, 042, 044, 049
924	Short, double groove, spotted, plain finish- sizes 049, 054, 072, 080
925	Same as Type 924, except nickel plated- size 054
928	Short, double groove, ball eye, spotted, plain finish- sizes 049, 060

# LIST OF NEEDLES

## Group 900, Round Shank, Spear Point

Type No.	Description and Sizes Available
929	Same as Type 928, except nickel plated- sizes 044, 049, 054, 060, 067, 080
929G 936	Same as Type 928, except chromium plated- size 054 Short, single groove, ball eye, nickel plated- sizes 040, 049
943	No. 2 bag, plain finish- sizes 067, 073, 080
943G	Same as Type 943, except chromium plated- sizes 067, 073, 080
943ZA	Same as Type 943, except under-size eye and grooves, five step reduction- size 067
943ZB	Same as Type 943, except step-up in front groove- size 067
950	Class "R", double groove, spotted, plain finish- sizes 044, 049
974	Antaeus, double groove, ball eye, spotted, plain finish- size 090

## Group 1000, Slabbed Shank, Spear Point

Type No.	Description and Sizes Available
1003	.060 inch single slab, extra short, plain finish, right- sizes 029, 032, 034, 036, 038
1004	.060 inch single slab, extra short, plain finish, left- sizes 029, 032, 034, 036, 038
1005	.064 inch single slab, extra short, plain finish, right- sizes 032, 036, 038, 040
1006	.064 inch single slab, extra short, plain finish, left- sizes 032, 036, 038, 040
1007	.068 inch single slab, extra short, plain finish, right- sizes 036, 038, 040, 042, 044
1008	.068 inch single slab, extra short, plain finish, left- sizes 036, 038, 040, 042, 044

## Group 1100, Round Shank, Cross Point

Type No.	Description and Sizes Available
1101	Extra short, double groove, plain finish- sizes 029, 032, 034, 036, 038, 040, 042, 044, 049, 054, 060
1102	Same as Type 1101, except nickel plated- size 044
1121	Short, double groove, plain finish- sizes 029, 032, 034, 036, 038, 040, 042, 044, 046, 049, 054, 060, 067

## Group 1200, Slabbed Shank, Cross Point

Type No.	Description and Sizes Available
1201	.056 inch single slab, extra short, plain finish, right- sizes 027, 029, 032



# LIST OF NEEDLES

## Group 1200, Slabbed Shank, Cross Point

Type No.	Description and Sizes Available
1202	.056 inch single slab, extra short, plain finish, left-sizes 027, 029, 032
1203	.060 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 036, 038
1204	.060 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 036, 038
1205	.064 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 036, 038, 040, 042
1206	.064 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 036, 038, 040, 042
1207	.068 inch single slab, extra short, plain finish, right-sizes 036, 038, 040, 042, 044
1208	.068 inch single slab, extra short, plain finish, left-sizes 036, 038, 040, 042, 044
1240	.048 inch double slab, extra short, plain finish-sizes 032, 034

## Group 1300, Round Shank, Narrow Cross Taper Point

Type No.	Description and Sizes Available
1301	Extra short, double groove, plain finish-sizes 027, 029, 032, 034, 036, 038, 040, 042, 044
1301G	Same as Type 1301, except chromium plated-size 040
1321	Short, double groove, plain finish-sizes 036, 040

## Group 1400, Slabbed Shank, Narrow Cross Taper Point

Type No.	Description and Sizes Available
1401	.056 inch single slab, extra short, plain finish, right-sizes 027, 029, 032
1402	.056 inch single slab, extra short, plain finish, left-sizes 027, 029, 032
1403	.060 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 034, 036, 038
1404	.060 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034, 036, 038
1405	.064 inch single slab, extra short, plain finish, right-sizes 027, 029, 032, 034, 036, 038, 040, 042
1405G	Same as Type 1405, except chromium plated-size 034
1406	.064 inch single slab, extra short, plain finish, left-sizes 027, 029, 032, 034, 036, 038, 040, 042
1406G	Same as Type 1406, except chromium plated-size 034
1407	.068 inch single slab, extra short, plain finish, right-sizes 034, 036, 040, 042
1408	.068 inch single slab, extra short, plain finish, left-sizes 034, 036, 040, 042
1411	.076 inch single slab, extra short, plain finish, right-size 029

# LIST OF NEEDLES

## Group 1400, Slabbed Shank, Narrow Cross Taper Point

Type No.	Description and Sizes Available
1412	.076 inch single slab, extra short, plain finish, left-size 029
1440	.048 inch double slab, extra short, plain finish- sizes 027, 029, 032, 034, 036

