



Large Pins • Textile Pins • Scriber Blades • Phonograph Needles • Industrial Pins • Electrical Contact Points • Perforating Pins • Hair Combing Pins • Map Tack Pin Points • Push Pin Points • Quick Cooking Pins • Skewers • Compass Points • Hair Pin Points • Vaccine Needles • Acupuncture Pins • Corsage Pins • Dissecting Needles • Fish Hook Blank Syringes

YOUR MAIN SOURCE FOR QUALITY PINS, POINTS, HOOKS, TEETH, CUT OFF WIRES AND PARTS.

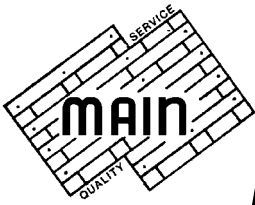


ROBERT A. MAIN & SONS, INC.

555 Goffle Road, Box 159, Wyckoff, NJ 07481-0159

Tel: 201- 447-3700 • Fax: 201-447-0302 • E-Mail: info@ramsco-inc.com





STOCK AND TOOLED PINS, POINTS, WIRE BLANKS

FOR THE PRECISE PINS YOU NEED FOR ANY APPLICATION, DISCOVER THE MEN OF STEEL.

At **Robert A. Main & Sons**, we make quality metal parts our whole business and if a metal part you need doesn't exist, we'll make it. We manufacture products from round wire such as: basic steel, low carbon steel, medium carbon steel, high carbon steel, tool steel, music wire, and all types of stainless steel, monel, brass, copper, tungsten, special/unusual steels and more.

Secondary operations can be performed in our plant for you as follows:

Heat treat, polish (regular, bright), [90% of our products are supplied heat treated and polished with costs that are extremely low.]; bend, knurl, flatten, thread, form, mill, drill, plate, tumble, buff, chamfer, anneal and temper.

Main can drop ship for you, bulk package, by count, by weight, or envelope. In addition, we can head all points one way, do sub-assembly for you, drill

TERMS: Round, "Regular Stock" steel pins, minimum order for many sizes. Special orders, per quote.

SHIPMENT: Stock items are immediate. Made to order, as indicated.

QUOTATIONS: We will gladly quote you on your exact part or send us blueprints or sketches along with a sample if possible.

MATERIALS: Most of our stock parts are heat treated, or can be if required. Many of our pins and points are polished or bright finished and we can supply pins and points in lengths from approximately 1/8" to 24" and diameters from .020" to 7/16". Parts are made in all metals at economical prices.

QUANTITIES: Large quantities are our specialty and can be economically produced. We also carry small quantities of over 2,600 different sizes in stock. (With many sizes in quantities up to 100,000 pieces or more.) Special sizes are made to your exact specifications.

holes, soften and supply you with cut-off wires to close tolerances, straighten and cut wires in any length up to 30" long or longer by special request.

Our wire parts are made in diameters from .020" to 7/16" diameter – (and any size in between): in lengths from .125" to 24" long – tolerance on lengths is normally $\pm .010$ ", diameters $\pm .001$ " – other parts have tolerances as required.

At Main, you have a world of metal parts at your finger tips for use in any application.

DIAMETERS OF ROUND WIRE SIZES MAIN STOCKS FOR MAKING YOUR PRODUCTS

GAUGE NO.	MAIN'S STD.	ENGLISH STANDARD
7/16	.440"	—
3/8	.380"	—
5/16	.315"	—
1	.285"	.300"
1-1/2	.277"	.288"
2	.277	.288"
2-1/2	.260"	.263"
1/4	.252"	—
3	.240"	.250"
3-1/2	.235"	.2425"
4	.230"	.235"
4-1/2	.218"	.2235"
5	.209"	.212"
5-1/2	.2015"	.202"
6	.193"	.192"
6-1/2	.184"	.184"
7	.176"	.176"
7-1/4	.172"	—
7-1/2	.169"	.168"
7-3/4	.166"	—
8	.163"	.160"
8-1/2	.156"	.154"
8-3/4	.150"	—
9	.148"	.146"
9-1/4	.142"	—
9-1/2	.138"	.140"
9-3/4	.136"	—
10	.1305"	.132"
10-1/4	.128"	—
10-1/2	.125"	.124"
10-3/4	.120"	—
11	.116"	.116"
11-1/4	.113"	—
11-1/2	.111"	.1095"
12	.096"	.0975"

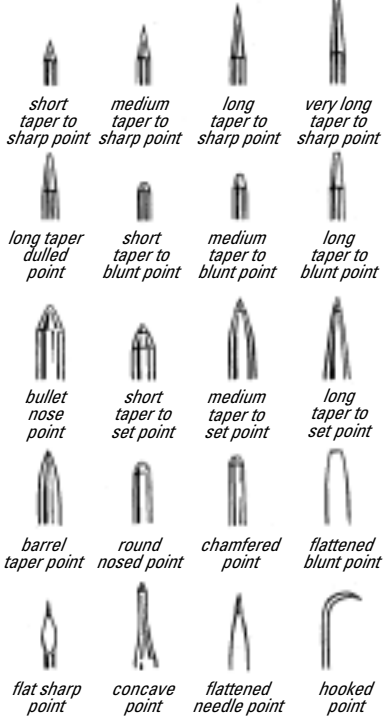
GAUGE NO.	MAIN'S STD.	ENGLISH STANDARD
12-1/4	.099"	—
12-1/2	.096"	0.975
12-3/4	.093"	—
13	.092"	.092"
13-1/4	.088"	—
13-1/2	.086"	.085"
13-3/4	.083"	—
14	.078"	.078"
14-1/4	.076"	—
14-1/2	.073"	.0742"
14-3/4	.071"	—
15	.0705"	.0705"
15-1/2	.068"	.067"
16	.064"	.064"
16-1/2	.060"	.060"
16-3/4	.058"	—
17	.056"	.056"
17-1/2	.053"	.052"
18	.048"	.048"
18-1/2	.045"	.045"
19	.042"	.042"
19-1/2	.040"	.0405"
20	.039"	.039"
20-1/2	.0365"	.0365"
21	.0345"	.0345"
21-1/2	.0330"	.03275"
23	.028"	.028"
23-1/2	.026"	.026"
24	.0245"	.0245"
24-1/2	.023"	.022"
25	.021"	.021"
26	.0195"	.0195"
27	.0175"	.0175"
28	.015"	.015"
29	.013"	.014"

AND ANY OTHER DIAMETER YOU REQUIRE

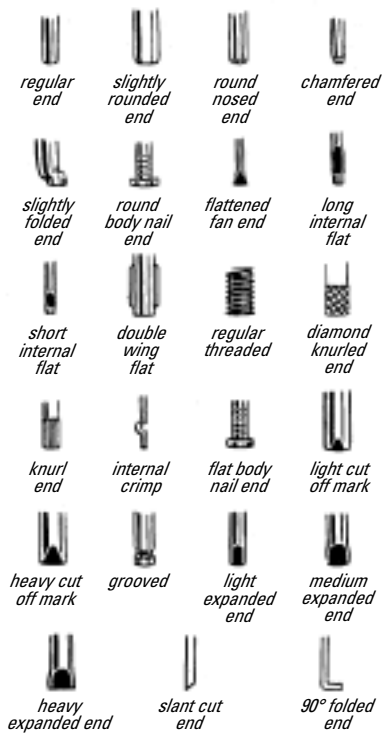
POINT AND END COMBINATIONS

The points shown can be supplied with any of the ends shown.

POINTS



ENDS

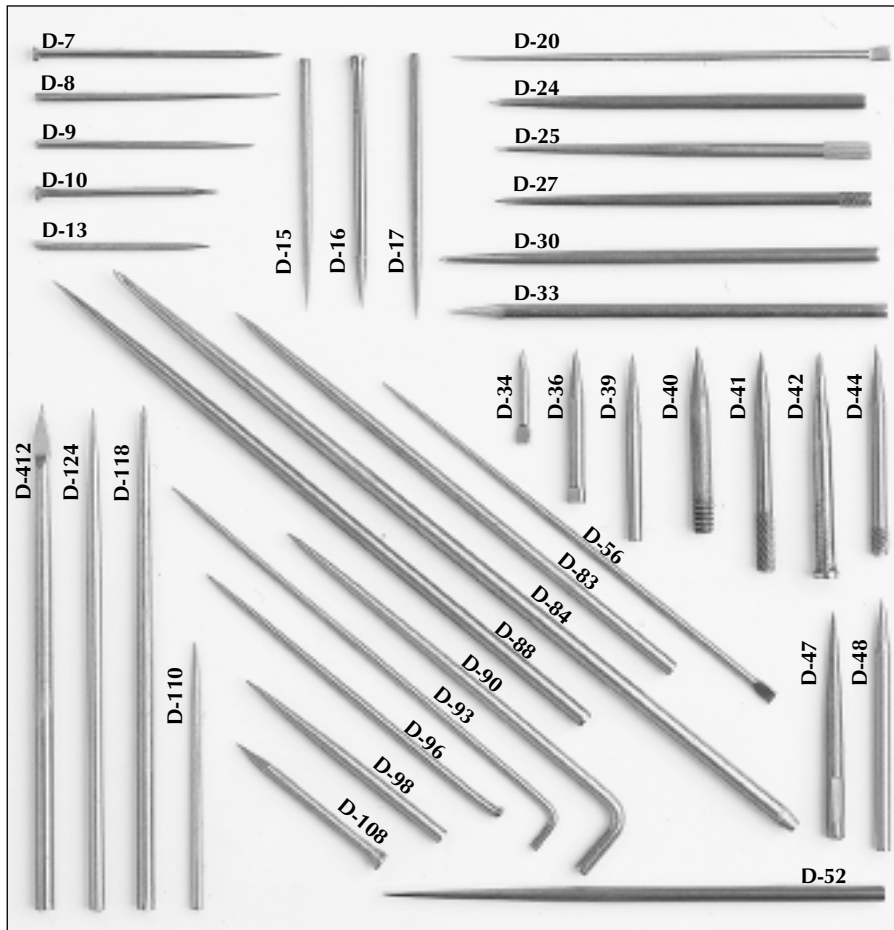


MAIN QUALITY PRODUCTS OF EVERY SIZE, SHAPE AND DESCRIPTION

- | | | | |
|---|--|---|--|
| <ul style="list-style-type: none"> 1. Dipping pin 2. Brass toilet bowl pin 3. Perforating pin 4. Assembly pin 5. Taper pin 6. Last pin 7. Contact pin 8. Screw base perforating pin 9. Screw in hex point 10. Folder pin 11. Honing pin 12. Paint dipping pin 13. Skewer pin 14. Knurled awl point 15. Cooking pin 16. Assembly pin 17. Probe point pin 18. Balance pin | <ul style="list-style-type: none"> 19. Tuning pin 20. Perforating pin 21. Hex screw pin 22. Wire harness pin 23. Wire harness pin 24. Flat picker pin 25. Pointer pin 26. Doffer tooth 27. Spear point pin 28. Diaphragm pin 29. Nail head blunt pin 30. Ice pick point 31. Awl point 32. Firing pin 33. Cylinder pin 34. Dart point 35. Picker pin 36. Knurled pin 37. Balance pin | <ul style="list-style-type: none"> 38. Step point pin 39. Pointed music wire 40. Bow pin 41. Perforator pin 42. Eye pin 43. Cylinder pin 44. Tire pin 45. Chisel point pin 46. Assembly pin 47. Shear pin 48. Blunt pin 49. Wedge pin 50. Assembly pin 51. Shear pin 52. Axle pin 53. Ice chipper pin 54. Vaccine needle 55. Scriber hook | <ul style="list-style-type: none"> 57. Electronics pin 58. Knurled base pin 59. Ribbed folder pin 60. Bottle perforator 61. Compass point 62. Picker tooth 63. Test pin 64. Perforating pin 65. Nail head picker 66. I.D. pin 67. Pivot point 68. Tire cord perforator 69. Bag pin 70. Bag pin 71. Perforating pin 72. Slat pin 73. Ice pick blade 74. Awl point |
|---|--|---|--|

DIPPING PINS / READY TO SHIP TO YOU IMMEDIATELY

**THE
PERFECT
DIPPING
PINS TO
GET A FIRM
HOLD ON
ANYTHING.**



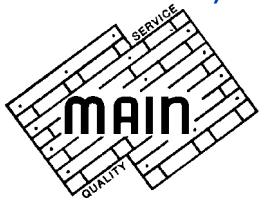
**FOR HOLDING
WOOD, PLASTIC,
BLOCKS,
HANDLES, AND
PARTS IN PAINT
DIPPING AND
ASSEMBLY
OPERATIONS.**

**SHOWN HERE
ARE SOME OF
THE MOST
COMMONLY
MANUFACTURED
DIPPING PINS.
SPECIAL PINS
MADE TO
YOUR EXACT
SPECIFICATIONS.**

DESCRIPTION OF PINS:

- D-7** — .102" dia. x 2" long, 3/8" taper, nail head
D-8 — .078" dia. x 2" long, 3/4" taper
D-9 — .070" dia. x 1 3/4" long, 1/2" taper
D-10 — .102" dia. x 1 1/2" long, 5/16" taper, nail head
D-13 — .093" dia. x 2" long, 1" taper, slightly folded head
D-15 — .072" dia. x 1 3/8" long, 1/2" taper, slightly folded head
D-16 — .073" dia. x 1 7/8" long x 1/4" taper slightly folded head
D-17 — .088" dia. x 2 1/8" long, long taper
D-20 — .078" dia. x 3 1/2", 1 1/2" taper, heavy 3/16" expanded butt other end
D-24 — .130" dia. x 3" long, 2 1/4" taper
D-25 — .130" dia. x 1 5/8" long, 5/8" taper, 12" long straight knurl head
D-27 — .115" dia. x 3" long, 1 3/8" taper, 1/4" long diamond knurl
D-30 — .130" dia. x 4" long, 1/2" taper
D-33 — .130" dia. x 2" long, 1 5/32" taper
D-34 — .082" dia. x 3/4" long, 3/16" taper, 1/8" flat on butt
D-36 — .135" dia. x 1 1/4" long, 7/16" taper, 1/8" long flat butt
D-39 — .130" dia. x 1 3/4" long, 7/8" taper
D-40 — .163" dia. x 1 1/2" long, 1/2" taper threaded butt end
D-41 — .130" dia. x 1 3/4" long x 1/2" taper spiril knurl
D-42 — .163" dia. x 1 13/16" long, nail head, 13/16" taper
D-44 — .130" dia. x 1 5/8" long x 1/2" taper threaded butt end
D-47 — .148" dia. x 1 13/16" long, 7/8" taper, 11/32" internal flat
D-48 — .093" dia. x 2 1/8" long, 1 5/32" taper
D-52 — .078" dia. x 4" long, 1 3/4" long taper with 3/16" long flat expanded butt
D-56 — .130" dia. x 5" long, 3 1/2" taper
D-83 — .130" dia. x 4" long, 2 1/2" taper
D-84 — .163" dia. x 7" long, 2 3/4" taper, butt end chamfered
D-88 — .148" dia. 4" long, 1/2" x 1 3/4" long, chamfered butt
D-90 — .078" dia. x 4" long approx. 2" long taper plus 1/4" long 90° bend
D-93 — .130" dia. x 3 1/2" long, 1 1/2" taper plus 1/2" long 90° bend
D-96 — .093" dia. x 3" long, taper 1 1/4" long, slightly folded head
D-98 — .130" dia. x 2" long, 1" taper
D-108 — .070" dia. x 1 1/2" long, 1/4" taper, nail head
D-110 — .125" dia. x 2 7/16" long, 1 3/4" narrow taper
D-118 — .130" dia. x 3 1/2" long, 1/2" taper
D-124 — .130" dia. x 3 1/2" long, 7/16" taper
D-412 — .156" dia. x 4" long, approx. 1 1/2" taper to flat on point (spear point)

Robert A. Main & Sons, Inc.



