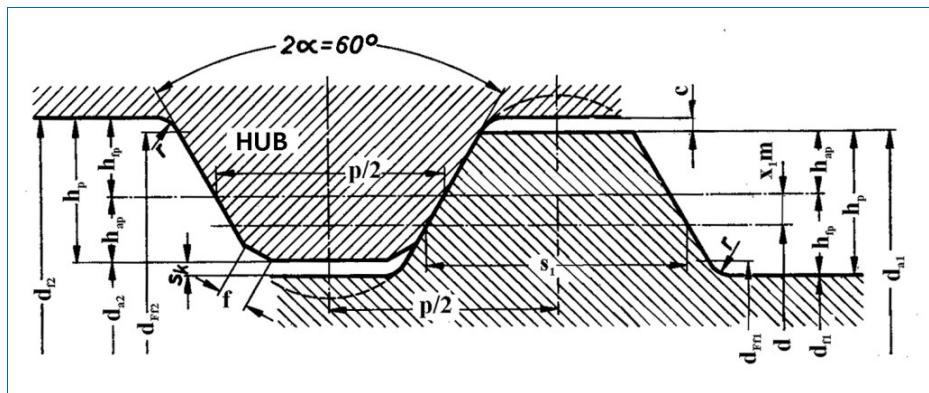


DIN 5480



| | |
|-----------------------------|---|
| Addendum modification nave | $x_1.m = -0,05.m \text{ tot} + 0,45.m$ |
| Addendum modification shaft | $x_2.m = -x_1.m = +0,05.m \text{ tot} - 0,45.m$ |
| Nominal diameter | $d_B = m.z_1 + 2.x_1.m + 1,1.m$ |
| Nave tip diameter | $d_{a2} = m.z_2 + 2.x_2.m + 0,9.m$ |
| Shaft tip diameter | $d_{a2} = m.z_1 + 2.x_1.m + 0,9.m$ |
| Nave root diameter | $d_{f1} = m.z_2 + 2.x_2.m - 2.h_{fp}$ |
| Shaft root diameter | $d_{f1} = m.z_1 + 2.x_1.m - 2.h_{fp}$ |
| Pitch circle diameter | $d = m.z$ |
| Base circle | $d_b = m.z \cdot \cos\alpha$ |
| Addendum | $h_{ap} = 0,45.m$ |
| Dedendum | $h_{fp} = 0,60.m$ |
| Tooth depth | $h_p = h_{ap} + h_{fp}$ |
| Nave tooth thickness | $s_2 = m \cdot \left[1 + \frac{(\pi \cdot \sin \gamma \cdot \cos \gamma)^2 \cdot m_x}{16.d_1} \right] \cdot m_x + 2.x_2.m \cdot \tan \alpha$ |
| Shaft tooth thickness | $s_1 = m \cdot \left[1 + \frac{(\pi \cdot \sin \gamma \cdot \cos \gamma)^2 \cdot m_x}{16.d_1} \right] \cdot m_x + 2.x_1.m \cdot \tan \alpha$ |

The following is the table of normalized dimensions according to DIN 5480. The dimensions and modules in brackets () are avoidable values.

