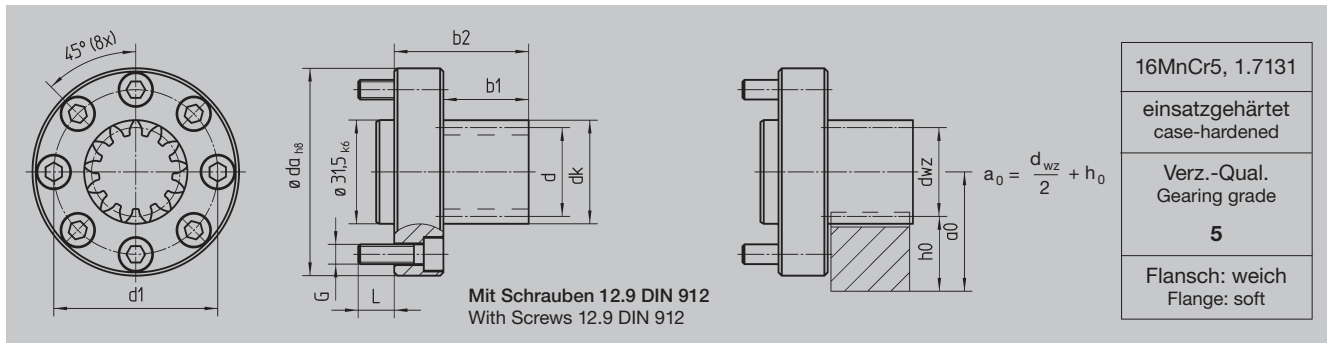


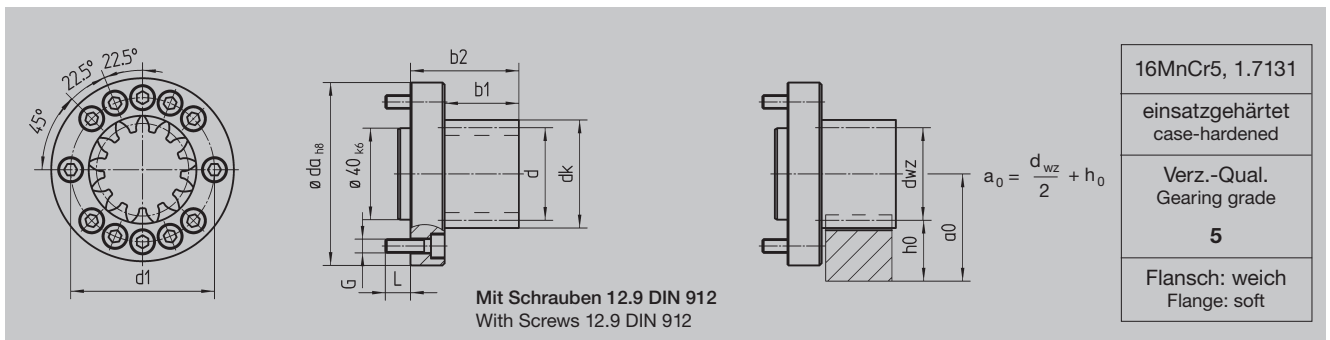


Lochkreis-ø 50, gerade verzahnt bolt circle-ø 50, straight tooth system



| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | d_{wz} | d_k | b_1 | b_2 | a_0 | ISO | Schnittst. Interface | d_1 | G | d_{ah8} | L | kg |
|---------------------------|-----------------------------------|---|----------|-------|-------|-------|-------|-------------|-------------------------|-------|----|-----------|----|-----|
| Modul 2 / Module 2 | | | | | | | | | | | | | | |
| 78 21 813 | 13 | 0,366 | 27,47 | 31,5 | 26 | 41 | 35,73 | 9409-1-A-50 | | 50 | M6 | 63 | 11 | 0,5 |
| 78 21 817 | 17 | -0,012 | 33,95 | 38,0 | 26 | 41 | 38,98 | 9409-1-A-50 | | 50 | M6 | 63 | 11 | 0,6 |