**Tel: 201-447-3700
Fax: 201-447-0302**

ALL PINS ARE HEAT TREATED AND POLISHED. CONTACT US NOW CONCERNING YOUR REQUIREMENTS.

WIRE HARNESS (CABLE) ASSEMBLY PINS

PARTS LISTED ARE IN STOCK, MADE FROM TOOL STEEL, HEAT TREATED AND ARE BRIGHT CADMIUM OR NICKEL PLATED. TAPERED POINT IS SLIGHTLY DULLED — LENGTH OF POINT IS APPROXIMATELY 3 TO 4 TIMES DIAMETER.



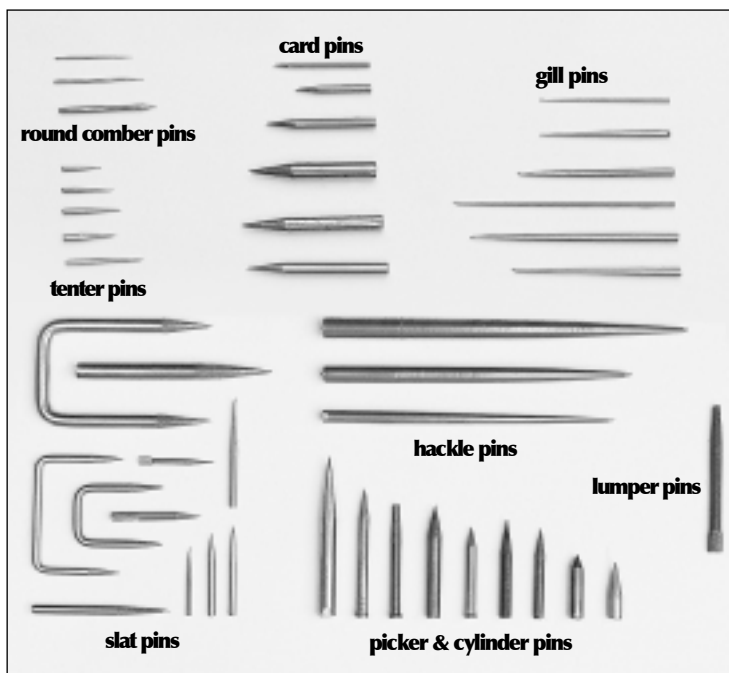
PART NO.	S-1512	S-1520	S-1533	S-1535	S-1539	S-1558	S-1583	S-1661	S-1698
LENGTH (INCHES)	1 5/8	1 3/4	1 3/4	1 3/4	2	2 1/8	2 3/8	2 1/2	3
DIAMETER (INCHES)	3/32 (.093)	5/64 (.078)	3/32 (.093)	7/64 (.109)	1/8 (.125)	7/64 (.109)	5/32 (.156)	1/8 (.125)	5/32 (.156)

PART NO.	H-1383	H-1384	H-1389	H-1394	H-1404	H-1411	H-1413	H-1415	H-1423	H-1429
LENGTH (INCHES)	1 1/2	1 1/2	2	2 3/8	3	3	3 1/2	4	5	6
DIAMETER (INCHES)	5/32 (.156)	3/16 (.187)	5/32 (.156)	5/32 (.156)	5/32 (.156)	3/16 (.187)	5/32 (.156)	3/16 (.187)	3/16 (.187)	3/16 (.187)

PART NO.	1304	1307	1309	1311	1313	1314	1316	1318	1321	1325	1361	1363	1365	1368	1370	1372
LENGTH (INCHES)	1 1/4	1 7/16	1 5/8	1 1/2	1 1/2	1 11/16	1 3/4	1 15/16	2	2	2	2 1/8	2 1/2	2 1/2	2 5/8	3
DIAMETER (INCHES)	1/16 (.063)	3/32 (.092)	5/64 (.078)	1/16 (.063)	1/8 (.125)	3/32 (.093)	5/64 (.078)	3/32 (.093)	5/64 (.078)	3/32 (.093)	1/8 (.125)	5/64 (.078)	5/64 (.078)	1/8 (.125)	3/32 (.093)	1/8 (.125)

TEXTILE PINS

EXAMPLES SHOWN BELOW OF SOME OF THE 390 SIZES OF TEXTILE PINS WE KEEP IN STOCK READY FOR IMMEDIATE SHIPMENT TO YOU. MOST TEXTILE PINS ARE HEAT TREATED AND BRIGHT POLISHED.



DIAMETERS OF ROUND WIRE SIZES WE STOCK

GAUGE NO.	MAIN'S STD.	GAUGE NO.	MAIN'S STD.	GAUGE NO.	MAIN'S STD.
7/16	.440"	9 1/4	.142"	16	.064"
3/8	.380"	9 1/2	.138"	16 1/2	.060"
5/16	.315"	9 3/4	.136"	16 3/4	.058"
1	.285"	10	.1305"	17	.056"
1 1/2	.277"	10 1/4	.128"	17 1/2	.053"
2	.270"	10 1/2	.125"	18	.048"
2 1/2	.260"	10 3/4	.120"	18 1/2	.045"
1/4	.252"	11	.116"	19	.042"
3	.240"	11 1/4	.113"	19 1/2	.040"
3 1/2	.235"	11 1/2	.111"	20	.039"
4	.230"	12	.1025"	20 1/2	.0365"
4 1/2	.218"	12 1/4	.099"	21	.0345"
5	.209"	12 1/2	.096"	21 1/2	.0330"
5 1/2	.2015"	12 3/4	.093"	22	.031"
6	.193"	13	.092"	22 1/2	.0295"
6 1/2	.184"	13 1/4	.088"	23	.028"
7	.176"	13 1/2	.086"	23 1/2	.026"
7 1/4	.172"	13 3/4	.083"	24	.0245"
7 1/2	.169"	14	.078"	24 1/2	.023"
7 3/4	.166"	14 1/4	.076"	25	.021"
8	.163"	14 1/2	.073"	26	.0195"
8 1/2	.156"	14 3/4	.071"	27	.0175"
8 3/4	.150"	15	.0705"	28	.015
9	.148"	15 1/2	.068"	29	.013

AND ANY OTHER DIAMETER YOU REQUIRE

THE SHARPEST QUALITY IN PINS AND POINTS.

ASSEMBLY PINS

Pointed or chamfered end pin, H/T or soft, with plain, knurled, nail head flat, or bent ends. Examples shown.



Any size or quantity made.

AXLES

Steel, stainless or brass axles for toys, wheels, trundles, pulleys, drives, gear boxes etc. Diameters .020" to .380" and lengths from 1/4" to 24" long — soft or heat treated.



BRUSH TRADE PINS

Combing and splitting and fiber hooking pins—many in stock.



MUSICAL PINS

Soft tone, medium tone, hard tone and extra hard tone steel phonograph needles; and piano pins, organ pins, harpsichord pins, tuning pins, harp pins, etc.



NEWSPAPER

Folder, stripper bindery pins, pin holders, inserting tool.



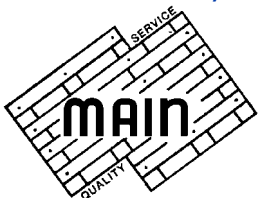
PERFORATING PINS

One piece or two piece pins with round, hex, square or flat base for easy insertion. Round points made from tool steel.



Many items in stock. Call us.

Robert A. Main & Sons, Inc.



Tel: 201- 447-3700
Fax: 201-447-0302

DIPPING PINS

Sharp pointed dipping pins, used for holding parts in painting and similar operations.



Any size or quantity made - many in stock

ELECTRICAL PINS

Brass contact points, steel contact points, nail head discharge pin, pointer pins, wire cable harness assembly pin, electrical assembly pin, screw in base, discharge pin, holding pin, etc.



HINGE PINS

Steel, stainless steel, monel, brass. music wire or any other material made up into hinge pins, with knurled ends, chamfered end, pointed end, rounded end and similar configurations.



MEDICAL PINS

Straight and bent dissecting needles, stainless steel vaccine needles, pins, dental post pins, stainless steel joint pins.



PRECISION MACHINED PARTS

Precision turned or turned and precision ground. Pointed, headed, flat, interrupted diameter, tolerance to .0001".



SCRIBERS

Sharp pointed, tool steel awls, scribes and blades for hard layout hole punching, marking etc. Heat treated and bright polished.



SHEAR PINS

Knurled end or plain end, soft, medium or hard, wire shear pins made to your exact requirements.



STRAIGHTENED & CUT WIRES

Large or small quantities of straightened and cut wires in any metal-diameters .020" to 3/8"; lengths 1/4" to 24" supplied to your exact requirements.



SHARP POINTED PINS IN STOCK

OUR INVENTORY IS LISTED BELOW / SMALL "FROM STOCK" ORDERS WELCOMED.

DIA.	LGTH.	TAPER	MATL.
.057	.687	.109	STEEL
.057	.750	.109	STEEL
.057	.812	.125	STEEL
.057	.875	.062	STEEL
.057	.875	.250	STEEL
.057	.937	.281	STEEL
.057	.937	LONG	STEEL
.057	1.125	.375	STEEL
.057	1.125	LONG	STEEL
.057	1.187	LONG	STEEL
.057	1.625	LONG	STEEL
.0575	1.125	.250	STEEL
.058	.218	.125	STEEL
.058	.281	.120	STEEL
.058	.300	.093	302 S.S.
.058	.300	.156	302 S.S.
.058	.300	.218	302 S.S.
.058	.312	.125	STEEL
.058	.343	.156	STEEL
.058	.375	.125	STEEL
.058	.437	.375	STEEL
.058	.468	.125	STEEL
.058	.500	.125	STEEL
.058	.500	.312	STEEL
.058	.500	.375	STEEL
.058	.500	.125	420 S.S.
.058	.562	.375	STEEL
.058	.562	.250	STEEL
.058	.625	.125	STEEL
.058	.625	.125	STEEL
.058	.625	.140	420 S.S.
.058	.625	.140	STEEL
.058	.625	.156	STEEL
.058	.625	.375	STEEL
.058	.625	.500	STEEL
.058	.625	.250	STEEL
.058	.640	.125	STEEL
.058	.656	.140	STEEL
.058	.750	.125	STEEL
.058	.750	.187	STEEL
.058	.750	.250	STEEL
.058	.750	LONG	STEEL
.058	.875	.187	STEEL
.058	.875	.562	STEEL
.058	.906	.250	STEEL
.058	.937	.125	STEEL
.058	.937	.187	STEEL
.058	.937	.250	STEEL
.058	1.00	.187	STEEL
.058	1.000	.250	STEEL
.058	1.062	.250	STEEL
.058	1.062	.375	STEEL
.058	1.062	LONG	STEEL
.058	1.125	.250	STEEL
.058	1.187	.375	STEEL
.058	1.187	LONG	STEEL
.058	1.250	.250	STEEL
.058	1.250	.375	302 S.S.
.058	1.250	LONG	STEEL
.058	1.312	.125	STEEL
.058	1.375	LONG	STEEL
.058	1.437	LONG	STEEL
.058	1.500	LONG	STEEL
.058	1.625	LONG	STEEL
.058	1.780	.300	STEEL
.058	2.500	.625	STEEL
.059	.562	.0125	STEEL
.059	.593	.437	STEEL
.059	.625	.062	STEEL
.059	.740	.250	STEEL
.059	1.375	.062	STEEL
.059	1.375	LONG	STEEL
.059	1.500	LONG	STEEL
.059	1.625	LONG	STEEL
.060	.312	.062	STEEL
.060	.375	.250	STEEL
.060	.437	.312	STEEL
.060	.500	.093	STEEL
.060	.500	.375	STEEL
.060	.500	.375	420 S.S.
.060	.531	.125	STEEL
.060	.562	.062	STEEL
.060	.562	.500	STEEL
.060	.625	.063	STEEL
.060	.625	.125	420 S.S.
.060	.625	.156	STEEL
.060	.625	.500	STEEL
.060	.625	LONG	STEEL
.060	.656	.140	STEEL
.060	.687	.250	STEEL
.060	.687	.281	STEEL
.060	.687	LONG	STEEL
.060	.750	.062	STEEL
.060	.750	.187	STEEL