## Group 1500, Round Shank, Twist Point

Type No.	Description and Sizes Available
1501	Extra short, double groove, plain finish- sizes 027, 029, 032, 034, 036, 038, 040, 042, 044, 049, 052, 054, 060
1502	Same as Type 1501, except nickel plated- sizes 036, 040
1503	Same as Type 1501, except long blade 1/8 inch more than standard- size 044
1521	Short, double groove, plain finish- sizes 032, 038, 044, 046, 049, 054, 060
1522	Same as Type 1521, except nickel plated- size 040
1543	No. 2 bag, plain finish- sizes 067, 080

## Group 1600, Slabbed Shank, Twist Point

Type No.	Description and Sizes Available
1601	.056 inch single slab, extra short, plain finish, right- sizes 027, 029, 032
1602	.056 inch single slab, extra short, plain finish, left- sizes 027, 029, 032
1603	.060 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038
1604	.060 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038
1605	.064 inch single slab, extra short, plain finish, right- sizes 032, 034, 036, 038, 040, 042, 044
1606	.064 inch single slab, extra short, plain finish, left- sizes 032, 034, 036, 038, 040, 042, 044
1607	.068 inch single slab, extra short, plain finish, right- sizes 032, 036, 040, 042, 044
1608	.068 inch single slab, extra short, plain finish, left- sizes 032, 036, 040, 042, 044
1611	.076 inch single slab, extra short, plain finish, right- size 032
1612	.076 inch single slab, extra short, plain finish, left- size 032
1613	Same as Type 1605, except nickel plated- size 040
1614	Same as Type 1606, except nickel plated- size 040
1615	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- sizes 036, 040, 042, 049



# LIST OF NEEDLES

## Group 1600, Slabbed Shank, Twist Point

Type No.	Description and Sizes Available
1616	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- sizes 036, 040, 042, 049
1640	.048 inch double slab, extra short, plain finish- size 034

## Group 1700, Round Shank, Twist Centered Point

Type No.	Description and Sizes Available
1701	Extra short, double groove, plain finish- sizes 029, 032, 034, 036, 038, 040, 042, 044, 046, 049, 054, 060
1701G	Same as Type 1701, except chromium plated- size 038
1702	Same as Type 1701, except nickel plated- size 046
1703	Extra short, double groove, long blade 1/8 inch more than standard, plain finish- sizes 040, 042
1721	Short, double groove, plain finish- sizes 040, 042, 046, 049, 052, 054

## Group 1800, Slabbed Shank, Twist Centered Point

Type No.	Description and Sizes Available
1801	.056 inch single slab, extra short, plain finish, right- sizes 027, 032
1802	.056 inch single slab, extra short, plain finish, left- sizes 027, 032
1803	.060 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038
1804	.060 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038
1805	.064 inch single slab, extra short, plain finish, right- sizes 027, 029, 032, 034, 036, 038, 040
1806	.064 inch single slab, extra short, plain finish, left- sizes 027, 029, 032, 034, 036, 038, 040
1807	.068 inch single slab, extra short, plain finish, right- sizes 029, 032, 034, 036, 038, 040, 042, 044, 049
1808	.068 inch single slab, extra short, plain finish, left- sizes 029, 032, 034, 036, 038, 040, 042, 044, 049
1811	.076 inch single slab, extra short, plain finish, right- sizes 032, 036, 040
1812	.076 inch single slab, extra short, plain finish, left- sizes 032, 036, 040
1815	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- sizes 040, 042
1816	.068 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- sizes 040, 042

# LIST OF NEEDLES

## Group 1800, Slabbed Shank, Twist Centered Point

Type No.	Description and Sizes Available
1817	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, right- sizes 040, 042, 044
1818	.076 inch single slab, extra short, long blade 1/8 inch more than standard, plain finish, left- sizes 040, 042, 044
1840	.048 inch double slab, extra short, plain finish- sizes 032, 034
1842	.056 inch double slab, extra short, plain finish- size 049

## Group 1900, Round Shank, Square Point

See Group 9800 for additional round shank, square point needles

Type No.	Description and Sizes Available
1943	No. 2 bag, plain finish- sizes 080, 090, 100, 120
1944	Same as Type 1943, except for American Supplies Company- sizes 100, 120
1959	"T" length, double groove, spotted, plain finish- sizes 079, 090, 100, 120, 140
1965	Class "Y", double groove, spotted, plain finish- sizes 100, 120, 140
1970	Herakles, double groove, spotted, plain finish- sizes 080, 090, 100, 120, 140, 156, 172, 188
1973	Antaeus, double groove, spotted, plain finish- sizes 067, 080, 100, 120, 140, 156, 172, 188
1975	Long Antaeus, double groove, spotted, plain finish- sizes 080, 090, 100, 120, 140, 156

