

# MACHINED HIGH TECHNOLOGY PLASTIC MACHINE SCREWS

\*Available in other materials. See material list in index.  
Other sizes available on request.

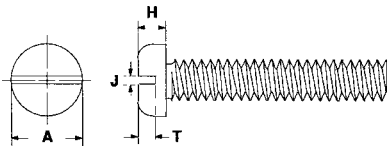
\*Available in the following materials:

|                          |                      |                          |                      |                          |   |                          |  |
|--------------------------|----------------------|--------------------------|----------------------|--------------------------|---|--------------------------|--|
| <b>Material Code No.</b> | <b>Material Name</b> | <b>Material Code No.</b> | <b>Material Name</b> | <b>Material Code No.</b> | <b>Material Name</b>                        | <b>Material Code No.</b> | <b>Material Name</b>   |
| -3                       | Lexan®, (clear)      | -27                      | PVC                  | -40                      | PFA, (Teflon®)                              | -195                     | Nylon 46, 30% Glass-filled, Flame Retardant, Heat Stabilized |
| -4                       | Lexan®, (black)      | -28                      | CPVC                 | -41                      | Halar®                                      | -213                     | VespeI®  |
| -5                       | Ultem® 1000          | -29                      | Teflon®              | -60                      | Nylon 6/6, 30% Short Glass-filled           | -272                     | PVC, (white)   |
| -11                      | Polypropylene        | -30                      | Tefzel®              | -64                      | Delrin®, 25% Short Glass-filled             | -273                     | PVC, (black)   |
| -13                      | Polyethylene         | -32                      | PCTFE                | -77                      | Ultem® 2300, (natural)                      | -226                     | Radel® A200, Polyethersulfone                                |
| -14                      | ABS                  | -33                      | Polysulfone          | -78                      | Nylon 6/6, (black)                          | -228                     | Radel® AG330, 30% Glass-filled                               |
| -15                      | PEEK™                | -35                      | Noryl®               | -194                     | Nylon 46, 30% Glass-filled, Heat Stabilized | -229                     | Radel® R5000, Polyphenylsulfone                              |
| -18                      | Nylon 6/6, (natural) | -37                      | PvDF                 |                          |   |                          |  |
| -23                      | Nylon Super Tough    | -38                      | Fiber Glass G10      |                          |   |                          |  |
| -24                      | Delrin®, (white)     | -39                      | UHMW®                |                          |   |                          |  |

(Part No.) - (Size Code No.) - (Material Code No.)  
(below) (page 148) (above)

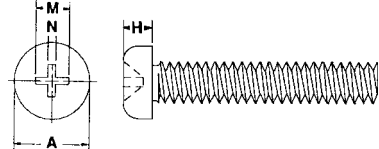
*Machine screws under 1" are fully threaded.  
Machine screws over 1" can be fully threaded on request.*

## PAN HEAD SLOTTED Part No. D232 -

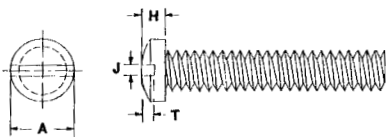


| Thread Size | A     | H    | J    | T    | M    | N    |
|-------------|-------|------|------|------|------|------|
| 0           | .110  | .035 | .020 | .018 | .071 | .022 |
| 1           | .136  | .042 | .023 | .023 | .084 | .024 |
| 2           | .161  | .049 | .027 | .026 | .103 | .027 |
| 3           | .186  | .055 | .031 | .031 | .119 | .029 |
| 4           | .212  | .063 | .035 | .035 | .136 | .032 |
| 5           | .238  | .070 | .039 | .039 | .152 | .034 |
| 6           | .263  | .077 | .043 | .043 | .169 | .037 |
| 8           | .314  | .091 | .049 | .051 | .200 | .041 |
| 10          | .365  | .105 | .055 | .060 | .232 | .046 |
| 12          | .416  | .118 | .061 | .069 | .263 | .051 |
| 1/4         | .482  | .137 | .069 | .078 | .309 | .058 |
| 5/16        | .604  | .170 | .078 | .095 | .386 | .069 |
| 3/8         | .728  | .204 | .087 | .112 | .468 | .081 |
| 7/16        | .850  | .237 | .087 | .129 | .544 | .093 |
| 1/2         | .973  | .270 | .098 | .146 | .617 | .104 |
| 9/16        | 1.020 | .304 | .110 | .163 | .625 | .105 |
| 5/8         | 1.148 | .337 | .124 | .180 | .625 | .105 |
| 3/4         | 1.405 | .404 | .140 | .213 | .625 | .105 |

## PAN HEAD PHILLIPS Part No. D232J -

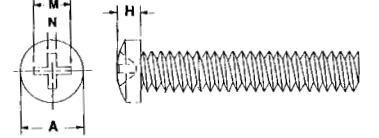


## BINDING HEAD SLOTTED Part No. D230 -

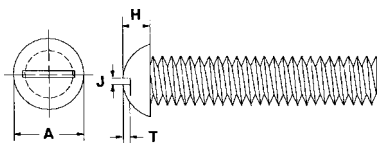


| Thread Size | A    | H    | J    | T    | M    | N    |
|-------------|------|------|------|------|------|------|
| 0           | .122 | .030 | .019 | .013 | .078 | .023 |
| 1           | .149 | .038 | .022 | .019 | .092 | .025 |
| 2           | .176 | .046 | .026 | .025 | .112 | .028 |
| 3           | .202 | .055 | .031 | .030 | .130 | .031 |
| 4           | .229 | .064 | .034 | .036 | .147 | .034 |
| 5           | .256 | .074 | .039 | .041 | .165 | .036 |
| 6           | .282 | .083 | .043 | .046 | .183 | .039 |
| 8           | .335 | .100 | .049 | .057 | .216 | .044 |
| 12          | .442 | .135 | .061 | .079 | .239 | .047 |
| 10          | .388 | .117 | .055 | .068 | .284 | .054 |
| 1/4         | .511 | .158 | .069 | .094 | .320 | .059 |
| 5/16        | .639 | .201 | .078 | .121 | .403 | .072 |
| 3/8         | .767 | .244 | .087 | .147 | .468 | .081 |

