

## Modul:

1

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

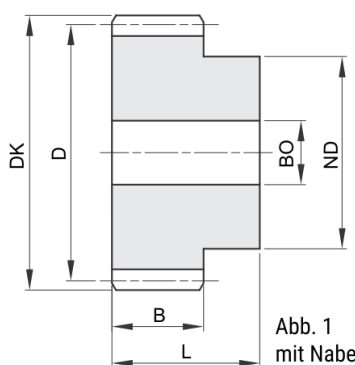


Abb. 1  
mit Nabe

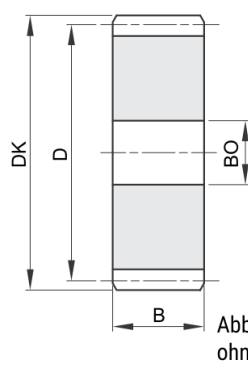


Abb. 2  
ohne Nabe

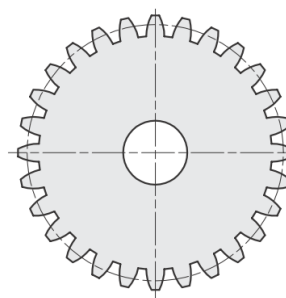


Abb. 3

| L  | B  |
|----|----|
| 25 | 15 |

| Bestellnummer | ZZ | DK | D  | ND | BO | Abb.   |
|---------------|----|----|----|----|----|--------|
| 516-010-0012  | 12 | 14 | 12 | 9  | -  | Abb. 1 |
| 516-010-0013  | 13 | 15 | 13 | 10 | -  | Abb. 1 |
| 516-010-0014  | 14 | 16 | 14 | 11 | -  | Abb. 1 |
| 516-010-0015  | 15 | 17 | 15 | 12 | -  | Abb. 1 |
| 516-010-0016  | 16 | 18 | 16 | 13 | -  | Abb. 1 |
| 516-010-0017  | 17 | 19 | 17 | 14 | -  | Abb. 1 |
| 516-010-0018  | 18 | 20 | 18 | 15 | 8  | Abb. 1 |
| 516-010-0019  | 19 | 21 | 19 | 15 | 8  | Abb. 1 |
| 516-010-0020  | 20 | 22 | 20 | 16 | 8  | Abb. 1 |
| 516-010-0021  | 21 | 23 | 21 | 16 | 8  | Abb. 1 |
| 516-010-0022  | 22 | 24 | 22 | 16 | 8  | Abb. 1 |
| 516-010-0023  | 23 | 25 | 23 | 18 | 8  | Abb. 1 |
| 516-010-0024  | 24 | 26 | 24 | 20 | 10 | Abb. 1 |
| 516-010-0025  | 25 | 27 | 25 | 20 | 10 | Abb. 1 |
| 516-010-0026  | 26 | 28 | 26 | 20 | 10 | Abb. 1 |
| 516-010-0027  | 27 | 29 | 27 | 20 | 10 | Abb. 1 |
| 516-010-0028  | 28 | 30 | 28 | 20 | 10 | Abb. 1 |
| 516-010-0029  | 29 | 31 | 29 | 20 | 10 | Abb. 1 |
| 516-010-0030  | 30 | 32 | 30 | 20 | 10 | Abb. 1 |
| 516-010-0031  | 31 | 33 | 31 | 25 | 10 | Abb. 1 |
| 516-010-0032  | 32 | 34 | 32 | 25 | 10 | Abb. 1 |
| 516-010-0033  | 33 | 35 | 33 | 25 | 10 | Abb. 1 |
| 516-010-0034  | 34 | 36 | 34 | 25 | 10 | Abb. 1 |
| 516-010-0035  | 35 | 37 | 35 | 25 | 10 | Abb. 1 |
| 516-010-0036  | 36 | 38 | 36 | 25 | 10 | Abb. 1 |
| 516-010-0037  | 37 | 39 | 37 | 25 | 10 | Abb. 1 |
| 516-010-0038  | 38 | 40 | 38 | 25 | 10 | Abb. 1 |
| 516-010-0039  | 39 | 41 | 39 | 25 | 10 | Abb. 1 |
| 516-010-0040  | 40 | 42 | 40 | 25 | 10 | Abb. 1 |
| 516-010-0041  | 41 | 43 | 41 | 30 | 10 | Abb. 1 |
| 516-010-0042  | 42 | 44 | 42 | 30 | 10 | Abb. 1 |
| 516-010-0043  | 43 | 45 | 43 | 30 | 10 | Abb. 1 |
| 516-010-0044  | 44 | 46 | 44 | 30 | 10 | Abb. 1 |

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### Modul:

1

Eingriffswinkel:

Verzahnung:

Werkstoff:

20°

gerade

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

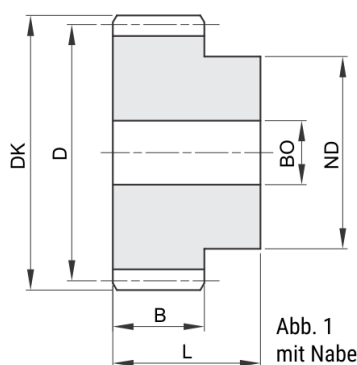


Abb. 1  
mit Nabe

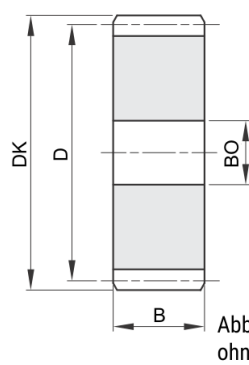


Abb. 2  
ohne Nabe

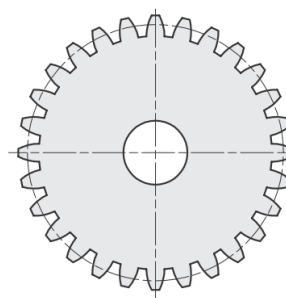


Abb. 3

| L  | B  |
|----|----|
| 25 | 15 |

| Bestellnummer | ZZ | DK | D  | ND | BO | Abb.   |
|---------------|----|----|----|----|----|--------|
| 516-010-0045  | 45 | 47 | 45 | 30 | 10 | Abb. 1 |
| 516-010-0046  | 46 | 48 | 46 | 30 | 10 | Abb. 1 |
| 516-010-0047  | 47 | 49 | 47 | 30 | 10 | Abb. 1 |
| 516-010-0048  | 48 | 50 | 48 | 30 | 10 | Abb. 1 |
| 516-010-0049  | 49 | 51 | 49 | 30 | 10 | Abb. 1 |
| 516-010-0050  | 50 | 52 | 50 | 30 | 12 | Abb. 1 |
| 516-010-0051  | 51 | 53 | 51 | 40 | 12 | Abb. 1 |
| 516-010-0052  | 52 | 54 | 52 | 40 | 12 | Abb. 1 |
| 516-010-0053  | 53 | 55 | 53 | 40 | 12 | Abb. 1 |
| 516-010-0054  | 54 | 56 | 54 | 40 | 12 | Abb. 1 |
| 516-010-0055  | 55 | 57 | 55 | 40 | 12 | Abb. 1 |
| 516-010-0056  | 56 | 58 | 56 | 40 | 12 | Abb. 1 |
| 516-010-0057  | 57 | 59 | 57 | 40 | 12 | Abb. 1 |
| 516-010-0058  | 58 | 60 | 58 | 40 | 12 | Abb. 1 |
| 516-010-0059  | 59 | 61 | 59 | 40 | 12 | Abb. 1 |
| 516-010-0060  | 60 | 62 | 60 | 40 | 12 | Abb. 1 |
| 516-010-0061  | 61 | 63 | 61 | 50 | 12 | Abb. 1 |
| 516-010-0062  | 62 | 64 | 62 | 50 | 12 | Abb. 1 |
| 516-010-0063  | 63 | 65 | 63 | 50 | 12 | Abb. 1 |
| 516-010-0064  | 64 | 66 | 64 | 50 | 12 | Abb. 1 |
| 516-010-0065  | 65 | 67 | 65 | 50 | 12 | Abb. 1 |
| 516-010-0066  | 66 | 68 | 66 | 50 | 12 | Abb. 1 |
| 516-010-0067  | 67 | 69 | 67 | 50 | 12 | Abb. 1 |
| 516-010-0068  | 68 | 70 | 68 | 50 | 12 | Abb. 1 |
| 516-010-0069  | 69 | 71 | 69 | 50 | 12 | Abb. 1 |
| 516-010-0070  | 70 | 72 | 70 | 50 | 12 | Abb. 1 |
| 514-010-0072  | 72 | 74 | 72 |    | 12 | Abb. 2 |
| 514-010-0075  | 75 | 77 | 75 |    | 12 | Abb. 2 |
| 514-010-0076  | 76 | 78 | 76 |    | 12 | Abb. 2 |
| 514-010-0080  | 80 | 82 | 80 |    | 12 | Abb. 2 |
| 514-010-0085  | 85 | 87 | 85 |    | 12 | Abb. 2 |
| 514-010-0090  | 90 | 92 | 90 |    | 12 | Abb. 2 |
| 514-010-0095  | 95 | 97 | 95 |    | 12 | Abb. 2 |

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## Modul:

**1**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

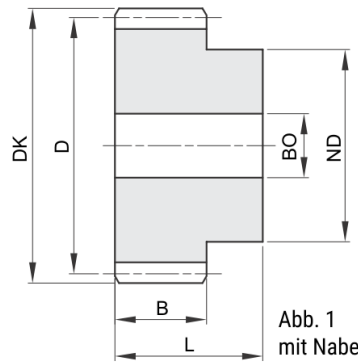


Abb. 1  
mit Nabe

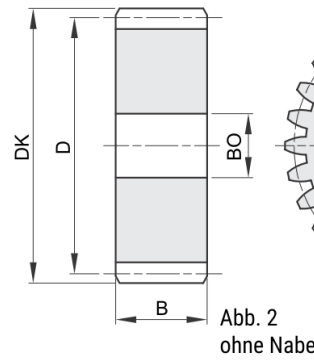


Abb. 2  
ohne Nabe

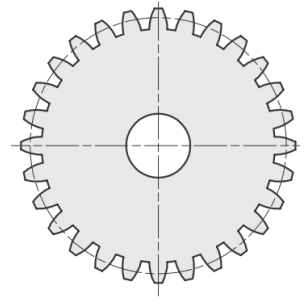


Abb. 3

| L  | B  |
|----|----|
| 25 | 15 |

| Bestellnummer | ZZ  | DK  | D   | ND | BO | Abb.   |
|---------------|-----|-----|-----|----|----|--------|
| 514-010-0100  | 100 | 102 | 100 |    | 12 | Abb. 2 |
| 514-010-0110  | 110 | 112 | 110 |    | 12 | Abb. 2 |
| 514-010-0114  | 114 | 116 | 114 |    | 12 | Abb. 2 |
| 514-010-0120  | 120 | 122 | 120 |    | 12 | Abb. 2 |
| 514-010-0127  | 127 | 129 | 127 |    | 12 | Abb. 2 |