Summary table – shaft diameter – module – number of teeth DIN 5480

| | | | | | | | | | | | | | | | | |
|-------------|----|----|----|----|----|----|----|----|-------|----|-------|----|----|---|---|---|
| 10 | 18 | 15 | 12 | 11 | 8 | 6 | - | - | - | - | - | - | - | - | - | - |
| 11 | 20 | 17 | 13 | 12 | 9 | 7 | - | - | - | - | - | - | - | - | - | - |
| 12 | 22 | 18 | 14 | 13 | 10 | 8 | 6 | - | - | - | - | - | - | - | - | - |
| 13 | 24 | 20 | 16 | 15 | 11 | 9 | 7 | - | - | - | - | - | - | - | - | - |
| 14 | 26 | 22 | 17 | 16 | 12 | 10 | 8 | 6 | - | - | - | - | - | - | - | - |
| 15 | 28 | 23 | 18 | 17 | 13 | 10 | 8 | 7 | 6 | - | - | - | - | - | - | - |
| 16 | 30 | 25 | 20 | 18 | 14 | 11 | 9 | 8 | 6 | - | - | - | - | - | - | - |
| 17 | 32 | 27 | 21 | 20 | 15 | 12 | 10 | 8 | 7 | - | - | - | - | - | - | - |
| 18 | 34 | 28 | 22 | 21 | 16 | 13 | 10 | 9 | 7 | - | - | - | - | - | - | - |
| 19 | 36 | 30 | 24 | 22 | 17 | 14 | 11 | 9 | | - | - | - | - | - | - | - |
| 20 | 38 | 32 | 25 | 24 | 18 | 14 | 12 | 10 | 8 | 6 | - | - | - | - | - | - |
| 21 | 40 | 34 | 26 | 25 | 19 | 15 | 12 | 10 | | | - | - | - | - | - | - |
| 22 | 42 | 35 | 28 | 26 | 20 | 16 | 13 | 11 | 9 | 7 | 6 | - | - | - | - | - |
| 23 | 44 | 37 | 29 | 27 | 22 | 17 | 14 | 12 | | | | - | - | - | - | - |
| 24 | 46 | 38 | 30 | 28 | 22 | 18 | 14 | 12 | | | | - | - | - | - | - |
| 25 | 48 | 40 | 32 | 30 | 24 | 18 | 15 | 13 | 11 | 8 | 7 | - | - | - | - | - |
| 26 | 50 | 42 | 33 | 31 | 24 | 19 | 16 | 13 | | | | - | - | - | - | - |
| 27 | 52 | 44 | 34 | 32 | 26 | 20 | 16 | 14 | | | | - | - | - | - | - |
| 28 | 54 | 45 | 36 | 34 | 26 | 21 | 17 | 14 | 12 | 10 | 8 | - | - | - | - | - |
| 29 | 56 | 47 | 37 | 35 | 28 | 22 | 18 | 15 | | | | - | - | - | - | - |
| 30 | 58 | 48 | 38 | 36 | 28 | 22 | 18 | 16 | 13,14 | 10 | 8 | - | - | - | - | - |
| 31 | 60 | 50 | 40 | 37 | 30 | 23 | 19 | 16 | | | | - | - | - | - | - |
| 32 | 62 | 52 | 41 | 38 | 30 | 24 | 20 | 17 | 14 | 11 | 9 | 6 | - | - | - | - |
| 33 | 64 | 54 | 42 | 40 | 32 | 25 | 20 | 17 | | | | - | - | - | - | - |
| 34 | 66 | 55 | 44 | 41 | 32 | 26 | 21 | 18 | | | | - | - | - | - | - |
| 35 | 68 | 57 | 45 | 42 | 34 | 26 | 22 | 18 | 16 | 12 | 10 | 7 | - | - | - | - |
| 36 | 70 | 58 | 46 | 44 | 34 | 27 | 22 | 19 | | | | - | - | - | - | - |
| 37 | 72 | 60 | 48 | 45 | 36 | 28 | 23 | 20 | 17 | 13 | 11 | 8 | - | - | - | - |
| 38 | 74 | 62 | 49 | 46 | 36 | 29 | 24 | 20 | 18 | 14 | 11 | 8 | - | - | - | - |
| 39 | 76 | 64 | 50 | 47 | 38 | 30 | 24 | 21 | | | | - | - | - | - | - |
| 40 | 78 | 64 | 52 | 48 | 38 | 30 | 25 | 21 | 18 | 14 | 12 | 8 | 6 | - | - | - |
| 42 | - | 68 | 54 | 51 | 40 | 32 | 26 | 22 | 20 | 15 | 12 | 9 | 7 | - | - | - |
| 45 | - | 74 | 58 | 55 | 44 | 34 | 28 | 24 | 21 | 16 | 13,14 | 10 | 7 | - | - | - |
| 47 | - | 76 | 60 | 57 | 46 | 36 | 30 | 25 | 22 | 17 | 14 | 10 | 8 | - | - | - |
| 48 | - | 78 | 62 | 58 | 46 | 37 | 30 | 26 | 22 | 18 | 14 | 10 | 8 | 6 | - | - |
| 50 | - | - | 64 | 60 | 48 | 38 | 32 | 27 | 24 | 18 | 15 | 11 | 8 | 7 | - | - |
| (52) | - | - | 68 | 64 | 50 | 40 | 33 | 28 | 24 | 19 | 16 | 11 | 9 | 7 | - | - |
| 55 | - | - | 72 | 66 | 54 | 42 | 35 | 30 | 26 | 20 | 17 | 12 | 9 | 8 | - | - |
| (58) | - | - | - | 70 | 56 | 45 | 37 | 32 | 28 | 22 | 18 | 13 | 10 | 8 | - | - |