## Group 2100, Round Shank, Reverse Twist, Rocked Point

Type No.	Description and Sizes Available
2101	Extra short, double groove, plain finish- sizes 032, 034, 036, 038

## Group 2200, Slabbed Shank, Reverse Twist, Rocked Point

Type No.	Description and Sizes Available
2201	.056 inch single slab, extra short, plain finish, right- sizes 029, 032, 036
2201G	Same as Type 2201, except chromium plated- size 032
2202	.056 inch single slab, extra short, plain finish, left- sizes 029, 032, 036
2202G	Same as Type 2202, except chromium plated- size 032
2203	.060 inch single slab, extra short, plain finish, right- sizes 029, 032, 034



# LIST OF NEEDLES

## Group 2200, Slabbed Shank, Reverse Twist, Rocked Point

Type No.	Description and Sizes Available
2203G	Same as Type 2203, except chromium plated- sizes 032, 034
2204	.060 inch single slab, extra short, plain finish, left- sizes 029, 032, 034
2204G	Same as Type 2204, except chromium plated- sizes 032, 034
2205	.064 inch single slab, extra short, plain finish, right- sizes 029, 032, 034, 036
2205G	Same as Type 2205, except chromium plated- sizes 034, 036
2206	.064 inch single slab, extra short, plain finish, left- sizes 029, 032, 034, 036
2206G	Same as Type 2206, except chromium plated- sizes 034, 036
2240	.048 inch double slab, extra short, plain finish- sizes 032, 034, 036
2240G	.048 inch double slab, extra short, chromium plated- sizes 032, 034

## Group 2300, Round Shank, Triangle Point

Type No.	Description and Sizes Available
2381	Lockstitch, short length, single groove, spotted, long point, nickel plated- size 060

## Group 8000, Round Shank, Round Point

See Group 100 for additional round shank, round point needles

Type No.	Description and Sizes Available
8022	Short, double groove, flat blade, nickel plated- sizes 025, 027, 032
8023	Short, double groove, 1.5 mm shank diameter, nickel plated- sizes 027, 032, 036
8024	Crochetta, double groove, flat blade, spotted, nickel plated- sizes 027, 032
8060	Interlock, double groove, flat blade, spotted, nickel plated- sizes 018, 020, 022, 025, 027, 032

## Group 8100, Slabbed Shank, Round Point

See Group 200 for additional slabbed shank, round point needles

Type No.	Description and Sizes Available
8157	.068 inch single slab, Class "R", double groove, spotted, nickel plated, right- sizes 025, 027, 032, 036, 040, 044

# LIST OF NEEDLES

## Group 8100, Slabbed Shank, Round Point

Type  
No.

Description and Sizes Available

- 8158 .068 inch single slab, Class "R", double groove,  
spotted, nickel plated, left- sizes 025, 027, 032,  
036, 040, 044

## Group 8300, Round Shank Stay Point

See Group 300 for additional round shank, stay point needles

Type  
No.

Description and Sizes Available

- 8301 Extra short, double groove, short point, plain finish-  
sizes 034, 036

## Group 9800, Round Shank, Square Point

See Group 1900 for additional round shank, square point needles

Type  
No.

Description and Sizes Available

- 9844 Herakles, double groove, flat blade, 11 mm length of  
point, plain finish- sizes 067, 090, 100, 120  
9845 Antaeus, double groove, spotted, flat blade, 11 mm  
length of point, plain finish- sizes 060, 067, 080,  
090, 100, 120  
9846 Antaeus, chinking, double groove, flat blade, plain  
finish- sizes 080, 090, 100



# APPLICATION OF TYPE NUMBERS TO MACHINES

The standard styles of machines furnished as of March 1, 1940 and some obsolete styles are listed herewith. Set opposite each style number is the type number or numbers of the needles generally used. Type numbers are arranged numerically, as the variety of materials sewed on each machine makes it impractical to show a preference.