### Modul:

1,5

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

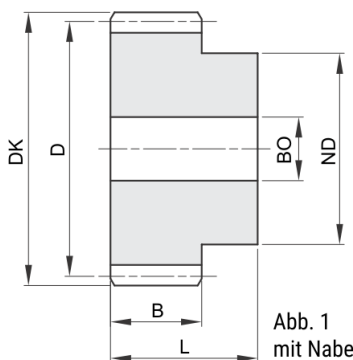


Abb. 1  
mit Nabe

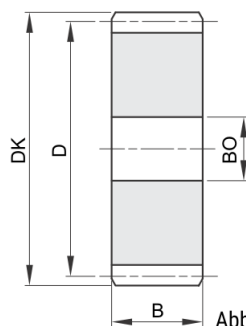


Abb. 2  
ohne Nabe

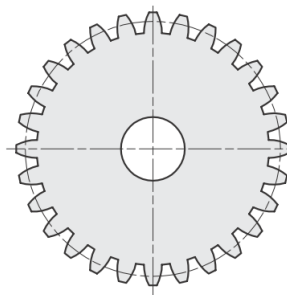


Abb. 3

| L  | B  |
|----|----|
| 30 | 17 |

| Bestellnummer | ZZ | DK   | D    | ND | BO | Abb.   |
|---------------|----|------|------|----|----|--------|
| 516-015-0012  | 12 | 21,0 | 18,0 | 14 | 8  | Abb. 1 |
| 516-015-0013  | 13 | 22,5 | 19,5 | 15 | 8  | Abb. 1 |
| 516-015-0014  | 14 | 24,0 | 21,0 | 17 | 8  | Abb. 1 |
| 516-015-0015  | 15 | 25,5 | 22,5 | 18 | 8  | Abb. 1 |
| 516-015-0016  | 16 | 27,0 | 24,0 | 19 | 8  | Abb. 1 |
| 516-015-0017  | 17 | 28,5 | 25,5 | 20 | 8  | Abb. 1 |
| 516-015-0018  | 18 | 30,0 | 27,0 | 20 | 8  | Abb. 1 |
| 516-015-0019  | 19 | 31,5 | 28,5 | 20 | 8  | Abb. 1 |
| 516-015-0020  | 20 | 33,0 | 30,0 | 25 | 8  | Abb. 1 |
| 516-015-0021  | 21 | 34,5 | 31,5 | 25 | 10 | Abb. 1 |
| 516-015-0022  | 22 | 36,0 | 33,0 | 25 | 10 | Abb. 1 |
| 516-015-0023  | 23 | 37,5 | 34,5 | 25 | 10 | Abb. 1 |
| 516-015-0024  | 24 | 39,0 | 36,0 | 25 | 10 | Abb. 1 |
| 516-015-0025  | 25 | 40,5 | 37,5 | 25 | 10 | Abb. 1 |
| 516-015-0026  | 26 | 42,0 | 39,0 | 30 | 12 | Abb. 1 |
| 516-015-0027  | 27 | 43,5 | 40,5 | 30 | 12 | Abb. 1 |
| 516-015-0028  | 28 | 45,0 | 42,0 | 30 | 12 | Abb. 1 |
| 516-015-0029  | 29 | 46,5 | 43,5 | 30 | 12 | Abb. 1 |
| 516-015-0030  | 30 | 48,0 | 45,0 | 30 | 12 | Abb. 1 |
| 516-015-0031  | 31 | 49,5 | 46,5 | 35 | 12 | Abb. 1 |
| 516-015-0032  | 32 | 51,0 | 48,0 | 35 | 12 | Abb. 1 |
| 516-015-0033  | 33 | 52,5 | 49,5 | 35 | 12 | Abb. 1 |
| 516-015-0034  | 34 | 54,0 | 51,0 | 35 | 12 | Abb. 1 |
| 516-015-0035  | 35 | 55,5 | 52,5 | 35 | 12 | Abb. 1 |
| 516-015-0036  | 36 | 57,0 | 54,0 | 35 | 12 | Abb. 1 |
| 516-015-0037  | 37 | 58,5 | 55,5 | 40 | 12 | Abb. 1 |
| 516-015-0038  | 38 | 60,0 | 57,0 | 40 | 12 | Abb. 1 |
| 516-015-0039  | 39 | 61,5 | 58,5 | 40 | 12 | Abb. 1 |
| 516-015-0040  | 40 | 63,0 | 60,0 | 40 | 12 | Abb. 1 |
| 516-015-0041  | 41 | 64,5 | 61,5 | 40 | 12 | Abb. 1 |
| 516-015-0042  | 42 | 66,0 | 63,0 | 50 | 12 | Abb. 1 |
| 516-015-0043  | 43 | 67,5 | 64,5 | 50 | 12 | Abb. 1 |
| 516-015-0044  | 44 | 69,0 | 66,0 | 50 | 12 | Abb. 1 |

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**Modul:** 1,5  
**Eingriffswinkel:** 20°  
**Verzahnung:** gerade  
**Werkstoff:** Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