Lochkreis-ø 63, gerade verzahnt bolt circle-ø 63, straight tooth system



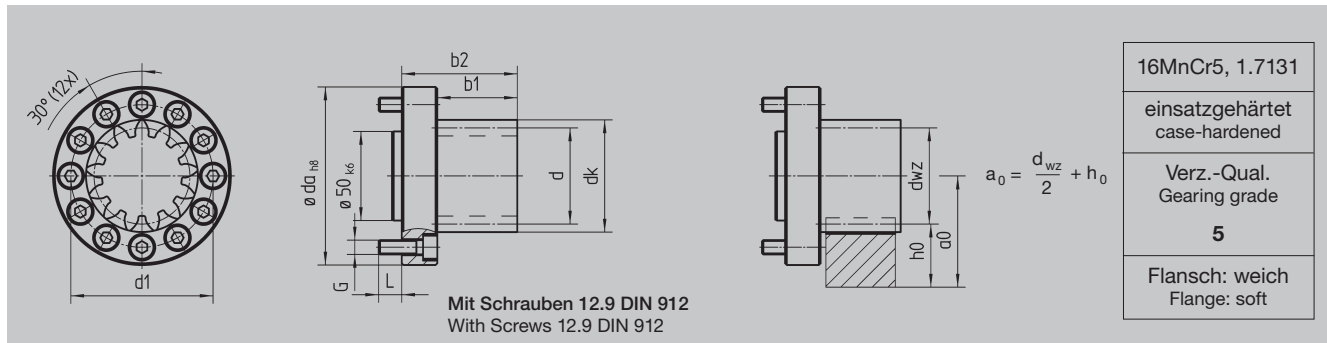
| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | d_{wz} | d_k | b_1 | b_2 | a_0 | ISO | Schnittst. Interface | d_1 | G | d_{ah8} | L | kg |
|---------------------------|-----------------------------------|---|----------|-------|-------|-------|-------|-------------|-------------------------|-------|----|-----------|----|-----|
| Modul 2 / Module 2 | | | | | | | | | | | | | | |
| 78 22 813 | 13 | 0,366 | 27,47 | 31,5 | 26 | 41 | 35,73 | 9409-1-A-63 | | 63 | M6 | 80 | 11 | 0,8 |
| 78 22 817 | 17 | -0,012 | 33,95 | 38,0 | 26 | 41 | 38,98 | 9409-1-A-63 | | 63 | M6 | 80 | 11 | 0,8 |
| 78 22 824 | 24 | 0,202 | 48,81 | 52,8 | 26 | 41 | 46,40 | 9409-1-A-63 | | 63 | M6 | 80 | 11 | 1,0 |

| Modul 3 / Module 3 | | | | | | | | | | | | | | |
|---------------------------|----|-------|-------|------|------|------|-------|-------------|--|----|----|----|----|-----|
| 78 32 813 | 13 | 0,366 | 41,20 | 47,2 | 32,5 | 47,5 | 46,60 | 9409-1-A-63 | | 63 | M6 | 80 | 11 | 1,0 |