DIA.	LGTH.	TAPER	MATL.
.060	.750	.312	STEEL
.060	.812	.062	STEEL
.060	.875	.187	STEEL
.060	.937	.125	STEEL
.060	.937	.312	STEEL
.060	1.00	.062	STEEL
.060	1.00	.250	STEEL
.060	1.00	.312	STEEL
.060	1.093	.218	STEEL
.060	1.125	.187	STEEL
.060	1.125	.937	STEEL
.060	1.250	.562	STEEL
.060	1.312	LONG	STEEL
.060	1.375	.062	STEEL
.060	1.375	.125	STEEL
.060	1.500	LONG	STEEL
.060	1.562	LONG	STEEL
.060	1.625	.250	STEEL
.060	1.625	LONG	STEEL
.060	1.750	LONG	STEEL
.060	1.812	LONG	STEEL
.060	1.875	LONG	STEEL
.060	1.937	LONG	STEEL
.060	2.125	LONG	STEEL
.0605	.875	.625	STEEL
.0605	1.500	LONG	STEEL
.061	.687	.250	STEEL
.061	.875	.250	STEEL
.061	1.000	.218	STEEL
.061	1.062	LONG	STEEL
.061	1.250	LONG	STEEL
.061	1.625	LONG	STEEL
.061	1.750	LONG	STEEL
.061	4.000	.500	STEEL
.062	.312	.125	STEEL
.062	.437	.187	STEEL
.062	.437	.250	STEEL
.062	.468	.187	STEEL
.062	.500	.312	STEEL
.062	.625	.125	420 S.S.
.062	.625	.125	STEEL
.062	.643	.140	STEEL
.062	.687	.062	STEEL
.062	.687	.187	STEEL
.062	.730	.312	STEEL
.062	.750	.062	STEEL
.062	.781	.062	STEEL
.062	.930	.093	STEEL
.062	.930	.093	STEEL
.062	.937	.187	STEEL
.062	1.000	.437	STEEL
.062	1.125	.250	STEEL
.062	1.125	.437	STEEL
.062	1.125	.875	STEEL
.062	1.187	.875	STEEL
.062	1.250	.937	STEEL
.062	1.437	.687	STEEL
.062	1.500	.500	302 S.S.
.062	1.550	.156	302 S.S.
.062	1.562	.437	STEEL
.062	1.562	.437	STEEL
.062	1.645	.450	STEEL
.062	1.750	.250	302 S.S.
.062	1.875	LONG	STEEL
.062	2.00	.250	STEEL
.062	2.250	.156	302 S.S.
.062	2.375	LONG	STEEL
.062	7.000	.125	STEEL
.062	9.00	.125	STEEL
.0625	.406	.125	STEEL
.0625	.625	.187	STEEL
.0625	1.062	.812	STEEL
.0625	1.250	.210	STEEL
.063	.312	.062	STEEL
.063	.500	.062	STEEL
.063	.500	LONG	420 S.S.
.063	.531	.250	STEEL
.063	.625	.140	STEEL
.063	.625	LONG	STEEL
.063	.656	.140	STEEL
.063	.687	.062	STEEL
.063	.687	.093	STEEL
.063	.687	.140	STEEL
.063	.720	.690	STEEL
.063	.750	.125	STEEL
.063	.750	.562	STEEL
.063	.775	.187	STEEL
.063	.781	.250	302 S.S.
.063	.875	.125	STEEL
.063	.906	.187	STEEL
.063	1.000	.062	STEEL
.063	1.000	LONG	STEEL
.063	1.062	.312	STEEL
.063	1.125	.125	STEEL

DIA.	LGTH.	TAPER	MATL.
.063	1.125	.250	STEEL
.063	1.187	LONG	STEEL
.063	1.200	.250	STEEL
.063	1.250	.062	STEEL
.063	1.250	.312	STEEL
.063	1.250	LONG	STEEL
.063	1.375	LONG	STEEL
.063	1.500	.250	STEEL
.063	2.375	1.750	STEEL
.063	4.00	.500	302 S.S.
.0635	1.250	.875	STEEL
.064	.187	.125	420 S.S.
.064	.250	.156	STEEL
.064	.312	.062	STEEL
.064	.329	.100	420 S.S.
.064	.400	.125	STEEL
.064	.437	.062	420 S.S.
.064	.437	.187	302 S.S.
.064	.484	.187	420 S.S.
.064	.500	.062	STEEL
.064	.500	.100	420 S.S.
.064	.500	.125	STEEL
.064	.500	.312	STEEL
.064	.531	.187	STEEL
.064	.531	.250	STEEL
.064	.537	.250	420 S.S.
.064	.562	.062	302 S.S.
.064	.562	.312	420 S.S.
.064	.562	.437	STEEL
.064	.625	.312	420 S.S.
.064	.625	.500	420 S.S.
.064	.635	.125	STEEL
.064	.687	.187	STEEL
.064	.687	.468	STEEL
.064	.750	.187	STEEL
.064	.812	.078	302 S.S.
.064	.875	.187	STEEL
.064	.875	.375	STEEL
.064	.875	.437	302 S.S.
.064	.875	.437	STEEL
.064	.875	.687	STEEL
.064	.875	.750	STEEL
.064	1.00	.250	STEEL
.064	1.000	.062	STEEL
.064	1.000	.375	STEEL
.064	1.000	.500	STEEL
.064	1.000	LONG	STEEL
.064	1.062	.312	STEEL
.064	1.062	.343	STEEL
.064	1.062	.437	420 S.S.
.064	1.062	.437	STEEL
.064	1.062	.875	STEEL
.064	1.125	LONG	STEEL
.064	1.187	.375	STEEL
.064	1.187	LONG	STEEL
.064	1.218	.375	STEEL
.064	1.250	.250	STEEL
.064	1.250	.500	STEEL
.064	1.343	LONG	STEEL
.064	1.375	LONG	STEEL
.064	1.437	LONG	STEEL
.064	1.500	.500	STEEL
.064	1.500	1.125	STEEL
.064	1.500	LONG	STEEL
.064	1.562	.187	STEEL
.064	1.562	LONG	STEEL
.064	1.625	LONG	STEEL
.064	1.750	.125	STEEL
.064	1.750	1.50	STEEL
.064	1.750	LONG	STEEL
.064	1.812	LONG	STEEL
.064	1.875	.500	STEEL
.064	1.937	.500	STEEL
.064	1.937	LONG	STEEL
.064	2.00	1.375	STEEL
.064	2.000	1.625	STEEL
.064	2.375	.250	STEEL
.064	3.00	1.250	316 S.S.
.064	5.00	.062	STEEL
.065	.312	.187	302 S.S.
.065	.343	.187	STEEL
.065	.437	.187	STEEL
.065	.500	.125	STEEL
.065	.500	.187	STEEL
.065	.500	.250	STEEL
.065	.500	.312	316 S.S.
.065	.500	LONG	STEEL
.065	.562	.093	STEEL
.065	.562	.937	STEEL
.065	.625	.250	STEEL
.065	.812	.156	STEEL
.065	1.250	.375	STEEL
.065	1.250	LONG	STEEL

DIA.	LGTH.	TAPER	MATL.
.065	1.500	LONG	STEEL
.065	1.562	LONG	STEEL
.065	1.750	LONG	STEEL
.065	3.00	2.00	316 S.S.
.066	.531	.250	STEEL
.066	.625	.312	STEEL
.066	.750	.437	STEEL
.066	1.000	LONG	STEEL
.066	1.062	.250	STEEL
.066	1.375	LONG	STEEL
.066	1.437	LONG	STEEL
.066	1.625	LONG	STEEL
.066	4.090	.250	STEEL
.066	9.830	.250	STEEL
.067	.343	.250	STEEL
.067	.500	.312	STEEL
.067	.625	.156	STEEL
.067	.625	.187	STEEL
.067	.750	.250	STEEL
.067	.875	.687	STEEL
.067	1.125	.875	STEEL
.067	1.875	LONG	STEEL
.067	.750	.562	STEEL
.068	.437	.125	STEEL
.068	.500	.250	400 S.S.
.068	.500	.375	STEEL
.068	.531	.250	STEEL
.068	.625	.125	STEEL
.068	.625	.375	STEEL
.068	.625	.437	STEEL
.068	.687	.250	STEEL
.068	.687	.437	STEEL
.068	.687	.468	STEEL
.068	.750	.437	STEEL
.068	.875	.625	STEEL
.068	1.062	LONG	STEEL
.068	1.125	.875	STEEL
.068	1.250	.250	STEEL
.068	1.250	.250	STEEL
.068	1.500	.375	STEEL
.068	1.500	LONG	STEEL
.068	1.750	LONG	STEEL
.068	1		

SHARP POINTED PINS IN STOCK / READY TO SHIP TO YOU IMMEDIATELY

OUR INVENTORY IS LISTED BELOW / SMALL "FROM STOCK" ORDERS WELCOMED.

DIA.	LGTH.	TAPER	MATL.
.102	1.625	.312	STEEL
.102	1.625	.500	316 S.S.
.102	1.625	.750	STEEL
.102	1.687	LONG	STEEL
.102	1.750	.375	STEEL
.102	1.750	.750	STEEL
.102	1.750	1.250	STEEL
.102	1.875	.375	STEEL
.102	1.875	LONG	STEEL
.102	2.00	.875	STEEL
.102	2.000	.375	304 S.S.
.102	2.000	.375	STEEL
.102	2.000	.468	STEEL
.102	2.000	.500	STEEL
.102	2.000	1.625	STEEL
.102	2.000	LONG	STEEL
.102	2.250	1.625	STEEL
.102	2.500	LONG	STEEL
.102	2.750	2.000	STEEL
.102	3.000	.375	STEEL
.102	3.500	.062	STEEL
.102	3.500	LONG	STEEL
.102	4.000	LONG	STEEL
.103	1.250	.375	STEEL
.103	1.375	.437	STEEL
.103	1.500	.375	STEEL
.104	1.250	.187	STEEL
.105	.500	.375	STEEL
.105	2.250	LONG	STEEL
.107	.750	.093	STEEL
.107	.750	.187	STEEL
.107	1.125	.312	STEEL
.107	1.125	.375	STEEL
.107	1.375	.375	STEEL
.108	1.375	.625	STEEL
.108	1.437	.437	STEEL
.108	1.625	.437	STEEL
.108	3.500	2.000	STEEL
.109	.687	.187	STEEL
.109	1.000	.500	STEEL
.109	1.125	.375	STEEL
.109	1.125	.500	STEEL
.109	1.203	.875	STEEL
.109	1.250	.500	STEEL
.109	1.406	.875	STEEL
.109	2.375	2.000	STEEL
.109	2.875	.250	STEEL
.109	3.875	.250	STEEL
.109	4.875	.250	STEEL
.109	6.375	.250	STEEL
.109	7.375	.250	STEEL
.110	1.125	.375	STEEL
.110	1.500	.468	STEEL
.110	1.718	.375	STEEL
.111	.500	.171	STEEL
.111	1.125	.312	STEEL
.112	1.000	.375	STEEL
.112	1.031	.375	STEEL
.113	1.062	.375	STEEL
.114	1.125	.375	STEEL
.114	1.750	.406	STEEL
.115	1.000	.312	STEEL
.115	1.125	.312	STEEL
.115	1.125	.375	STEEL
.115	1.125	.625	STEEL
.115	1.812	.250	STEEL
.115	2.000	.500	STEEL
.115	2.500	LONG	STEEL
.115	3.000	1.375	STEEL
.116	.500	.250	420 S.S.
.116	1.000	.625	STEEL
.116	1.312	.375	STEEL
.116	1.375	.375	STEEL
.116	1.375	.625	STEEL
.116	1.625	.437	STEEL
.116	1.750	.250	STEEL
.116	1.750	.625	STEEL
.116	1.750	1.000	STEEL
.116	1.812	.281	STEEL
.116	2.000	.375	STEEL
.116	2.125	.500	STEEL
.116	2.375	.500	STEEL
.116	4.000	2.875	STEEL
.117	1.125	.312	STEEL
.117	2.343	.218	STEEL
.118	1.000	.187	STEEL
.120	.375	.187	STEEL
.120	1.500	.375	STEEL
.120	1.062	.375	STEEL
.120	1.125	.375	STEEL
.120	1.250	.375	STEEL
.120	1.609	.125	303 S.S.
.120	1.687	.062	STEEL