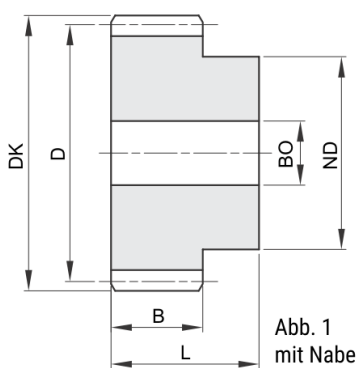


Abb. 1  
mit Nabe

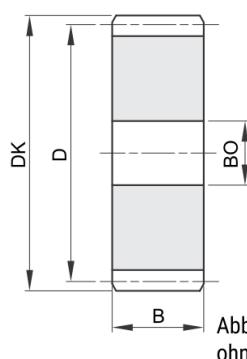


Abb. 2  
ohne Nabe

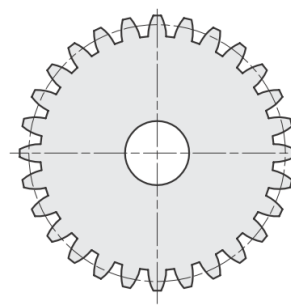


Abb. 3

| L  | B  |
|----|----|
| 30 | 17 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-015-0045  | 45 | 70,5  | 67,5  | 50 | 12 | Abb. 1 |
| 516-015-0046  | 46 | 72,0  | 69,0  | 50 | 14 | Abb. 1 |
| 516-015-0047  | 47 | 73,5  | 70,5  | 50 | 14 | Abb. 1 |
| 516-015-0048  | 48 | 75,0  | 72,0  | 50 | 14 | Abb. 1 |
| 516-015-0049  | 49 | 76,5  | 73,5  | 50 | 14 | Abb. 1 |
| 516-015-0050  | 50 | 78,0  | 75,0  | 50 | 14 | Abb. 1 |
| 516-015-0051  | 51 | 79,5  | 76,5  | 60 | 14 | Abb. 1 |
| 516-015-0052  | 52 | 81,0  | 78,0  | 60 | 14 | Abb. 1 |
| 516-015-0053  | 53 | 82,5  | 79,5  | 60 | 14 | Abb. 1 |
| 516-015-0054  | 54 | 84,0  | 81,0  | 60 | 14 | Abb. 1 |
| 516-015-0055  | 55 | 85,5  | 82,5  | 60 | 14 | Abb. 1 |
| 516-015-0056  | 56 | 87,0  | 84,0  | 60 | 16 | Abb. 1 |
| 516-015-0057  | 57 | 88,5  | 85,5  | 60 | 16 | Abb. 1 |
| 516-015-0058  | 58 | 90,0  | 87,0  | 60 | 16 | Abb. 1 |
| 516-015-0059  | 59 | 91,5  | 88,5  | 60 | 16 | Abb. 1 |
| 516-015-0060  | 60 | 93,0  | 90,0  | 60 | 16 | Abb. 1 |
| 516-015-0061  | 61 | 94,5  | 91,5  | 70 | 16 | Abb. 1 |
| 516-015-0062  | 62 | 96,0  | 93,0  | 70 | 16 | Abb. 1 |
| 516-015-0063  | 63 | 97,5  | 94,5  | 70 | 16 | Abb. 1 |
| 516-015-0064  | 64 | 99,0  | 96,0  | 70 | 16 | Abb. 1 |
| 516-015-0065  | 65 | 100,5 | 97,5  | 70 | 16 | Abb. 1 |
| 516-015-0066  | 66 | 102,0 | 99,0  | 70 | 16 | Abb. 1 |
| 516-015-0067  | 67 | 103,5 | 100,5 | 70 | 16 | Abb. 1 |
| 516-015-0068  | 68 | 105,0 | 102,0 | 70 | 16 | Abb. 1 |
| 516-015-0069  | 69 | 106,5 | 103,5 | 70 | 16 | Abb. 1 |
| 516-015-0070  | 70 | 108,0 | 105,0 | 70 | 16 | Abb. 1 |
| 514-015-0072  | 72 | 111,0 | 108,0 |    | 16 | Abb. 2 |
| 514-015-0075  | 75 | 115,5 | 112,5 |    | 16 | Abb. 2 |
| 514-015-0076  | 76 | 117,0 | 114,0 |    | 16 | Abb. 2 |
| 514-015-0080  | 80 | 123,0 | 120,0 |    | 16 | Abb. 2 |
| 514-015-0085  | 85 | 130,5 | 127,5 |    | 16 | Abb. 2 |
| 514-015-0090  | 90 | 138,0 | 135,0 |    | 16 | Abb. 2 |
| 514-015-0095  | 95 | 145,5 | 142,5 |    | 16 | Abb. 2 |

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**Modul:** 1,5

Eingriffswinkel: 20°  
 Verzahnung: gerade  
 Werkstoff: Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 30 | 17 |

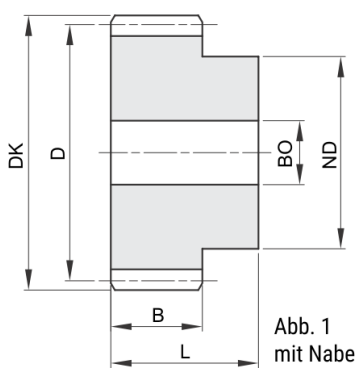


Abb. 1  
mit Nabe

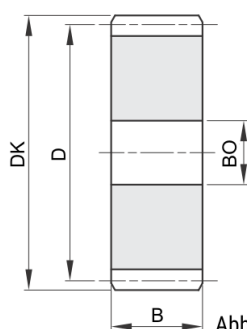


Abb. 2  
ohne Nabe

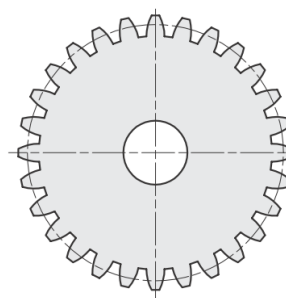


Abb. 3

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 514-015-0100  | 100 | 153,0 | 150,0 |    | 16 | Abb. 2 |
| 514-015-0110  | 110 | 168,0 | 165,0 |    | 16 | Abb. 2 |
| 514-015-0114  | 114 | 174,0 | 171,0 |    | 16 | Abb. 2 |
| 514-015-0120  | 120 | 183,0 | 180,0 |    | 16 | Abb. 2 |
| 514-015-0127  | 127 | 193,5 | 190,5 |    | 16 | Abb. 2 |