## BINDING HEAD PHILLIPS Part No. D230J -

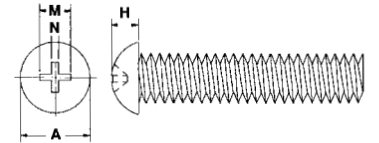


## ROUND HEAD SLOTTED Part No. D233 -



| Thread Size | A     | H    | J    | T    | M    | N    |
|-------------|-------|------|------|------|------|------|
| 0           | .106  | .048 | .019 | .034 | .068 | .020 |
| 1           | .130  | .056 | .023 | .038 | .085 | .022 |
| 2           | .154  | .064 | .027 | .043 | .100 | .025 |
| 3           | .178  | .073 | .031 | .047 | .116 | .027 |
| 4           | .202  | .081 | .035 | .051 | .131 | .029 |
| 5           | .226  | .089 | .039 | .055 | .147 | .032 |
| 6           | .250  | .097 | .043 | .060 | .163 | .034 |
| 8           | .298  | .114 | .049 | .067 | .194 | .039 |
| 10          | .347  | .130 | .055 | .076 | .225 | .043 |
| 12          | .395  | .146 | .062 | .084 | .257 | .048 |
| 1/4         | .458  | .168 | .069 | .096 | .298 | .054 |
| 5/16        | .574  | .207 | .078 | .116 | .373 | .065 |
| 3/8         | .689  | .247 | .087 | .136 | .448 | .076 |
| 7/16        | .729  | .318 | .087 | .172 | .474 | .080 |
| 1/2         | .790  | .344 | .098 | .185 | .513 | .086 |
| 9/16        | .912  | .398 | .110 | .213 | .593 | .098 |
| 5/8         | .972  | .425 | .125 | .227 | .632 | .103 |
| 3/4         | 1.218 | .532 | .140 | .281 | .632 | .103 |

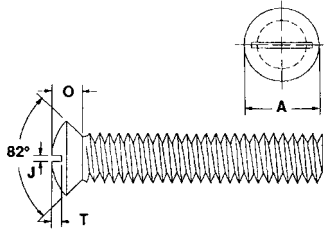
## ROUND HEAD PHILLIPS Part No. D233J -



HIGH TECHNOLOGY PLASTIC MACHINE SCREWS (continued)

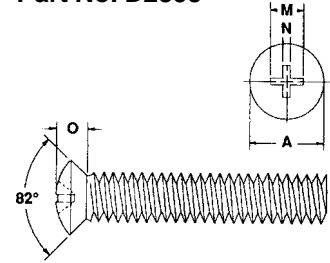
(Part No.) - (Size Code No.) - (Material Code No.)  
 (below) (page 148) (page 144)

**OVAL HEAD SLOTTED 82°**  
**Part No. D239 -**

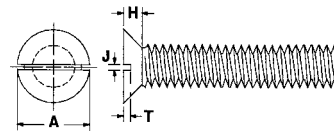


| Thread Size | A     | O    | J    | T    | M    | N    |
|-------------|-------|------|------|------|------|------|
| 0           | .109  | .048 | .020 | .027 | .078 | .021 |
| 1           | .135  | .060 | .023 | .035 | .091 | .024 |
| 2           | .159  | .071 | .027 | .041 | .115 | .027 |
| 3           | .185  | .082 | .031 | .048 | .133 | .030 |
| 4           | .210  | .094 | .035 | .054 | .151 | .032 |
| 5           | .236  | .105 | .039 | .061 | .169 | .035 |
| 6           | .262  | .116 | .044 | .067 | .187 | .038 |
| 8           | .312  | .138 | .050 | .080 | .224 | .043 |
| 10          | .362  | .162 | .055 | .094 | .260 | .048 |
| 12          | .414  | .185 | .061 | .107 | .297 | .054 |
| 1/4         | .479  | .214 | .070 | .124 | .345 | .061 |
| 5/16        | .602  | .270 | .078 | .156 | .432 | .074 |
| 3/8         | .723  | .324 | .088 | .188 | .509 | .086 |
| 7/16        | .767  | .320 | .088 | .192 | .554 | .092 |
| 1/2         | .825  | .326 | .098 | .196 | .593 | .098 |
| 9/16        | .944  | .380 | .110 | .228 | .639 | .104 |
| 5/8         | 1.063 | .433 | .125 | .260 | .639 | .104 |
| 3/4         | 1.302 | .537 | .140 | .323 | .639 | .104 |

**OVAL HEAD PHILLIPS 82°**  
**Part No. D239J -**

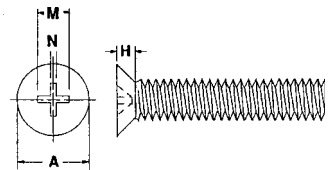


**FLAT HEAD SLOTTED 82°**  
**Part No. D237 -**

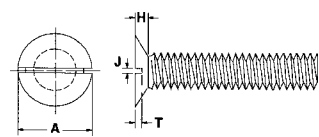


| Thread Size | A     | H    | J    | T    | M    | N    |
|-------------|-------|------|------|------|------|------|
| 0           | .109  | .035 | .019 | .012 | .078 | .021 |
| 1           | .134  | .043 | .022 | .015 | .091 | .024 |
| 2           | .159  | .051 | .027 | .019 | .115 | .027 |
| 3           | .185  | .059 | .031 | .022 | .133 | .030 |
| 4           | .210  | .067 | .035 | .025 | .151 | .032 |
| 5           | .236  | .075 | .039 | .028 | .169 | .035 |
| 6           | .261  | .083 | .044 | .031 | .187 | .038 |
| 8           | .312  | .100 | .049 | .037 | .224 | .043 |
| 10          | .362  | .116 | .055 | .044 | .260 | .048 |
| 12          | .414  | .132 | .061 | .049 | .297 | .054 |
| 1/4         | .479  | .153 | .069 | .058 | .344 | .061 |
| 5/16        | .601  | .191 | .078 | .073 | .432 | .074 |
| 3/8         | .723  | .230 | .088 | .088 | .509 | .086 |
| 7/16        | .767  | .223 | .088 | .085 | .554 | .092 |
| 1/2         | .825  | .223 | .098 | .085 | .593 | .098 |
| 9/16        | .994  | .260 | .110 | .098 | .639 | .104 |
| 5/8         | 1.063 | .298 | .124 | .113 | .639 | .104 |
| 3/4         | 1.302 | .372 | .140 | .141 | .639 | .104 |