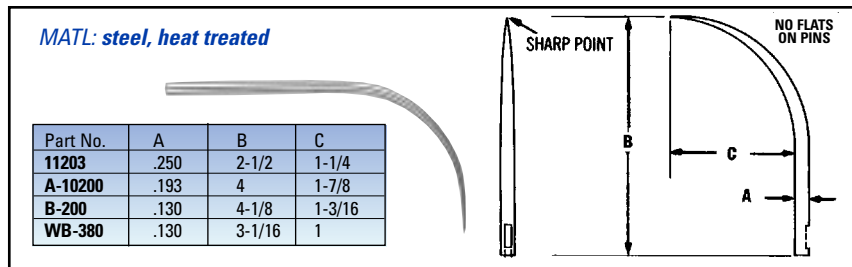
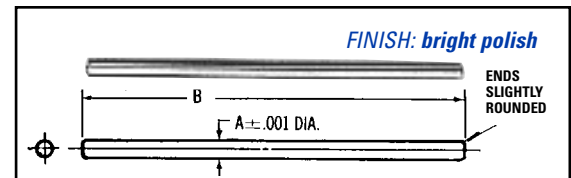
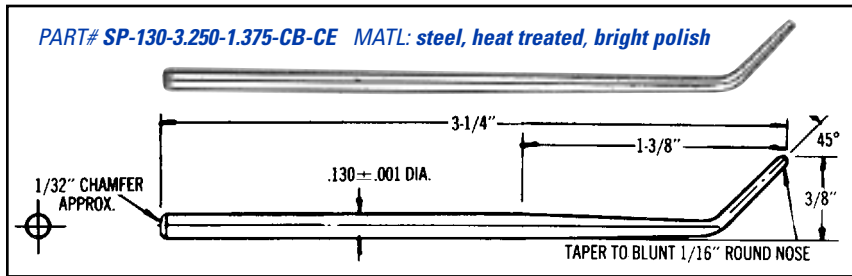
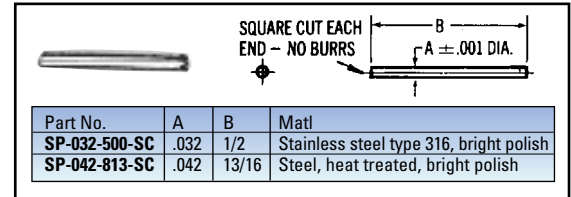
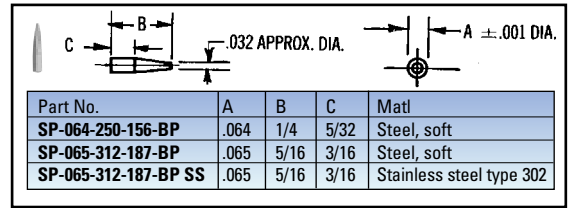
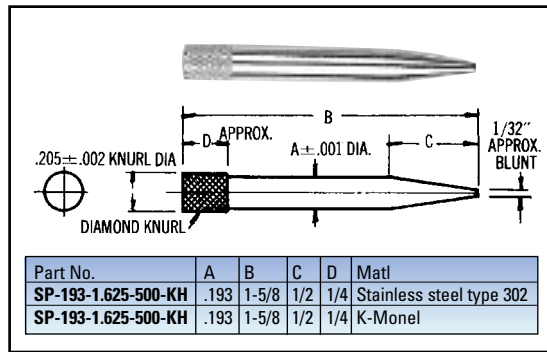
DIA.	LGTH.	TAPER	MATL.
.120	1.750	.375	STEEL
.121	2.500	1.750	STEEL
.122	.937	.250	STEEL
.122	1.000	.375	STEEL
.122	1.062	.375	STEEL
.124	1.062	.437	STEEL
.125	.375	.093	STEEL
.125	.375	.125	STEEL
.125	.500	.250	STEEL
.125	.753	.125	STEEL
.125	.593	.250	STEEL
.125	.625	.125	STEEL
.125	.625	.312	STEEL
.125	.656	.406	STEEL
.125	.687	.218	STEEL
.125	.687	.312	420 S.S.
.125	.750	.125	STEEL
.125	.750	.375	304 S.S.
.125	.760	.437	STEEL
.125	.812	.187	STEEL
.125	.812	.312	STEEL
.125	.812	.375	STEEL
.125	.875	.125	STEEL
.125	.875	.340	STEEL
.125	.875	.375	STEEL
.125	.968	.250	316 S.S.
.125	1.000	.187	302 S.S.
.125	1.000	.375	STEEL
.125	1.000	.468	STEEL
.125	1.000	.687	STEEL
.125	1.000	.750	302 S.S.
.125	1.000	.750	400 S.S.
.125	1.062	.375	STEEL
.125	1.062	.437	STEEL
.125	1.062	.500	STEEL
.125	1.125	.375	STEEL
.125	1.125	.750	304 S.S.
.125	1.125	LONG	STEEL
.125	1.250	1.000	STEEL
.125	1.312	.500	STEEL
.125	1.375	.375	STEEL
.125	1.375	.375	STEEL
.125	1.375	.437	STEEL
.125	1.500	.625	STEEL
.125	1.687	.750	STEEL
.125	1.750	.875	STEEL
.125	10.000	.250	STEEL
.125	2.000	.312	STEEL
.125	2.500	.500	STEEL
.125	2.875	.750	302 S.S.
.125	3.250	1.250	STEEL
.125	4.000	3.750	STEEL
.125	4.500	.120	STEEL
.125	4.500	.500	STEEL
.125	4.500	1.000	STEEL
.125	4.500	1.125	STEEL
.125	5.875	.875	STEEL
.125	6.000	.500	STEEL
.125	6.000	1.250	STEEL
.125	7.000	.187	STEEL
.125	7.500	.187	STEEL
.125	9.000	.187	STEEL
.126	.770	.437	STEEL
.126	1.000	.250	STEEL
.126	1.000	.312	STEEL
.126	1.000	.375	304 S.S.
.126	1.062	.437	STEEL
.126	1.250	.375	STEEL
.130	.500	.250	316 S.S.
.130	.625	.250	STEEL
.130	.687	.250	STEEL
.130	.750	.500	STEEL
.130	.812	.468	STEEL
.130	.937	.312	STEEL
.130	.937	.468	STEEL
.130	1.000	.250	STEEL
.130	1.062	.375	STEEL
.130	1.062	.468	STEEL
.130	1.125	.375	STEEL
.130	1.125	.468	302 S.S.
.130	1.125	.750	STEEL
.130	1.187	.375	STEEL
.130	1.187	.406	STEEL
.130	1.187	.468	STEEL
.130	1.187	.500	STEEL
.130	1.203	.625	STEEL
.130	1.250	.375	STEEL
.130	1.250	.625	302 S.S.
.130	1.312	.468	STEEL
.130	1.375	.375	STEEL
.130	1.375	.437	STEEL
.130	1.437	.375	STEEL
.130	1.437	.468	STEEL

DIA.	LGTH.	TAPER	MATL.
.130	1.500	.375	STEEL
.130	1.500	.468	316 S.S.
.130	1.500	.625	316S.S.
.130	1.500	1.062	STEEL
.130	1.625	.312	300 S.S.
.130	1.625	.375	STEEL
.130	1.625	.400	STEEL
.130	1.625	.437	STEEL
.130	1.625	.625	316 S.S.
.130	1.687	.500	STEEL
.130	1.750	.250	STEEL
.130	1.750	.375	304 S.S.
.130	1.750	.375	STEEL
.130	1.750	.468	302 S.S.
.130	1.750	.468	STEEL
.130	1.750	.500	300 S.S.
.130	1.750	.500	316 S.S.
.130	1.812	.468	STEEL
.130	1.875	.375	STEEL
.130	2.00	.625	STEEL
.130	2.000	.468	420 S.S.
.130	2.000	.625	300 S.S.
.130	2.000	.625	302 S.S.
.130	2.000	1.000	STEEL
.130	2.000	LONG	STEEL
.130	2.125	.468	STEEL
.130	2.125	1.000	STEEL
.130	2.250	.375	STEEL
.130	2.500	.500	300 S.S.
.130	2.875	2.00	STEEL
.130	3.000	2.000	STEEL
.130	3.250	2.500	STEEL
.130	3.500	.438	STEEL
.130	3.500	.500	STEEL
.130	3.500	2.625	STEEL
.130	3.750	.468	STEEL
.130	4.000	1.500	STEEL
.130	4.000	2.000	STEEL
.130	4.500	3.500	STEEL
.131	.625	.437	STEEL
.131	.750	.500	STEEL
.131	1.000	.250	STEEL
.131	1.062	.375	STEEL
.131	1.187	.375	STEEL
.131	1.250	.375	STEEL
.131	1.312	.375	STEEL
.131	1.750	.468	STEEL
.131	3.375	LONG	STEEL
.131	3.500	LONG	STEEL
.132	1.750	.468	STEEL
.132	2.000	.468	STEEL
.133	1.250	.312	STEEL
.133	1.375	.437	STEEL
.135	1.250	.687	STEEL
.136	1.250	.312	STEEL
.136	1.312	.500	STEEL
.136	1.375	.375	STEEL
.137	1.125	.375	STEEL
.137	1.750	.500	STEEL
.138	.250	.375	STEEL
.140	1.156	.875	STEEL
.140	1.500	.375	STEEL
.140	1.750	.500	STEEL
.140	1.750	1.250	STEEL
.140	2.000	.468	STEEL
.141	1.375	.500	STEEL
.145	.575	.187	STEEL
.146	1.125	.375	STEEL
.146	1.375	.375	STEEL
.146	1.750	.468	300 S.S.
.146	1.750	.500	STEEL
.147	1.375	.500	STEEL
.147	1.500	.437	STEEL
.148	1.062	.375	STEEL
.148	1.250	.875	STEEL
.148	1.375	.375	STEEL
.148	1.562	.625	STEEL
.148	1.625	.500	316 S.S.
.148	1.625	.500	STEEL
.148	2.500	.875	STEEL
.148	3.250	1.000	STEEL
.148	4.000	3.000	STEEL
.148	4.250	.437	STEEL
.148	5.500	2.500	STEEL
.149	1.125	.312	STEEL
.149	1.500	.750	STEEL
.150	.687	.500	STEEL
.150	1.125	.437	STEEL
.150	1.250	.750	STEEL
.150	1.375	.375	STEEL
.150	1.375	.437	STEEL
.150	1.625	.375	STEEL
.150	1.625	.500	STEEL

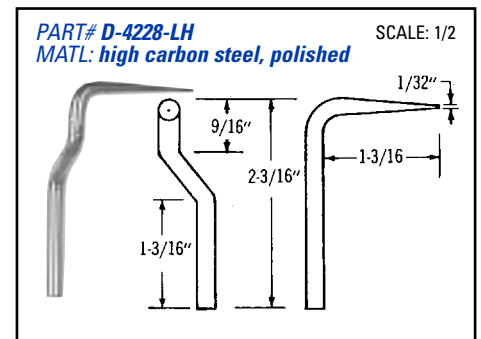
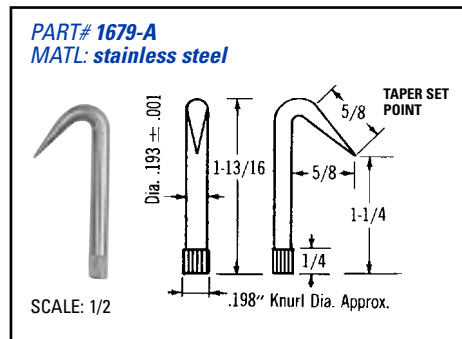
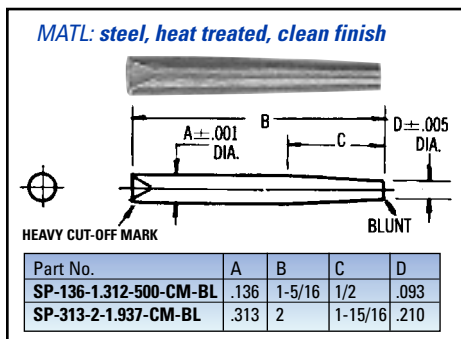
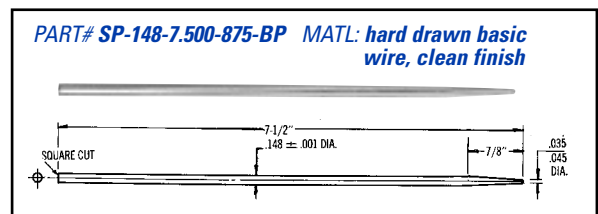
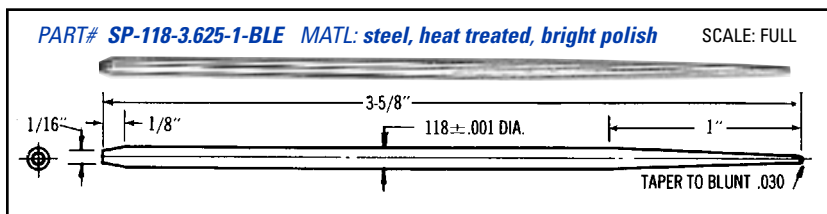
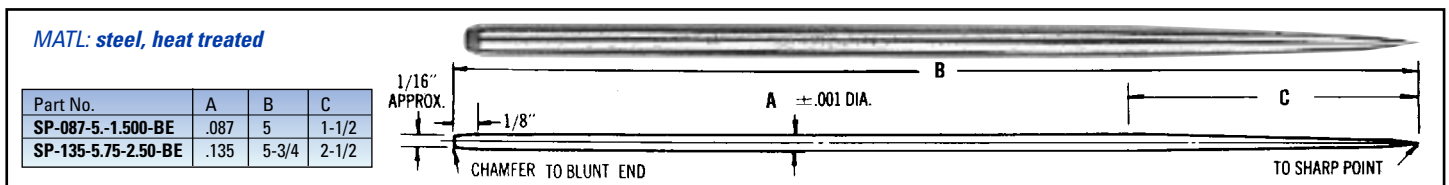
DIA.	LGTH.	TAPER	MATL.
.150	1.625	.625	STEEL
.150	1.625	.937	STEEL
.152	1.750	.375	STEEL
.156	.625	.125	STEEL
.156	.687	.187	STEEL
.156	.875	.437	STEEL
.156	1.500	.937	STEEL
.156	1.562	.625	STEEL
.156	10.000	.500	STEEL
.156	2.562	.625	302 S.S.
.156	3.000	2.000	STEEL
.156	3.500	2.500	STEEL
.161	1.000	.750	STEEL
.163	1.125	.438	STEEL
.163	1.187	.281	STEEL
.163	1.187	.437	STEEL
.163	1.250	.281	STEEL
.163	1.250	.438	STEEL
.163	1.500	.500	STEEL
.163	1.625	.625	STEEL
.163	2.125	1.000	STEEL
.163	2.156	.750	STEEL
.163	2.875	1.000	STEEL
.163	3.250	LONG	STEEL
.163	3.500	2.500	STEEL
.163	7.000	LONG	STEEL
.165	1.125	.375	STEEL
.169	1.875	.625	STEEL
.172	2.000	1.750	300 S.S.
.173	2.000	.500	STEEL
.175	7.250	1.000	STEEL
.176	1.250	.375	STEEL
.176	1.625	.468	STEEL
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SPECIAL PINS — STOCK OR TOOLED TO MAKE / READY TO SHIP TO YOU IMMEDIATELY

IF OUR PINS AREN'T QUITE RIGHT FOR YOUR APPLICATION, WE CAN CUSTOM MAKE THEM.



Part No.	A	B	MATL
SP 060 x 1.500	.060	1-1/2	Stainless steel-soft
SP 062 x 1.562	.062	1-9/16	Stainless steel-soft
SP 063 x 1.500	.063	1-1/2	Stainless steel-soft
SP 069 x 1.500	.069	1-1/2	Stainless steel-soft
SP 078 x 1.218	.078	1-7/32	Stainless steel-soft
SP 078 x 1.500	.078	1-1/2	Stainless steel-soft
SP 092 x 1.078	.092	1-5/64	Steel, heat treated
SP 093 x 2.125	.093	2-1/8	Steel, heat treated
SP 148 x 1.625	.148	1-5/8	Steel, heat treated
SP 163 x 2.500	.163	2-1/2	Steel, heat treated
SP 210 x 2.00	.210	2	Steel, heat treated



SPECIAL PINS — STOCK OR TOOLED TO MAKE

PART# SP-164-8.125-750-BE **MATL: steel, heat treated** SCALE: 1/2

8-1/8"
 3/4"
 .164 ± .001 DIA.
 3/4"
 SHARP POINT BOTH ENDS

MATL: music wire, bright finish

1/4"
 A
 1/4" TAPER TO BLUNT
 .030 DIA. APPROX.
 .050 ± .001 DIA.
 .030 DIA. APPROX.

Part No.	A
SP-050-3.500-250-BLE	3-1/2
SP-050-4.750-250-BLE	4-3/4
SP-050-5-250-BLE	5

PART# SP-157-4-125-SP-KH **MATL: steel, heat treated, polished** SCALE: FULL

Excellent for use on wood parts. Spear point keeps wood from revolving on point

3/8"
 4"
 1/8"
 .157 ± .001 DIA.
 .163 ± .002 KNURL DIA.
 SPEAR POINT

MATL: steel, heat treated, bright polish

Part No.	A	B	C	D	Radius
WB-562	1/8	5-5/8	1-1/16	4-5/8	1"
10909	.130	4-7/16	1	3-3/4	9/16
10910	.130	3-1/4	1-3/16	2-3/8	11/16

MATL: steel, heat treated

D APPROX.
 E
 B
 A ± .001 DIA.
 C
 F ± .005
 BLUNT
 DIE HOLDING MARKS
 Clean Finish

Part No.	A	B	C	D	E	F
SP-125-1.750-500-NH	.125	1-3/4	1/2	.156	3/64	.062
SP-148-2.250-500-NH	.148	2-1/4	1/2	.187	1/32	.093
SP-163-2.250-750-NH	.163	2-1/4	3/4	.220	1/32	.104
SP-176-2.250-750-NH	.176	2-1/4	3/4	.250	1/16	.108

PART# SP-048-1.375-250-BH **MATL: steel, heat treated, bright polish**

SCALE: FULL

5/32
 1-3/8"
 1/4"
 SHARP POINT
 .048 ± .001 DIA.