## Modul:

**2**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

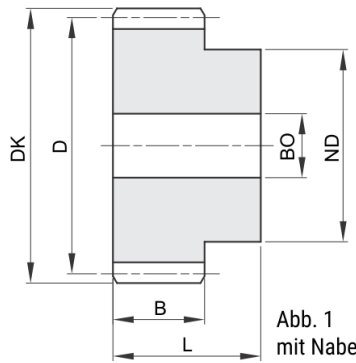


Abb. 1  
mit Nabe

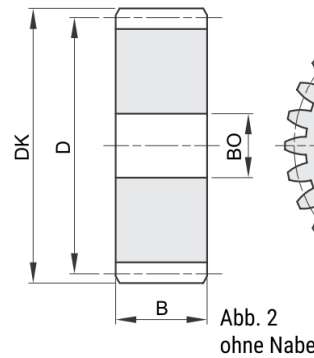


Abb. 2  
ohne Nabe

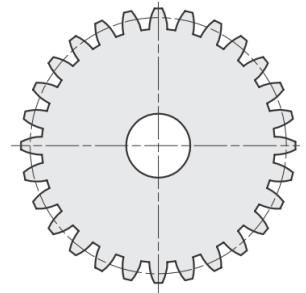


Abb. 3

| L  | B  |
|----|----|
| 35 | 20 |

| Bestellnummer | ZZ | DK   | D    | ND | BO | Abb.   |
|---------------|----|------|------|----|----|--------|
| 516-020-0012  | 12 | 28,0 | 24,0 | 18 | 10 | Abb. 1 |
| 516-020-0013  | 13 | 30,0 | 26,0 | 20 | 10 | Abb. 1 |
| 516-020-0014  | 14 | 32,0 | 28,0 | 22 | 10 | Abb. 1 |
| 516-020-0015  | 15 | 34,0 | 30,0 | 24 | 10 | Abb. 1 |
| 516-020-0016  | 16 | 36,0 | 32,0 | 25 | 10 | Abb. 1 |
| 516-020-0017  | 17 | 38,0 | 34,0 | 25 | 10 | Abb. 1 |
| 516-020-0018  | 18 | 40,0 | 36,0 | 25 | 10 | Abb. 1 |
| 516-020-0019  | 19 | 42,0 | 38,0 | 25 | 10 | Abb. 1 |
| 516-020-0020  | 20 | 44,0 | 40,0 | 30 | 10 | Abb. 1 |
| 516-020-0021  | 21 | 46,0 | 42,0 | 30 | 12 | Abb. 1 |
| 516-020-0022  | 22 | 48,0 | 44,0 | 30 | 12 | Abb. 1 |
| 516-020-0023  | 23 | 50,0 | 46,0 | 30 | 12 | Abb. 1 |
| 516-020-0024  | 24 | 52,0 | 48,0 | 35 | 12 | Abb. 1 |
| 516-020-0025  | 25 | 54,0 | 50,0 | 35 | 12 | Abb. 1 |
| 516-020-0026  | 26 | 56,0 | 52,0 | 40 | 12 | Abb. 1 |
| 516-020-0027  | 27 | 58,0 | 54,0 | 40 | 12 | Abb. 1 |
| 516-020-0028  | 28 | 60,0 | 56,0 | 40 | 12 | Abb. 1 |
| 516-020-0029  | 29 | 62,0 | 58,0 | 40 | 14 | Abb. 1 |
| 516-020-0030  | 30 | 64,0 | 60,0 | 40 | 14 | Abb. 1 |
| 516-020-0031  | 31 | 66,0 | 62,0 | 45 | 14 | Abb. 1 |
| 516-020-0032  | 32 | 68,0 | 64,0 | 45 | 14 | Abb. 1 |
| 516-020-0033  | 33 | 70,0 | 66,0 | 45 | 14 | Abb. 1 |
| 516-020-0034  | 34 | 72,0 | 68,0 | 45 | 14 | Abb. 1 |
| 516-020-0035  | 35 | 74,0 | 70,0 | 45 | 14 | Abb. 1 |
| 516-020-0036  | 36 | 76,0 | 72,0 | 45 | 14 | Abb. 1 |
| 516-020-0037  | 37 | 78,0 | 74,0 | 50 | 14 | Abb. 1 |
| 516-020-0038  | 38 | 80,0 | 76,0 | 50 | 14 | Abb. 1 |
| 516-020-0039  | 39 | 82,0 | 78,0 | 50 | 14 | Abb. 1 |
| 516-020-0040  | 40 | 84,0 | 80,0 | 50 | 14 | Abb. 1 |
| 516-020-0041  | 41 | 86,0 | 82,0 | 55 | 16 | Abb. 1 |
| 516-020-0042  | 42 | 88,0 | 84,0 | 55 | 16 | Abb. 1 |
| 516-020-0043  | 43 | 90,0 | 86,0 | 55 | 16 | Abb. 1 |
| 516-020-0044  | 44 | 92,0 | 88,0 | 60 | 16 | Abb. 1 |