| | | | | | | | | | | | | | | | | |
|-------------|---|---|---|----|----|----|----|-------|----|-------|----|-------|-------|-------|-------|-------|
| 60 | - | - | - | 74 | 58 | 46 | 38 | 33 | 28 | 22 | 18 | 13,14 | 10 | 8 | 6 | - |
| (62) | - | - | - | - | - | 48 | 40 | 34 | 30 | 23 | 19 | 14 | 11 | 9 | | - |
| 65 | - | - | - | - | - | 50 | 42 | 36 | 31 | 24 | 20 | 15 | 11 | 9 | 7 | - |
| (68) | - | - | - | - | - | 53 | 44 | 37 | 32 | 26 | 21 | 15,16 | 12 | 10 | | - |
| 70 | - | - | - | - | - | 54 | 45 | 38 | 34 | 26 | 22 | 16 | 12 | 10 | 7 | - |
| (72) | - | - | - | - | - | 56 | 46 | 40 | 34 | 27 | 22 | 16 | 13 | 10 | | - |
| 75 | - | - | - | - | - | 58 | 48 | 41 | 36 | 28 | 24 | 17 | 13,14 | 11 | 8 | - |
| (78) | - | - | - | - | - | 60 | 50 | 43 | 38 | 30 | 24 | 18 | 14 | 11,12 | | - |
| 80 | - | - | - | - | - | 62 | 52 | 44 | 38 | 30 | 25 | 18 | 14 | 12 | 8 | 6 |
| (82) | - | - | - | - | - | - | 53 | 45 | 40 | 31 | 26 | 19 | 15 | 12 | | |
| 85 | - | - | - | - | - | - | 55 | 47 | 41 | 32 | 27 | 20 | 15,16 | 13 | 9 | 7 |
| (88) | - | - | - | - | - | - | 57 | 49 | 42 | 34 | 28 | 20 | 16 | 13 | | |
| 90 | - | - | - | - | - | - | 58 | 50 | 44 | 34 | 28 | 21 | 16 | 13,14 | 10 | 7 |
| (92) | - | - | - | - | - | - | 60 | 51 | 44 | 35 | 29 | 22 | 17 | 14 | | |
| 95 | - | - | - | - | - | - | 62 | 53 | 46 | 36 | 30 | 22 | 18 | 14 | 10 | 8 |
| (98) | - | - | - | - | - | - | 64 | 54 | 48 | 38 | 31 | 23 | 18 | 15 | | |
| 100 | - | - | - | - | - | - | 64 | 56 | 48 | 38 | 32 | 24 | 18 | 15 | 11 | 8 |
| 105 | - | - | - | - | - | - | 68 | 58 | 51 | 40 | 34 | 25 | 20 | 16 | 12 | 9 |
| 110 | - | - | - | - | - | - | 72 | 60,61 | 54 | 42 | 35 | 26 | 20 | 17 | 12 | 9 |
| 120 | - | - | - | - | - | - | - | 66,67 | 58 | 46 | 38 | 28 | 22 | 18 | 13,14 | 10 |
| 130 | - | - | - | - | - | - | - | - | 64 | 50 | 42 | 31 | 24 | 20 | 15 | 11,12 |
| 140 | - | - | - | - | - | - | - | - | 68 | 54 | 45 | 34 | 26 | 22 | 16 | 12 |
| 150 | - | - | - | - | - | - | - | - | 74 | 58 | 48 | 36 | 28 | 24 | 17 | 13,14 |
| 160 | - | - | - | - | - | - | - | - | - | 52 | 38 | 30 | 25 | 18 | 14 | |
| 170 | - | - | - | - | - | - | - | - | - | 55 | 41 | 32 | 27 | 20 | 15,16 | |
| 180 | - | - | - | - | - | - | - | - | - | 58 | 44 | 34 | 28 | 21 | 16 | |
| 190 | - | - | - | - | - | - | - | - | - | 62 | 46 | 36 | 30 | 22 | 17,18 | |
| 200 | - | - | - | - | - | - | - | - | - | 65 | 48 | 38 | 32 | 24 | 18 | |
| 210 | - | - | - | - | - | - | - | - | - | 68,69 | 51 | 40 | 34 | 25 | 20 | |
| 220 | - | - | - | - | - | - | - | - | - | - | - | 42 | 35 | 26 | 20 | |
| 240 | - | - | - | - | - | - | - | - | - | - | - | 46 | 38 | 28 | 22 | |
| 250 | - | - | - | - | - | - | - | - | - | - | - | 48 | 40 | 30 | 24 | |
| 260 | - | - | - | - | - | - | - | - | - | - | - | 50 | 42 | 31 | 24 | |
| 280 | - | - | - | - | - | - | - | - | - | - | - | 54 | 45 | 34 | 26 | |
| 300 | - | - | - | - | - | - | - | - | - | - | - | 58 | 48 | 36 | 28 | |
| 320 | - | - | - | - | - | - | - | - | - | - | - | 62 | 52 | 38 | 30 | |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 41 | 32 | |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | 58 | 44 | 34 | |
| 380 | - | - | - | - | - | - | - | - | - | - | - | - | 62 | 46 | 36 | |

| | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|
| 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 65 | 48 | 38 |
| 420 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 68 | 51 | 40 |
| 440 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 72 | 54 | 42 |
| 450 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 74 | 55 | 44 |
| 460 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75 | 56 | 44 |
| 480 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 78 | 58 | 46 |
| 500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | 61 | 48 |