**FLAT HEAD PHILLIPS 82°**  
**Part No. D237J -**

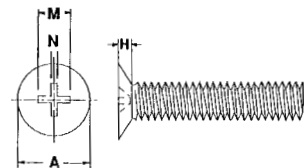


**FLAT HEAD SLOTTED 100°**  
**Part No. D238 -**

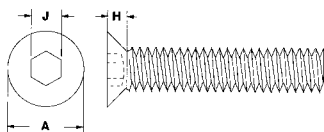


| Thread Size | A    | H    | J    | T    | M    | N    |
|-------------|------|------|------|------|------|------|
| 0           | .108 | .026 | .019 | .011 | .057 | .020 |
| 1           | .133 | .031 | .023 | .013 | .078 | .023 |
| 2           | .158 | .037 | .027 | .015 | .092 | .025 |
| 3           | .183 | .043 | .031 | .018 | .113 | .027 |
| 4           | .208 | .049 | .035 | .020 | .131 | .029 |
| 6           | .258 | .060 | .044 | .026 | .157 | .033 |
| 8           | .308 | .072 | .049 | .031 | .185 | .037 |
| 10          | .359 | .083 | .055 | .036 | .219 | .042 |
| 1/4         | .475 | .110 | .070 | .048 | .288 | .053 |
| 5/16        | .595 | .138 | .078 | .061 | .355 | .063 |
| 3/8         | .716 | .165 | .087 | .074 | .433 | .075 |

**FLAT HEAD PHILLIPS 100°**  
**Part No. D238J -**



**FLAT HEAD SOCKET**  
**Part No. K201 -**



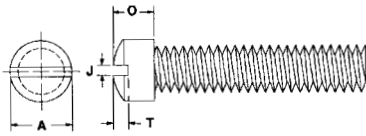
| Thread Size | A     | H    | J    |
|-------------|-------|------|------|
| 0           | .127  | .044 | .035 |
| 1           | .155  | .054 | .050 |
| 2           | .183  | .064 | .050 |
| 3           | .209  | .073 | .062 |
| 4           | .236  | .083 | .062 |
| 5           | .260  | .090 | .078 |
| 6           | .285  | .097 | .078 |
| 8           | .335  | .112 | .094 |
| 10          | .385  | .127 | .125 |
| 1/4         | .505  | .161 | .156 |
| 5/16        | .628  | .198 | .188 |
| 3/8         | .750  | .234 | .219 |
| 7/16        | .812  | .234 | .250 |
| 1/2         | .905  | .251 | .312 |
| 5/8         | 1.15  | .324 | .375 |
| 3/4         | 1.397 | .396 | .500 |
| 7/8         | 1.646 | .468 | .562 |
| 1           | 1.890 | .540 | .625 |

Dimensions are given here as a guide only.  
 Screws are made to the American National Standard.

HIGH TECHNOLOGY PLASTIC MACHINE SCREWS (continued)

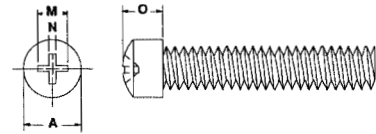
(Part No.) - (Size Code No.) - (Material Code No.)  
 (below) (page 148) (page 144)

**FILLISTER HEAD  
SLOTTED**  
Part No. D231 -

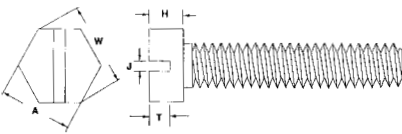


| Thread Size | A    | O    | J    | T    | M    | N    |
|-------------|------|------|------|------|------|------|
| 0           | .089 | .051 | .019 | .020 | .067 | .020 |
| 1           | .111 | .062 | .023 | .025 | .083 | .022 |
| 2           | .132 | .074 | .027 | .031 | .099 | .024 |
| 3           | .153 | .086 | .031 | .036 | .115 | .027 |
| 4           | .174 | .097 | .035 | .041 | .130 | .029 |
| 5           | .196 | .110 | .039 | .047 | .147 | .031 |
| 6           | .217 | .121 | .044 | .052 | .163 | .034 |
| 8           | .260 | .144 | .050 | .062 | .194 | .039 |
| 10          | .302 | .168 | .055 | .073 | .227 | .043 |
| 12          | .345 | .192 | .061 | .084 | .259 | .048 |
| 1/4         | .402 | .222 | .070 | .098 | .229 | .054 |
| 5/16        | .504 | .279 | .078 | .123 | .378 | .066 |
| 3/8         | .606 | .335 | .088 | .148 | .454 | .077 |
| 7/16        | .607 | .344 | .088 | .152 | .454 | .077 |
| 1/2         | .730 | .387 | .098 | .170 | .547 | .091 |
| 9/16        | .790 | .438 | .110 | .193 | .592 | .097 |
| 5/8         | .851 | .491 | .124 | .216 | .592 | .097 |
| 3/4         | .972 | .577 | .140 | .253 | .592 | .097 |

