

# Bore and Square Keyway Standards

Dynacorp® Bore and Square Keyway Standards

| Nominal Bore Diameter |         | Bore Diameter      | Keyway Width     | Keyway Height    |
|-----------------------|---------|--------------------|------------------|------------------|
| Fraction              | Decimal | + .0020<br>+ .0005 | + .003<br>+ .001 | + .010<br>- .000 |
| 1/2                   | .500    | .5020<br>.5005     | .128<br>.126     | .570<br>.560     |
| 9/16                  | .5625   | .5645<br>.5630     | .128<br>.126     | .633<br>.623     |
| 5/8                   | .625    | .6270<br>.6255     | .1905<br>.1885   | .719<br>.709     |
| 11/16                 | .6875   | .6895<br>.6880     | .1905<br>.1885   | .783<br>.773     |
| 3/4                   | .750    | .7520<br>.7505     | .1905<br>.1885   | .847<br>.837     |
| 13/16                 | .8125   | .8145<br>.8130     | .1905<br>.1885   | .910<br>.900     |
| 7/8                   | .875    | .8770<br>.8755     | .1905<br>.1885   | .974<br>.964     |
| 15/16                 | .9375   | .9395<br>.9380     | .253<br>.251     | 1.061<br>1.051   |
| 1                     | 1.000   | 1.0020<br>1.0005   | .253<br>.251     | 1.124<br>1.114   |
| 1-1/16                | 1.0625  | 1.0645<br>1.0630   | .253<br>.251     | 1.188<br>1.178   |
| 1-1/8                 | 1.125   | 1.1270<br>1.1255   | .253<br>.251     | 1.251<br>1.241   |
| 1-3/16                | 1.1875  | 1.1895<br>1.1880   | .253<br>.251     | 1.314<br>1.304   |
| 1-1/4                 | 1.250   | 1.2520<br>1.2505   | .253<br>.251     | 1.377<br>1.367   |
| 1-5/16                | 1.3125  | 1.3145<br>1.3130   | .3155<br>.3135   | 1.465<br>1.455   |
| 1-3/8                 | 1.375   | 1.3770<br>1.3755   | .3155<br>.3135   | 1.528<br>1.518   |
| 1-7/16                | 1.4375  | 1.4395<br>1.4380   | .378<br>.376     | 1.615<br>1.605   |
| 1-1/2                 | 1.500   | 1.5020<br>1.5005   | .378<br>.376     | 1.679<br>1.669   |

| Nominal Bore Diameter |         | Bore Diameter      | Keyway Width     | Keyway Height    |
|-----------------------|---------|--------------------|------------------|------------------|
| Fraction              | Decimal | + .0020<br>+ .0005 | + .003<br>+ .001 | + .010<br>- .000 |
| 1-9/16                | 1.5625  | 1.5645<br>1.5630   | .378<br>.376     | 1.742<br>1.732   |
| 1-5/8                 | 1.625   | 1.6270<br>1.6255   | .378<br>.376     | 1.806<br>1.796   |
| 1-11/16               | 1.6875  | 1.6895<br>1.6880   | .378<br>.376     | 1.869<br>1.859   |
| 1-3/4                 | 1.750   | 1.7520<br>1.7505   | .378<br>.376     | 1.932<br>1.922   |
| 1-13/16               | 1.8125  | 1.8145<br>1.8130   | .503<br>.501     | 2.042<br>2.032   |
| 1-7/8                 | 1.875   | 1.8770<br>1.8755   | .503<br>.501     | 2.106<br>2.096   |
| 1-15/16               | 1.9375  | 1.9395<br>1.9380   | .503<br>.501     | 2.170<br>2.160   |
| 2                     | 2.000   | 2.0020<br>2.0005   | .503<br>.501     | 2.233<br>2.223   |
| 2-1/16                | 2.0625  | 2.0645<br>2.0630   | .503<br>.501     | 2.297<br>2.287   |
| 2-1/8                 | 2.125   | 2.1270<br>2.1255   | .503<br>.501     | 2.360<br>2.350   |
| 2-3/16                | 2.1875  | 2.1895<br>2.1880   | .503<br>.501     | 2.424<br>2.414   |
| 2-1/4                 | 2.250   | 2.2520<br>2.2505   | .503<br>.501     | 2.487<br>2.477   |
| 2-5/16                | 2.3125  | 2.3145<br>2.3130   | .628<br>.626     | 2.597<br>2.587   |
| 2-3/8                 | 2.375   | 2.3770<br>2.3755   | .628<br>.626     | 2.661<br>2.651   |
| 2-7/16                | 2.4375  | 2.4395<br>2.4380   | .628<br>.626     | 2.724<br>2.714   |
| 2-1/2                 | 2.500   | 2.5020<br>2.5005   | .628<br>.626     | 2.788<br>2.778   |

Notes: 1. Keyway Dimensions are per ANSI B17.1-1967,R1973  
2. Bore Dimensions are per Dynacorp® Specifications

