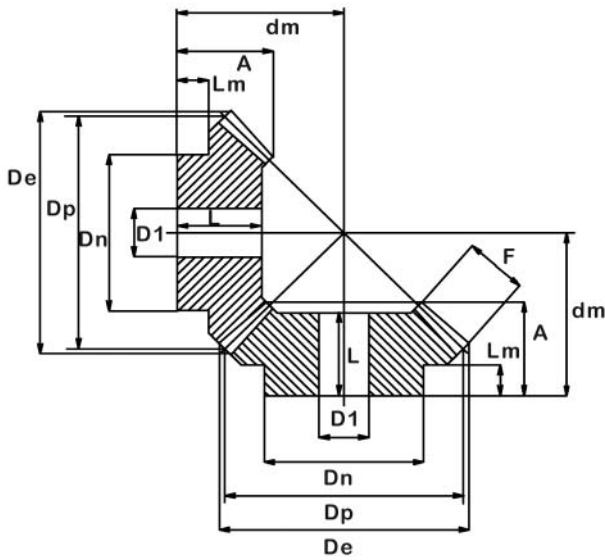


# Metric Bevel Gear Sets

20 Degree Pressure Angle

Material: AISI 1040

Minimum Plain Bore



1:1 RATIO

| MODULE | Teeth | De    | Dp    | A    | F  | Dn  | D1 ±1 mm | dm    | L    | Lm   |
|--------|-------|-------|-------|------|----|-----|----------|-------|------|------|
| 1.5    | 16    | 26.1  | 24.0  | 18   | 8  | 18  | 8        | 25.1  | 17   | 8.9  |
|        | 20    | 32.1  | 30.0  | 20   | 8  | 22  | 10       | 28.7  | 18   | 9.8  |
|        | 22    | 35.1  | 33.0  | 20   | 8  | 25  | 10       | 30.2  | 18   | 9.7  |
|        | 25    | 39.6  | 37.5  | 23   | 8  | 28  | 10       | 35.4  | 21   | 12   |
|        | 30    | 47.1  | 45.0  | 25   | 10 | 30  | 12       | 39.7  | 22.5 | 12   |
| 2      | 16    | 34.8  | 32.0  | 20   | 9  | 25  | 10       | 28.8  | 17   | 9.3  |
|        | 20    | 42.8  | 40.0  | 25   | 12 | 32  | 10       | 35.7  | 22   | 12   |
|        | 22    | 46.8  | 44.0  | 25   | 12 | 36  | 10       | 37.7  | 22   | 11.7 |
|        | 25    | 52.8  | 50.0  | 28   | 14 | 40  | 12       | 42.3  | 25   | 12.3 |
|        | 30    | 62.8  | 60.0  | 30   | 16 | 50  | 12       | 47.8  | 27   | 12.8 |
| 2.5    | 16    | 43.5  | 40.0  | 25.5 | 10 | 32  | 12       | 37.3  | 22   | 13.3 |
|        | 20    | 53.5  | 50.0  | 30.5 | 12 | 40  | 12       | 45.9  | 27   | 16   |
|        | 22    | 58.5  | 55.0  | 30.5 | 12 | 45  | 12       | 48.3  | 27   | 15.9 |
|        | 25    | 66.0  | 62.5  | 33.5 | 15 | 50  | 15       | 53.0  | 30   | 16   |
|        | 30    | 78.5  | 75.0  | 35.5 | 18 | 55  | 15       | 59.1  | 32   | 16   |
| 3      | 16    | 52.2  | 48.0  | 30   | 12 | 40  | 15       | 44.2  | 26   | 16.2 |
|        | 20    | 64.2  | 60.0  | 35   | 18 | 45  | 15       | 51.1  | 31   | 13.6 |
|        | 22    | 70.2  | 66.0  | 35   | 18 | 50  | 15       | 54.0  | 31   | 13   |
|        | 25    | 79.2  | 75.0  | 38   | 20 | 55  | 15       | 60.1  | 34   | 16   |
|        | 30    | 94.2  | 90.0  | 40   | 22 | 60  | 20       | 68.1  | 36   | 19   |
| 3.5    | 16    | 60.9  | 56.0  | 35.5 | 16 | 45  | 15       | 50.8  | 31   | 17.2 |
|        | 20    | 74.9  | 70.0  | 40.5 | 22 | 55  | 15       | 58.6  | 36   | 19   |
|        | 22    | 81.9  | 77.0  | 40.5 | 22 | 60  | 15       | 62.0  | 36   | 18   |
|        | 25    | 92.4  | 87.5  | 43.5 | 26 | 65  | 20       | 67.5  | 39   | 18   |
|        | 30    | 109.9 | 105.0 | 45.5 | 30 | 70  | 20       | 75.4  | 41   | 17   |
| 4      | 16    | 69.6  | 64.0  | 38   | 18 | 50  | 15       | 55.6  | 33   | 16.6 |
|        | 20    | 85.6  | 80.0  | 43   | 25 | 60  | 18       | 63.8  | 38   | 18   |
|        | 22    | 93.6  | 88.0  | 43   | 25 | 65  | 18       | 67.7  | 38   | 18   |
|        | 25    | 105.6 | 100.0 | 45   | 28 | 70  | 20       | 73.5  | 40   | 18   |
|        | 30    | 125.6 | 120.0 | 48   | 32 | 80  | 25       | 83.7  | 43   | 18   |
| 4.5    | 16    | 78.3  | 72.0  | 43   | 20 | 55  | 18       | 63.0  | 37   | 18.5 |
|        | 20    | 96.3  | 90.0  | 48   | 28 | 65  | 20       | 71.5  | 42   | 18   |
|        | 22    | 105.3 | 99.0  | 48   | 28 | 70  | 20       | 75.8  | 42   | 18   |
|        | 25    | 118.8 | 112.5 | 50   | 32 | 75  | 20       | 81.8  | 44   | 18   |
|        | 30    | 141.3 | 135.0 | 53   | 35 | 90  | 25       | 93.8  | 47   | 17   |
| 5      | 16    | 87.0  | 80.0  | 45.5 | 22 | 60  | 20       | 67.8  | 39   | 17.8 |
|        | 20    | 107.1 | 100.0 | 50.5 | 30 | 70  | 20       | 77.3  | 44   | 18.5 |
|        | 22    | 117.1 | 110.0 | 50.5 | 30 | 80  | 20       | 82.2  | 44   | 18.5 |
|        | 25    | 132.1 | 125.0 | 54.5 | 35 | 90  | 20       | 90.2  | 48   | 18.5 |
|        | 30    | 157.1 | 150.0 | 56.5 | 38 | 110 | 30       | 102.4 | 50   | 18   |

Ordering Example:

1.5M16/16

1.5M ..... Module

16 ..... Teeth

# Metric Bevel Gear Sets

## 1:2 RATIO

| MODULE | Teeth | De    | Dp  | A    | F  | Dn | D1 ±1 mm | dm    | L    | Lm   |
|--------|-------|-------|-----|------|----|----|----------|-------|------|------|
| 1.5    | 16    | 26.7  | 24  | 18.5 | 8  | 21 | 10       | 34.9  | 17   | 10.3 |
|        | 32    | 49.3  | 48  | 20   | 8  | 32 | 12       | 27.5  | 17.5 | 10   |
| 2      | 16    | 35.6  | 32  | 23   | 10 | 27 | 10       | 45.4  | 21   | 12.2 |
|        | 32    | 65.8  | 64  | 25   | 10 | 40 | 12       | 35.2  | 22   | 10   |
| 2.5    | 16    | 44.4  | 40  | 27.5 | 12 | 34 | 12       | 56.0  | 25   | 14.4 |
|        | 32    | 82.2  | 80  | 30   | 12 | 50 | 15       | 43.0  | 26.5 | 15   |
| 3      | 16    | 53.4  | 48  | 28   | 15 | 40 | 15       | 61.6  | 25   | 11.6 |
|        | 32    | 98.7  | 96  | 35   | 15 | 60 | 15       | 50.4  | 30.5 | 15   |
| 3.5    | 16    | 62.3  | 56  | 33.5 | 18 | 48 | 15       | 72.3  | 30.5 | 14.4 |
|        | 32    | 115.1 | 112 | 40   | 18 | 70 | 20       | 57.7  | 35   | 19   |
| 4      | 16    | 71.1  | 64  | 36   | 20 | 50 | 20       | 80.8  | 32   | 13.4 |
|        | 32    | 131.6 | 128 | 45   | 20 | 80 | 20       | 65.5  | 39.5 | 23   |
| 4.5    | 16    | 80.1  | 72  | 39.5 | 22 | 60 | 20       | 90.4  | 35   | 15.4 |
|        | 32    | 148.0 | 144 | 50   | 22 | 80 | 25       | 73.2  | 43.5 | 24   |
| 5      | 16    | 88.9  | 80  | 50   | 25 | 60 | 20       | 106.1 | 45   | 21.1 |
|        | 32    | 164.5 | 160 | 55   | 25 | 85 | 25       | 80.6  | 48   | 27   |