**FILLISTER HEAD  
PHILLIPS**  
Part No. D231J -

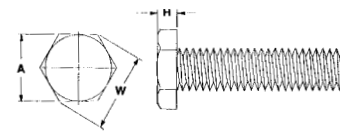


**HEX HEAD SLOTTED**  
Part No. D229 -

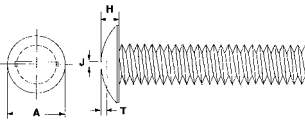


| Thread Size | A    | W    | H    | J    | T    |
|-------------|------|------|------|------|------|
| 1           | .122 | .134 | .040 | ---  | ---  |
| 2           | .122 | .134 | .045 | ---  | ---  |
| 3           | .184 | .202 | .049 | ---  | ---  |
| 4           | .184 | .202 | .055 | .035 | .031 |
| 5           | .184 | .202 | .064 | .039 | .036 |
| 6           | .247 | .272 | .086 | .044 | .039 |
| 8           | .247 | .272 | .103 | .050 | .059 |
| 10          | .308 | .340 | .113 | .055 | .065 |
| 12          | .308 | .340 | .147 | .062 | .085 |
| 1/4         | .371 | .409 | .181 | .069 | .092 |
| 5/16        | .495 | .545 | .219 | .078 | .111 |
| 3/8         | .557 | .614 | .283 | .088 | .144 |

**HEX HEAD**  
Part No. D228 -

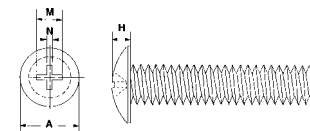


**TRUSS HEAD SLOTTED**  
Part No. J200 -

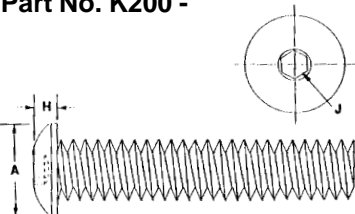


| Thread Size | A     | H    | J    | T    | M    | N    |
|-------------|-------|------|------|------|------|------|
| 0           | .125  | .033 | .020 | .018 | .070 | .021 |
| 1           | .156  | .041 | .023 | .022 | .087 | .023 |
| 2           | .187  | .049 | .027 | .027 | .105 | .026 |
| 3           | .218  | .056 | .031 | .030 | .123 | .028 |
| 4           | .249  | .064 | .035 | .035 | .140 | .031 |
| 5           | .280  | .072 | .039 | .040 | .157 | .033 |
| 6           | .312  | .080 | .044 | .044 | .175 | .035 |
| 8           | .374  | .095 | .049 | .052 | .209 | .041 |
| 10          | .436  | .110 | .055 | .061 | .245 | .046 |
| 12          | .499  | .126 | .061 | .069 | .279 | .051 |
| 1/4         | .559  | .141 | .069 | .079 | .314 | .057 |
| 5/16        | .682  | .172 | .078 | .096 | .382 | .067 |
| 3/8         | .805  | .203 | .087 | .112 | .446 | .076 |
| 7/16        | .927  | .234 | .087 | .129 | .512 | .086 |
| 1/2         | 1.050 | .265 | .098 | .146 | .588 | .097 |
| 9/16        | 1.173 | .295 | .110 | .163 | .588 | .097 |
| 5/8         | 1.296 | .327 | .124 | .179 | .588 | .097 |
| 3/4         | 1.541 | .389 | .140 | .208 | .588 | .097 |

**TRUSS HEAD PHILLIPS**  
Part No. J200J -

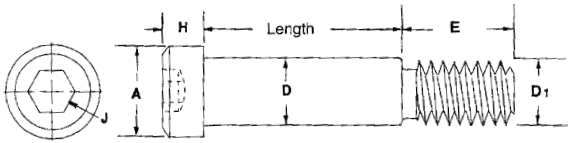


**BUTTON HEAD**  
Part No. K200 -



| Thread Size | A    | H    | J    |
|-------------|------|------|------|
| 0           | .109 | .029 | .035 |
| 1           | .134 | .036 | .050 |
| 2           | .159 | .042 | .050 |
| 3           | .182 | .048 | .062 |
| 4           | .207 | .055 | .062 |
| 5           | .232 | .062 | .078 |
| 6           | .256 | .068 | .078 |
| 8           | .305 | .082 | .094 |
| 10          | .354 | .096 | .125 |
| 1/4         | .427 | .127 | .156 |
| 5/16        | .537 | .159 | .188 |
| 3/8         | .646 | .192 | .219 |
| 1/2         | .863 | .255 | .312 |
| 5/8         | .985 | .321 | .375 |

## MACHINED HIGH TECHNOLOGY PLASTIC HEX SOCKET HEAD SHOULDER SCREW



Part No. KN202 - (Size Code No.) - (Length Code No.) - (Material Code No.)  
 (below) (right) (page 144)

| Length Code No. | Length (inches) |
|-----------------|-----------------|
| -1              | 1/4             |
| -2              | 5/16            |
| -3              | 3/8             |
| -4              | 7/16            |
| -5              | 1/2             |
| -6              | 9/16            |
| -7              | 5/8             |
| -8              | 11/16           |
| -9              | 3/4             |
| -10             | 13/16           |
| -11             | 7/8             |
| -12             | 15/16           |
| -13             | 1               |
| -14             | 1 1/4           |
| -15             | 1 1/2           |
| -16             | 1 3/4           |
| -17             | 2               |
| -18             | 2 1/4           |
| -19             | 2 1/2           |
| -20             | 2 3/4           |
| -21             | 3               |
| -22             | 3 1/2           |
| -23             | 4               |
| -24             | 4 1/2           |
| -25             | 5               |