PART# C-8295 **MATL: high carbon heat treated steel, bright polish**

SCALE: 2X

.100 ± .001 Dia.
 7/16"
 3/4 ± .008"
 .015 ± .005" R

MATL: steel, heat treated

A ± .001 DIA.
 B
 C
 BARREL TAPER TO SHARP POINT

Part No.	A	B-approx	C-approx
P-225-5	.093	.598	.272
SP-070-437-312-BT	.070	7/16	5/16

PART# 10766A **MATL: steel, heat treated, finish-medium**

3/4"
 5/16"
 5/16"
 .0925 ± .001
 .0995
 SHARP POINT

PART# SP-24417 **MATL: steel, heat treated, bright polish**

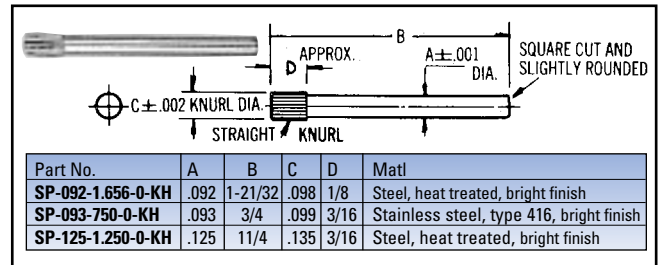
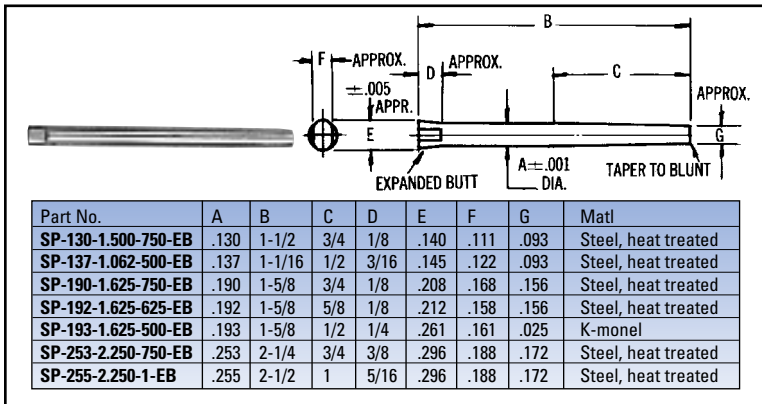
SCALE: FULL

1 1/16"
 13/16"
 1/4"
 .1005 ± .001
 .1036 ± .005
 NEEDLE POINT

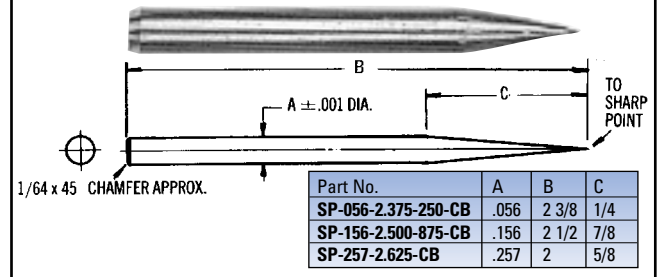
PART# SP-064-500-250-FS **MATL: steel, heat treated, bright polish**

SCALE: 2X

1/2"
 1/32" APP.
 .064 ± .001
 1/16"
 1/4"
 1/16" APP.
 1/4"
 5/64" APP.
 SHARP POINT

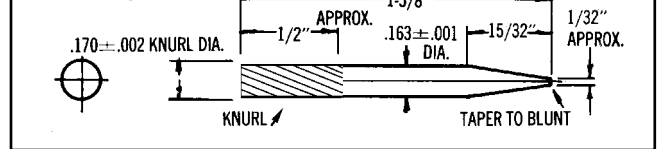


MATL: steel, heat treated, bright polish

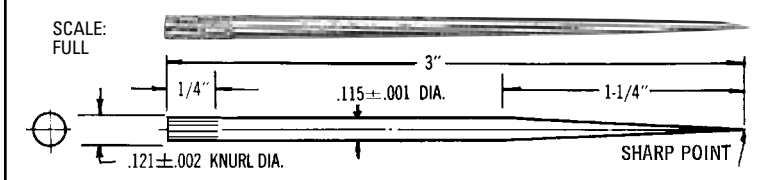


PART# SP-163-1.625-468-KH

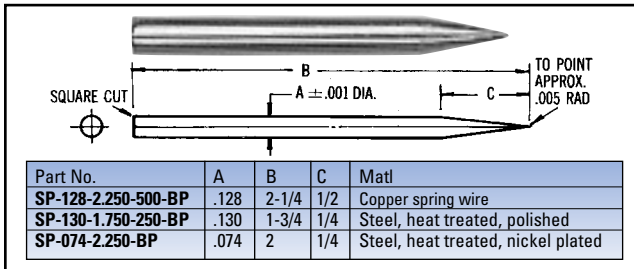
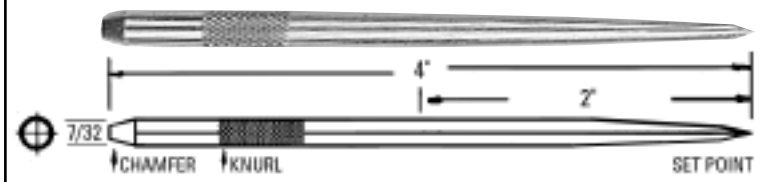
MATL: steel, heat treated, bright polish finish



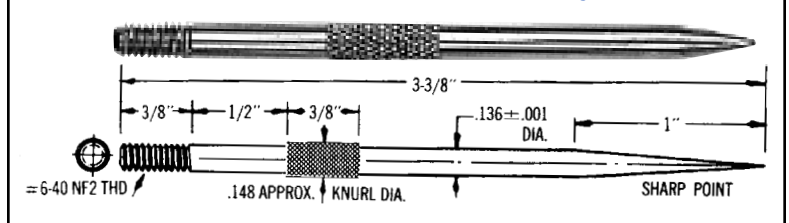
PART# SP-115-3-1.250-KH MATL: steel, heat treated, bright polish



PART# SCRIBER MO-2 MATL: steel, heat treated

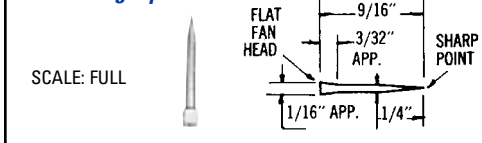


PART# SP-136-3.375-1-TB-IN MATL: Steel, heat treated, bright



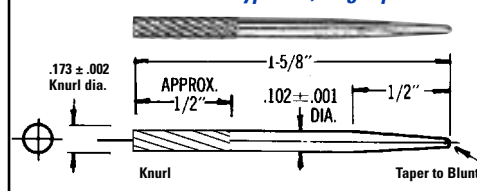
PART# SP-041-562-250-FH

MATL: steel, heat treated bright polish



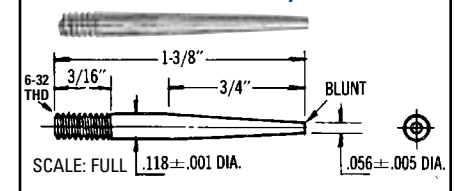
PART# SP-102-1.625-500-KH

MATL: stainless steel type 316, bright polish

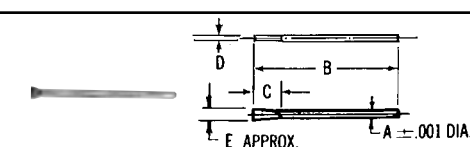
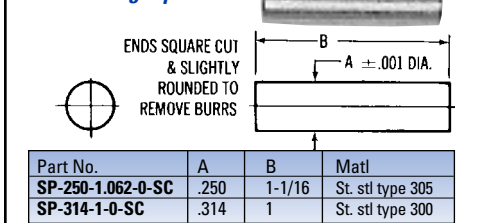


PART# SP-118-1.375-750-TH

MATL: steel, heat treated, polished

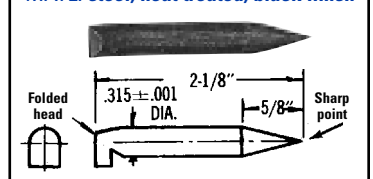


FINISH: bright polish



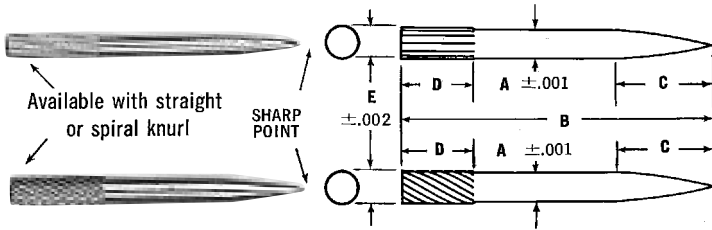
PART# SP-315-2.125-625-FH

MATL: steel, heat treated, black finish



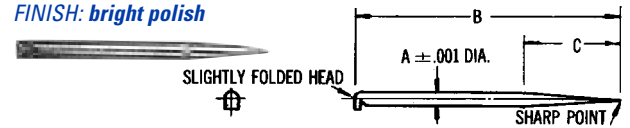
SPECIAL PINS — STOCK OR TOOLED TO MAKE

FINISH: bright polish



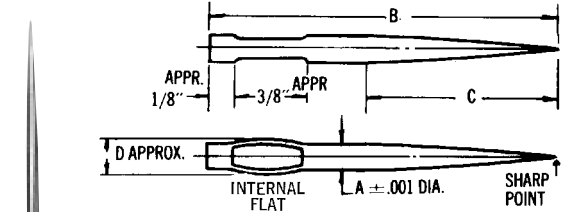
Part No.	A	B	C	D	E	Matl
SP-127-1.625-625-KH	.127	1 5/8	5/8	5/16	.132	Stainless steel type 420
SP-130-1.625-625-KH	.130	1 5/8	5/8	1/2	.135	Stainless steel type 316
SP-130-1.750-468-KH	.130	1 3/4	15/32	1/2	.135	Stainless steel type 316
SP-130-1.750-500-KH	.130	1 3/4	1/2	1/2	.135	Stainless steel type 300
SP-130-1.750-625-KH	.130	1 3/4	5/8	1/2	.135	Stainless steel type 316
SP-130-1.750-625-KH	.130	1 3/4	5/8	1/2	.138	High carbon steel
SP-163-1.500-468-KH	.163	1 1/2	15/32	3/8	.175	Stainless steel type 316
SP-163-1.625-625-KH	.163	1 5/8	5/8	3/8	.175	K-monel
SP-163-1.750-625-KH	.163	1 3/4	5/8	1/2	.250	Stainless steel type 316
SP-193-3.125-1-KH	.193	3 1/8	1	1/2	.250	Stainless steel type 316

FINISH: bright polish



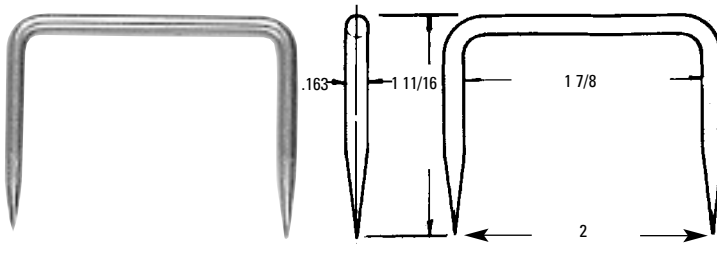
Part No.	A	B	C	Matl
SP-072-1.375-500-FH	.072	1-3/8	1/2	Stainless steel-soft
SP-078-4-2-FH	.078	4	2	Stainless steel-soft
SP-093-3-1.500-FH	.093	3	1-1/2	Steel, heat treated
SP-093-3-1.750-FH	.093	3	1-3/4	Steel, heat treated
SP-093-3-1.812-FH	.093	3	1-13/16	Steel, heat treated

MATL: steel, heat treated, bright polish

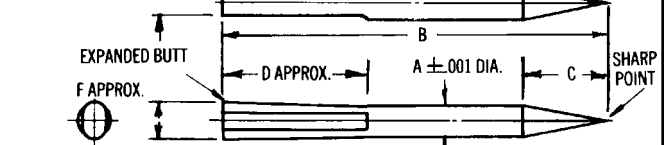


Part No.	A	B	C	D
SP-093-2-750-IF	.093	2	3/4	7/64
SP-147-1.812-1-IF	.147	1-13/16	1	5/32
SP-176-2-750-IF	.176	2	3/4	.216

PART# U-19 MATL: steel, heat treated

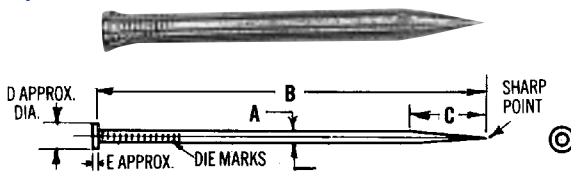


MATL: type 304 stainless steel



Part No.	A	B	C	D	E	F
SP-102-1.156-375-EB	.102	1-5/32	3/8	5/16	3/32	7/64
SP-102-1.218-375-EB	.102	1-7/32	3/8	5/16	3/32	7/64
SP-167-1.625-375-EB	.167	1-5/8	3/8	9/32	9/64	1/8
SP-176-2-437-EB	.176	2	7/16	3/4	9/64	3/16
SP-176-2.750-750-EB	.176	2-3/4	3/4	3/4	9/64	3/16