## 1:3 RATIO

|     |    |       |     |      |    |     |    |       |    |      |
|-----|----|-------|-----|------|----|-----|----|-------|----|------|
| 1.5 | 16 | 26.9  | 24  | 22   | 12 | 20  | 10 | 46.3  | 21 | 9.7  |
|     | 48 | 72.9  | 72  | 22   | 12 | 42  | 15 | 29.2  | 19 | 12   |
| 2   | 16 | 35.8  | 32  | 25.5 | 15 | 25  | 12 | 58.9  | 24 | 9.4  |
|     | 48 | 97.3  | 96  | 26   | 15 | 50  | 15 | 35.9  | 22 | 13   |
| 2.5 | 16 | 44.7  | 40  | 28   | 18 | 33  | 14 | 70.4  | 26 | 9.2  |
|     | 48 | 121.6 | 120 | 32   | 18 | 60  | 20 | 44.6  | 27 | 16   |
| 3   | 16 | 53.7  | 48  | 30   | 18 | 42  | 15 | 84.2  | 28 | 11.2 |
|     | 48 | 145.9 | 144 | 38   | 18 | 65  | 20 | 54.1  | 32 | 19   |
| 3.5 | 16 | 62.6  | 56  | 36.5 | 22 | 48  | 15 | 98.8  | 34 | 13.4 |
|     | 48 | 170.2 | 168 | 44   | 22 | 75  | 20 | 62.5  | 37 | 23   |
| 4   | 16 | 71.6  | 64  | 42   | 25 | 55  | 20 | 113.3 | 39 | 15.7 |
|     | 48 | 194.5 | 192 | 50   | 25 | 85  | 22 | 71.2  | 42 | 27   |
| 4.5 | 16 | 80.6  | 72  | 53   | 28 | 60  | 20 | 133.4 | 50 | 23.4 |
|     | 48 | 218.8 | 216 | 58   | 28 | 90  | 25 | 81.9  | 49 | 27   |
| 5   | 16 | 88.5  | 80  | 60   | 35 | 60  | 20 | 145.7 | 57 | 22.5 |
|     | 48 | 243.1 | 240 | 65   | 35 | 100 | 28 | 90.5  | 55 | 35   |

## 1:4 RATIO

|     |    |       |     |      |    |     |    |       |    |      |
|-----|----|-------|-----|------|----|-----|----|-------|----|------|
| 1.5 | 16 | 26.9  | 24  | 25   | 12 | 18  | 10 | 61.1  | 24 | 12.2 |
|     | 64 | 96.7  | 96  | 25   | 12 | 60  | 15 | 33    | 22 | 13   |
| 2   | 16 | 35.9  | 32  | 24   | 15 | 25  | 12 | 73.1  | 23 | 8.5  |
|     | 64 | 129.0 | 128 | 28   | 15 | 70  | 20 | 38.9  | 24 | 14   |
| 2.5 | 16 | 44.9  | 40  | 30.5 | 18 | 34  | 15 | 92.6  | 29 | 11.7 |
|     | 64 | 161.2 | 160 | 35   | 18 | 80  | 20 | 48.8  | 30 | 16   |
| 3   | 16 | 53.8  | 48  | 32   | 20 | 40  | 15 | 108   | 30 | 11.1 |
|     | 64 | 193.5 | 192 | 42   | 20 | 90  | 20 | 58.8  | 36 | 22   |
| 3.5 | 16 | 62.8  | 56  | 40   | 25 | 45  | 15 | 127.1 | 38 | 14   |
|     | 64 | 225.7 | 224 | 50   | 25 | 100 | 25 | 69.3  | 43 | 22   |
| 4   | 16 | 71.7  | 64  | 50   | 30 | 50  | 20 | 148.2 | 48 | 18.5 |
|     | 64 | 257.9 | 256 | 60   | 30 | 110 | 28 | 81.8  | 52 | 30   |
| 4.5 | 16 | 80.7  | 72  | 55   | 32 | 60  | 20 | 167.1 | 53 | 21.6 |
|     | 64 | 290.1 | 288 | 65   | 32 | 120 | 30 | 89.8  | 57 | 35   |
| 5   | 16 | 89.7  | 80  | 60   | 35 | 65  | 20 | 185.1 | 58 | 23.2 |
|     | 64 | 322.4 | 320 | 70   | 35 | 120 | 30 | 97.7  | 61 | 42   |



**American Metric® Corporation**

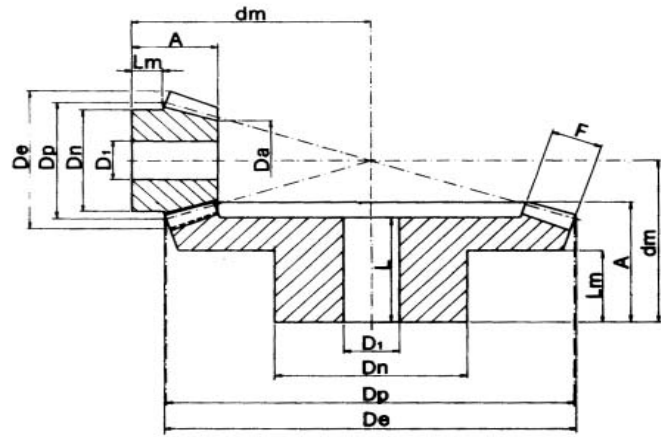
GROUP: 027

1-027 - 70411

# Metric Bevel Gear Sets

TYPE B

20 Degree Pressure Angle  
Material: C43 - UNI 7847



| M   | Z  | De    | Dp    | A    | F    | Dn   | D <sub>1</sub> | dm  | Da   | L  | Lm   |
|-----|----|-------|-------|------|------|------|----------------|-----|------|----|------|
| 1   | 16 | 17.4  | 16.0  | 11.2 | 4    | 13.3 | 4              | 16  | 7    |    | 6.7  |
|     | 19 | 20.4  | 19.0  | 11.8 | 4    | 15.3 | 4              | 18  | 11.5 |    | 6.6  |
|     | 22 | 23.4  | 22.0  | 12.8 | 4.7  | 16.3 | 5              | 20  | 11.5 |    | 6.1  |
|     | 26 | 27.4  | 26.0  | 13.3 | 5.5  | 20.3 | 5              | 22  | 14.5 |    | 7    |
| 1.5 | 30 | 31.4  | 30.0  | 16.0 | 6.4  | 20.3 | 5              | 26  | 17.5 |    | 8    |
|     | 16 | 26.1  | 24.0  | 18.9 | 6    | 20.3 | 8              | 26  | 12   |    | 12.2 |
|     | 19 | 30.6  | 28.5  | 21.3 | 7    | 20.3 | 8              | 30  | 14.5 |    | 11.6 |
|     | 22 | 35.1  | 33.0  | 22.5 | 7.5  | 25.3 | 8              | 33  | 17   |    | 12.7 |
| 2   | 26 | 41.1  | 39.0  | 23.2 | 8.5  | 28.3 | 8              | 36  | 22   |    | 12   |
|     | 30 | 47.1  | 45.0  | 27.2 | 10   | 30.0 | 12             | 42  | 26   |    | 12.1 |
|     | 16 | 34.8  | 32.0  | 23.5 | 8    | 25.3 | 8              | 33  | 15.5 |    | 13.6 |
|     | 19 | 40.8  | 38.0  | 24.2 | 9    | 25.3 | 8              | 36  | 19.5 |    | 12   |
| 2.5 | 22 | 46.8  | 44.0  | 27.9 | 10   | 30.3 | 10             | 42  | 23.5 |    | 14   |
|     | 26 | 54.8  | 52.0  | 31.4 | 12   | 35.3 | 12             | 48  | 29   |    | 13.7 |
|     | 30 | 62.8  | 60.0  | 34.1 | 13   | 40.3 | 12             | 54  | 36   |    | 17   |
|     | 16 | 43.5  | 40.0  | 28.1 | 10   | 30.3 | 12             | 40  | 20   |    | 15.2 |
| 3   | 19 | 51.0  | 47.5  | 27.1 | 11   | 35.3 | 12             | 42  | 25   |    | 13   |
|     | 22 | 58.5  | 55.0  | 30.1 | 12   | 45.3 | 12             | 48  | 31.5 |    | 15.7 |
|     | 26 | 68.5  | 65.0  | 33.2 | 15   | 45.3 | 15             | 54  | 36.5 |    | 16   |
|     | 30 | 78.5  | 75.0  | 39.0 | 16   | 50.3 | 15             | 64  | 45.5 |    | 20   |
| 3.5 | 16 | 52.2  | 48.0  | 31.7 | 12   | 40.3 | 12             | 46  | 23   |    | 18.1 |
|     | 19 | 61.2  | 57.0  | 36.0 | 13   | 40.3 | 14             | 54  | 30   |    | 17.1 |
|     | 22 | 70.2  | 66.0  | 36.9 | 15   | 50.3 | 15             | 58  | 36.5 |    | 17.1 |
|     | 26 | 82.2  | 78.0  | 38.4 | 17   | 50.3 | 15             | 64  | 45.5 |    | 18   |
| 4   | 30 | 94.2  | 90.0  | 43.8 | 19   | 60.3 | 20             | 74  | 55   |    | 22   |
|     | 16 | 60.9  | 56.0  | 36.4 | 14   | 45.3 | 15             | 53  | 27.5 |    | 19.8 |
|     | 19 | 71.4  | 66.5  | 36.9 | 15   | 50.3 | 15             | 58  | 35.3 |    | 18   |
|     | 22 | 81.9  | 77.0  | 39.1 | 17   | 55.3 | 15             | 64  | 43.5 |    | 18   |
| 4.5 | 26 | 95.9  | 91.0  | 42.2 | 20   | 60.3 | 20             | 72  | 52.3 |    | 20   |
|     | 30 | 110.0 | 105.0 | 47.3 | 23   | 70.3 | 20             | 82  | 67   | 43 | 22   |
|     | 16 | 69.7  | 64.0  | 44.3 | 15   | 50.3 | 15             | 64  | 32   |    | 25.1 |
|     | 22 | 93.7  | 88.0  | 45.9 | 20   | 60.3 | 18             | 74  | 49   |    | 22   |
| 5   | 26 | 109.7 | 104.0 | 48.0 | 23   | 70.3 | 20             | 82  | 65   | 43 | 22   |
|     | 30 | 125.7 | 120.0 | 54.2 | 26   | 80.3 | 25             | 94  | 76   | 49 | 25   |
|     | 16 | 78.4  | 72.0  | 46.3 | 17.5 | 55.3 | 18             | 68  | 35.5 |    | 25   |
|     | 22 | 105.3 | 99.0  | 50.1 | 22   | 70.3 | 20             | 82  | 56   | 25 | 25   |
| 5   | 26 | 123.3 | 117.0 | 53.2 | 25   | 75.3 | 20             | 92  | 68.1 | 45 | 25   |
|     | 30 | 141.4 | 135.0 | 60.0 | 29   | 80.3 | 25             | 105 | 85   | 54 | 28   |
|     | 16 | 87.1  | 80.0  | 48.9 | 18   | 60.3 | 20             | 74  | 42   |    | 25   |
|     | 19 | 102.1 | 95.0  | 52.2 | 22   | 60.3 | 20             | 82  | 50   |    | 25   |
| 5   | 22 | 117.1 | 110.0 | 58.2 | 24   | 80.3 | 20             | 94  | 68   | 52 | 30   |
|     | 26 | 137.1 | 130.0 | 62.7 | 29   | 80.3 | 20             | 105 | 82   | 57 | 30   |
|     | 30 | 157.1 | 150.0 | 68.9 | 32   | 80.3 | 30             | 119 | 97   | 63 | 35   |