Weitere Zähnezah auf Anfrage / Further number of teeth on request



Lochkreis-ø 80, gerade verzahnt
bolt circle-ø 80, straight tooth system

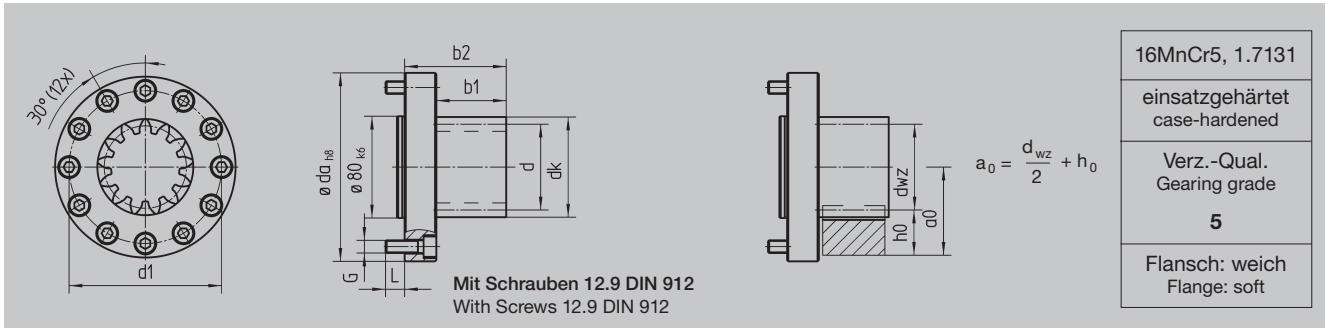


| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | d_{wz} | d_k | b_1 | b_2 | a_0 | Schnittst. Interface | ISO | d_1 | G | d_{ah8} | L | kg |
|---------------------------|-----------------------------------|---|----------|-------|-------|-------|-------|-------------------------|-----|-------|-----|-----------|-----|----|
| Modul 2 / Module 2 | | | | | | | | | | | | | | |
| 78 23 813 | 13 | 0,366 | 27,47 | 31,5 | 26 | 46 | 35,73 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 1,4 | |
| 78 23 824 | 24 | 0,202 | 48,81 | 52,8 | 26 | 46 | 46,40 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 1,6 | |
| Modul 3 / Module 3 | | | | | | | | | | | | | | |
| 78 33 813 | 13 | 0,366 | 41,20 | 47,2 | 32,5 | 52,5 | 46,60 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 1,6 | |
| 78 33 820 | 20 | 0,080 | 60,48 | 66,5 | 32,5 | 52,5 | 56,24 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 2,0 | |
| Modul 4 / Module 4 | | | | | | | | | | | | | | |
| 78 43 813 | 13 | 0,366 | 54,93 | 62,9 | 45 | 65 | 62,47 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 2,1 | |
| 78 43 814 | 14 | 0,397 | 59,17 | 67,2 | 45 | 65 | 64,59 | 9409-1-A-80 | 80 | M8 | 100 | 13 | 2,2 | |

Weitere Zähnezah auf Anfrage / Further number of teeth on request



Lochkreis-ø 125, gerade verzahnt
bolt circle-ø 125, straight tooth system



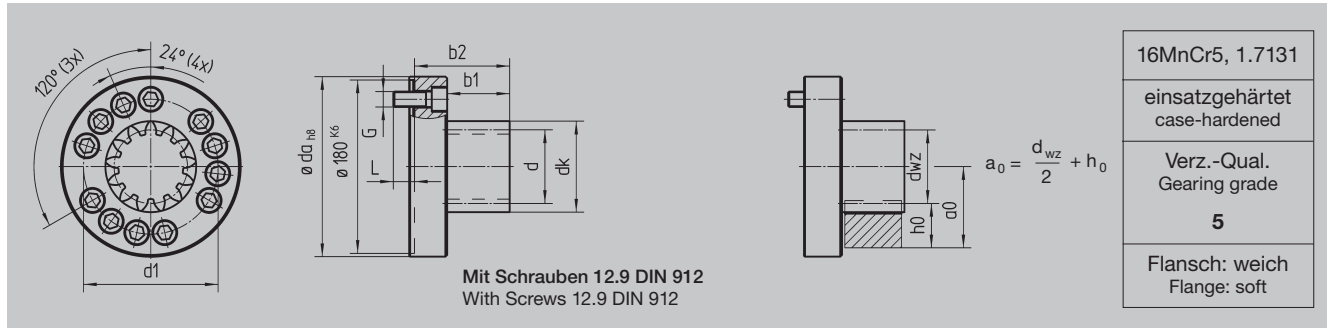
| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | d_{wz} | d_k | b_1 | b_2 | a_0 | Schnittst. Interface | ISO | d_1 | G | d_{ah8} | L | kg |
|---------------------------|-----------------------------------|---|----------|-------|-------|-------|----------------------|-------------------------|-----|-------|-----|-----------|-----|----|
| Modul 3 / Module 3 | | | | | | | | | | | | | | |
| 78 34 813 | 13 | 0,366 | 41,20 | 47,2 | 32,5 | 57,5 | 46,60 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 3,8 | |
| 78 34 413 | 13 | 0,366 | 41,20 | 47,2 | 32,5 | 57,5 | 46,60 | - | 125 | M12 | 148 | 17 | 3,8 | |
| 78 34 820 | 20 | 0,080 | 60,48 | 66,5 | 32,5 | 57,5 | 56,24 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 4,2 | |