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### Modul: 2

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

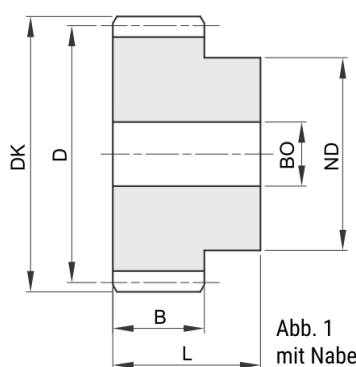


Abb. 1  
mit Nabe

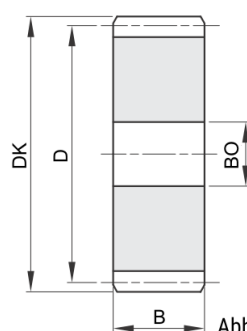


Abb. 2  
ohne Nabe

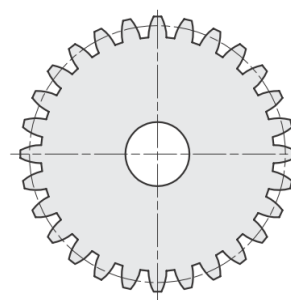


Abb. 3

| L  | B  |
|----|----|
| 35 | 20 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-020-0045  | 45 | 94,0  | 90,0  | 60 | 16 | Abb. 1 |
| 516-020-0046  | 46 | 96,0  | 92,0  | 60 | 16 | Abb. 1 |
| 516-020-0047  | 47 | 98,0  | 94,0  | 70 | 16 | Abb. 1 |
| 516-020-0048  | 48 | 100,0 | 96,0  | 70 | 16 | Abb. 1 |
| 516-020-0049  | 49 | 102,0 | 98,0  | 70 | 16 | Abb. 1 |
| 516-020-0050  | 50 | 104,0 | 100,0 | 70 | 16 | Abb. 1 |
| 516-020-0051  | 51 | 106,0 | 102,0 | 70 | 16 | Abb. 1 |
| 516-020-0052  | 52 | 108,0 | 104,0 | 70 | 16 | Abb. 1 |
| 516-020-0053  | 53 | 110,0 | 106,0 | 70 | 16 | Abb. 1 |
| 516-020-0054  | 54 | 112,0 | 108,0 | 70 | 16 | Abb. 1 |
| 516-020-0055  | 55 | 114,0 | 110,0 | 70 | 16 | Abb. 1 |
| 516-020-0056  | 56 | 116,0 | 112,0 | 70 | 16 | Abb. 1 |
| 516-020-0057  | 57 | 118,0 | 114,0 | 70 | 16 | Abb. 1 |
| 516-020-0058  | 58 | 120,0 | 116,0 | 70 | 16 | Abb. 1 |
| 516-020-0059  | 59 | 122,0 | 118,0 | 70 | 16 | Abb. 1 |
| 516-020-0060  | 60 | 124,0 | 120,0 | 70 | 16 | Abb. 1 |
| 516-020-0061  | 61 | 126,0 | 122,0 | 80 | 16 | Abb. 1 |
| 516-020-0062  | 62 | 128,0 | 124,0 | 80 | 16 | Abb. 1 |
| 516-020-0063  | 63 | 130,0 | 126,0 | 80 | 16 | Abb. 1 |
| 516-020-0064  | 64 | 132,0 | 128,0 | 80 | 16 | Abb. 1 |
| 516-020-0065  | 65 | 134,0 | 130,0 | 80 | 16 | Abb. 1 |
| 516-020-0066  | 66 | 136,0 | 132,0 | 80 | 16 | Abb. 1 |
| 516-020-0067  | 67 | 138,0 | 134,0 | 80 | 16 | Abb. 1 |
| 516-020-0068  | 68 | 140,0 | 136,0 | 80 | 16 | Abb. 1 |
| 516-020-0069  | 69 | 142,0 | 138,0 | 80 | 16 | Abb. 1 |
| 516-020-0070  | 70 | 144,0 | 140,0 | 80 | 16 | Abb. 1 |
| 514-020-0072  | 72 | 148,0 | 144,0 |    | 16 | Abb. 2 |
| 514-020-0075  | 75 | 154,0 | 150,0 |    | 20 | Abb. 2 |
| 514-020-0076  | 76 | 156,0 | 152,0 |    | 20 | Abb. 2 |
| 514-020-0080  | 80 | 164,0 | 160,0 |    | 20 | Abb. 2 |
| 514-020-0085  | 85 | 174,0 | 170,0 |    | 20 | Abb. 2 |
| 514-020-0090  | 90 | 184,0 | 180,0 |    | 20 | Abb. 2 |
| 514-020-0095  | 95 | 194,0 | 190,0 |    | 20 | Abb. 2 |

weitere siehe nächste Seite

## Modul:

**2**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

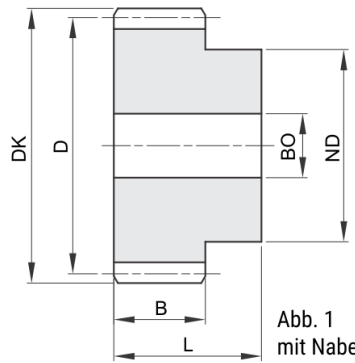


Abb. 1  
mit Nabe

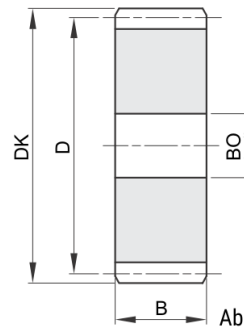


Abb. 2  
ohne Nabe

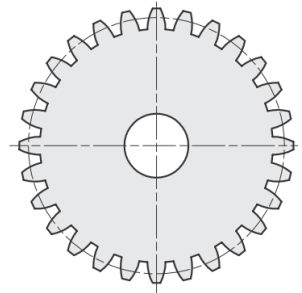


Abb. 3

| L  | B  |
|----|----|
| 35 | 20 |

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 514-020-0100  | 100 | 204,0 | 200,0 |    | 20 | Abb. 2 |
| 514-020-0110  | 110 | 224,0 | 220,0 |    | 20 | Abb. 2 |
| 514-020-0114  | 114 | 232,0 | 228,0 |    | 20 | Abb. 2 |
| 514-020-0120  | 120 | 244,0 | 240,0 |    | 20 | Abb. 2 |
| 514-020-0127  | 127 | 258,0 | 254,0 |    | 20 | Abb. 2 |