Ratio 1:1

Ordering Example:  
1.5M16/16B



American Metric® Corporation

# Metric BEVEL GEAR SETS

## TYPE B

20 Degree Pressure Angle

Material: C43 - UNI 7847

| M          | Z  | De    | Dp    | A    | F    | Dn   | D <sub>1</sub> | dm  | Da   | L  | Lm   |
|------------|----|-------|-------|------|------|------|----------------|-----|------|----|------|
| <b>1</b>   | 15 | 17.4  | 15.0  | 11.9 | 5    | 13.3 | 4              | 22  | 8    |    | 6.6  |
|            | 30 | 30.6  | 30.0  | 15.1 | 5    | 20.3 | 5              | 20  |      | 14 | 9    |
| <b>1.5</b> | 15 | 26.1  | 22.5  | 21.1 | 9    | 20.3 | 8              | 35  | 11.5 |    | 12   |
|            | 30 | 45.9  | 45.0  | 25.2 | 9    | 32.3 | 8              | 32  |      | 23 | 16   |
| <b>2</b>   | 15 | 34.8  | 30.0  | 26   | 11.5 | 25.3 | 8              | 45  | 16   |    | 13.8 |
|            | 30 | 61.2  | 60.0  | 29.8 | 11.5 | 40.3 | 12             | 39  |      | 27 | 18   |
| <b>2.5</b> | 15 | 43.5  | 37.5  | 31.8 | 15   | 32.3 | 12             | 55  | 20   |    | 16.2 |
|            | 30 | 76.5  | 75.0  | 33.7 | 15   | 45.3 | 15             | 45  |      | 30 | 20   |
| <b>3</b>   | 15 | 52.2  | 45.0  | 37.3 | 17   | 40.3 | 12             | 66  | 25   |    | 19.8 |
|            | 30 | 91.8  | 90.0  | 42.1 | 17   | 55.3 | 15             | 56  |      | 38 | 25   |
| <b>3.5</b> | 15 | 60.9  | 52.5  | 46.1 | 20.5 | 45.3 | 15             | 79  | 28.5 |    | 24.7 |
|            | 30 | 107.1 | 105.0 | 45   | 20.5 | 60.3 | 20             | 61  |      | 40 | 25   |
| <b>4</b>   | 15 | 69.6  | 60.0  | 48.6 | 22.5 | 50.3 | 20             | 87  | 34   |    | 24.6 |
|            | 30 | 122.3 | 120.0 | 57.3 | 22.5 | 80.3 | 20             | 76  |      | 52 | 35   |
| <b>4.5</b> | 15 | 78.3  | 67.5  | 51.4 | 26   | 60.3 | 20             | 94  | 37.5 |    | 24.7 |
|            | 30 | 137.6 | 135.0 | 60.3 | 26   | 80.3 | 25             | 81  |      | 53 | 35   |
| <b>5</b>   | 15 | 87    | 75.0  | 57.6 | 30   | 60.3 | 20             | 104 | 40   |    | 25.3 |
|            | 30 | 152.9 | 150.0 | 62.5 | 30   | 80.3 | 25             | 85  |      | 56 | 35   |

**Ratio 1:2**

Ordering Example:  
1.5M15/30B

| M          | Z  | De    | Dp    | A    | F    | Dn   | D <sub>1</sub> | dm  | Da   | L    | Lm   |
|------------|----|-------|-------|------|------|------|----------------|-----|------|------|------|
| <b>1</b>   | 15 | 17.7  | 15.0  | 16.6 | 7.1  | 13.3 | 4              | 32  | 8    |      | 9.3  |
|            | 45 | 45.3  | 45.0  | 17.1 | 7.1  | 25.3 | 8              | 22  |      | 15   | 10   |
| <b>1.5</b> | 15 | 26.5  | 22.5  | 22.6 | 10.5 | 19.3 | 8              | 46  | 14   |      | 11.7 |
|            | 45 | 68.1  | 67.5  | 29.6 | 10.5 | 45.3 | 14             | 37  |      | 27   | 20   |
| <b>2</b>   | 15 | 35.4  | 30.0  | 28.9 | 14   | 25.3 | 8              | 60  | 18   |      | 14.2 |
|            | 45 | 90.8  | 90.0  | 32.1 | 14   | 45.3 | 15             | 42  |      | 29   | 20   |
| <b>2.5</b> | 15 | 44.2  | 37.5  | 34.6 | 18   | 32.3 | 12             | 73  | 22.5 |      | 15.9 |
|            | 45 | 113.4 | 112.5 | 39.7 | 18   | 60.3 | 20             | 52  |      | 36   | 25   |
| <b>3</b>   | 15 | 53    | 45.0  | 41.3 | 21   | 40.3 | 15             | 88  | 28.5 |      | 19.7 |
|            | 45 | 136.1 | 135.0 | 47.2 | 21   | 60.3 | 20             | 62  |      | 42.5 | 30   |
| <b>3.5</b> | 15 | 61.9  | 52.5  | 49.6 | 23.5 | 45.3 | 15             | 105 | 33.5 |      | 25.1 |
|            | 45 | 158.8 | 157.5 | 54.4 | 23.5 | 80.3 | 20             | 72  |      | 49   | 35   |
| <b>4</b>   | 15 | 70.7  | 60.0  | 54.3 | 27.5 | 50.3 | 20             | 117 | 38   |      | 25.4 |
|            | 45 | 181.5 | 180.0 | 57.0 | 27.5 | 80.3 | 22             | 77  |      | 51   | 35   |
| <b>4.5</b> | 15 | 79.5  | 67.5  | 55.2 | 28.5 | 55.3 | 20             | 128 | 44   |      | 24.8 |
|            | 45 | 204.2 | 202.5 | 63.9 | 28.5 | 90.3 | 25             | 87  |      | 57   | 40   |
| <b>5</b>   | 15 | 88.4  | 75.0  | 65.3 | 33   | 60.3 | 20             | 145 | 47   |      | 30   |
|            | 45 | 226.9 | 225.0 | 66.7 | 33   | 90.3 | 28             | 92  |      | 59   | 40   |

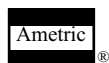
**Ratio 1:3**

Ordering Example:  
1.5M15/45B

| M          | Z  | De    | Dp    | A    | F   | Dn    | D <sub>1</sub> | dm  | Da   | L  | Lm   |
|------------|----|-------|-------|------|-----|-------|----------------|-----|------|----|------|
| <b>1</b>   | 15 | 17.8  | 15.0  | 17.2 | 9.3 | 13.3  | 4              | 38  | 8    |    | 7.7  |
|            | 60 | 60.3  | 60.0  | 17.1 | 9.3 | 30.3  | 8              | 22  |      | 15 | 10   |
| <b>1.5</b> | 15 | 26.7  | 22.5  | 23.0 | 11  | 20.3  | 8              | 57  | 15   |    | 11.7 |
|            | 60 | 90.4  | 90.0  | 34   | 11  | 50.3  | 15             | 42  |      | 31 | 25   |
| <b>2</b>   | 15 | 35.6  | 30.0  | 31   | 16  | 25.3  | 8              | 75  | 20   |    | 14.4 |
|            | 60 | 120.6 | 120.0 | 37.6 | 16  | 60.3  | 16             | 48  |      | 34 | 25   |
| <b>2.5</b> | 15 | 44.5  | 37.5  | 38.1 | 19  | 32.3  | 14             | 94  | 25   |    | 18.4 |
|            | 60 | 150.7 | 150.0 | 44.8 | 19  | 60.3  | 20             | 58  |      | 40 | 30   |
| <b>3</b>   | 15 | 53.3  | 45.0  | 48.1 | 23  | 40.3  | 15             | 115 | 30   |    | 24.5 |
|            | 60 | 180.8 | 180.0 | 53.2 | 23  | 80.3  | 20             | 69  |      | 48 | 35   |
| <b>3.5</b> | 15 | 62.2  | 52.5  | 52.1 | 26  | 45.3  | 15             | 131 | 36   |    | 25.1 |
|            | 60 | 211.0 | 210.0 | 60.4 | 26  | 90.3  | 25             | 79  |      | 54 | 40   |
| <b>4</b>   | 15 | 71.1  | 60.0  | 55.1 | 30  | 50.3  | 20             | 145 | 37.5 |    | 23.8 |
|            | 60 | 241.1 | 240.0 | 60.8 | 30  | 90.3  | 28             | 82  |      | 53 | 40   |
| <b>4.5</b> | 15 | 79.9  | 67.5  | 59.1 | 34  | 60.3  | 20             | 160 | 45.2 |    | 24.1 |
|            | 60 | 271.2 | 270.0 | 68.2 | 34  | 100.3 | 30             | 92  |      | 61 | 40   |
| <b>5</b>   | 15 | 88.8  | 75.0  | 68.1 | 38  | 70.3  | 20             | 180 | 50.1 |    | 29.4 |
|            | 60 | 301.3 | 300.0 | 73.5 | 38  | 110.3 | 30             | 100 |      | 66 | 40   |

