



**Bevel Gears Diametrical Pitch 1:1 Ratio**

Dimensions in inches

| DP | Tth | O.D   | PCD   | Bore "B" | Boss'C' | Boss'E' | Width'F' | 'G"   | Length'H' | MD Cone | Materials available |           |       |        | Order Code  |
|----|-----|-------|-------|----------|---------|---------|----------|-------|-----------|---------|---------------------|-----------|-------|--------|-------------|
|    |     |       |       |          |         |         |          |       |           |         | Steel               | Stn.steel | Brass | Delrin |             |
| 48 | 16  | 0.358 | 0.333 | 0.125    | 0.250   | 0.170   | 0.078    | 0.255 | 0.270     | 0.375   | *                   | *         | *     | *      | B048 101*16 |
| 48 | 22  | 0.483 | 0.458 | 0.156    | 0.312   | 0.281   | 0.109    | 0.384 | 0.420     | 0.562   | *                   |           | *     |        | B048 101*22 |
| 32 | 22  | 0.732 | 0.687 | 0.187    | 0.437   | 0.250   | 0.156    | 0.406 | 0.470     | 0.687   | *                   | *         | *     | *      | B032 101*   |
| 40 | 40  | 1.035 | 1.000 | 0.250    | 0.625   | 0.250   | 0.218    | 0.437 | 0.480     | 0.812   | *                   |           | *     | *      | B040 101*   |
| 18 | 18  | 1.078 | 1.000 | 0.250    | 0.625   | 0.312   | 0.234    | 0.531 | 0.625     | 0.937   | *                   |           | *     |        | B018 101*   |
| 16 | 24  | 1.588 | 1.500 | 0.375    | 0.750   | 0.375   | 0.312    | 0.625 | 0.740     | 1.250   | *                   |           |       | *      | B016 101*24 |
| 16 | 30  | 1.960 | 1.875 | 0.500    | 1.125   | 0.625   | 0.437    | 1.000 | 1.160     | 1.750   | *                   | *         | *     | *      | B016 101*30 |
| 12 | 36  | 3.118 | 3.000 | 0.625    | 1.750   | 0.750   | 0.687    | 1.300 | 1.500     | 2.500   | *                   |           |       |        | B012 101S   |

**Bevel Gears Diametrical Pitch 1.5:1 Ratio**

|    |    |       |       |       |       |       |       |       |       |       |   |  |   |   |            |
|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--|---|---|------------|
| 64 | 18 | 0.314 | 0.281 | 0.125 | 0.25  | 0.218 | 0.078 | 0.3   | 0.3   | 0.437 | * |  |   | * | B064 151*P |
| 64 | 27 | 0.435 | 0.422 | 0.187 | 0.312 | 0.187 | 0.078 | 0.25  | 0.281 | 0.375 |   |  | * | * | B064 151*C |
| 32 | 12 | 0.441 | 0.375 | 0.187 | 0.312 | 0.203 | 0.109 | 0.275 | 0.328 | 0.5   | * |  |   |   | B032 151SP |
| 32 | 18 | 0.588 | 0.562 | 0.25  | 0.437 | 0.234 | 0.109 | 0.312 | 0.391 | 0.5   | * |  |   |   | B032 151SC |
| 16 | 18 | 1.256 | 1.125 | 0.375 | 0.875 | 0.573 | 0.312 | 0.855 | 0.953 | 1.5   | * |  |   |   | B016 151SP |
| 16 | 27 | 1.739 | 1.687 | 0.5   | 1     | 0.625 | 0.312 | 0.907 | 1.02  | 1.375 | * |  |   |   | B016 151SC |

Material Specifications

Steel BS 970 212M36  
Steel BS970 655M13

Brass BS2874 CZ121  
Delrin 150

**If not shown, we can manufacture to your exact requirements**