| Size Code No. | Shoulder Dia. | D     | A     | H    | J    | D1                                       |                  | E Thread Length |       |
|---------------|---------------|-------|-------|------|------|--|------------------|-----------------|-------|
|               |               |       |       |      |      | Nominal Thread Size or Basic Thread Dia. | Threads per inch |                 |       |
| -1            | 1/4           | .247  | .366  | .183 | .125 | #10                                      | .190             | 24              | .375  |
| -2            | 5/16          | .310  | .429  | .214 | .156 | 1/4                                      | .250             | 20              | .438  |
| -3            | 3/8           | .372  | .553  | .245 | .188 | 5/16                                     | .313             | 18              | .500  |
| -4            | 1/2           | .497  | .740  | .307 | .250 | 3/8                                      | .375             | 16              | .625  |
| -5            | 5/8           | .622  | .864  | .370 | .312 | 1/2                                      | .500             | 13              | .750  |
| -6            | 3/4           | .747  | .989  | .495 | .375 | 5/8                                      | .625             | 11              | .875  |
| -7            | 1             | .997  | 1.300 | .618 | .500 | 3/4                                      | .750             | 10              | 1.000 |
| -8            | 1 1/4         | 1.247 | 1.737 | .743 | .625 | 7/8                                      | .875             | 9               | 1.125 |

## MACHINED HIGH TECHNOLOGY PLASTIC HEX CAP SCREW

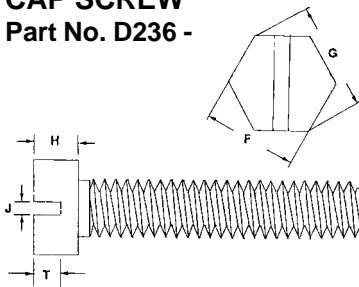
(Available in sizes 1/4-20 through 1-14.)

(Part No.) - (Size Code No.) - (Material Code No.)  
 (below) (page 148) (page 144)

*Sizes under 1" are fully threaded.  
 Sizes over 1" can be fully threaded on request.*

### HEX HEAD SLOTTED CAP SCREW

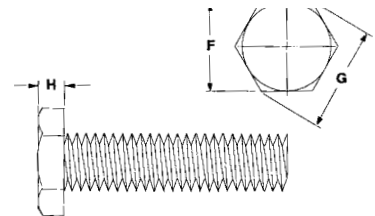
Part No. D236 -



| Thread Size | F      | G     | H     |
|-------------|--------|-------|-------|
| 1/4         | 7/16   | .496  | 5/32  |
| 5/16        | 1/2    | .667  | 13/64 |
| 3/8         | 9/16   | .639  | 15/64 |
| 7/16        | 5/8    | .710  | 9/32  |
| 1/2         | 3/4    | .853  | 5/16  |
| 9/16        | 13/16  | .924  | 23/64 |
| 5/8         | 15/16  | 1.067 | 25/64 |
| 3/4         | 1 1/8  | 1.276 | 15/32 |
| 7/8         | 1 5/16 | 1.490 | 35/64 |
| 1           | 1 1/2  | 1.703 | 39/64 |

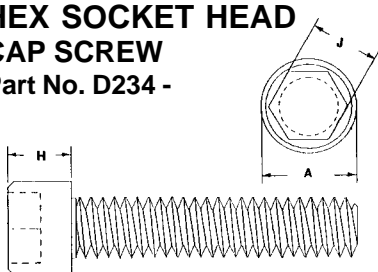
### HEX HEAD CAP SCREW

Part No. D235 -



### HEX SOCKET HEAD CAP SCREW

Part No. D234 -



| Thread Size | A    | H    | J    | Thread Size | A     | H    | J    |
|-------------|------|------|------|-------------|-------|------|------|
| 0           | .093 | .058 | .050 | 1/4         | .370  | .247 | .188 |
| 1           | .115 | .071 | .062 | 5/16        | .463  | .309 | .250 |
| 2           | .137 | .084 | .078 | 3/8         | .556  | .371 | .312 |
| 3           | .157 | .097 | .078 | 7/16        | .649  | .434 | .375 |
| 4           | .180 | .110 | .094 | 1/2         | .742  | .496 | .375 |
| 5           | .201 | .123 | .094 | 5/8         | .930  | .620 | .500 |
| 6           | .222 | .136 | .109 | 3/4         | 1.116 | .745 | .625 |
| 8           | .266 | .162 | .141 | 7/8         | 1.302 | .870 | .750 |
| 10          | .307 | .188 | .156 | 1           | 1.489 | .994 | .750 |

