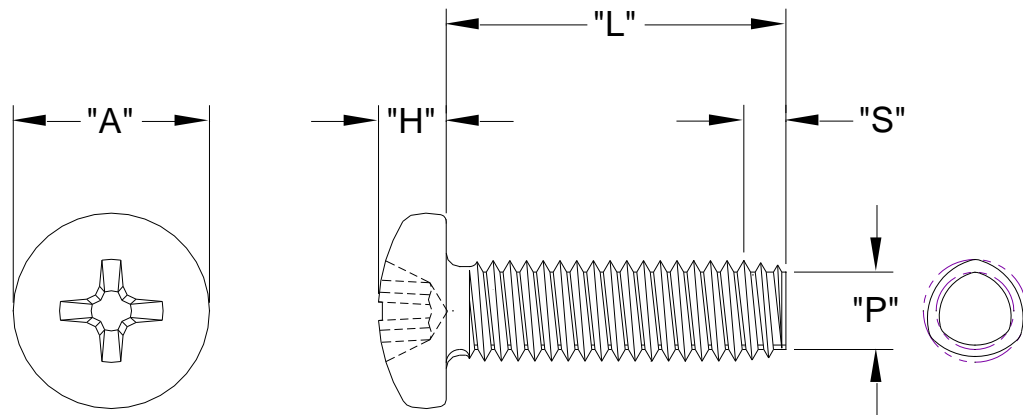


# TYPE 1 CROSS RECESS PAN HEAD TRI-LOBE T.R.S.

|             |
|-------------|
| XXXXPPTZ    |
| APRIL, 2014 |
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| Nominal Screw Length          | Tolerance On Screw Length |
|-------------------------------|---------------------------|
| Up To & Including 3/4"        | +0 / -0.03                |
| Over 3/4" to 1-1/2" Inclusive | +0 / -0.05                |
| Over 1-1/2"                   | +0 / -0.06                |



| Nominal Screw Size | Basic Screw Size | "Cd"                    |        | "Dd"           |        | "p"            | "S"                |       | Minimum Practical Screw Length | "A"           |       | "H"         |       | Driver Size | Recess Penetration Gaging Depth |       |
|--------------------|------------------|-------------------------|--------|----------------|--------|----------------|--------------------|-------|--------------------------------|---------------|-------|-------------|-------|-------------|---------------------------------|-------|
|                    |                  | Circumscribing Diameter |        | Major Diameter |        | Point Diameter | Point Taper Length |       |                                | Head Diameter |       | Head Height |       |             | Max.                            | Min.  |
|                    |                  | Max.                    | Min.   | Max.           | Min.   | Max.           | Max.               | Min.  |                                | Max.          | Min.  | Max.        | Min.  |             |                                 |       |
| #2 - 56            | 0.086            | 0.0875                  | 0.0835 | 0.0840         | 0.0800 | 0.070          | 0.062              | 0.036 | 5/32                           | 0.167         | 0.155 | 0.062       | 0.053 | 1           | 0.052                           | 0.034 |
| #3 - 48            | 0.099            | 0.1010                  | 0.0970 | 0.0970         | 0.0930 | 0.081          | 0.073              | 0.042 | 3/16                           | 0.193         | 0.180 | 0.071       | 0.062 | 1           | 0.061                           | 0.043 |
| #4 - 40            | 0.112            | 0.1145                  | 0.1105 | 0.1095         | 0.1055 | 0.090          | 0.088              | 0.050 | 3/16                           | 0.219         | 0.205 | 0.080       | 0.070 | 1           | 0.071                           | 0.053 |
| #5 - 40            | 0.125            | 0.1275                  | 0.1235 | 0.1225         | 0.1185 | 0.103          | 0.088              | 0.050 | 7/32                           | 0.245         | 0.231 | 0.089       | 0.079 | 2           | 0.072                           | 0.046 |
| #6 - 32            | 0.138            | 0.1410                  | 0.1350 | 0.1350         | 0.1290 | 0.111          | 0.109              | 0.062 | 1/4                            | 0.270         | 0.256 | 0.097       | 0.087 | 2           | 0.080                           | 0.055 |
| #8 - 32            | 0.164            | 0.1670                  | 0.1610 | 0.1610         | 0.1550 | 0.137          | 0.109              | 0.062 | 1/4                            | 0.322         | 0.306 | 0.115       | 0.105 | 2           | 0.097                           | 0.071 |
| #10 - 24           | 0.190            | 0.1940                  | 0.1880 | 0.1860         | 0.1800 | 0.153          | 0.146              | 0.083 | 5/16                           | 0.373         | 0.357 | 0.133       | 0.122 | 2           | 0.113                           | 0.089 |
| #10 - 32           |                  | 0.1930                  | 0.1870 | 0.1870         | 0.1810 | 0.163          | 0.109              | 0.062 | 1/4                            |               |       |             |       |             |                                 |       |
| #12 - 24           | 0.216            | 0.2200                  | 0.2140 | 0.2120         | 0.2060 | 0.179          | 0.146              | 0.083 | 13/32                          | 0.425         | 0.402 | 0.151       | 0.139 | 3           | 0.124                           | 0.098 |
| 1/4 - 20           | 0.250            | 0.2550                  | 0.2490 | 0.2450         | 0.2390 | 0.206          | 0.175              | 0.100 | 13/32                          | 0.492         | 0.473 | 0.175       | 0.162 | 3           | 0.144                           | 0.118 |
| 5/16 - 18          | 0.313            | 0.3180                  | 0.3120 | 0.3070         | 0.3010 | 0.264          | 0.194              | 0.111 | 15/32                          | 0.615         | 0.594 | 0.218       | 0.203 | 4           | 0.173                           | 0.149 |

Head Standard: ASME B18.6.4  
 Performance Standard: SAE J-81  
 Material: Carbon Steel  
 Heat Treat: Case Hardened Rc45 Min.  
 Finish: Commercial Zinc, Bake & ROHS Compliant Clear Chromate  
 Per ASTM F1941 Code Fe/Zn 3A Plus Wax

**Common Uses:**  
 Most common head style; higher head height for increased strength; Used in sheet metal >60% of screw size, extruded sheet metal, zinc & aluminum die casting