**Ratio 1:4**

Ordering Example:  
1.5M15/60B



**American Metric® Corporation**

GROUP: 027

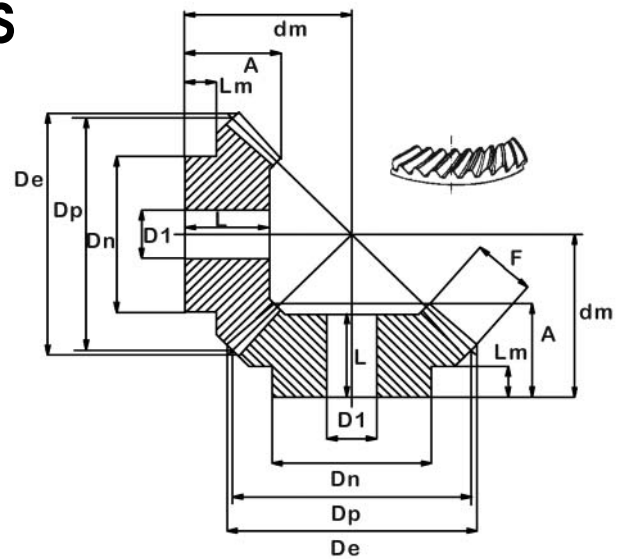
1-027 - 030324

# METRIC SPIRAL BEVEL GEAR SETS

20 Degree Pressure Angle

Material: AISI 1040

Minimum Plain Bore



1:1 RATIO

| MODULE | Teeth | De    | Dp    | A    | F  | Dn  | D1±1 mm | dm  | L    | Lm   |
|--------|-------|-------|-------|------|----|-----|---------|-----|------|------|
| 2      | 16    | 34.6  | 32.0  | 19.9 | 9  | 25  | 10      | 29  | 16.9 | 9.5  |
|        | 20    | 42.6  | 40.0  | 24.9 | 12 | 32  | 10      | 36  | 21.7 | 12   |
|        | 25    | 52.6  | 50.0  | 27.4 | 14 | 40  | 12      | 42  | 24.8 | 12   |
|        | 30    | 62.6  | 60.0  | 29.9 | 16 | 50  | 12      | 48  | 26.9 | 13   |
| 2.5    | 16    | 43.2  | 40.0  | 24.8 | 10 | 32  | 12      | 37  | 21.8 | 13   |
|        | 20    | 53.3  | 50.0  | 30.2 | 12 | 40  | 12      | 46  | 26.7 | 16   |
|        | 25    | 65.8  | 62.5  | 33.2 | 15 | 50  | 15      | 53  | 29.9 | 16   |
|        | 30    | 78.3  | 75.0  | 35.0 | 18 | 55  | 15      | 59  | 31.8 | 16   |
| 3      | 16    | 51.9  | 48.0  | 29.4 | 12 | 40  | 15      | 44  | 25.8 | 16   |
|        | 20    | 63.9  | 60.0  | 34.5 | 18 | 45  | 15      | 51  | 30.7 | 13.5 |
|        | 25    | 78.9  | 75.0  | 37.5 | 20 | 55  | 15      | 60  | 33.7 | 16   |
|        | 30    | 93.9  | 90.0  | 39.5 | 22 | 60  | 20      | 68  | 35.8 | 19   |
| 3.5    | 16    | 60.2  | 56.0  | 34.1 | 14 | 45  | 15      | 51  | 29.5 | 17.5 |
|        | 20    | 74.2  | 70.0  | 35.9 | 15 | 55  | 15      | 59  | 31.2 | 19   |
|        | 25    | 91.7  | 87.5  | 43.6 | 26 | 65  | 20      | 68  | 38.7 | 18   |
|        | 30    | 109.2 | 105.0 | 45.8 | 30 | 70  | 20      | 76  | 40.9 | 17   |
| 4      | 16    | 68.8  | 64.0  | 36.0 | 15 | 50  | 15      | 56  | 30.8 | 17   |
|        | 20    | 84.8  | 80.0  | 37.5 | 17 | 60  | 18      | 64  | 32.5 | 18   |
|        | 25    | 104.8 | 100.0 | 40.4 | 21 | 70  | 20      | 74  | 35.2 | 18   |
|        | 30    | 124.8 | 120.0 | 43.2 | 25 | 80  | 25      | 84  | 38.1 | 16   |
| 4.5    | 16    | 77.4  | 72.0  | 39.3 | 15 | 55  | 18      | 63  | 33.5 | 18.5 |
|        | 20    | 95.4  | 90.0  | 42.8 | 20 | 65  | 20      | 72  | 36.5 | 18   |
|        | 25    | 117.9 | 112.5 | 45.0 | 25 | 75  | 20      | 82  | 39.0 | 18   |
|        | 30    | 140.4 | 135.0 | 48.0 | 28 | 90  | 25      | 94  | 42.0 | 17   |
| 5      | 16    | 86.0  | 80.0  | 41.9 | 17 | 60  | 20      | 68  | 35.5 | 18   |
|        | 20    | 106.0 | 100.0 | 44.7 | 21 | 70  | 20      | 78  | 37.7 | 18.5 |
|        | 25    | 131.0 | 125.0 | 47.8 | 26 | 90  | 20      | 90  | 41.8 | 18.5 |
|        | 30    | 156.0 | 150.0 | 52.5 | 32 | 110 | 30      | 103 | 45.7 | 18   |

Ordering Example:

2XM16/16

2XM ..... Module

X ..... Spiral

16 ..... Teeth

# Metric Spiral Bevel Gear Sets

## 1:2 RATIO

| MODULE | Teeth | De    | Dp  | A    | F  | Dn | D1±1 mm | dm  | L    | Lm   |
|--------|-------|-------|-----|------|----|----|---------|-----|------|------|
| 2      | 16    | 36.6  | 32  | 22.5 | 10 | 27 | 10      | 45  | 21.0 | 11.7 |
|        | 32    | 65.0  | 64  | 24.1 | 10 | 40 | 12      | 35  | 21.5 | 10   |
| 2.5    | 16    | 45.7  | 40  | 27.5 | 12 | 34 | 12      | 56  | 25.1 | 14.5 |
|        | 32    | 81.3  | 80  | 29.2 | 12 | 50 | 15      | 43  | 25.9 | 15   |
| 3      | 16    | 54.1  | 48  | 28.4 | 15 | 40 | 15      | 62  | 25.2 | 12   |
|        | 32    | 97.5  | 96  | 34.6 | 15 | 60 | 15      | 51  | 29.8 | 15   |
| 3.5    | 16    | 63.2  | 56  | 33.3 | 18 | 48 | 15      | 72  | 30.8 | 14   |
|        | 32    | 113.8 | 112 | 39.1 | 18 | 70 | 20      | 58  | 34.1 | 19   |
| 4      | 16    | 72.2  | 64  | 36.2 | 20 | 50 | 20      | 81  | 32.2 | 13.5 |
|        | 32    | 130.0 | 128 | 44.2 | 20 | 80 | 20      | 66  | 38.7 | 23   |
| 4.5    | 16    | 81.2  | 72  | 40.2 | 22 | 60 | 20      | 91  | 35.3 | 16   |
|        | 32    | 146.2 | 144 | 49.2 | 22 | 80 | 25      | 74  | 42.4 | 24   |
| 5      | 16    | 90.2  | 80  | 50.0 | 25 | 60 | 20      | 106 | 45.3 | 21   |
|        | 32    | 162.5 | 160 | 53.7 | 25 | 85 | 25      | 81  | 46.8 | 27   |

## 1:3 RATIO

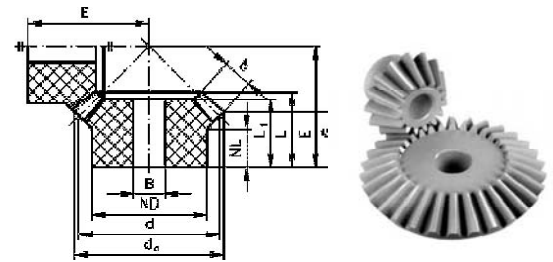
|     |    |       |     |      |    |     |    |     |      |      |
|-----|----|-------|-----|------|----|-----|----|-----|------|------|
| 2   | 16 | 37.1  | 32  | 25.6 | 15 | 25  | 12 | 59  | 24   | 9.7  |
|     | 48 | 96.6  | 96  | 25.2 | 15 | 50  | 15 | 36  | 21.4 | 13   |
| 2.5 | 16 | 46.4  | 40  | 27.7 | 18 | 33  | 14 | 70  | 26.2 | 8.9  |
|     | 48 | 120.8 | 120 | 31.4 | 18 | 60  | 20 | 45  | 26.3 | 16   |
| 3   | 16 | 54.8  | 48  | 29.8 | 18 | 42  | 15 | 84  | 28.1 | 11   |
|     | 48 | 145.0 | 144 | 36.6 | 18 | 65  | 20 | 54  | 31.1 | 19   |
| 3.5 | 16 | 64.0  | 56  | 36.8 | 22 | 48  | 15 | 99  | 33.9 | 13.6 |
|     | 48 | 169.1 | 168 | 43.1 | 22 | 75  | 20 | 63  | 36   | 23   |
| 4   | 16 | 73.1  | 64  | 41.7 | 25 | 55  | 20 | 113 | 39.2 | 15.5 |
|     | 48 | 193.3 | 192 | 49.2 | 25 | 85  | 22 | 72  | 40.9 | 27   |
| 4.5 | 16 | 82.2  | 72  | 53.7 | 28 | 60  | 20 | 134 | 50.2 | 24   |
|     | 48 | 217.4 | 216 | 56.2 | 28 | 90  | 25 | 82  | 47.6 | 27   |
| 5   | 16 | 91.4  | 80  | 60.4 | 35 | 60  | 20 | 146 | 57.2 | 22.7 |
|     | 48 | 241.6 | 240 | 63.6 | 35 | 100 | 28 | 91  | 53.6 | 35   |