**HIGH TECHNOLOGY PLASTIC MACHINE SCREWS, HEX CAP SCREWS and SET SCREWS SIZE CODE CHART**

| Size Code No. | Thread Size | Length | Size Code No. | Thread Size | Length | Size Code No. | Thread Size | Length | Size Code No. | Thread Size | Length | Size Code No. | Thread Size | Length |
|---------------|-------------|--------|---------------|-------------|--------|---------------|-------------|--------|---------------|-------------|--------|---------------|-------------|--------|
| -1            | 0-80        | 1/8    | -68           | 6-40        | 1/2    | -135          | 5/16-18     | 3/8    | -202          | 1/2-13      | 1      | -269          | 3/4-10      | 1 3/4  |
| -2            | 0-80        | 1/4    | -69           | 6-40        | 9/16   | -136          | 5/16-18     | 7/16   | -203          | 1/2-13      | 1 1/4  | -270          | 3/4-10      | 2      |
| -3            | 0-80        | 5/16   | -70           | 6-40        | 5/8    | -137          | 5/16-18     | 1/2    | -204          | 1/2-13      | 1 1/2  | -271          | 3/4-16      | 3/8    |
| -4            | 0-80        | 3/8    | -71           | 6-40        | 3/4    | -138          | 5/16-18     | 9/16   | -205          | 1/2-13      | 1 3/4  | -272          | 3/4-16      | 7/16   |
| -5            | 0-80        | 7/16   | -72           | 6-40        | 7/8    | -139          | 5/16-18     | 5/8    | -206          | 1/2-13      | 2      | -273          | 3/4-16      | 1/2    |
| -6            | 0-80        | 1/2    | -73           | 6-40        | 1      | -140          | 5/16-18     | 3/4    | -207          | 1/2-20      | 1/4    | -274          | 3/4-16      | 9/16   |
| -7            | 0-80        | 9/16   | -74           | 8-32        | 1/8    | -141          | 5/16-18     | 7/8    | -208          | 1/2-20      | 5/16   | -275          | 3/4-16      | 5/8    |
| -8            | 0-80        | 5/8    | -75           | 8-32        | 1/4    | -142          | 5/16-18     | 1      | -209          | 1/2-20      | 3/8    | -276          | 3/4-16      | 3/4    |
| -9            | 0-80        | 3/4    | -76           | 8-32        | 5/16   | -143          | 5/16-18     | 1 1/4  | -210          | 1/2-20      | 7/16   | -277          | 3/4-16      | 7/8    |
| -10           | 0-80        | 7/8    | -77           | 8-32        | 3/8    | -144          | 5/16-18     | 1 1/2  | -211          | 1/2-20      | 1/2    | -278          | 3/4-16      | 1      |
| -11           | 0-80        | 1      | -78           | 8-32        | 7/16   | -145          | 5/16-24     | 1/4    | -212          | 1/2-20      | 9/16   | -279          | 3/4-16      | 1 1/4  |
| -12           | 2-56        | 1/8    | -79           | 8-32        | 1/2    | -146          | 5/16-24     | 5/16   | -213          | 1/2-20      | 5/8    | -280          | 3/4-16      | 1 1/2  |
| -13           | 2-56        | 1/4    | -80           | 8-32        | 9/16   | -147          | 5/16-24     | 3/8    | -214          | 1/2-20      | 3/4    | -281          | 3/4-16      | 1 3/4  |
| -14           | 2-56        | 5/16   | -81           | 8-32        | 5/8    | -148          | 5/16-24     | 7/16   | -215          | 1/2-20      | 7/8    | -282          | 3/4-16      | 2      |
| -15           | 2-56        | 3/8    | -82           | 8-32        | 3/4    | -149          | 5/16-24     | 1/2    | -216          | 1/2-20      | 1      | -283          | 7/8-9       | 1/2    |
| -16           | 2-56        | 7/16   | -83           | 8-32        | 7/8    | -150          | 5/16-24     | 9/16   | -217          | 1/2-20      | 1 1/4  | -284          | 7/8-9       | 9/16   |
| -17           | 2-56        | 1/2    | -84           | 8-32        | 1      | -151          | 5/16-24     | 5/8    | -218          | 1/2-20      | 1 1/2  | -285          | 7/8-9       | 5/8    |
| -18           | 2-56        | 9/16   | -85           | 10-24       | 1/8    | -152          | 5/16-24     | 3/4    | -219          | 1/2-20      | 1 3/4  | -286          | 7/8-9       | 3/4    |
| -19           | 2-56        | 5/8    | -86           | 10-24       | 1/4    | -153          | 5/16-24     | 7/8    | -220          | 1/2-20      | 2      | -287          | 7/8-9       | 7/8    |
| -20           | 2-56        | 3/4    | -87           | 10-24       | 5/16   | -154          | 5/16-24     | 1      | -221          | 9/16-18     | 1/4    | -288          | 7/8-9       | 1      |
| -21           | 2-56        | 7/8    | -88           | 10-24       | 3/8    | -155          | 5/16-24     | 1 1/4  | -222          | 9/16-18     | 5/16   | -289          | 7/8-9       | 1 1/4  |
| -22           | 2-56        | 1      | -89           | 10-24       | 7/16   | -156          | 5/16-24     | 1 1/2  | -223          | 9/16-18     | 3/8    | -290          | 7/8-9       | 1 1/2  |
| -23           | 3-48        | 1/8    | -90           | 10-24       | 1/2    | -157          | 3/8-16      | 1/4    | -224          | 9/16-18     | 7/16   | -291          | 7/8-9       | 1 3/4  |
| -24           | 3-48        | 1/4    | -91           | 10-24       | 9/16   | -158          | 3/8-16      | 5/16   | -225          | 9/16-19     | 1/2    | -292          | 7/8-9       | 2      |
| -25           | 3-48        | 5/16   | -92           | 10-24       | 5/8    | -159          | 3/8-16      | 3/8    | -226          | 9/16-18     | 9/16   | -293          | 7/8-14      | 1/2    |
| -26           | 3-48        | 3/8    | -93           | 10-24       | 3/4    | -160          | 3/8-16      | 7/16   | -227          | 9/16-18     | 5/8    | -294          | 7/8-14      | 9/16   |
| -27           | 3-48        | 7/16   | -94           | 10-24       | 7/8    | -161          | 3/8-16      | 1/2    | -228          | 9/16-18     | 3/4    | -295          | 7/8-14      | 5/8    |
| -28           | 3-48        | 1/2    | -95           | 10-24       | 1      | -162          | 3/8-16      | 9/16   | -229          | 9/16-18     | 7/8    | -296          | 7/8-14      | 3/4    |
| -29           | 3-48        | 9/16   | -96           | 10-32       | 1/8    | -163          | 3/8-16      | 5/8    | -230          | 9/16-18     | 1      | -297          | 7/8-14      | 7/8    |
| -30           | 3-48        | 5/8    | -97           | 10-32       | 1/4    | -164          | 3/8-16      | 3/4    | -231          | 9/16-18     | 1 1/4  | -298          | 7/8-14      | 1      |
| -31           | 3-48        | 3/4    | -98           | 10-32       | 5/16   | -165          | 3/8-16      | 7/8    | -232          | 9/16-18     | 1 1/2  | -299          | 7/8-14      | 1 1/4  |
| -32           | 4-40        | 1/8    | -99           | 10-32       | 3/8    | -166          | 3/8-16      | 1      | -233          | 9/16-18     | 1 3/4  | -300          | 7/8-14      | 1 1/2  |