# Shaft and Rectangular Keyway Standards

Dynacorp® Shaft and Rectangular Keyway Standards

| Nominal Shaft Diameter |         | Shaft Diameter   | Keyway Width   | Keyway Height  |
|------------------------|---------|------------------|----------------|----------------|
| Fraction               | Decimal |                  |                |                |
|                        |         | -.0005<br>-.0020 | +.001<br>-.001 | +.000<br>-.015 |
| 1/2                    | .500    | .4995<br>.4980   | .126<br>.124   | .445<br>.430   |
| 9/16                   | .5625   | .5620<br>.5605   | .126<br>.124   | .509<br>.494   |
| 5/8                    | .625    | .6245<br>.6230   | .1885<br>.1865 | .548<br>.533   |
| 11/16                  | .6875   | .6870<br>.6855   | .1885<br>.1865 | .612<br>.597   |
| 3/4                    | .750    | .7495<br>.7480   | .1885<br>.1865 | .676<br>.661   |
| 13/16                  | .8125   | .8120<br>.8105   | .1885<br>.1865 | .739<br>.724   |
| 7/8                    | .875    | .8745<br>.8730   | .1885<br>.1865 | .802<br>.787   |
| 15/16                  | .9375   | .9370<br>.9355   | .251<br>.249   | .827<br>.812   |
| 1                      | 1.000   | .9995<br>.9980   | .251<br>.249   | .890<br>.875   |
| 1-1/16                 | 1.0625  | 1.0620<br>1.0605 | .251<br>.249   | .954<br>.939   |
| 1-1/8                  | 1.125   | 1.1245<br>1.1230 | .251<br>.249   | 1.017<br>1.002 |
| 1-3/16                 | 1.1875  | 1.1870<br>1.1855 | .251<br>.249   | 1.080<br>1.065 |
| 1-1/4                  | 1.250   | 1.2495<br>1.2480 | .251<br>.249   | 1.144<br>1.129 |
| 1-5/16                 | 1.3125  | 1.3120<br>1.3105 | .3135<br>.3115 | 1.169<br>1.154 |
| 1-3/8                  | 1.375   | 1.3745<br>1.3730 | .3135<br>.3115 | 1.232<br>1.217 |
| 1-7/16                 | 1.4375  | 1.4370<br>1.4355 | .376<br>.374   | 1.288<br>1.273 |
| 1-1/2                  | 1.500   | 1.4995<br>1.4980 | .376<br>.374   | 1.351<br>1.336 |

| Nominal Shaft Diameter |         | Shaft Diameter   | Keyway Width   | Keyway Height  |
|------------------------|---------|------------------|----------------|----------------|
| Fraction               | Decimal |                  |                |                |
|                        |         | -.0005<br>-.0020 | +.001<br>-.001 | +.000<br>-.015 |
| 1-9/16                 | 1.5625  | 1.5620<br>1.5605 | .376<br>.374   | 1.415<br>1.400 |
| 1-5/8                  | 1.625   | 1.6245<br>1.6230 | .376<br>.374   | 1.478<br>1.463 |
| 1-11/16                | 1.6875  | 1.6870<br>1.6855 | .376<br>.374   | 1.541<br>1.526 |
| 1-3/4                  | 1.750   | 1.7495<br>1.7480 | .376<br>.374   | 1.605<br>1.590 |
| 1-13/16                | 1.8125  | 1.8120<br>1.8105 | .501<br>.499   | 1.590<br>1.575 |
| 1-7/8                  | 1.875   | 1.8745<br>1.8730 | .501<br>.499   | 1.654<br>1.639 |
| 1-15/16                | 1.9375  | 1.9370<br>1.9355 | .501<br>.499   | 1.717<br>1.702 |
| 2                      | 2.000   | 1.9995<br>1.9980 | .501<br>.499   | 1.781<br>1.766 |
| 2-1/16                 | 2.0625  | 2.0620<br>2.0605 | .501<br>.499   | 1.844<br>1.829 |
| 2-1/8                  | 2.125   | 2.1245<br>2.1230 | .501<br>.499   | 1.908<br>1.893 |
| 2-3/16                 | 2.1875  | 2.1870<br>2.1855 | .501<br>.499   | 1.971<br>1.956 |
| 2-1/4                  | 2.250   | 2.2495<br>2.2480 | .501<br>.499   | 2.034<br>2.019 |
| 2-5/16                 | 2.3125  | 2.3120<br>2.3105 | .626<br>.624   | 2.051<br>2.036 |
| 2-3/8                  | 2.375   | 2.3745<br>2.3730 | .626<br>.624   | 2.114<br>2.099 |
| 2-7/16                 | 2.4375  | 2.4370<br>2.4355 | .626<br>.624   | 2.178<br>2.163 |
| 2-1/2                  | 2.500   | 2.4995<br>2.4980 | .626<br>.624   | 2.242<br>2.227 |

- Notes: 1. Keyway Dimensions are per ANSI B17.1-1967,R1973  
 2. Shaft Dimensions are per Machinery's Handbook (Page 349),  
 Former ASA B17.1 Specification Modified by Dynacorp®.