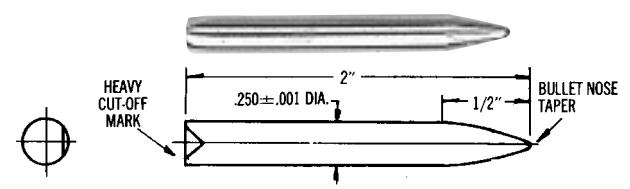
FINISH: bright polish



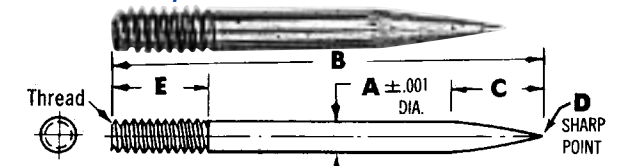
Part No.	A	B	C	D	E	Matl
SP-062-2.000-250-NH	.062	2	1/4	.128	1/32	Steel, heat treated
SP-064-2.375-250-NH	.064	2-3/8	1/4	.128	1/32	Steel, heat treated
SP-068-2.250-750-NH	.068	2	3/8	.128	1/32	Steel, heat treated
SP-069-1.500-250-NH	.069	1-1/2	1/4	.120	1/32	Steel, heat treated
SP-070-1.500-250-NH	.070	1-1/2	1/4	.130	3/64	Steel, heat treated
SP-102-1.375-375-NH	.102	1-3/8	3/8	.160	1/32	K-monel
SP-102-1.500-312-NH	.102	1-1/2	5/16	.140	1/32	Steel, heat treated
SP-102-1.500-375-NH	.102	1-1/2	3/8	.165	1/32	Basic steel, soft
SP-102-1.500-375-NH	.102	2	3/8	.140	1/32	Steel, heat treated
SP-104-2.375-NH	.102	2	1/4	.140	3/64	Steel, heat treated
SP-115-2.000-468-NH	.115	2	1 5/32	.155	3/64	Steel, heat treated
SP-117-2.000-468-NH	.117	2	15/32	.155	3/64	Steel, heat treated
SP-125-1.375-375-NH	.125	1-3/8	3/8	.156	3/64	Steel, heat treated
SP-130-2.000-100-NH	.130	2	1	.190	3/64	Steel, heat treated
SP-141-1.375-500-NH	.141	1-3/8	1/2	.203	3/64	Steel, heat treated
SP-146-2.500-812-NH	.146	2	7/16	.218	1/32	Steel, heat treated
SP-146-2.500-812-NH	.146	2-1/2	13/16	13/64	1/32	Steel, heat treated
SP-163-1.750-750-NH	.163	1-3/4	3/4	.235	3/64	Steel, heat treated
SP-163-1.750-750-NH	.163	1-3/4	13/16	7/32	3/32	Steel, heat treated
SP-187-1.625-375-NH	.187	1-5/8	3/8	7/32	3/32	304 stainless steel

PART# SP-250-2-500-CM-BN
MATL: steel, heat treated, bright polish finish

SCALE: FULL



MATL: steel, soft-polished



Part No.	A	B	C	D	E	Thread
SP-167-2.250-500-TB	.167	2-1/4	1/2	Taper to sharp point	7/16	10-32
SP-250-3-875-TB	.250	3	7/8		3/16	1/4-20
SP-116-2.375-500-TB	.116	2-3/8	1/2		3/16	6-32
SP-158-2-500-TB	.158	2	1/2		3/16	10-24

MATL: steel, heat treated, bright polish finish

Part No.	A	B	C
SP-125-3.250-1.250-RN	.125	3 1/4	1 1/4
SP-156-3.500-312-RN	.156	4 5/8	5/16

PART# SP-110-2-1.125-BE
MATL: steel, heat treated, bright polish

MATL: music wire

Part No.	A	B	C
B-200	.050	10	3/32
B-203	.063	7	3/16
A-1	.063	9	3/32
B-210	.063	10	5/32
B-220	.083	10	5/32

Part No.	A	B	C
B-224	.093	7	3/16
A-2	.093	9	3/32
B-230	.093	10	5/32
B-238	.125	7	3/16
B-240	.125	10	3/16

PART# SP-187-2 **MATL: stainless steel type 420, heat treated, bright polish**

SCALE: FULL

Part No.	A	B	C	Matl
SP-078-3.500-1.750-EB	.078	3-1/2	1-3/4	Copper spring wire
SP-078-4.000-1.750-EB	.078	4	1-3/4	Steel, heat treated
SP-102-4.000-2.812-SB	.102	4	2-13/16	Steel, heat treated

MATL: stainless steel bright polish

Part No.	A	B	C	D	E	F
SP-034-363-140-IF	.034	.363	19/64	7/64	1/16	.017
SP-037-539-295-IF	.037	.539	19/64	3/32	1/16	.012

MATL: steel, heat treated, bright polish

Part No.	A	B	C	D
SP-048-1.468-BE	.048	1	5/16	15/32
SP-078-1-125-BE	.078	1	5/16	1/8
SP-130-3.500-500-BE	.130	3-1/2	5/8	1/2
SP-130-3-875-BE	.130	3	1/2	7/8
SP-125-6.375-1.500-BE	.125	6-3/8	1-3/8	1-1/2

PART# SP-176-4-3.500-BT **MATL: steel, heat treated, bright polish**

PART# SP-156-5.625-1.125-KH
MATL: stainless steel type 430

PART# SP-047-1.500-375-EB **MATL: steel, heat treated, bright finish**

SCALE: FULL

PART# SP-219-4.375-2.500-WB **MATL: steel, heat treated, bright polish**

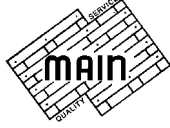
MATL: steel, heat treated, polish

Part No.	A	B	C	D	E	F
SP-081-625-187-EB	.081	5/8	3/16	1/8	1/8	3/64
SP-082-750-187-EB	.082	3/4	3/16	1/8	3/32	3/64
SP-135-562-250-EB	.135	9/16	1/4	1/8	5/32	7/64
SP-135-1.250-437-EB	.135	1-1/4	7/16	1/8	5/32	7/64

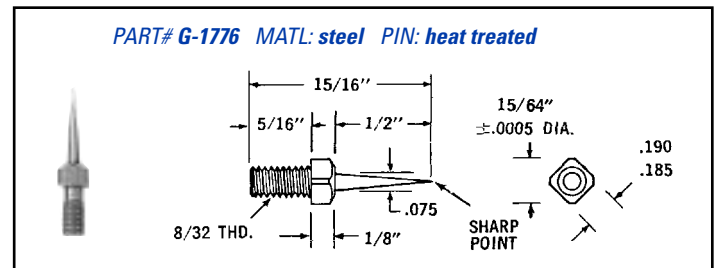
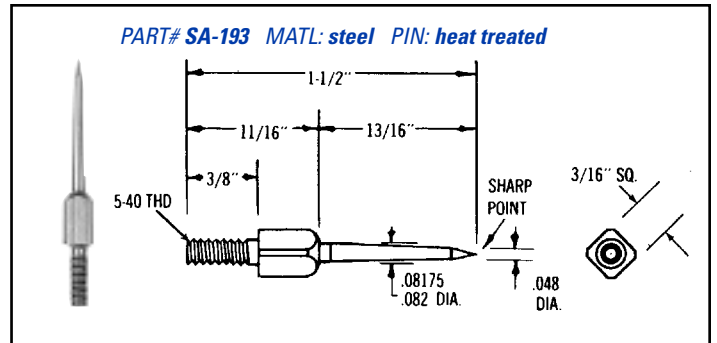
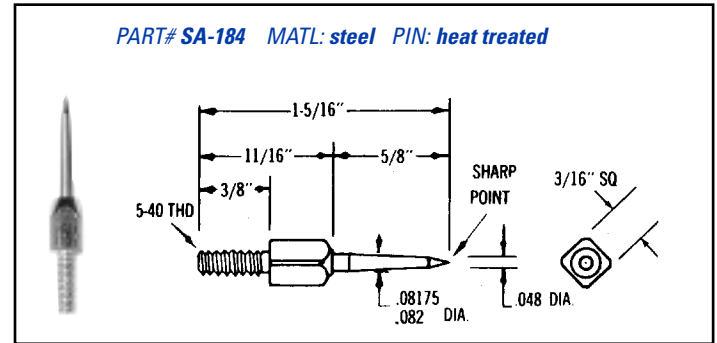
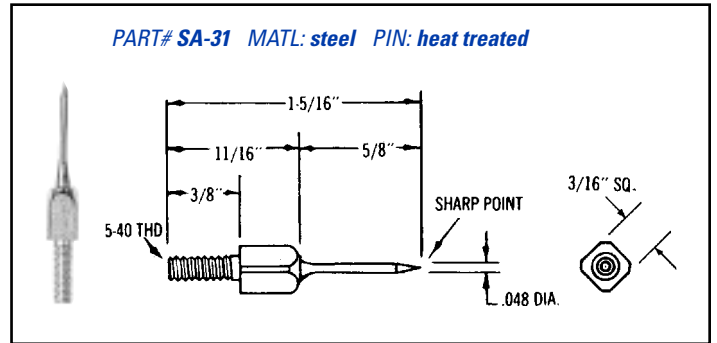
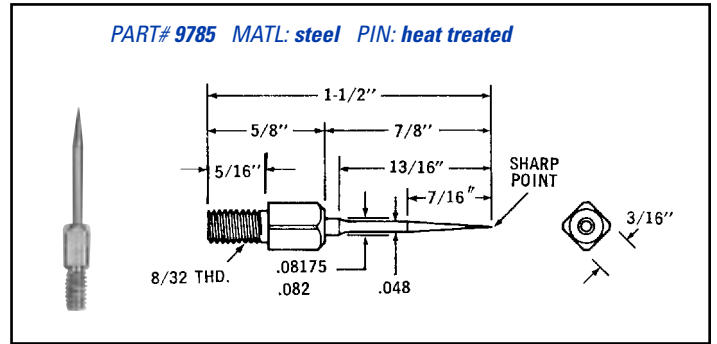
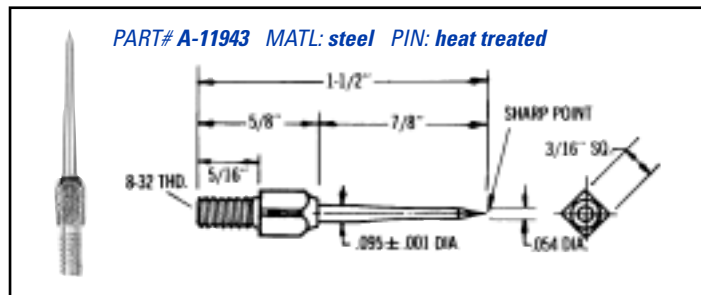
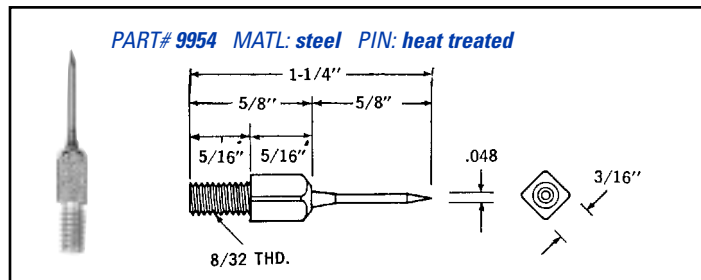
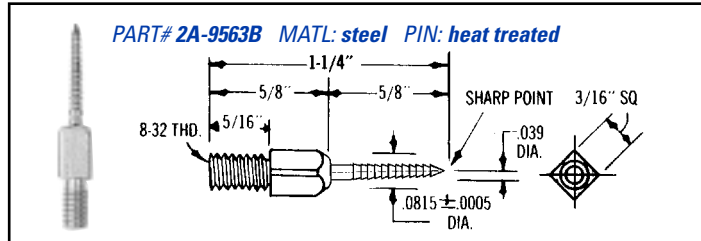
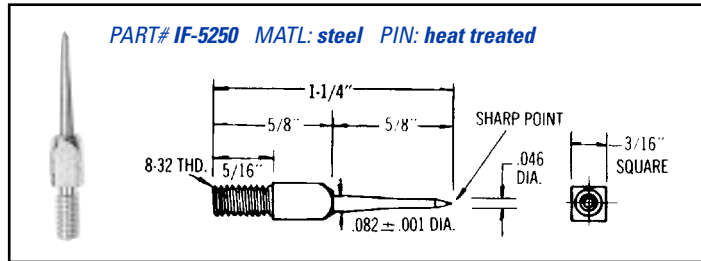
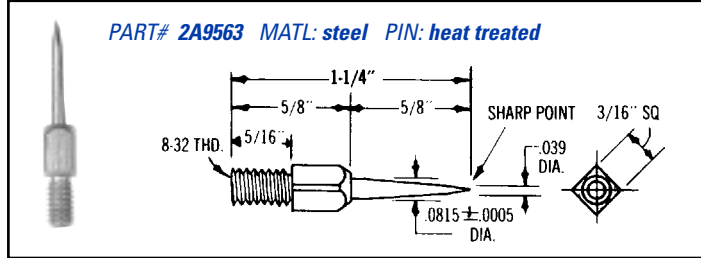
REGULAR, SHARP POINTED PINS

**WE HAVE
YOUR
POINTS FOR
FOLDERS OR
PERFORATING.**

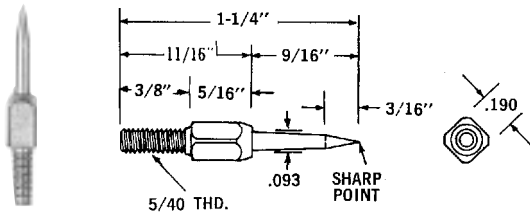
Robert A. Main & Sons, Inc.