**Modul:**

**2,5**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

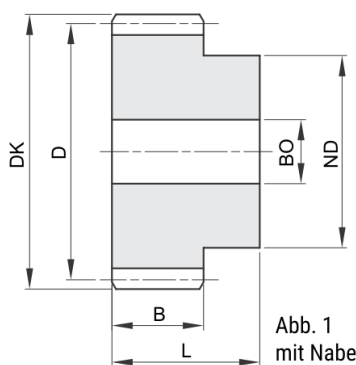


Abb. 1  
mit Nabe

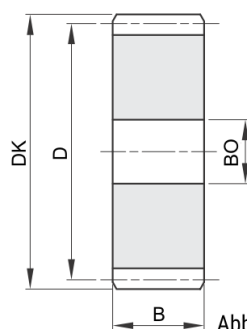


Abb. 2  
ohne Nabe

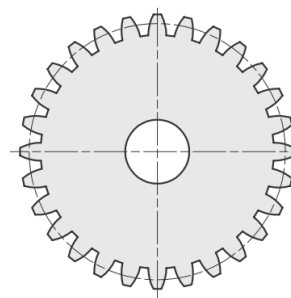


Abb. 3

| L  | B  |
|----|----|
| 45 | 25 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-025-0012  | 12 | 35,0  | 30,0  | 22 | 10 | Abb. 1 |
| 516-025-0013  | 13 | 37,5  | 32,5  | 25 | 10 | Abb. 1 |
| 516-025-0014  | 14 | 40,0  | 35,0  | 28 | 10 | Abb. 1 |
| 516-025-0015  | 15 | 42,5  | 37,5  | 30 | 10 | Abb. 1 |
| 516-025-0016  | 16 | 45,0  | 40,0  | 32 | 12 | Abb. 1 |
| 516-025-0017  | 17 | 47,5  | 42,5  | 35 | 12 | Abb. 1 |
| 516-025-0018  | 18 | 50,0  | 45,0  | 35 | 12 | Abb. 1 |
| 516-025-0019  | 19 | 52,5  | 47,5  | 35 | 12 | Abb. 1 |
| 516-025-0020  | 20 | 55,0  | 50,0  | 40 | 12 | Abb. 1 |
| 516-025-0021  | 21 | 57,5  | 52,5  | 40 | 14 | Abb. 1 |
| 516-025-0022  | 22 | 60,0  | 55,0  | 45 | 14 | Abb. 1 |
| 516-025-0023  | 23 | 62,5  | 57,5  | 45 | 14 | Abb. 1 |
| 516-025-0024  | 24 | 65,0  | 60,0  | 45 | 14 | Abb. 1 |
| 516-025-0025  | 25 | 67,5  | 62,5  | 50 | 14 | Abb. 1 |
| 516-025-0026  | 26 | 70,0  | 65,0  | 50 | 14 | Abb. 1 |
| 516-025-0027  | 27 | 72,5  | 67,5  | 50 | 14 | Abb. 1 |
| 516-025-0028  | 28 | 75,0  | 70,0  | 50 | 14 | Abb. 1 |
| 516-025-0029  | 29 | 77,5  | 72,5  | 50 | 14 | Abb. 1 |
| 516-025-0030  | 30 | 80,0  | 75,0  | 55 | 14 | Abb. 1 |
| 516-025-0031  | 31 | 82,5  | 77,5  | 55 | 16 | Abb. 1 |
| 516-025-0032  | 32 | 85,0  | 80,0  | 55 | 16 | Abb. 1 |
| 516-025-0033  | 33 | 87,5  | 82,5  | 55 | 16 | Abb. 1 |
| 516-025-0034  | 34 | 90,0  | 85,0  | 55 | 16 | Abb. 1 |
| 516-025-0035  | 35 | 92,5  | 87,5  | 60 | 16 | Abb. 1 |
| 516-025-0036  | 36 | 95,0  | 90,0  | 60 | 16 | Abb. 1 |
| 516-025-0037  | 37 | 97,5  | 92,5  | 60 | 16 | Abb. 1 |
| 516-025-0038  | 38 | 100,0 | 95,0  | 60 | 16 | Abb. 1 |
| 516-025-0039  | 39 | 102,5 | 97,5  | 60 | 16 | Abb. 1 |
| 516-025-0040  | 40 | 105,0 | 100,0 | 70 | 16 | Abb. 1 |
| 516-025-0041  | 41 | 107,5 | 102,5 | 70 | 16 | Abb. 1 |
| 516-025-0042  | 42 | 110,0 | 105,0 | 70 | 16 | Abb. 1 |
| 516-025-0043  | 43 | 112,5 | 107,5 | 70 | 16 | Abb. 1 |
| 516-025-0044  | 44 | 115,0 | 110,0 | 70 | 16 | Abb. 1 |