## 1:4 RATIO

|     |    |       |     |      |    |     |    |     |      |      |
|-----|----|-------|-----|------|----|-----|----|-----|------|------|
| 2   | 16 | 37.3  | 32  | 24   | 15 | 25  | 12 | 73  | 23.1 | 8.2  |
|     | 64 | 128.5 | 128 | 27.2 | 15 | 70  | 20 | 39  | 23.3 | 14   |
| 2.5 | 16 | 46.7  | 40  | 31   | 18 | 34  | 15 | 93  | 29.1 | 12.2 |
|     | 64 | 160.6 | 160 | 34.2 | 18 | 80  | 20 | 49  | 29.2 | 16   |
| 3   | 16 | 55.1  | 48  | 32.1 | 20 | 40  | 15 | 108 | 30.2 | 11   |
|     | 64 | 192.7 | 192 | 40.9 | 20 | 90  | 20 | 59  | 35.1 | 22   |
| 3.5 | 16 | 64.3  | 56  | 40   | 25 | 45  | 15 | 127 | 38.2 | 13.6 |
|     | 64 | 224.8 | 224 | 49.2 | 25 | 100 | 25 | 70  | 41.9 | 22   |
| 4   | 16 | 73.4  | 64  | 50   | 30 | 50  | 20 | 148 | 48.3 | 18.3 |
|     | 64 | 256.9 | 256 | 58.6 | 30 | 110 | 28 | 82  | 50.8 | 30   |
| 4.5 | 16 | 82.6  | 72  | 55   | 32 | 60  | 20 | 167 | 53.2 | 21.5 |
|     | 64 | 289.1 | 288 | 63.2 | 32 | 120 | 30 | 90  | 55.5 | 35   |
| 5   | 16 | 91.8  | 80  | 60.1 | 35 | 65  | 20 | 185 | 58.3 | 23.2 |
|     | 64 | 321.2 | 320 | 68.1 | 35 | 120 | 30 | 98  | 59.4 | 42   |

# METRIC Injection Molded Bevel Gears

Material: Acetal Resin (Hostaform C)



## Bevel Gears

| Part No.    | Module | Ratio | Teeth | Outside<br>Ø<br>d <sub>a</sub> | Pitch Ø<br>d | Hub Ø<br>ND | NL   | L <sub>1</sub> | L    | b    | Bore Ø<br>B | E    | G    | MD<br>Ncm | Weight<br>g |
|-------------|--------|-------|-------|--------------------------------|--------------|-------------|------|----------------|------|------|-------------|------|------|-----------|-------------|
| 0.5AM16R1.1 | 0.5    | 1 : 1 | 16    | 8.7                            | 8            | 7           | 6    | 8              | 8    | 2    | 3           | 10.5 | 6.6  | 0.9       | 0.3         |
| 1AM16R1.1   | 1.0    | 1 : 1 | 16    | 17.6                           | 16           | 12          | 8    | 13.6           | 13.6 | 4.7  | 5           | 18.4 | 10.6 | 8.3       | 1.9         |
| 1AM30R1.1   | 1.0    | 1 : 1 | 30    | 31.4                           | 30           | 15          | 7.4  | 12.9           | 15.3 | 7.4  | 6           | 24.8 | 10.8 | 58.0      | 5.9         |
| 1AM15R2.1   | 1.0    | 2 : 1 | 15    | 16.8                           | 15           | 12.2        | 10.6 | 17             | 17   | 6.6  | 5           | 26.4 | 11.5 | 12.0      | 2.4         |
| 1AM30R2.1   | 1.0    | 2 : 1 | 30    | 31.1                           | 30           | 18          | 9.1  | 14.8           | 16.2 | 6.6  | 8           | 20.9 | 13.6 | 12.0      | 6.3         |
| 1AM15R3.1   | 1.0    | 3 : 1 | 15    | 16.6                           | 15           | 12.3        | 11   | 20.4           | 20.4 | 9.2  | 5           | 34.3 | 12.1 | 16.0      | 2.7         |
| 1AM45R3.1   | 1.0    | 3 : 1 | 45    | 46.1                           | 45           | 23.4        | 9.6  | 16.5           | 18.2 | 9.2  | 10          | 22.7 | 15.7 | 16.0      | 16.0        |
| 1AM10R4.1   | 1.0    | 4 : 1 | 10    | 12                             | 10           | 7.8         | 903  | 17.7           | 17.7 | 8.2  | 4           | 30.1 | 10.1 | 4.5       | 0.9         |
| 1AM40R4.1   | 1.0    | 4 : 1 | 40    | 40.8                           | 40           | 23.4        | 10.8 | 15.7           | 17   | 8.2  | 10          | 20.1 | 15.1 | 4.5       | 12.6        |
| 1AM12R5.1   | 1.0    | 5 : 1 | 12    | 13.7                           | 12           | 9.5         | 10   | 20.3           | 20.3 | 9.5  | 4           | 40.5 | 10.5 | 12.0      | 2.0         |
| 1AM60R5.1   | 1.0    | 5 : 1 | 60    | 60.4                           | 60           | 20.5        | 11   | 15.5           | 17.4 | 9.5  | 10          | 21   | 15.4 | 12.0      | 17.0        |
| 1.5AM16R1.1 | 1.5    | 1 : 1 | 16    | 26.4                           | 24           | 18.5        | 10   | 16.2           | 18.4 | 7    | 8           | 25.8 | 14.4 | 29.0      | 5.9         |
| 1.5AM15R2.1 | 1.5    | 2 : 1 | 15    | 25.4                           | 22.5         | 17          | 11.5 | 22.8           | 22.8 | 10.5 | 8           | 35.8 | 13.8 | 43.0      | 7.5         |
| 1.5AM30R2.1 | 1.5    | 2 : 1 | 30    | 46.4                           | 45           | 23.4        | 9.6  | 17.5           | 19.5 | 10.5 | 10          | 26.2 | 15.0 | 43.0      | 17.0        |
| 1.5AM15R3.1 | 1.5    | 3 : 1 | 15    | 25.1                           | 22.5         | 17.2        | 12.5 | 26.8           | 26.8 | 14   | 8           | 47.9 | 13.5 | 64.0      | 8.5         |
| 1.5AM45R3.1 | 1.5    | 3 : 1 | 45    | 68.8                           | 67.5         | 30.4        | 11.5 | 21.5           | 23   | 14   | 12          | 29.4 | 19.2 | 64.0      | 49.0        |
| 1.5AM10R4.1 | 1.5    | 4 : 1 | 10    | 18                             | 15           | 11.3        | 10.9 | 23.5           | 23.5 | 12.3 | 5           | 41.7 | 11.7 | 17.0      | 3.0         |
| 1.5AM40R4.1 | 1.5    | 4 : 1 | 40    | 61.2                           | 60           | 30.4        | 12.8 | 20             | 21.7 | 12.3 | 12          | 26.2 | 18.6 | 17.0      | 32.0        |
| 2AM16R1.1   | 2.0    | 1 : 1 | 16    | 34.9                           | 32           | 21.9        | 9.6  | 18.3           | 21.2 | 10   | 10          | 30.4 | 14.9 | 73.0      | 10.4        |
| 2AM15R2.1   | 2.0    | 2 : 1 | 15    | 33.6                           | 30           | 22.5        | 11.8 | 26             | 27   | 14.6 | 10          | 44.2 | 14.5 | 107.0     | 13.3        |
| 2AM30R2.1   | 2.0    | 2 : 1 | 30    | 62.2                           | 60           | 30.2        | 11.8 | 22.6           | 24.2 | 14.6 | 12          | 32.6 | 18.5 | 107.0     | 41.0        |
| 2AM10R3.1   | 2.0    | 3 : 1 | 10    | 24                             | 20           | 16.6        | 12   | 25             | 25   | 12.5 | 6           | 43.7 | 13.2 | 30.0      | 6.1         |
| 2AM30R3.1   | 2.0    | 3 : 1 | 30    | 61.7                           | 60           | 30.3        | 11.5 | 20.2           | 22.5 | 12.5 | 12          | 28   | 19.0 | 30.0      | 38.0        |
| 2AM10R4.1   | 2.0    | 4 : 1 | 10    | 23.8                           | 20           | 14.3        | 12.8 | 28.9           | 28.9 | 16.3 | 6           | 54   | 13.2 | 40.0      | 6.4         |
| 2AM40R4.1   | 2.0    | 4 : 1 | 40    | 81.5                           | 80           | 36          | 16.6 | 24.7           | 27   | 16.3 | 18          | 32.5 | 23.1 | 40.0      | 65.0        |
| 2.5AM16R1.1 | 2.5    | 1 : 1 | 16    | 43.5                           | 40           | 25.2        | 11.5 | 22.9           | 26.3 | 12.3 | 12          | 37   | 18.2 | 145.0     | 20.0        |
| 2.5AM15R2.1 | 2.5    | 2 : 1 | 15    | 42                             | 37.5         | 26.5        | 13   | 29.6           | 31.2 | 17.3 | 12          | 53.3 | 16.4 | 209.0     | 23.6        |
| 2.5AM30R2.1 | 2.5    | 2 : 1 | 30    | 77.3                           | 75           | 36.1        | 15   | 27.5           | 29.5 | 17.3 | 16          | 40.5 | 22.8 | 209.0     | 69.0        |
| 2.5AM10R3.1 | 2.5    | 3 : 1 | 10    | 29.7                           | 25           | 18.8        | 13   | 28.8           | 28.8 | 15.7 | 8           | 52.4 | 14.1 | 60.0      | 10.2        |
| 2.5AM30R3.1 | 2.5    | 3 : 1 | 30    | 77.2                           | 75           | 36.1        | 15.5 | 25.2           | 29   | 15.7 | 18          | 35.7 | 24.1 | 60.0      | 68.0        |
| 3AM16R1.1   | 3.0    | 1 : 1 | 16    | 52.3                           | 48           | 28.8        | 13.2 | 25.8           | 29.2 | 13.8 | 14          | 43   | 20.6 | 250.0     | 32.0        |
| 3AM15R2.1   | 3.0    | 2 : 1 | 15    | 50.3                           | 45           | 31.2        | 14.8 | 35             | 36.3 | 20.5 | 14          | 63.3 | 19.0 | 370.0     | 38.0        |
| 3AM30R2.1   | 3.0    | 2 : 1 | 30    | 93                             | 90           | 45          | 19   | 34.2           | 37   | 20.5 | 18          | 49.5 | 29.2 | 370.0     | 129.0       |
| 3.5AM16R1.1 | 3.5    | 1 : 1 | 16    | 61.4                           | 56           | 33.3        | 14.4 | 28.1           | 33.1 | 15.8 | 18          | 49.5 | 22.8 | 440.0     | 50.0        |

Note: Injection molded bevel gears sold individually, not as a set.