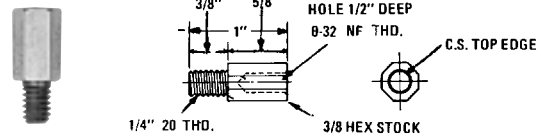
**Tel: 201-447-3700
Fax: 201-447-0302**



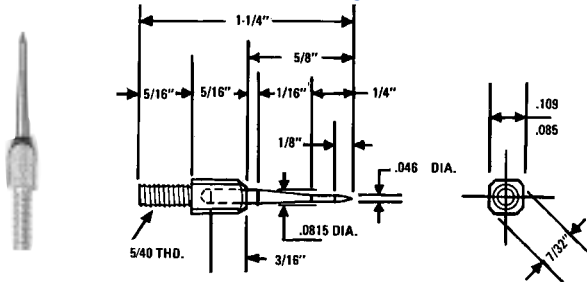
PART# SA-211 MATL: steel PIN: heat treated



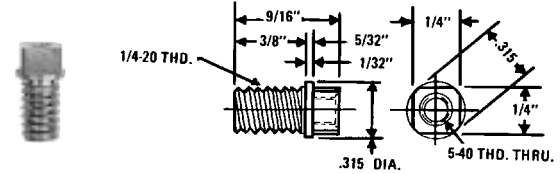
PART# 11063 MATL: steel, bright finish



PART# B-113564 MATL: steel (bright finish)



PART# 10990 MATL: steel Base for SA-31 point

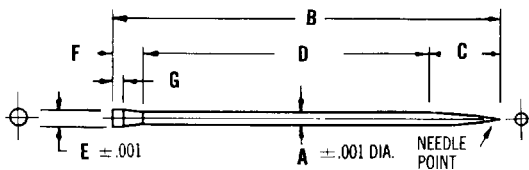


PART# M150 inserting tool



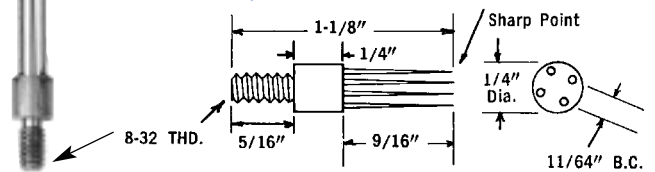
Tool is made to insert all 3/16" square 2 piece pins.

PARTS 573 & 575 fit in collet #2 MATL: steel, heat treated, clean finish
PARTS 598 & 599 fit in collet #3

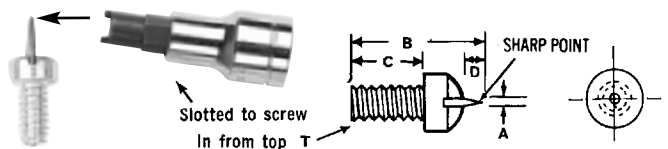


Part No.	A	B	C	D	E	F	G
SA-569	.064	2	1/4	1-1/2	.078	3/16	1/16
SA-573	.068	1-13/16	5/16	1-11/32	.078	3/32	1/16
SP-SA-575	.068	1-15/16	5/16	1-15/32	.078	5/32	1/16
SP-SA-598	.084	1-15/16	5/16	1-15/32	.094	5/32	1/16
SP-SA-599	.084	2	5/16	1-17/32	.094	5/32	1/16

PART# BP-10437 (4 pins) MATL: pins & base-heat treated steel
BP-10536 (3 pins)

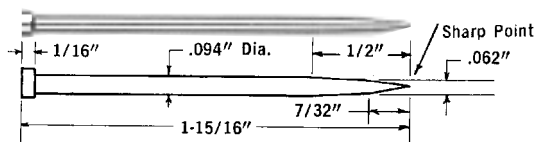


MATL: steel PIN: heat treated

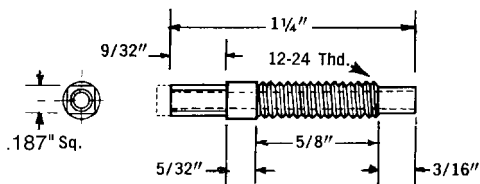


Part No.	A	B	C	D	T
8300	.063	11/16"	7/16"	3/16"	20-24x3/8 Fillister hd.
SP-700	.063	7/8"	3/8"	1/4"	10-24 Fillister hd.
SP-715	.063	1"	1/2"	7/32"	1/4-20 Fillister hd.
8375	.063	1"	3/8"	3/8"	10-24 Fillister hd.

PART# 10732 (fits in collet #6) MATL: steel, heat treated

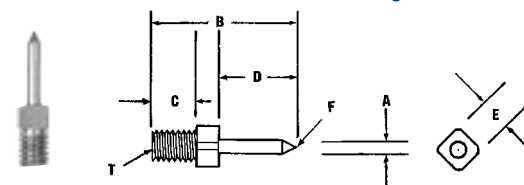


PART: pin holding collet MATL: steel, heat treated



Order collet #2 for .068 dia. pins/ #3 for .084 dia. pins/ #6 for .094 dia. pins

MATL CENTER PIN: music wire, bright finish



Part No.	A	B	C	D	E	F	T
3730-D-728-A	.080	13/16	1/4	7/16	3/16	Sharp, renewable point	10/32
3730-D-728-B	.062	13/16	1/4	7/16	3/16		

REGULAR, SHARP POINTED PINS

MATL: steel PIN: heat treated

Part No.	A	B	C	D	E	T
UB-7280	.040	13/16	1/2	5/16	1/8	1/4-20
WV-30-1	.063	3/4	1/2	1/4	1/8	
WV-60-1	.063	13/16	1/2	5/16	1/8	
WV-13-3	.063	7/8	1/2	3/8	1/8	
WV-31-4	.093	3/4	1/2	1/4	1/8	
WV-25-1	.093	13/16	1/2	5/16	1/8	
WV-12-3	.093	7/8	1/2	3/8	1/8	
WV-79	.093	3/4	1/2	1/4	1/8	
WV-23-1	.125	13/16	1/2	5/16	1/8	
WV-11-3	.125	7/8	1/2	3/8	1/8	
WV-70-1	.156	3/4	1/2	1/4	1/8	
WV-80-1	.156	7/8	1/2	3/8	1/4	

MATL: steel PIN: heat treated

Part No.	A	B	C	D	E	T
CC-3	.048	5/8	1/4	1/4	1/16	1/4-28
CP-198	.048	3/4	3/8	1/4	3/16	1/4-28
WV-20	.062	11/16	1/4	5/16	1/8	1/4-20
1Y	.078	5/8	1/4	1/4	1/4	1/4-28
1W	.078	9/16	1/4	3/16	3/16	1/4-28
CC-2	.093	5/8	1/4	11/4	1/8	1/4-28
1-SP	.093	17/32	1/4	5/32	1/8	1/4-28
1-S	.093	9/16	1/4	3/16	1/8	1/4-28
WN-83	.093	11/16	1/4	5/16	1/8	1/4-20
1-L	.093	11/16	1/4	5/16	1/8	1/4-28
CC-1	.125	5/8	1/4	1/4	1/8	1/4-28
WV-01-03	.125	11/16	1/4	5/16	1/8	1/4-28

MATL: steel PIN: heat treated

Part No.	A	B	C	D	E	T
UB-58	.058	3/4	1/2	1/4	1/16	1/4-20
WV-56-1	.093	3/4	1/2	1/4	3/16	1/4-20
IP-48	.093	13/16	1/2	5/16	1/8	10-32
UB-12-24-375	.125	11/16	3/8	5/16	1/4	12-24
WV-24-1	.125	15/16	5/8	5/16	3/16	1/4-20
WV-24-6	.125	1	1/2	1/2	1/8	5/16-18

MATL: steel PIN: heat treated

Part No.	A	B	C	D	E	T
TP-57	.060	3/4	1/2	1/4	Taper to sharp point	1/4-20
IP-14	.060	3/4	1/2	1/4		3/8-16
KCTP-58	.062	3/4	1/2	1/4		1/4-20
TP-59	.065	5/8	3/8	1/4		1/4-20
TP-58	.093	3/4	1/2	1/4		1/4-20
PT-55	.125	7/8	3/8	1/2		1/2-13

MATL: steel PIN: heat treated

Part No.	A	B	C	D	E	F	G	T
65-A-131	.062	3/4	3/8	7/32	1/8	17/32	5/32	1/4-20
65-A-131-1	.093	3/4	3/8	7/32	1/8	17/32	5/32	1/4-20
65-A-131-2	.125	3/4	3/8	7/32	1/8	17/32	5/32	1/4-20

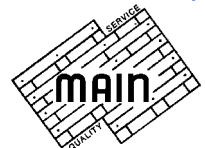
PART # NPT-57 MATL: steel PIN: heat treated

PART "S-W" **PART "N-D"**

Socket type insert tool for 3/8" drive socket wrench

Screw driver handle type insert tool to use in inserting our 2 piece pin assemblies.

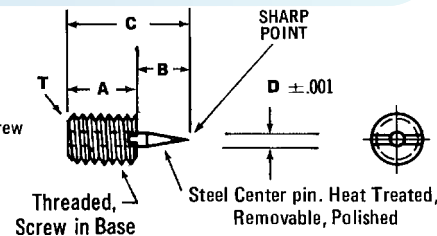
Robert A. Main & Sons, Inc.



Tel: 201-447-3700
Fax: 201-447-0302

READY TO SHIP TO YOU IMMEDIATELY

Listed below are the various sizes of 2 piece, slotted-top, sharp point pin combinations. Special sizes can be made to your specifications. Base available in steel, stainless steel, nonferrous metals and plastic.



PART NO.	A	B	C	D	T
SS-10	1/4	1/4	1/2	.041	10-32
SS-18	1/4	5/16	9/16	.041	10-32
SS-28	1/4	3/8	5/8	.041	10-32
SS-37	1/4	7/16	11/16	.041	10-32
SS-47	1/4	1/2	3/4	.041	10-32
SS-54	3/8	1/4	5/8	.041	10-32
SS-62	3/8	5/16	11/16	.041	10-32
SS-71	3/8	3/8	3/4	.041	10-32
SS-81	3/8	7/16	13/16	.041	10-32
SS-90	3/8	1/2	7/8	.041	10-32
SS-98	1/2	1/4	3/4	.041	10-32
SS-108	1/2	5/16	13/16	.041	10-32
SS-116	1/2	3/8	7/8	.041	10-32
SS-125	1/2	7/16	15/16	.041	10-32
SS-135	1/2	1/2	1	.041	10-32
SS-143	1/4	1/4	1/2	.063	10-32
SS-151	1/4	5/16	9/16	.063	10-32
SS-158	1/4	3/8	5/8	.063	10-32
SS-168	1/4	7/16	11/16	.063	10-32
SS-177	1/4	1/2	3/4	.063	10-32
SS-185	3/8	1/4	5/8	.063	10-32
SS-192	3/8	5/16	11/16	.063	10-32
SS-202	3/8	3/8	3/4	.063	10-32
SS-211	3/8	7/16	13/16	.063	10-32
SS-221	3/8	1/2	7/8	.063	10-32
SS-230	1/2	1/4	3/4	.063	10-32
SS-238	1/2	5/16	13/16	.063	10-32
SS-247	1/2	3/8	7/8	.063	10-32
SS-257	1/2	7/16	15/16	.063	10-32
SS-266	1/2	1/2	1	.063	10-32
SS-276	1/4	1/4	1/2	.063	1/4-20
SS-285	1/4	5/16	9/16	.063	1/4-20
SS-293	1/4	3/8	5/8	.063	1/4-20
SS-303	1/4	7/16	11/16	.063	1/4-20
SS-312	1/4	1/2	3/4	.063	1/4-20
SS-320	3/8	1/4	5/8	.063	1/4-20
SS-330	3/8	5/16	11/16	.063	1/4-20
SS-339	3/8	3/8	3/4	.063	1/4-20
SS-347	3/8	7/16	13/16	.063	1/4-20
SS-357	3/8	1/2	7/8	.063	1/4-20
SS-366	1/2	1/4	3/4	.063	1/4-20
SS-374	1/2	5/16	13/16	.063	1/4-20
SS-384	1/2	3/8	7/8	.063	1/4-20
SS-393	1/2	7/16	15/16	.063	1/4-20
SS-401	1/2	1/2	1	.063	1/4-20
SS-411	1/4	1/4	1/2	.093	1/4-20
SS-420	1/4	5/16	9/16	.093	1/4-20
SS-429	1/4	3/8	5/8	.093	1/4-20
SS-437	1/4	7/16	11/16	.093	1/4-20
SS-447	1/4	1/2	3/4	.093	1/4-20
SS-456	3/8	1/4	5/8	.093	1/4-20
SS-464	3/8	5/16	11/16	.093	1/4-20
SS-474	3/8	3/8	3/4	.093	1/4-20
SS-483	3/8	7/16	13/16	.093	1/4-20
SS-491	3/8	1/2	7/8	.093	1/4-20
SS-501	1/2	1/4	3/4	.093	1/4-20
SS-510	1/2	5/16	13/16	.093	1/4-20
SS-518	1/2	3/8	7/8	.093	1/4-20
SS-528	1/2	7/16	15/16	.093	1/4-20
SS-537	1/2	1/2	1	.093	1/4-20
SS-547	1/4	1/4	1/2	.125	1/4-20
SS-556	1/4	5/16	9/16	.125	1/4-20
SS-564	1/4	3/8	5/8	.125	1/4-20
SS-574	1/4	7/16	11/16	.125	1/4-20
SS-563	1/4	1/2	3/4	.125	1/4-20
SS-571	3/8	1/4	5/8	.125	1/4-20
SS-581	3/8	5/16	11/16	.125	1/4-20
SS-590	3/8	3/8	3/4	.125	1/4-20
SS-598	3/8	7/16	13/16	.125	1/4-20
SS-608	3/8	1/2	7/8	.125	1/4-20
SS-617	1/2	1/4	3/4	.125	1/4-20
SS-625	1/2	5/16	13/16	.125	1/4-20
SS-635	1/2	3/8	7/8	.125	1/4-20
SS-644	1/2	7/16	15/16	.125	1/4-20
SS-652	1/2	1/2	1	.125	1/4-20
SS-662	1/4	1/4	1/2	.063	1/4-28
SS-671	1/4	5/16	9/16	.063	1/4-28
SS-679	1/4	3/8	5/8	.063	1/4-28
SS-689	1/4	7/16	11/16	.063	1/4-28
SS-698	1/4	1/2	3/4	.063	1/4-28
SS-706	3/8	1/4	5/8	.063	1/4-28
SS-716	3/8	5/16	11/16	.063	1/4-28
SS-725	3/8	3/8	3/4	.063	1/4-28
SS-733	3/8	7/16	13/16	.063	1/4-28
SS-743	3/8	1/2	7/8	.063	1/4-28