| 78 34 420 | 20 | 0,080 | 60,48 | 66,5 | 32,5 | 57,5 | 56,24 | - | 125 | M12 | 148 | 17 | 4,2 | |
| 78 34 427 | 27 | 0,294 | 82,76 | 88,8 | 32,5 | 57,5 | 67,38 | - | 125 | M12 | 148 | 17 | 4,9 | |
| 78 34 433 | 33 | 0,477 | 101,86 | 107,9 | 32,5 | 57,5 | 76,93 | - | 125 | M12 | 148 | 17 | 5,6 | |
| Modul 4 / Module 4 | | | | | | | | | | | | | | |
| 78 44 813 | 13 | 0,366 | 54,93 | 62,9 | 45 | 70 | 62,47 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 4,4 | |
| 78 44 413 | 13 | 0,366 | 54,93 | 62,9 | 45 | 70 | 62,47 | - | 125 | M12 | 148 | 17 | 4,4 | |
| 78 44 820 | 20 | 0,190 | 81,52 | 89,5 | 45 | 70 | 75,76 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 5,4 | |
| 78 44 420 | 20 | 0,190 | 81,52 | 89,5 | 45 | 70 | 75,76 | - | 125 | M12 | 148 | 17 | 5,4 | |
| 78 44 821 | 21 | 0,110 | 84,88 | 92,9 | 45 | 70 | 77,44 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 5,5 | |
| 78 44 421 | 21 | 0,110 | 84,88 | 92,9 | 45 | 70 | 77,44 | - | 125 | M12 | 148 | 17 | 5,5 | |
| 78 44 824 | 24 | 0,202 | 97,61 | 105,6 | 45 | 70 | 83,81 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 6,1 | |
| 78 44 424 | 24 | 0,202 | 97,61 | 105,6 | 45 | 70 | 83,81 | - | 125 | M12 | 148 | 17 | 6,1 | |
| Modul 5 / Module 5 | | | | | | | | | | | | | | |
| 78 54 813 | 13 | 0,366 | 68,66 | 78,7 | 55 | 80 | 68,33 ⁽¹⁾ | 9409-1-A-125 | 125 | M10 | 148 | 15 | 5,1 | |
| 78 54 413 | 13 | 0,366 | 68,66 | 78,7 | 55 | 80 | 68,33 ⁽¹⁾ | - | 125 | M12 | 148 | 17 | 5,1 | |
| 78 54 417 | 17 | -0,012 | 84,88 | 94,9 | 55 | 80 | 76,44 ⁽¹⁾ | - | 125 | M12 | 148 | 17 | 6,0 | |
| 78 54 819 | 19 | 0,049 | 95,49 | 105,5 | 55 | 80 | 81,75 ⁽¹⁾ | 9409-1-A-125 | 125 | M10 | 148 | 15 | 6,6 | |
| 78 54 419 | 19 | 0,049 | 95,49 | 105,5 | 55 | 80 | 81,75 ⁽¹⁾ | - | 125 | M12 | 148 | 17 | 6,6 | |
| Modul 6 / Module 6 | | | | | | | | | | | | | | |
| 78 64 813 | 13 | 0,366 | 82,40 | 94,4 | 65 | 90 | 84,20 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 5,8 | |
| 78 64 413 | 13 | 0,366 | 82,40 | 94,4 | 65 | 90 | 84,20 | - | 125 | M12 | 148 | 17 | 5,9 | |
| 78 64 814 | 14 | 0,397 | 88,76 | 100,8 | 65 | 90 | 87,38 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 6,3 | |
| 78 64 816 | 16 | -0,042 | 95,49 | 107,5 | 65 | 90 | 90,75 | 9409-1-A-125 | 125 | M10 | 148 | 15 | 6,8 | |