### Sample Part:

0.5AM16R1.1

0.5 = Module

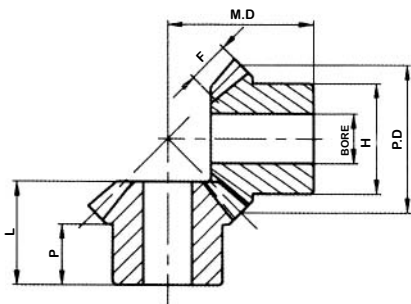
AM = Injection Molded

16 = No. Teeth

R1.1 = Ratio

# American Standard (ANSI) MPB Steel Miter Gears

## Pressure Angle 20°



Bored to Size Gears  
Available in Standard ANSI  
or Metric (ISO) Bores,  
Keyways and (2) Setscrews



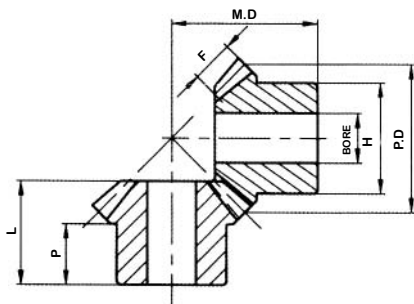
### 1:1 Steel - Plain Bore - Unhardened Teeth

| Part No.   | PD   | OD   | MD     | Bore   |        | Dimensions |         |         |       | Weight |
|------------|------|------|--------|--------|--------|------------|---------|---------|-------|--------|
|            |      |      |        | Stock  | Max    | F          | L       | P       | H     |        |
| 4DP24/24   | 6.00 | 6.36 | 5 1/2  | 1 1/2  | 2 3/8  | 1.330      | 3 9/16  | 1 15/16 | 4     | 14.50  |
| 4DP24/24A  | 6.00 | 6.36 | 5 1/2  | 1 3/4  | 2 3/8  | 1.330      | 3 9/16  | 1 15/16 | 4     | 14.00  |
| 4DP28/28   | 7.00 | 7.36 | 6      | 2      | 3      | 1.430      | 3 5/8   | 1 15/16 | 5     | 21.50  |
| 5DP25/25   | 5.00 | 5.29 | 4 5/8  | 1 3/8  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 8.80   |
| 5DP25/25A  | 5.00 | 5.29 | 4 5/8  | 1 1/2  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 8.40   |
| 5DP25/25B  | 5.00 | 5.29 | 4 5/8  | 1 3/4  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 7.80   |
| 6DP24/24   | 4.00 | 4.24 | 3 5/8  | 1 1/4  | 2      | 0.860      | 2 5/16  | 1 5/16  | 3     | 4.40   |
| 6DP24/24A  | 4.00 | 4.24 | 3 5/8  | 1 1/2  | 2      | 0.860      | 2 5/16  | 1 5/16  | 3     | 4.30   |
| 6DP27/27   | 4.50 | 4.74 | 4 1/8  | 1 1/4  | 2 3/16 | 0.960      | 2 5/8   | 1 1/2   | 3 1/4 | 6.30   |
| 6DP27/27A  | 4.50 | 4.74 | 4 1/8  | 1 1/2  | 2 3/16 | 0.960      | 2 5/8   | 1 1/2   | 3 1/4 | 5.90   |
| 8DP24/24   | 3.00 | 3.18 | 2 9/16 | 3/4    | 1      | 0.640      | 1 37/64 | 13/16   | 1 3/4 | 1.50   |
| 8DP24/24A  | 3.00 | 3.18 | 2 3/4  | 1      | 1 3/8  | 0.640      | 1 49/64 | 1       | 2 1/2 | 2.10   |
| 8DP24/24B  | 3.00 | 3.18 | 2 3/4  | 1 1/4  | 1 5/8  | 0.640      | 1 49/64 | 1       | 2 1/2 | 1.90   |
| 8DP28/28   | 3.50 | 3.68 | 3 1/4  | 1      | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.90   |
| 8DP28/28A  | 3.50 | 3.68 | 3 1/4  | 1 3/16 | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.80   |
| 8DP28/28B  | 3.50 | 3.68 | 3 1/4  | 1 1/4  | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.60   |
| 8DP32/32   | 4.00 | 4.18 | 3 5/8  | 1      | 2      | 0.840      | 2 9/32  | 1 1/8   | 3     | 4.80   |
| 10DP20/20A | 2.00 | 2.14 | 2      | 1/2    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.75   |
| 10DP20/20B | 2.00 | 2.14 | 2      | 5/8    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.72   |
| 10DP20/20  | 2.00 | 2.14 | 2      | 3/4    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.67   |
| 10DP20/20C | 2.00 | 2.14 | 2      | 7/8    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.58   |
| 10DP25/25  | 2.50 | 2.64 | 2 7/16 | 3/4    | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DP25/25A | 2.50 | 2.64 | 2 7/16 | 7/8    | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DP25/25B | 2.50 | 2.64 | 2 7/16 | 1      | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DP30/30  | 3.00 | 3.14 | 2 3/4  | 3/4    | 1 5/8  | 0.640      | 1 3/4   | 1       | 2     | 1.80   |
| 12DP15/15  | 1.25 | 1.37 | 1 1/4  | 3/8    | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.17   |
| 12DP15/15A | 1.25 | 1.37 | 1 1/4  | 7/16   | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.16   |
| 12DP15/15B | 1.25 | 1.37 | 1 1/4  | 1/2    | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.15   |
| 12DP18/18  | 1.50 | 1.62 | 1 1/2  | 1/2    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.30   |
| 12DP18/18A | 1.50 | 1.62 | 1 1/2  | 5/8    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.25   |
| 12DP18/18  | 1.50 | 1.62 | 1 1/2  | 3/4    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.22   |
| 12DP21/21  | 1.75 | 1.87 | 1 3/4  | 1/2    | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.45   |
| 12DP21/21A | 1.75 | 1.87 | 1 3/4  | 9/16   | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.45   |
| 12DP21/21B | 1.75 | 1.87 | 1 3/4  | 5/8    | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.43   |
| 12DP21/21C | 1.75 | 1.87 | 1 3/4  | 3/4    | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.38   |
| 12DP24/24  | 2.00 | 2.12 | 1 7/8  | 1/2    | 1      | 0.430      | 1 7/32  | 11/16   | 1 1/2 | 0.62   |
| 12DP30/30  | 2.50 | 2.62 | 2 5/16 | 5/8    | 1 1/4  | 0.540      | 1 31/64 | 27/32   | 1 3/4 | 1.10   |
| 14DP14/14A | 1.00 | 1.11 | 1 1/16 | 3/8    | 5/8    | 0.190      | 47/64   | 1/2     | 7/8   | 0.10   |
| 14DP14/14  | 1.00 | 1.11 | 1 1/16 | 7/16   | 5/8    | 0.190      | 47/64   | 1/2     | 7/8   | 0.10   |
| 16DP12/12  | 0.75 | 0.84 | 13/16  | 5/16   | 7/16   | 0.160      | 37/64   | 3/8     | 5/8   | 0.10   |
| 16DP16/16  | 1.00 | 1.09 | 1 1/16 | 3/8    | 1/2    | 0.220      | 3/4     | 7/16    | 3/4   | 0.10   |
| 16DP20/20  | 1.25 | 1.34 | 1 1/4  | 7/16   | 5/8    | 0.270      | 27/32   | 1/2     | 1     | 0.20   |
| 16DP24/24  | 1.50 | 1.59 | 1 3/8  | 1/2    | 7/8    | 0.310      | 7/8     | 1/2     | 1     | 0.20   |
| 20DP20/20  | 1.00 | 1.07 | 1 1/8  | 3/8    | 5/8    | 0.230      | 13/16   | 1/2     | 3/4   | 0.10   |
| 20DP25/25  | 1.25 | 1.32 | 1 3/16 | 3/8    | 3/4    | 0.250      | 3/4     | 7/16    | 1     | 0.10   |
| 24DP24/24  | 1.00 | 1.06 | 29/32  | 1/4    | 1/2    | 0.200      | 9/16    | 9/32    | 5/8   | 0.10   |



# American Standard (ANSI) MPB Steel Miter Gears

## Pressure Angle 20°



Bored to Size Gears  
Available in Standard ANSI  
or Metric (ISO) Bores,  
Keyways and (2) Setscrews