PART NO.	A	B	C	D	T
SS-752	1/2	1/4	3/4	.063	1/4-28
SS-760	1/2	5/16	13/16	.063	1/4-28
SS-770	1/2	3/8	7/8	.063	1/4-28
SS-779	1/2	7/16	15/16	.063	1/4-28
SS-787	1/2	1/2	1	.063	1/4-28
SS-797	1/4	1/4	1/2	.093	1/4-28
SS-806	1/4	5/16	9/16	.093	1/4-28
SS-814	1/4	3/8	5/8	.093	1/4-28
SS-824	1/4	7/16	11/16	.093	1/4-28
SS-833	1/4	1/2	3/4	.093	1/4-28
SS-841	3/8	1/4	5/8	.093	1/4-28
SS-851	3/8	5/16	11/16	.093	1/4-28
SS-860	3/8	3/8	3/4	.093	1/4-28
SS-868	3/8	7/16	13/16	.093	1/4-28
SS-877	3/8	1/2	7/8	.093	1/4-28
SS-887	1/2	1/4	3/4	.093	1/4-28
SS-896	1/2	5/16	13/16	.093	1/4-28
SS-904	1/2	3/8	7/8	.093	1/4-28
SS-914	1/2	7/16	15/16	.093	1/4-28
SS-923	1/2	1/2	1	.093	1/4-28
SS-931	1/4	1/4	1/2	.125	1/4-28
SS-941	1/4	5/16	9/16	.125	1/4-28
SS-950	1/4	3/8	5/8	.125	1/4-28
SS-958	1/4	7/16	11/16	.125	1/4-28
SS-968	1/4	1/2	3/4	.125	1/4-28
SS-977	3/8	1/4	5/8	.125	1/4-28
SS-985	3/8	5/16	11/16	.125	1/4-28
SS-995	3/8	3/8	3/4	.125	1/4-28
SS-1004	3/8	7/16	13/16	.125	1/4-28
SS-1014	3/8	1/2	7/8	.125	1/4-28
SS-1023	1/2	1/4	3/4	.125	1/4-28
SS-1031	1/2	5/16	13/16	.125	1/4-28
SS-1041	1/2	3/8	7/8	.125	1/4-28
SS-1050	1/2	7/16	15/16	.125	1/4-28
SS-1058	1/2	1/2	1	.125	1/4-28
SS-1068	1/4	1/4	1/2	.063	5/16-24
SS-1077	1/4	5/16	9/16	.063	5/16-24
SS-1085	1/4	3/8	5/8	.063	5/16-24
SS-1095	1/4	7/16	11/16	.063	5/16-24
SS-1104	1/4	1/2	3/4	.063	5/16-24
SS-1112	3/8	1/4	5/8	.063	5/16-24
SS-1121	3/8	5/16	11/16	.063	5/16-24
SS-1129	3/8	3/8	3/4	.063	5/16-24
SS-1139	3/8	7/16	13/16	.063	5/16-24
SS-1148	3/8	1/2	7/8	.063	5/16-24
SS-1156	1/2	1/4	3/4	.063	5/16-24
SS-1166	1/2	5/16	13/16	.063	5/16-24
SS-1175	1/2	3/8	7/8	.063	5/16-24
SS-1183	1/2	7/16	15/16	.063	5/16-24
SS-1193	1/2	1/2	1	.063	5/16-24
SS-1202	1/4	1/4	1/2	.093	5/16-24
SS-1210	1/4	5/16	9/16	.093	5/16-24
SS-1220	1/4	3/8	5/8	.093	5/16-24
SS-1229	1/4	7/16	11/16	.093	5/16-24
SS-1237	1/4	1/2	3/4	.093	5/16-24
SS-1245	3/8	1/4	5/8	.093	5/16-24
SS-1255	3/8	5/16	11/16	.093	5/16-24
SS-1264	3/8	3/8	3/4	.093	5/16-24
SS-1272	3/8	7/16	13/16	.093	5/16-24
SS-1282	3/8	1/2	7/8	.093	5/16-24
SS-1291	1/2	1/4	3/4	.093	5/16-24
SS-1299	1/2	5/16	13/16	.093	5/16-24
SS-1309	1/2	3/8	7/8	.093	5/16-24
SS-1318	1/2	7/16	15/16	.093	5/16-24
SS-1326	1/2	1/2	1	.093	5/16-24
SS-1336	1/4	1/4	1/2	.125	5/16-24
SS-1345	1/4	5/16	9/16	.125	5/16-24
SS-1353	1/4	3/8	5/8	.125	5/16-24
SS-1363	1/4	7/16	11/16	.125	5/16-24
SS-1372	1/4	1/2	3/4	.125	5/16-24
SS-1380	3/8	1/4	5/8	.125	5/16-24
SS-1390	3/8	5/16	11/16	.125	5/16-24
SS-1399	3/8	3/8	3/4	.125	5/16-24
SS-1419	3/8	7/16	13/16	.125	5/16-24
SS-1428	3/8	1/2	7/8	.125	5/16-24
SS-1436	1/2	1/4	3/4	.125	5/16-24
SS-1446	1/2	5/16	13/16	.125	5/16-24
SS-1455	1/2	3/8	7/8	.125	5/16-24
SS-1464	1/2	7/16	15/16	.125	5/16-24
SS-1473	1/2	1/2	1	.125	5/16-24
SS-1483	1/4	1/4	1/2	.063	3/8-24
SS-1492	1/4	5/16	9/16	.063	3/8-24
SS-1500	1/4	3/8	5/8	.063	3/8-24
SS-1510	1/4	7/16	11/16	.063	3/8-24
SS-1519	1/4	1/2	3/4	.063	3/8-24

PART NO.	A	B	C	D	T
SS-1528	3/8	1/4	5/8	.063	3/8-24
SS-1536	3/8	5/16	11/16	.063	3/8-24
SS-1546	3/8	3/8	3/4	.063	3/8-24
SS-1555	3/8	7/16	13/16	.063	3/8-24
SS-1564	3/8	1/2	7/8	.063	3/8-24
SS-1574	1/2	1/4	3/4	.063	3/8-24
SS-1583	1/2	5/16	13/16	.063	3/8-24
SS-1592	1/2	3/8	7/8	.063	3/8-24
SS-1600	1/2	7/16	15/16	.063	3/8-24
SS-1609	1/2	1/2	1	.063	3/8-24
SS-1619	1/4	1/4	1/2	.093	3/8-24
SS-1628	1/4	5/16	9/16	.093	3/8-24
SS-1635	1/4	3/8	5/8	.093	3/8-24
SS-1641	1/4	7/16	11/16	.093	3/8-24
SS-1651	1/4	1/2	3/4	.093	3/8-24
SS-1660	3/8	1/4	5/8	.093	3/8-24
SS-1669	3/8	5/16	11/16	.093	3/8-24
SS-1677	3/8	3/8	3/4	.093	3/8-24
SS-1684	3/8	7/16	13/16	.093	3/8-24
SS-1690	3/8	1/2	7/8	.093	3/8-24
SS-1700	1/2	1/4	3/4	.093	3/8-24
SS-1709	1/2	5/16	13/16	.093	3/8-24
SS-1717	1/2	3/8	7/8	.093	3/8-24
SS-1724	1/2	7/16	15/16	.093	3/8-24
SS-1730	1/2	1/2	1	.093	3/8-24
SS-1740	1/4	1/4	1/2	.125	3/8-24
SS-1749	1/4	5/16	9/16	.125	3/8-24
SS-1757	1/4	3/8	5/8	.125	

SOLID POINTS

PART# PT 02014 MATL: *stainless steel*

PART# 11330 MATL: *steel*

MATL: *steel*

Part No.	A	B	C	D	E	F
11351	.148	.060	1.535	.079	.250	None
11377	.148	.060	1.38	.078	.250	Radius groove

PART# 10898 MATL: *steel finish: bright*

PART# CC 100 MATL: *steel heat treated (finish: clean)*

PART# RB-29 MATL: *5/16" square steel, heat treated*

PART# J-211 MATL: *steel, heat treated*

PART# .007-B MATL: *steel, bright finish*

PART# 02172-1 MATL: *stainless steel finish bright*

PART# 7200-18 MATL: *aluminum*

PART# A11334 MATL: *steel, heat treated*

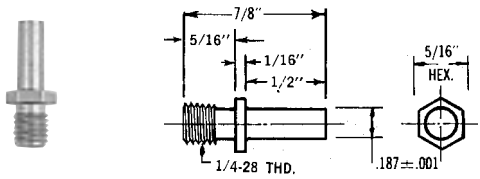
MATL: *steel*

Part No.	A	B	C	D
A11332	.060	.040	.028	.570
A11333	.060	.033	.028	.570

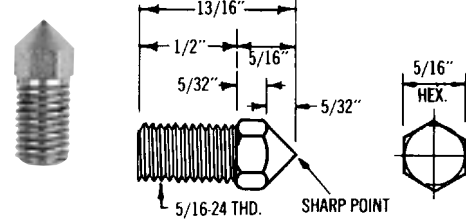
PART# DP-100 MATL: *steel, heat treated*

PART# SE-31 MATL: *titanium*

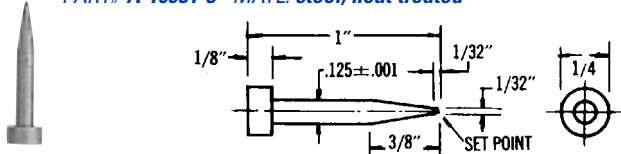
PART# US-70 MATL: steel, heat treated



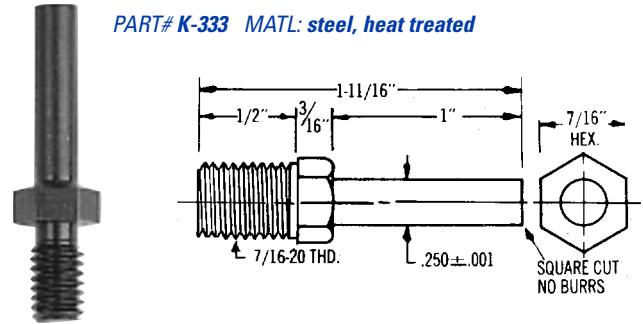
PART# PT-33 MATL: steel, heat treated



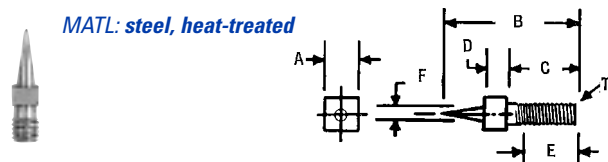
PART# A-10931-3 MATL: steel, heat treated



PART# K-333 MATL: steel, heat treated

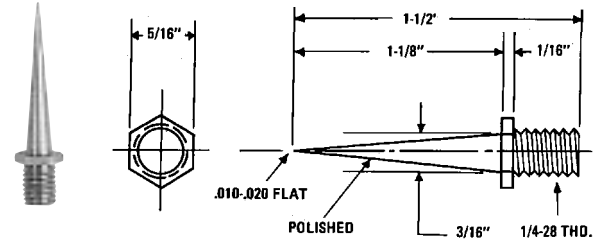


MATL: steel, heat-treated

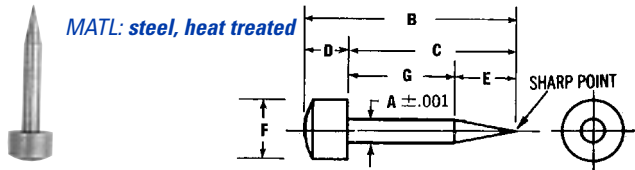


Part No.	A	B	C	D	E	F	T
10812	3/16	23/32	3/8	1/8	5/16	.060	5-40
11159	3/16	27/32	1/2	3/32	—	1/8	5.44NF
11200	3/16	27/32	1/2	1/8	—	1/8	8-32NC

PART# 10898-A MATL: steel, heat treated

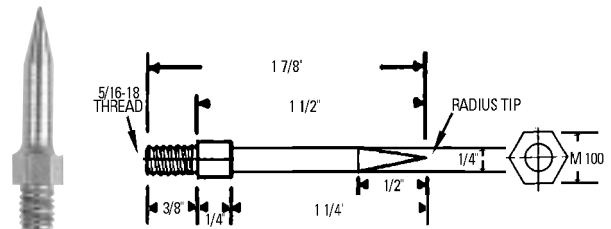


MATL: steel, heat treated

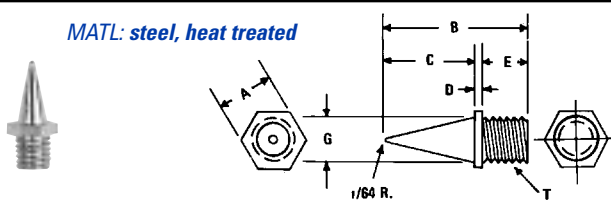


Part No.	A	B	C	D	E	F	G
US-62	.125	1-3/32	7/8	7/32	5/16	5/16	9/16
AM-290	.070	.326	.191	.045	.090	.125	.191
10027	.094	.345	.310	.035	.165	3/16	.145

PART# FR-314 MATL: steel, heat treated or stainless steel



MATL: steel, heat treated

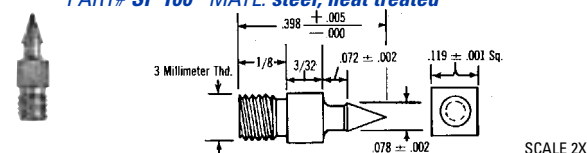


Part No.	A	B	C	D	E	G	T
DA-1	5/16	1.080	3/4	.080	1/4	.250	1/4-28
DA-2	5/16	.955	5/8	.080	1/4	.250	1/4-28
2	5/16	39/64	5/16	1/16	7/32	.150	1/4-28
102	5/16	.767	7/16	.080	1/4	.187	1/4-28
FR-314	5/16	3/4	7/16	1/16	1/4	.125	1/4-28
313 A	5/16	5/32	25/64	5/64	13/64	.187	1/4-28
HH-3111	1/4	49/64	7/16	5/64	1/4	.187	1/4-28

MATL: steel, heat treated

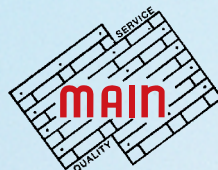
Part No.	A	B	C	D	E	T
1/8 HEX	1/8	3/4	3/8	3/8	3/16	5/40
5-P.	1/8	15/32	5/16	5/32	3/16	5/40
4	3/16	1/2	1/4	1/4	3/16	10/24
1/4 HEX	1/4	1-3/8	13/16	9/16	9/32	1/4-28
5/16 HEX	5/16	1-5/8	15/16	11/16	5/16	5/16-24
75	5/16	2	1	1	1/2	5/16-24
3/8 HEX	3/8	1-5/8	7/8	3/4	1/2	3/8-24
3	3/16	3/4	3/16	3/8	3/16	10-24

PART# SP 100 MATL: steel, heat treated





Fishing Gaff Hooks • Ice Choppers • Points • Stack Pins • Ventilation Pins • Meat Board Pins • Fork Tines • Cake Cutter Pins • Sewing Awls • Wire Cable Pins • Ice Pick Blades • Awls • H



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