Weitere Zähnezah auf Anfrage / Further number of teeth on request

⁽¹⁾ Für 29 55 ... $a'_0 = a_0 + 10$ / For 29 55 ... $a'_0 = a_0 + 10$.



Lochkreis-ø 140, gerade verzahnt
bolt circle-ø 140, straight tooth system



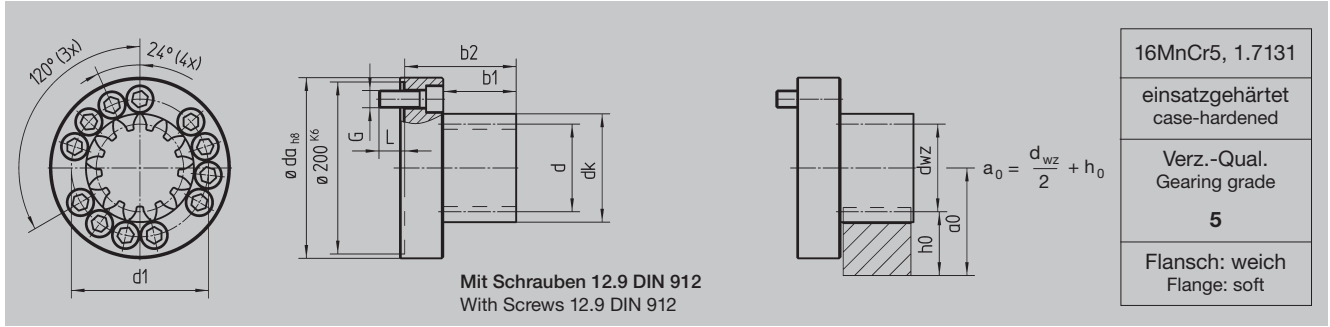
| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | Schnittst. Interface | | | | | ISO | d ₁ | G | d _{ah8} | L | kg |
|---------------------------|-----------------------------------|---|-------------------------|-----------------|----------------|----------------|----------------------|-----|----------------|-----|------------------|----|------|
| | | | x | d _{wz} | d _k | b ₁ | b ₂ | | | | | | |
| Modul 4 / Module 4 | | | | | | | | | | | | | |
| 78 46 813 | 13 | 0,366 | 54,93 | 62,9 | 45 | 79 | 62,47 | - | 140 | M16 | 187 | 22 | 8,1 |
| 78 46 820 | 20 | 0,190 | 81,52 | 89,5 | 45 | 79 | 75,76 | - | 140 | M16 | 187 | 22 | 9,1 |
| 78 46 821 | 21 | 0,110 | 84,88 | 92,9 | 45 | 79 | 77,44 | - | 140 | M16 | 187 | 22 | 9,2 |
| Modul 5 / Module 5 | | | | | | | | | | | | | |
| 78 56 815 | 15 | 0,227 | 77,27 | 87,3 | 55 | 89 | 72,64 ⁽¹⁾ | - | 140 | M16 | 187 | 22 | 9,2 |
| 78 56 820 | 20 | 0,080 | 100,80 | 110,8 | 55 | 89 | 84,40 ⁽¹⁾ | - | 140 | M16 | 187 | 22 | 10,6 |
| Modul 6 / Module 6 | | | | | | | | | | | | | |
| 78 66 813 | 13 | 0,366 | 82,40 | 94,4 | 65 | 99 | 84,20 | - | 140 | M16 | 187 | 22 | 9,5 |
| 78 66 817 | 17 | -0,012 | 101,86 | 113,9 | 65 | 99 | 93,93 | - | 140 | M16 | 187 | 22 | 10,9 |

Weitere Zähnezah auf Anfrage / Further number of teeth on request

⁽¹⁾ Für 29 55 ... a'₀ = a₀ + 10 / For 29 55 ... a'₀ = a₀ + 10.



Lochkreis-ø 160, gerade verzahnt
bolt circle-ø 160, straight tooth system



| Bestell-Nr. Order code | Zähne- zahl No. of teeth | Profilverschie- bungsfaktor Profile modific. factor | d_{wz} | d_k | b_1 | b_2 | a_0 | Schnittst. Interface | ISO | d_1 | G | d_{ah8} | L | |
|---------------------------|-----------------------------------|---|----------|-------|-------|-------|----------------------|-------------------------|-----|-------|-----|-----------|----|------|
| Modul 5 / Module 5 | | | | | | | | | | | | | | |
| 78 57 813 | 13 | 0,366 | 68,66 | 78,7 | 55 | 100 | 68,33 ⁽¹⁾ | – | – | 160 | M20 | 210 | 30 | 13,8 |
| 78 57 820 | 20 | 0,080 | 100,80 | 110,8 | 55 | 100 | 84,40 ⁽¹⁾ | – | – | 160 | M20 | 210 | 30 | 15,6 |
| Modul 6 / Module 6 | | | | | | | | | | | | | | |
| 78 67 813 | 13 | 0,366 | 82,40 | 94,4 | 65 | 110 | 84,20 | – | – | 160 | M20 | 210 | 30 | 14,5 |
| 78 67 817 | 17 | -0,012 | 101,86 | 113,9 | 65 | 110 | 93,93 | – | – | 160 | M20 | 210 | 30 | 15,9 |
| 78 67 819 | 19 | 0,049 | 114,59 | 126,6 | 65 | 110 | 100,30 | – | – | 160 | M20 | 210 | 30 | 17,0 |
| Modul 8 / Module 8 | | | | | | | | | | | | | | |
| 78 87 813 | 13 | 0,366 | 109,86 | 125,9 | 85 | 130 | 125,93 | – | – | 160 | M20 | 210 | 30 | 17,8 |

Weitere Zähnezah auf Anfrage / Further number of teeth on request

⁽¹⁾ Für 29 55 ... $a'_0 = a_0 + 10$ / For 29 55 ... $a'_0 = a_0 + 10$.