1:1

Steel - Plain Bore - Hardened Teeth

| Part No.    | PD   | OD   | MD     | Bore   |        | Dimensions |         |         |       | Weight |
|-------------|------|------|--------|--------|--------|------------|---------|---------|-------|--------|
|             |      |      |        | Stock  | Max    | F          | L       | P       | H     |        |
| 4DPH24/24   | 6.00 | 6.36 | 5 1/2  | 1 1/2  | 2 3/8  | 1.330      | 3 9/16  | 1 15/16 | 4     | 14.50  |
| 4DPH24/24A  | 6.00 | 6.36 | 5 1/2  | 1 3/4  | 2 3/8  | 1.330      | 3 9/16  | 1 15/16 | 4     | 14.00  |
| 4DPH28/28   | 7.00 | 7.36 | 6      | 2      | 3      | 1.430      | 3 5/8   | 1 15/16 | 5     | 21.50  |
| 5DPH25/25   | 5.00 | 5.29 | 4 5/8  | 1 3/8  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 8.80   |
| 5DPH25/25A  | 5.00 | 5.29 | 4 5/8  | 1 1/2  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 8.40   |
| 5DPH25/25B  | 5.00 | 5.29 | 4 5/8  | 1 3/4  | 2 1/4  | 1.100      | 3       | 1 3/4   | 3 1/2 | 7.80   |
| 6DPH24/24   | 4.00 | 4.24 | 3 5/8  | 1 1/4  | 2      | 0.860      | 2 5/16  | 1 5/16  | 3     | 4.40   |
| 6DPH24/24A  | 4.00 | 4.24 | 3 5/8  | 1 1/2  | 2      | 0.860      | 2 5/16  | 1 5/16  | 3     | 4.30   |
| 6DPH27/27   | 4.50 | 4.74 | 4 1/8  | 1 1/4  | 2 3/16 | 0.960      | 2 5/8   | 1 1/2   | 3 1/4 | 6.30   |
| 6DPH27/27A  | 4.50 | 4.74 | 4 1/8  | 1 1/2  | 3/16   | 0.960      | 2 5/8   | 1 1/2   | 3 1/4 | 5.90   |
| 8DPH24/24   | 3.00 | 3.18 | 2 9/16 | 3/4    | 1      | 0.640      | 1 37/64 | 13/16   | 1 3/4 | 1.50   |
| 8DPH24/24A  | 3.00 | 3.18 | 2 3/4  | 1      | 1 3/8  | 0.640      | 1 49/64 | 1       | 2 1/2 | 2.10   |
| 8DPH24/24B  | 3.00 | 3.18 | 2 3/4  | 1 1/4  | 1 5/8  | 0.640      | 1 49/64 | 1       | 2 1/2 | 1.90   |
| 8DPH28/28   | 3.50 | 3.68 | 3 1/4  | 1      | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.90   |
| 8DPH28/28A  | 3.50 | 3.68 | 3 1/4  | 1 3/16 | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.80   |
| 8DPH28/28B  | 3.50 | 3.68 | 3 1/4  | 1 1/4  | 1 5/8  | 0.750      | 2 3/32  | 1 1/4   | 2 1/2 | 2.60   |
| 8DPH32/32   | 4.00 | 4.18 | 3 5/8  | 1      | 2      | 0.840      | 2 9/32  | 1 1/8   | 3     | 4.80   |
| 10DPH20/20A | 2.00 | 2.14 | 2      | 1/2    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.75   |
| 10DPH20/20B | 2.00 | 2.14 | 2      | 5/8    | 7/8    | 0.440      | 1 23/64 | 13/16   | 1 5/8 | 0.72   |
| 10DPH20/20  | 2.00 | 2.14 | 2      | 3/4    | 7/8    | 0.440      | 1 23/64 | 1 3/16  | 1 5/8 | 0.67   |
| 10DPH20/20C | 2.00 | 2.14 | 2      | 7/8    | 7/8    | 0.440      | 1 23/64 | 1 3/16  | 1 5/8 | 0.58   |
| 10DPH25/25  | 2.50 | 2.64 | 2 7/16 | 3/4    | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DPH25/25A | 2.50 | 2.64 | 2 7/16 | 7/8    | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DPH25/25B | 2.50 | 2.64 | 2 7/16 | 1      | 1 1/4  | 0.550      | 1 5/8   | 15/16   | 2     | 1.20   |
| 10DPH30/30  | 3.00 | 3.14 | 2 3/4  | 3/4    | 1 5/8  | 0.640      | 1 3/4   | 1       | 2     | 1.80   |
| 12DPH15/15  | 1.25 | 1.37 | 1 1/4  | 3/8    | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.17   |
| 12DPH15/15A | 1.25 | 1.37 | 1 1/4  | 7/16   | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.16   |
| 12DPH15/15B | 1.25 | 1.37 | 1 1/4  | 1/2    | 3/4    | 0.270      | 55/64   | 1/2     | 1     | 0.15   |
| 12DPH18/18  | 1.50 | 1.62 | 1 1/2  | 1/2    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.30   |
| 12DPH18/18A | 1.50 | 1.62 | 1 1/2  | 5/8    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.25   |
| 12DPH18/18B | 1.50 | 1.62 | 1 1/2  | 3/4    | 7/8    | 0.320      | 1 1/64  | 5/8     | 1 1/4 | 0.22   |
| 12DPH21/21  | 1.75 | 1.87 | 1 3/4  | 1/2    | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.45   |
| 12DPH21/21A | 1.75 | 1.87 | 1 3/4  | 5/8    | 1      | 0.390      | 1 3/16  | 11/16   | 1 3/8 | 0.45   |
| 12DPH24/24  | 2.00 | 2.12 | 1 7/8  | 1/2    | 1      | 0.430      | 1 7/32  | 11/16   | 1 1/2 | 0.62   |
| 12DPH30/30  | 2.50 | 2.62 | 2 5/16 | 5/8    | 1 1/4  | 0.540      | 1 31/64 | 27/32   | 1 1/2 | 1.1    |
| 14DPH14/14  | 1.00 | 1.11 | 1 1/16 | 3/8    | 5/8    | 0.190      | 47/64   | 1/2     | 7/8   | 0.10   |
| 14DPH14/14A | 1.00 | 1.1  | 1 1/16 | 7/16   | 5/8    | 0.190      | 47/64   | 1/2     | 7/8   | 0.10   |
| 16DPH15/15  |      |      |        |        |        |            |         |         |       |        |
| 16DPH16/16  | 1.00 | 1.09 | 1 1/16 | 3/8    | 1/2    | 0.220      | 3/4     | 7/16    | 3/4   | 0.10   |
| 16DPH24/24  | 1.50 | 1.50 | 1 3/8  | 1/2    | 7/8    | 0.310      | 7/8     | 1/2     | 1     | 0.20   |
| 24DPH24/24  | 1.00 | 1.06 | 29/32  | 1/4    | 1/2    | 0.200      | 9/16    | 9/32    | 5/8   | 0.10   |

Ordering Example:

4DPH24/24A

4DP= 4 Diametrical Pitch

H= Hardened Teeth

24 = 1st Gear Number of Teeth

/24 = 2nd Gear Number of Teeth

A = Version



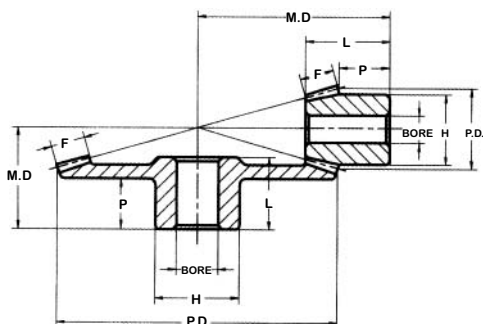
**American Metric® Corporation**

GROUP: 127

1-127-050103

# American Standard (ANSI) MPB Steel Bevel Gears

## Pressure Angle 20°



Bored to Size Gears  
Available in Standard ANSI  
or Metric (ISO) Bores,  
Keyways and (2) Setscrews



1:3

### Unhardened Steel Bevel Gears

| Part No.  | PD            | OD            | MD             | Bore           |                  | Dimensions     |                    |                   |                | Weight      |
|-----------|---------------|---------------|----------------|----------------|------------------|----------------|--------------------|-------------------|----------------|-------------|
|           |               |               |                | Stock          | Max              | F              | L                  | P                 | H              |             |
| 4DP14/42  | 10.50<br>3.50 | 10.59<br>4.17 | 4<br>7 1/4     | 1 1/8<br>1 1/8 | 2 1/4<br>1 13/16 | 1.420<br>1.420 | 2 11/16<br>3 27/64 | 1 1/2<br>1 15/16  | 3 3/4<br>3 1/4 | 26.4<br>7.0 |
| 5DP15/45  | 9.00<br>3.00  | 9.07<br>3.54  | 3 3/4<br>5 7/8 | 1 1/4<br>1     | 2 1/4<br>1 1/2   | 1.310<br>1.310 | 2 1/2<br>2 11/16   | 1 11/16<br>1 5/16 | 3 3/4<br>2 5/8 | 17.1<br>3.6 |
| 6DP15/45  | 7.50<br>2.50  | 7.56<br>2.94  | 3<br>5 1/4     | 1 1/8<br>5 1/4 | 2 1/4<br>1 1/4   | 1.070<br>1.070 | 2 1/8<br>2 9/16    | 1 1/4<br>1 7/16   | 3 1/4<br>2 1/8 | 10.6<br>2.3 |
| 8DP16/48  | 6.05<br>2.00  | 6.20<br>2.33  | 2 3/8<br>4 1/4 | 2 3/8<br>4 1/4 | 1 13/16<br>1     | 0.840<br>0.840 | 1 5/8<br>2 5/64    | 1<br>1 3/16       | 2 3/4<br>1 3/4 | 5.3<br>1.2  |
| 10DP20/60 | 6.00<br>2.00  | 6.04<br>2.27  | 2 3/4<br>4 3/8 | 2 3/4<br>4 3/8 | 2<br>1           | 0.780<br>0.780 | 1 29/32<br>2 5/32  | 1 3/8<br>1 5/16   | 3<br>1 3/4     | 6.3<br>1.2  |
| 12DP18/54 | 4.50<br>1.50  | 4.53<br>1.72  | 1 3/4<br>3     | 1 3/4<br>3     | 1<br>9/16        | 0.600<br>0.600 | 1 1/16<br>1 11/32  | 3/4<br>11/16      | 1 3/4<br>1 1/4 | 1.7<br>0.4  |
| 16DP16/48 | 3.00<br>1.00  | 3.02<br>1.17  | 1 5/16<br>2    | 1 5/16<br>2    | 13/16<br>7/16    | 0.420<br>0.420 | 7/8<br>59/64       | 9/16<br>15/32     | 1 1/2<br>7/8   | 0.8<br>0.1  |