Machine Styles	Type of Needles
1200C	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB, 129, 129G
1200AM	101, 101G, 101J, 104, 104JH
1200AP	Same as Style 1200C
1700A	121, 121G
1700F	101, 101G, 101J, 102, 104, 104JH
1700G	101, 101G, 101J, 102, 104, 104JH
1700H	101, 101G, 101J, 102, 104, 104JH
1800A	143, 143G
1800G	143, 143G
1800AA	143, 143G
1800AJ	140
1800AK	140
1900A	143, 143G
1900K	140
1900M	143, 143G
1900P	143, 143G
1900AA	143, 143G
2600A	101, 101G, 501, 501G, 701, 701G, 1501, 1701, 1701G, 2101
2600D	501, 501G, 701, 701G, 1501, 1701, 1701G, 2101
2600H	501, 501G, 701, 701G, 1501, 1701, 1701G, 2101
2600M	501, 501G, 701, 701G, 1501, 1701, 1701G, 2101
2600Q	Same as Style 2600 A
3000A	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
3000R	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
4400A	121, 121G
5000L	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
5100G	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
5100H	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
5100L	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
5400A	121, 121G, 124, 124G
5400B	143, 143G
5500A	121, 121G, 124, 124G
5500B	143, 143G
5700A	101, 101G, 101J, 102, 104, 104JH
6000A	Same as Style 1200C
6200B	101, 101G, 104, 106, 106A, 106G, 108, 108G, 301, 301G, 302, 501, 501G, 1501, 1701, 1701G
6400C	106, 106G, 108, 108G, 109, 109G, 110, 110G
6400W	106, 106G, 108, 108G, 109, 109G, 110, 110G

# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
6500B	121, 121G, 121H, 121J, 121JH, 124, 124G, 124J, 126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130H, 130HA, 130HB, 929
6500N	126, 126G, 128, 128GA, 129, 129G, 130, 130G
6600B	140, 143, 143G, 943, 943G, 1543
6600D	140, 143, 143G, 943, 943G, 1543
6600F	140, 143, 143G, 943, 943G, 1543
6600H	140, 143, 143G, 943, 943G, 1543
6600K	140, 143, 143G, 943, 943G, 1543
6600L	140, 143, 143G, 943, 943G, 1543
6900A	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
6900G	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
6900H	121, 121G, 121H, 124, 124G, 126, 126G, 128, 128H, 128GA
6900SP	101, 101G, 101J, 104, 104JH
7200A	501, 501G, 1101, 1301, 1301G, 2101
7200C	501, 501G, 1101, 1301, 1301G, 2101
7200T	501, 501G, 1101, 1301, 1301G, 2101
7400AG	101, 101G, 101J, 104, 104JH
7400SP	101, 101G, 101J, 104, 104JH
7800A	140, 143, 143G, 943, 943G, 1543
7800B	140, 143, 143G, 943, 943G, 1543
7800C	140, 143, 143G, 943, 943G, 1543
7800F	128, 128GA, 929, 929G
8200A	501, 501G, 1101, 1301, 1301G
8200T	301, 301G, 501, 501G, 1101, 1301, 1301G, 2101
8200V	501, 501G, 1101, 1301, 1301G
8300K	101, 101G, 101J, 104, 104JH, 106, 106G, 106H, 108, 108G, 108H
8400A	301, 301G, 501, 501G, 1101, 1301, 1301G, 1501, 1701, 1701G, 2101
8400B	Same as Style 8400A
8500A	401, 401G, 402, 402G, 403, 403G, 404, 404G, 405, 405G, 406, 406G, 407, 408, 415, 416, 601, 602, 603, 604, 605, 606, 607, 608, 801, 802, 803, 803G, 804, 804G, 805, 806, 807, 808, 815, 816, 1003, 1004, 1005, 1006, 1007, 1008, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1401, 1402, 1403, 1404, 1405, 1405G, 1406, 1406G, 1407, 1408, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1615, 1616, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1815, 1816, 2201, 2201G, 2202, 2202G, 2203, 2203G, 2204, 2204G, 2205, 2205G, 2206, 2206G
8500K	Same as Style 8500A
8600C	101, 101G, 104, 106, 106G, 108, 108G
8600D	101, 101G, 104, 106, 106G, 108, 108G
8600V	207, 208, 211, 212, 215, 216, 217, 218
8600Y	101, 101G, 104, 106, 106G, 108, 108G



# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
8800A	401, 401G, 402, 402G, 403, 403G, 404, 404G, 440, 440G, 1203, 1204, 1240, 1403, 1404, 1440, 1603, 1604, 1640, 1801, 1802, 1803, 1804, 1840, 2201, 2201G, 2202, 2202G, 2203, 2203G, 2204, 2204G, 2240, 2240G
8900A	Same as Style 8500A
8900B	Same as Style 8500A
8900C	401, 401G, 402, 402G, 403, 403G, 404, 404G, 405, 405G, 406, 406G, 407, 408, 440, 440G, 1203, 1204, 1205, 1206, 1207, 1208, 1240, 1401, 1402, 1403, 1404, 1405, 1405G, 1406, 1406G, 1407, 1408, 1440, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1640, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1840, 2201, 2201G, 2202, 2202G, 2203, 2203G, 2204, 2204G, 2205, 2205G, 2206, 2206G, 2240, 2240G
8900J	Same as Style 8500A
8900L	Same as Style 8900C
9100C	Same as Style 8500A
9100Y	Same as Style 8500A
9500D	121, 121G, 121H, 124, 124G, 126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130H, 130HA, 130HB
9500G	501, 501G, 701, 701G, 1501, 1701, 1701G, 2101
9600B	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 109HA, 110, 110G, 110ZL
9700B	Same as Style 9600B
9800B	Same as Style 9600B
9900A	101, 101G, 101J, 103, 104, 104JH, 106, 106G, 106H, 106GH, 108, 108G, 108H, 108GH
9900E	101, 701, 701G
9900Q	101, 101G, 103, 104
9900S	130, 130G
9900Y	101, 101G, 103, 104
9900AG	106, 106G, 106H, 106GH, 108G, 108H, 108GH
9900AH	101, 101G, 103, 104
9900AK	701, 701G
9900AP	101, 101G, 101J, 103, 104, 104JH
9900AQ	101, 101G, 101J, 103, 104, 104JH
9900AR	Same as Style 9900A
9900AS	109, 109G, 109HA
10600L	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G
10700A	301, 301G, 501, 501G, 701, 701G, 1101, 1301, 1301G, 1501, 1701, 1701G, 2101
10800A	Same as Style 8500A

## APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
11100C	301, 301G, 303, 401, 401G, 402, 402G, 403, 403G, 404, 404G, 405, 405G, 406, 406G, 407, 408, 415, 416, 501, 501G, 601, 602, 603, 604, 605, 606, 607, 608, 701, 701G, 703, 801, 802, 803, 803G, 804, 804G, 805, 806, 807, 808, 815, 816, 901, 1003, 1004, 1005, 1006, 1007, 1008, 1101, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1301, 1301G, 1401, 1402, 1403, 1404, 1405, 1405G, 1406, 1406G, 1407, 1408, 1501, 1503, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1615, 1616, 1701, 1701G, 1703, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1815, 1816, 2101, 2201, 2201G, 2202, 2202G, 2203, 2203G, 2204, 2204G, 2205, 2206
11100F	Same as Style 11100C
11200C	" " " 8500A
11200D	" " " 8500A
11300A	121, 121G, 124, 124G, 921
11500A	121, 121G, 124, 124G, 921
11500G	126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130HA, 130HB, 929
11500H	121, 121G, 124, 124G, 921
11500J	121, 121G, 124, 124G, 921
11500K	101, 101G, 101J, 104, 104JH, 106, 106G, 106H, 108, 108G, 108H
11700C	Same as Style 11500G
11700G	" " " 11500G
11700L	" " " 11500G
11700M	" " " 11500H
11800B	121, 121G, 121H, 121J, 121JH, 124, 124G
11800C	143, 143G, 943, 943G, 1943, 1944
11800H	143, 143G, 943, 943G, 1943, 1944
11900B	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB, 125, 128E
11900C	Same as Style 11900B
11900E	" " " 11900B
11900K	" " " 11900B
11900L	" " " 11900B
12000D	501, 501G, 1101, 1301, 1301G, 2101
12000F	501, 501G, 1101, 1301, 1301G, 2101
12200A	Same as Style 8500A
12800H	1943, 1944
13100B	121, 121G, 121H, 121J, 121JH, 124
13100C	121, 121G, 121H, 121J, 121JH, 124
13100E	121, 121G, 121H, 121J, 121JH, 124
13100F	121, 121G, 121H, 121J, 121JH, 124
13200A	Same as Style 9600B
13200B	" " " 9600B
13400A	" " " 9600B



# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
14100A	121, 121G, 121H, 121J, 121JH, 124, 124G, 124J, 126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB
14100B	126, 126G, 128, 128F, 128G, 128GA, 129, 129G, 130, 130G
14100C	143, 143G, 943, 943G, 1543
14500D	124, 124G
14500F	124, 124G
14500H	143, 143G, 144
14500P	143, 143G, 144
14700D	701, 701G
14700E	701, 701G
15200F	121, 121G, 121H, 121J, 121JH, 124, 124G, 129, 129G
15400AA	150, 150G
15400AM	150, 150G
15600A	150, 150G
15700A	121, 121G, 121H, 121J, 121 JH, 124, 124B, 124G, 124GB, 129, 129G
15700B	Same as Style 15700A
15700C	" " " 15700A
15700D	" " " 15700A
15700E	" " " 15700A
15800A	" " " 9600B
15800B	" " " 9600B
15800D	121, 121G, 124, 124B, 124G, 124GB
15800E	121, 121G, 124, 124G
15800G	121, 121G, 124, 124G
15800H	121, 121G, 124, 124G
15800J	106, 106G, 106H, 108, 108G, 108H, 108GH, 108HA,
15900G	121, 121G, 121H, 121J, 121JH, 124, 124G, 129, 129G
16100A	121, 121G, 121H, 121J, 121JH, 124, 124G
16100C	Same as Style 11500K
16600D	143, 143G, 1543
16600G	143, 143G, 1543
16800B	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 109HA, 110, 110G, 110ZL, 112, 113, 301G, 302, 513, 907
16800C	Same as Style 16800B
16800G	126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130HA, 130HB, 133, 133G, 929
16800M	Same as Style 16800B
16800P	" " " 16800G
17400C	321, 521, 721, 921, 1121, 1321, 1521, 1721
17400D	425, 426, 427, 428
19100A	Same as Style 11500G
19100B	" " " 11500G
19200B	" " " 11500G
19300A	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G

# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
19300B	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G
19300C	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G
19300E	121, 121G, 121H, 121J, 121JH, 124
35500C	129, 129G
35500D	129, 129G
35700C	Same as Style 9600B
35700D	" " " 9600B
35700E	" " " 9600B
35700F	" " " 9600B
35700G	104J, 104JC, 107, 107G, 108C, 108GC, 108HA
35700H	104J, 104JC, 107, 107G, 108C, 108GC, 108HA
35700J	104J, 104JC, 107, 107G, 108C, 108GC, 108HA
35700K	104J, 104JC, 107, 107G, 108C, 108GC, 108HA
35700P	Same as Style 9600B
35700Q	" " " 9600B
35700R	" " " 9600B
35700S	104J, 104JC, 107, 107G, 108C, 108GC, 108HA
35800A	Same as Style 11500G
35800B	147G
35800C	128C, 128H, 128GC, 128GH
35800D	128C, 128H, 128GC, 128GH
35800P	Same as Style 11500G
35800R	" " " 11500G
35800S	" " " 11500G
35800T	" " " 11500G
35800V	128C, 128H, 128GC, 128GH
35800W	128C, 128H, 128GC, 128GH
35800X	128C, 128H, 128GC, 128GH
38200A	143, 143G, 943, 943G, 1543
38200B	143, 143G, 943, 943G, 1543
38200C	174
38200D	174
39100C	153A
39100S	153A
39100V	153A
39200B	150A, 150H, 150GA
39200C	150A, 150H, 150GA
39200E	150A, 150H, 150GA
39200F	150A, 150GA
39200G	150A, 150H, 150GA
39200J	150A, 150H, 150GA
39200L	150A, 150GA
39200Q	150A, 150H, 150GA
39200R	150A, 150H, 150GA
39200AA	150A, 150H, 150GA
39200AC	150A, 150H, 150GA
39200AD	150A, 150H, 150GA
39200AE	150A, 150H, 150GA
39200AH	150A, 150H, 150GA
39200AJ	150A, 150H, 150GA
39200AN	150A, 150H, 150GA



# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Types of Needles
39200AR	150A, 150H, 150GA
39200AS	150A, 150H, 150GA
39200AT	150A, 150H, 150GA
39200AU	150A, 150H, 150GA
39200AV	150A, 150H, 150GA
39200AW	150A, 150H, 150GA
39300A	153A
39300B	153A
41200A	155, 155H
41200B	150, 150G
41200C	155, 155H
41200D	908
41200AA	155, 155H
41300A	155A, 155HA
41300B	155A, 155HA
41300C	155A, 155HA
41300D	155A, 155HA
41300E	155A, 155HA
41300F	155A, 155HA
41300G	155A, 155HA
41300H	155A, 155HA
41300J	155A, 155HA
43200A	104JH, 106, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 109HA, 110, 110G, 110ZL
43200B	106, 106G, 108, 108G, 109, 109G, 110, 110G, 110ZL
43200C	106, 106G, 108, 108G, 109, 109G, 110, 110G, 110ZL
43200D	101, 101G, 101J, 102, 104, 104JH, 109B
43200E	106, 106G, 108, 108G, 109, 109G, 110, 110G, 110ZL
43200F	101, 104JH, 106, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 109HA, 110, 110G, 110ZL
43200G	Same as Style 11500G
43200H	" " " 43200A
43400B	109B
43800A	106, 106G, 108, 108G, 109, 109G, 110, 110G, 110ZL
43800B	106, 106G, 108, 108G, 109, 109G, 110, 110G, 110ZL
51100D	143, 143G, 943, 943G, 1543, 1943, 1944
51100E	143, 143G, 943, 943G, 1543, 1943, 1944
51100F	124, 124G
51100G	143, 143G, 943, 943G, 1543, 1943, 1944
51100H	143, 143G, 943, 943G, 1543, 1943, 1944
51100J	130, 130G
51100L	124, 124G
51100M	143, 143G, 943, 943G, 1543, 1943, 1944
51200A	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 110, 110G, 110ZL, 302, 907
51200B	126, 126G, 128, 128F, 128G, 128GA, 130, 130G, 929
51200C	126, 126G, 128, 128F, 128G, 128GA, 130, 130G, 929
51200D	101, 101G, 101J, 102, 104, 104JH
51200G	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109B, 109G, 109HA, 110, 110G, 110ZL, 302, 907
51200H	101, 101G, 101J, 104, 104JH, 106, 106G, 109B

# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Types of Needles
51200J	Same as Style 51200G
51200K	" " " 51200A
51200L	126, 126G, 128, 128F, 128G, 128GA, 130, 130G, 929
51200M	126, 126G, 128, 128F, 128G, 128GA, 130, 130G, 929
51200N	101, 101G, 101J, 102, 104, 104JH
51200R	Same as Style 51200G
51200S	101, 101G, 101J, 104, 104JH, 106, 106G, 109B
51200T	Same as Style 51200G
51300A	121, 121G, 121H, 121J, 121JH, 124, 124G, 124J, 126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130H, 130HA, 130HB, 929 140, 143, 143G, 144, 147G, 943, 943G, 1543
51300B	140, 143, 143G, 144, 147G, 943, 943G, 1543
51300C	Same as Style 51300A
51300D	140, 143, 143G, 144, 147G, 943, 943G, 1543
51300F	140, 143, 143G, 144, 147G, 943, 943G, 1543
51300G	Same as Style 51300A
51300H	140, 143, 143G, 144, 147G, 943, 943G, 1543
51300J	Same as Style 51300A
51300K	140, 143, 143G, 144, 147G, 943, 943G, 1543
51300L	140, 143, 143G, 144, 147G, 943, 943G, 1543
51400A	Same as Style 51200G
51400B	" " " 51200G
51400C	" " " 51200G
51400D	" " " 51200G
51400E	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109B, 109G, 109HA, 110, 110G
51400F	Same as Style 51200G
51400G	101, 101G, 101J, 104, 104JH, 109B
51400J	Same as Style 51200G
51400K	" " " 51200G
51400M	" " " 51200G
51400N	" " " 51200G
51400P	" " " 51200G
51400Q	" " " 51200G
51400R	" " " 51200G
51400S	" " " 51200G
51400T	" " " 51400E
51400U	" " " 51200G
51400V	101, 101G, 101J, 104, 104JH, 106, 106G, 109B
51400W	Same as Style 51200G
51400X	" " " 51200G
51400Y	" " " 51200G
51400AA	" " " 51200G
51400AB	" " " 51200G
51500A	126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 129, 129G, 130, 130G, 130HA, 130HB, 929 129, 129G, 130, 130G
51500C	140, 143, 143G, 144, 147G, 943, 943G, 1543
51500D	Same as Style 51500A
51500G	129, 129G, 130, 130G
51500H	Same as Style 51500A
51500J	" " " 51500A



# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
51500K	129, 129G, 130, 130G
51500L	140, 143, 143G, 144, 147G, 943, 943G, 1543
51500M	Same as Style 51500A
51500N	129, 129G, 130, 130G
51500P	Same as Style 51500A
51600A	" " " 51200G
51700C	" " " 51200G
51700D	" " " 51200G
51700E	121, 121G, 121H, 121J, 121JH, 124, 124G, 129, 129G
51700F	Same as Style 51500A
51700G	" " " 51200G
51700H	" " " 51200G
51700J	" " " 51200G
51700K	" " " 51200G
51700L	121, 121G, 121H, 121J, 121JH, 124, 124G, 129, 129G
51700M	Same as Style 51500A
51700N	" " " 51200G
51700P	" " " 51200G
51800A	" " " 51500A
51800B	" " " 51500A
51900A	" " " 51200G
51900B	" " " 51500A
51900C	" " " 51500A
51900D	140, 143, 143G, 144, 147G, 943, 943G, 1543
51900F	106G, 108G, 109G, 110G
51900G	Same as Style 51200G
51900H	" " " 51500A
51900J	" " " 51500A
51900K	140, 143, 143G, 144, 147G, 943, 943G, 1543
51900L	106G, 108G, 109G, 110G
52100A	101, 101G, 101J, 104, 104JH
52100B	101, 101G, 104, 106, 106G, 108, 108G
52100C	101, 101G, 104, 106, 106G, 108, 108G
52700A	121, 121G, 121H, 124, 124G, 126, 126G, 128, 128F, 128G, 128H, 128GA, 128HA, 128HB, 929
52700B	Same as Style 52700A
52700C	121, 121G, 121H, 121J, 121JH, 124, 124B, 124G, 124GB
52700F	121, 121G, 121H, 121J, 121JH
52700G	121, 121G, 121H, 121J, 121JH
52700H	121, 121G, 121H, 121J, 121JH
52700J	126, 126G, 128, 128F, 128G, 128GA
52700K	Same as Style 52700A
52700L	" " " 52700A
52700M	121, 121G, 121H, 121J, 121JH
52700N	121, 121G, 121H, 121J, 121JH
52800B	121, 121G, 121H, 121J, 121JH
52800D	121, 121G, 121H, 121J, 121JH
52800E	121, 121G, 121H, 121J, 121JH
52800F	121, 121G, 121H, 121J, 121JH
52800G	121, 121G, 121H, 121J, 121JH
52800H	121, 121G, 121H, 121J, 121JH

## APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
52800K	121, 121G, 121H, 121J, 121JH
52900A	126, 126G, 128, 128F, 128G, 128GA, 929
52900B	121, 121G, 126, 126G, 128, 128F, 128G, 128GA, 929
52900C	126, 126G, 128, 128F, 128G, 128GA, 929
53500A	104JH, 106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 109, 109G, 109HA, 110, 110G, 110ZL
53500B	Same as Style 53500A
53500C	101, 101G, 106, 106A, 106G
53500D	101, 101G, 106, 106A, 106G
54100B	106, 106A, 106G, 106H, 108, 108G, 108H, 108GH, 302, 907
54100C	Same as Style 54100B
54100D	" " " 54100B
54100E	" " " 54100B
54100F	" " " 54100B
54100G	" " " 54100B
54100H	" " " 54100B
54100J	" " " 54100B
60000A	136A
61200C	180, 180A, 180G, 180H, 180GA, 181, 181A
61200F	180, 180A, 180G, 180H, 180GA, 181, 181A
61300C	180, 180A, 180F, 180G, 180H, 180GA, 181, 181A
61300F	180, 180A, 180F, 180G, 180H, 180GA, 181, 181A
75000H	121, 121G, 121H, 121J, 121JH
75200A	101, 101G, 101J, 104JH
75200E	121, 121G, 121H, 121J, 121JH
75200H	121, 121G, 124, 124B, 124G, 124GB
75400AA	150
75500A	150
76000A	160
76000B	160
76000C	8060
76000J	8060
79100A	163
79100B	163
79100E	163
79100F-1	163
79100F-2	163
79100F-3	163
79100G-1	163
79100G-2	163
79100G-3	163
79200A	163
79200B	163
79200E	163
79600A	8023
79600L-4mm	8023
79600L-5mm	121
79600M	121
80100B	9846
80200A	173, 1973, 9845
80200B	173, 1973, 9845



# APPLICATION OF TYPE NUMBERS TO MACHINES

Machine Styles	Type of Needles
80200C	173, 1973, 9845
80200AA	1975
80200AB	1975
80200AC	1975
80600C	1975
80600E	1975
80600F	1975
80600H	1975
80600L	1975
80600AC	1975
80600AD	1975
80700A	9846
80700B	1975
81200A	1970, 9844
81200H	1970, 9844

## NEEDLES TO BE USED

The following pages are reserved for recording the needles best suited for the machines and operations in customers' plants.

Customers' Plants.			
Machine Style No.	Operation	Needle	Used
		Type	Size



# NEEDLES TO BE USED

Machine Style No.	Operation	Needle	Used
		Type	Size

## NEEDLES TO BE USED

Machine Style No.	Operation	Needle	Used
		Type	Size



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