| -33           | 4-40        | 1/4    | -100          | 10-32       | 7/16   | -167          | 3/8-16      | 1 1/4  | -234          | 9/16-18     | 2      | -301          | 7/8-14      | 1 3/4  |
| -34           | 4-40        | 3/8    | -101          | 10-32       | 1/2    | -168          | 3/8-16      | 1 1/2  | -235          | 5/8-11      | 3/8    | -302          | 7/8-14      | 2      |
| -35           | 4-40        | 7/16   | -102          | 10-32       | 9/16   | -169          | 3/8-24      | 1/4    | -236          | 5/8-11      | 7/16   | -303          | 1-8         | 1/2    |
| -36           | 4-40        | 1/2    | -103          | 10-32       | 5/8    | -170          | 3/8-24      | 5/16   | -237          | 5/8-11      | 1/2    | -304          | 1-8         | 9/16   |
| -37           | 4-40        | 9/16   | -104          | 10-32       | 3/4    | -171          | 3/8-24      | 3/8    | -238          | 5/8-11      | 9/16   | -305          | 1-8         | 5/8    |
| -38           | 4-40        | 5/8    | -105          | 10-32       | 7/8    | -172          | 3/8-24      | 7/16   | -239          | 5/8-11      | 5/8    | -306          | 1-8         | 3/4    |
| -39           | 4-40        | 3/4    | -106          | 10-32       | 1      | -173          | 3/8-24      | 1/2    | -240          | 5/8-11      | 3/4    | -307          | 1-8         | 7/8    |
| -40           | 4-40        | 7/8    | -107          | 1/4-20      | 1/8    | -174          | 3/8-24      | 9/16   | -241          | 5/8-11      | 7/8    | -308          | 1-8         | 1      |
| -41           | 4-40        | 1      | -108          | 1/4-20      | 1/4    | -175          | 3/8-24      | 5/8    | -242          | 5/8-11      | 1      | -309          | 1-8         | 1 1/4  |
| -42           | 5-40        | 1/8    | -109          | 1/4-20      | 5/16   | -176          | 3/8-24      | 3/4    | -243          | 5/8-11      | 1 1/4  | -310          | 1-8         | 1 1/2  |
| -43           | 5-40        | 1/4    | -110          | 1/4-20      | 3/8    | -177          | 3/8-24      | 7/8    | -244          | 5/8-11      | 1 1/2  | -311          | 1-8         | 1 3/4  |
| -44           | 5-40        | 3/8    | -111          | 1/4-20      | 7/16   | -178          | 3/8-24      | 1      | -245          | 5/8-11      | 1 3/4  | -312          | 1-8         | 2      |
| -45           | 5-40        | 7/16   | -112          | 1/4-20      | 1/2    | -179          | 3/8-24      | 1 1/4  | -246          | 5/8-11      | 2      | -313          | 1-12        | 1/2    |
| -46           | 5-40        | 1/2    | -113          | 1/4-20      | 9/16   | -180          | 3/8-24      | 1 1/2  | -247          | 5/8-18      | 3/8    | -314          | 1-12        | 9/16   |
| -47           | 5-40        | 9/16   | -114          | 1/4-20      | 5/8    | -181          | 7/16-14     | 1/4    | -248          | 5/8-18      | 7/16   | -315          | 1-12        | 5/8    |
| -48           | 5-40        | 5/8    | -115          | 1/4-20      | 3/4    | -182          | 7/16-14     | 5/16   | -249          | 5/8-18      | 1/2    | -316          | 1-12        | 3/4    |
| -49           | 5-40        | 3/4    | -116          | 1/4-20      | 7/8    | -183          | 7/16-14     | 3/8    | -250          | 5/8-18      | 9/16   | -317          | 1-12        | 7/8    |
| -50           | 5-40        | 7/8    | -117          | 1/4-20      | 1      | -184          | 7/16-14     | 7/16   | -251          | 5/8-18      | 5/8    | -318          | 1-12        | 1      |
| -51           | 5-40        | 1      | -118          | 1/4-20      | 1 1/4  | -185          | 7/16-14     | 1/2    | -252          | 5/8-18      | 3/4    | -319          | 1-12        | 1 1/4  |
| -52           | 6-32        | 1/8    | -119          | 1/4-20      | 1 1/2  | -186          | 7/16-14     | 9/16   | -253          | 5/8-18      | 7/8    | -320          | 1-12        | 1 1/2  |
| -53           | 6-32        | 1/4    | -120          | 1/4-28      | 1/8    | -187          | 7/16-14     | 5/8    | -254          | 5/8-18      | 1      | -321          | 1-12        | 1 3/4  |
| -54           | 6-32        | 5/16   | -121          | 1/4-28      | 1/4    | -188          | 7/16-14     | 3/4    | -255          | 5/8-18      | 1 1/4  | -322          | 1-12        | 2      |
| -55           | 6-32        | 3/8    | -122          | 1/4-28      | 5/16   | -189          | 7/16-14     | 7/8    | -256          | 5/8-18      | 1 1/2  | -323          | 1-14        | 1/2    |
| -56           | 6-32        | 7/16   | -123          | 1/4-28      | 3/8    | -190          | 7/16-14     | 1      | -257          | 5/8-18      | 1 3/4  | -324          | 1-14        | 9/16   |
| -57           | 6-32        | 1/2    | -124          | 1/4-28      | 7/16   | -191          | 7/16-14     | 1 1/4  | -258          | 5/8-18      | 2      | -325          | 1-14        | 5/8    |
| -58           | 6-32        | 9/16   | -125          | 1/4-28      | 1/2    | -192          | 7/16-14     | 1 1/2  | -259          | 3/4-10      | 3/8    | -326          | 1-14        | 3/4    |
| -59           | 6-32        | 5/8    | -126          | 1/4-28      | 9/16   | -193          | 1/2-13      | 1/4    | -260          | 3/4-10      | 7/16   | -327          | 1-14        | 7/8    |
| -60           | 6-32        | 3/4    | -127          | 1/4-28      | 5/8    | -194          | 1/2-13      | 5/16   | -261          | 3/4-10      | 1/2    | -328          | 1-14        | 1      |
| -61           | 6-32        | 7/8    | -128          | 1/4-28      | 3/4    | -195          | 1/2-13      | 3/8    | -262          | 3/4-10      | 9/16   | -329          | 1-14        | 1 1/4  |
| -62           | 6-32        | 1      | -129          | 1/4-28      | 7/8    | -196          | 1/2-13      | 7/16   | -263          | 3/4-10      | 5/8    | -330          | 1-14        | 1 1/2  |
| -63           | 6-40        | 1/8    | -130          | 1/4-28      | 1      | -197          | 1/2-13      | 1/2    | -264          | 3/4-10      | 3/4    | -331          | 1-14        | 1 3/4  |
| -64           | 6-40        | 1/4    | -131          | 1/4-28      | 1 1/4  | -198          | 1/2-13      | 9/16   | -265          | 3/4-10      | 7/8    | -332          | 1-14        | 2      |
| -65           | 6-40        | 5/16   | -132          | 1/4-28      | 1 1/2  | -199          | 1/2-13      | 5/8    | -266          | 3/4-10      | 1      | -333          | 1-14        | 2 1/2  |
| -66           | 6-40        | 3/8    | -133          | 5/16-18     | 1/4    | -200          | 1/2-13      | 3/4    | -267          | 3/4-10      | 1 1/4  | -334          | 1-14        | 3      |
| -67           | 6-40        | 7/16   | -134          | 5/16-18     | 5/16   | -201          | 1/2-13      | 7/8    | -268          | 3/4-10      | 1 1/2  | -335          | 1-14        | 3 1/2  |