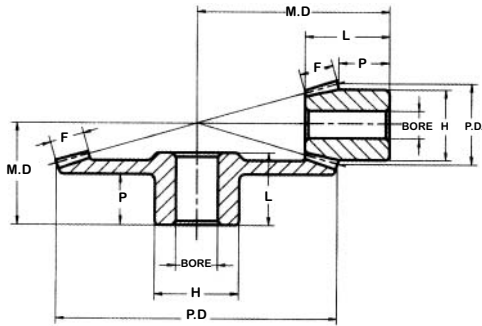
1:4

### Unhardened Steel Bevel Gears

| Part No.  | PD            | OD            | MD             | Bore           |                  | Dimensions     |                   |                   |                 | Weight      |
|-----------|---------------|---------------|----------------|----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------|
|           |               |               |                | Stock          | Max              | F              | L                 | P                 | H               |             |
| 4DP14/56  | 14.00<br>3.50 | 14.07<br>4.2  | 4 1/4<br>9     | 1 1/4<br>1 1/8 | 2 5/8<br>1 7/8   | 1.690<br>1.690 | 2 7/8<br>3 35/64  | 1 5/8<br>1 15/16  | 4 1/4<br>3 1/4  | 48.7<br>7.6 |
| 5DP15/60  | 12.00<br>3.00 | 12.05<br>3.56 | 3 3/4<br>7 1/2 | 1 1/4<br>1     | 2 3/8<br>1 4/7   | 1.700<br>1.700 | 2 5/8<br>3 13/64  | 1 9/16<br>1 7/16  | 4<br>3          | 31.2<br>5.0 |
| 6DP15/60  | 10.00<br>2.50 | 10.04<br>2.97 | 3 1/4<br>6 3/4 | 1 1/8<br>1     | 2 1/4<br>1 3/8   | 1.210<br>1.210 | 2 1/4<br>2 31/32  | 1 3/8<br>1 3/4    | 3 1/4<br>2 1/2  | 17.6<br>3.3 |
| 8DP16/64  | 8.00<br>2.00  | 8.03<br>2.35  | 2 3/4<br>5 1/4 | 1<br>7/8       | 1 13/16<br>1 1/8 | 0.840<br>0.840 | 1 7/8<br>2 3/32   | 1 1/4<br>1 7/32   | 2 3/4<br>1 7/8  | 9.7<br>1.3  |
| 8DP18/72  | 9.00<br>2.25  | 9.03<br>2.6   | 3 1/4<br>5 3/4 | 1 1/8<br>7/8   | 2<br>1 1/4       | 1.220<br>1.220 | 2 5/16<br>2 15/32 | 1 11/16<br>1 7/32 | 3<br>2 1/8      | 12.3<br>1.9 |
| 10DP15/60 | 6.00<br>1.50  | 6.03<br>1.78  | 2 1/4<br>3 7/8 | 7/8<br>5/8     | 1 5/8<br>3/4     | 0.720<br>0.720 | 1 5/8<br>1 33/64  | 1 1/8<br>27/32    | 2 1/2<br>1 7/16 | 4.6<br>0.6  |
| 12DP18/72 | 6.00<br>1.50  | 6.02<br>1.73  | 2<br>3 3/4     | 3/4<br>1/2     | 1 1/4<br>4/7     | 0.600<br>0.600 | 1 5/16<br>1 23/64 | 61/64<br>23/32    | 2<br>1 1/4      | 3.1<br>0.4  |
| 16DP16/64 | 4.00<br>1.00  | 4.02<br>1.17  | 1 3/8<br>2 1/2 | 5/8<br>1/2     | 1 3/8<br>5/8     | 0.480<br>0.480 | 57/64<br>63/64    | 9/16<br>15/32     | 2 1/4<br>13/16  | 1.6<br>0.1  |

# American Standard (ANSI) MPB Steel Bevel Gears

## Pressure Angle 20°



Bored to Size Gears  
Available in Standard ANSI  
or Metric (ISO) Bores,  
Keyways and (2) Setscrews



### 1:1.5 Unhardened Steel Bevel Gears

| Part No.  | PD           | OD           | MD             | Bore       |                 | Dimensions     |                   |                |                | Weight     |
|-----------|--------------|--------------|----------------|------------|-----------------|----------------|-------------------|----------------|----------------|------------|
|           |              |              |                | Stock      | Max             | F              | L                 | P              | H              |            |
| 10DP20/30 | 3.00<br>2.00 | 3.08<br>2.21 | 2 1/4<br>2 1/2 | 3/4<br>3/4 | 1 1/2<br>1 5/16 | 0.570<br>0.570 | 1 7/16<br>1 33/64 | 1<br>29/32     | 2 1/2<br>1 3/4 | 1.7<br>0.8 |
| 12DP18/27 | 2.25<br>1.50 | 2.32<br>1.67 | 1 3/4<br>1 7/8 | 1/2<br>1/2 | 13/16<br>9/16   | 0.410<br>0.410 | 1 1/8<br>1 1/8    | 25/32<br>21/32 | 1 1/2<br>1 1/4 | 0.6<br>0.2 |
| 16DP16/24 | 1.50<br>1.00 | 1.55<br>1.13 | 1 1/5<br>1 1/4 | 1/2<br>3/8 | 9/16<br>7/16    | 0.250<br>0.250 | 3/4<br>47/64      | 9/16<br>7/16   | 1 1/8<br>13/16 | 0.2<br>0.1 |

### 1:2 Unhardened Steel Bevel Gears

| Part No.  | PD            | OD            | MD               | Bore           |                 | Dimensions     |                    |                   |                 | Weight       |
|-----------|---------------|---------------|------------------|----------------|-----------------|----------------|--------------------|-------------------|-----------------|--------------|
|           |               |               |                  | Stock          | Max             | F              | L                  | P                 | H               |              |
| 3DP15/30  | 10.00<br>5.00 | 10.19<br>5.80 | 5 1/2<br>7 1/4   | 1 1/4<br>1 1/8 | 3<br>2          | 1.870<br>1.870 | 3 19/32<br>4 1/32  | 2<br>1 15/16      | 5<br>3 3/4      | 39.9<br>13.7 |
| 4DP16/32  | 8.00<br>4.00  | 8.10<br>4.60  | 4 1/4<br>6       | 1 1/8<br>1 1/8 | 2 1/4<br>1 7/8  | 1.400<br>1.400 | 2 11/16<br>3 11/32 | 1 9/16<br>1 13/16 | 3 3/4<br>3 1/4  | 17.6<br>7.5  |
| 5DP15/30  | 6.00<br>3.00  | 6.12<br>3.48  | 3 1/2<br>4 3/8   | 1 1/8<br>1     | 2 1/4<br>1 3/8  | 1.040<br>1.040 | 2 1/4<br>2 25/64   | 1 3/8<br>1 9/32   | 3 1/4<br>2 5/8  | 8.9<br>3.1   |
| 6DP18/36  | 6.00<br>3.00  | 6.10<br>3.42  | 3 1/2<br>4 3/4   | 1 1/8<br>1     | 2 1/4<br>1 7/16 | 1.060<br>1.060 | 2 1/4<br>2 49/64   | 1 1/2<br>1 9/32   | 3 1/4<br>2 1/2  | 8.4<br>3.4   |
| 6DP21/42  | 7.00<br>3.50  | 7.10<br>3.90  | 3 3/4<br>5       | 1 1/8<br>1     | 2 1/4<br>1 5/8  | 1.050<br>1.050 | 2 19/64<br>2 33/64 | 1 1/2<br>1 1/4    | 3 1/2<br>2 1/2  | 11.4<br>3.8  |
| 6DP24/48  | 8.00<br>4.00  | 8.10<br>4.40  | 3 7/16<br>5 7/16 | 1 1/8<br>1     | 2 1/4<br>1 3/4  | 1.170<br>1.170 | 1 57/64<br>2 35/64 | 1<br>1 1/4        | 3 1/4<br>2 5/8  | 11.8<br>4.9  |
| 8DP20/40  | 5.00<br>2.50  | 5.07<br>2.80  | 2 7/8<br>4       | 1<br>7/8       | 2<br>1 1/4      | 0.820<br>0.820 | 1 27/32<br>2 9/32  | 1 1/4<br>1 13/32  | 3<br>2 1/8      | 5.0<br>3.0   |
| 10DP20/40 | 4.00<br>2.00  | 4.06<br>2.24  | 2 1/2<br>3 1/8   | 7/8<br>3/4     | 2<br>15/16      | 0.710<br>0.710 | 1 11/16<br>1 51/64 | 1 3/16<br>1 1/16  | 3<br>1 3/4      | 3.7<br>0.9   |
| 10DP25/50 | 5.00<br>2.50  | 5.06<br>2.74  | 2 5/8<br>3 3/8   | 3/4<br>3/4     | 1 1/4<br>1 1/4  | 0.700<br>0.700 | 1 19/32<br>1 35/64 | 1<br>3/4          | 2<br>2          | 3.6<br>1.2   |
| 12DP18/36 | 3.00<br>1.50  | 3.05<br>1.70  | 1 1/2<br>2 1/4   | 5/8<br>1/2     | 1 5/16<br>5/8   | 0.460<br>0.460 | 7/8<br>1 13/64     | 1/2<br>11/16      | 1 7/16<br>1 1/4 | 1.4<br>0.4   |
| 12DP24/48 | 4.00<br>2.00  | 4.05<br>2.20  | 2<br>2 7/8       | 5/8<br>1/2     | 7/8<br>13/16    | 0.590<br>0.590 | 1 11/64<br>1 7/16  | 3/4<br>3/4        | 1 5/8<br>1 1/2  | 1.5<br>0.8   |
| 12DP14/28 | 2.00<br>1.00  | 2.04<br>1.17  | 1 3/8<br>1 5/8   | 1/2<br>1/2     | 7/8<br>1/2      | 0.350<br>0.350 | 15/16<br>31/32     | 21/32<br>9/16     | 1 5/8<br>1      | 0.5<br>0.1   |
| 16DP12/24 | 1.50<br>0.75  | 1.54<br>0.91  | 1<br>1 1/8       | 1/2<br>3/8     | 5/8<br>1/2      | 0.190<br>0.190 | 5/8<br>37/64       | 7/16<br>11/32     | 1<br>21/32      | 0.2<br>0.1   |
| 16DP16/32 | 2.00<br>1.00  | 2.04<br>1.15  | 1 3/16<br>1 1/2  | 1/2<br>3/8     | 3/8<br>7/16     | 0.350<br>0.350 | 49/64<br>37/32     | 1/2<br>7/16       | 1 1/8<br>13/16  | 0.2<br>0.1   |