# MACHINED HIGH TECHNOLOGY PLASTIC HEADLESS SET SCREWS

\*Available in other materials. See material list in index.  
Other sizes available on request.

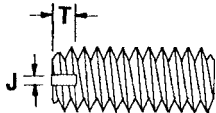
\*Available in the following materials:

| Material Code | Material Name        | Material Code | Material Name   | Material Code | Material Name                               | Material Code | Material Name  |
|---------------|----------------------|---------------|-----------------|---------------|---|---------------|--|
| -3            | Lexan®, (clear)      | -27           | PVC             | -40           | PFA, (Teflon®)                              | -195          | Nylon 46, 30% Glass-filled, Flame Retardant, Heat Stabilized |
| -4            | Lexan®, (black)      | -28           | CPVC            | -41           | Halar®                                      | -213          | Vespel®  |
| -5            | Ultem® 1000          | -29           | Teflon®         | -60           | Nylon 6/6, 30% Short Glass-filled           | -272          | PVC, (white)   |
| -11           | Polypropylene        | -30           | Tefzel®         | -64           | Delrin®, 25% Short Glass-filled             | -273          | PVC, (black)   |
| -13           | Polyethylene         | -32           | PCTFE           | -77           | Ultem® 2300, (natural)                      | -226          | Radel® A200, Polyethersulfone                                |
| -14           | ABS                  | -33           | Polysulfone     | -78           | Nylon 6/6, (black)                          | -228          | Radel® AG330, 30% Glass-filled                               |
| -15           | PEEK™                | -35           | Noryl®          | -194          | Nylon 46, 30% Glass-filled, Heat Stabilized | -229          | Radel® R5000, Polyphenylsulfone                              |
| -18           | Nylon 6/6, (natural) | -37           | PVDF            |               |   |               |  |
| -23           | Nylon Super Tough    | -38           | Fiber Glass G10 |               |   |               |  |
| -24           | Delrin®, (white)     | -39           | UHMW®           |               |   |               |  |

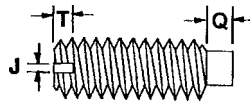
Part No. **D219** - (Size Code No.) - (Set Style) - SL (Slotted) or SK (Socket) - (Material Code No.)  
(page 148) (below) (above)

**Set Style:**

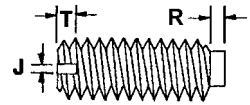
**FLAT POINT - FP**



**DOG POINT - DP**



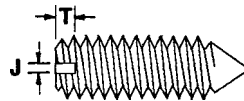
**HALF DOG POINT - HP**



**CUP POINT - CP**



**CONE POINT - CNP**



**OVAL POINT - OP**



| Screw Size | J    | T    | Q    | R    | Socket Size | Screw Size | J    | T    | Q    | R    | Socket Size | Screw Size | J    | T    | Q    | R    | Socket Size |
|------------|------|------|------|------|-------------|------------|------|------|------|------|-------------|------------|------|------|------|------|-------------|
| 2          | .016 | .022 | .044 | .022 | .035        | 10         | .032 | .048 | .090 | .045 | .094        | 1/2        | .081 | .125 | .250 | .125 | .250        |
| 3          | .018 | .026 | .050 | .025 | .050        | 12         | .039 | .056 | .110 | .055 | --          | 9/16       | .091 | .141 | .281 | .140 | --          |
| 4          | .021 | .028 | .056 | .028 | .050        | 1/4        | .045 | .062 | .125 | .063 | .125        | 5/8        | .102 | .156 | .313 | .156 | .312        |
| 5          | .023 | .031 | .060 | .030 | .062        | 5/16       | .051 | .078 | .156 | .078 | .156        | 3/4        | .129 | .188 | .375 | .188 | .375        |
| 6          | .025 | .035 | .070 | .035 | .062        | 3/8        | .064 | .094 | .188 | .094 | .188        | 7/8        | --   | --   | .438 | .224 | .500        |
| 8          | .029 | .041 | .080 | .040 | .078        | 7/16       | .072 | .109 | .219 | .109 | .219        | 1          | --   | --   | .500 | .250 | .562        |

Dimensions here are given as a guide only.  
Set screws are made to the American National Standard.