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**Modul:**

**2,5**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

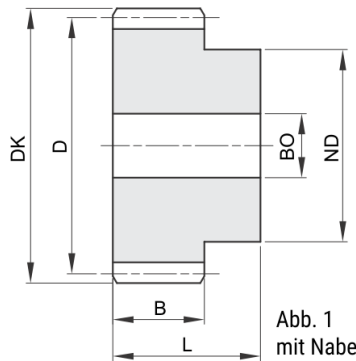


Abb. 1  
mit Nabe

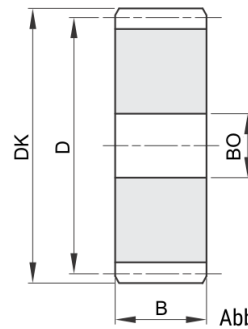


Abb. 2  
ohne Nabe

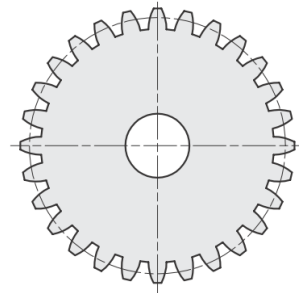


Abb. 3

| L  | B  |
|----|----|
| 45 | 25 |

| Bestellnummer | ZZ  | DK    | D     | ND  | BO | Abb.   |
|---------------|-----|-------|-------|-----|----|--------|
| 516-025-0045  | 45  | 117,5 | 112,5 | 70  | 16 | Abb. 1 |
| 516-025-0046  | 46  | 120,0 | 115,0 | 70  | 20 | Abb. 1 |
| 516-025-0047  | 47  | 122,5 | 117,5 | 80  | 20 | Abb. 1 |
| 516-025-0048  | 48  | 125,0 | 120,0 | 80  | 20 | Abb. 1 |
| 516-025-0049  | 49  | 127,5 | 122,5 | 80  | 20 | Abb. 1 |
| 516-025-0050  | 50  | 130,0 | 125,0 | 80  | 20 | Abb. 1 |
| 516-025-0051  | 51  | 132,5 | 127,5 | 80  | 20 | Abb. 1 |
| 516-025-0052  | 52  | 135,0 | 130,0 | 90  | 20 | Abb. 1 |
| 516-025-0053  | 53  | 137,5 | 132,5 | 90  | 20 | Abb. 1 |
| 516-025-0054  | 54  | 140,0 | 135,0 | 90  | 20 | Abb. 1 |
| 516-025-0055  | 55  | 142,5 | 137,5 | 90  | 20 | Abb. 1 |
| 516-025-0056  | 56  | 145,0 | 140,0 | 100 | 20 | Abb. 1 |
| 516-025-0057  | 57  | 147,5 | 142,5 | 100 | 20 | Abb. 1 |
| 516-025-0058  | 58  | 150,0 | 145,0 | 100 | 20 | Abb. 1 |
| 516-025-0059  | 59  | 152,5 | 147,5 | 100 | 20 | Abb. 1 |
| 516-025-0060  | 60  | 155,0 | 150,0 | 100 | 20 | Abb. 1 |
| 514-025-0065  | 65  | 167,5 | 162,5 |     | 20 | Abb. 2 |
| 514-025-0070  | 70  | 180,0 | 175,0 |     | 20 | Abb. 2 |
| 514-025-0072  | 72  | 185,0 | 180,0 |     | 20 | Abb. 2 |
| 514-025-0075  | 75  | 192,5 | 187,5 |     | 20 | Abb. 2 |
| 514-025-0076  | 76  | 195,0 | 190,0 |     | 20 | Abb. 2 |
| 514-025-0080  | 80  | 205,0 | 200,0 |     | 25 | Abb. 2 |
| 514-025-0085  | 85  | 217,5 | 212,5 |     | 25 | Abb. 2 |
| 514-025-0090  | 90  | 230,0 | 225,0 |     | 25 | Abb. 2 |
| 514-025-0095  | 95  | 242,5 | 237,5 |     | 25 | Abb. 2 |
| 514-025-0100  | 100 | 255,0 | 250,0 |     | 25 | Abb. 2 |
| 514-025-0110  | 110 | 280,0 | 275,0 |     | 25 | Abb. 2 |
| 514-025-0114  | 114 | 290,0 | 285,0 |     | 25 | Abb. 2 |
| 514-025-0120  | 120 | 305,0 | 300,0 |     | 25 | Abb. 2 |
| 514-025-0127  | 127 | 322,5 | 317,5 |     | 25 | Abb. 2 |

### Modul:

3

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

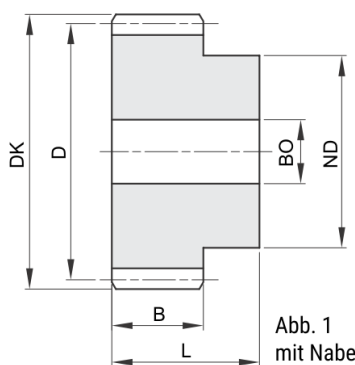


Abb. 1  
mit Nabe

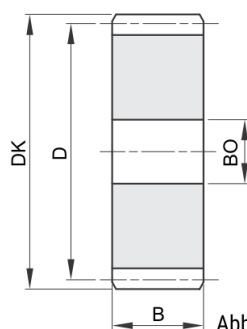


Abb. 2  
ohne Nabe

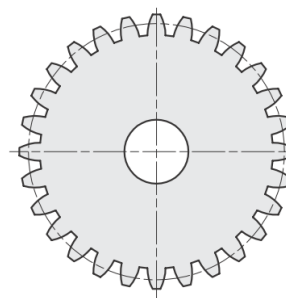


Abb. 3

| L  | B  |
|----|----|
| 50 | 30 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-030-0012  | 12 | 42,0  | 36,0  | 27 | 12 | Abb. 1 |
| 516-030-0013  | 13 | 45,0  | 39,0  | 30 | 12 | Abb. 1 |
| 516-030-0014  | 14 | 48,0  | 42,0  | 33 | 12 | Abb. 1 |
| 516-030-0015  | 15 | 51,0  | 45,0  | 35 | 12 | Abb. 1 |
| 516-030-0016  | 16 | 54,0  | 48,0  | 38 | 14 | Abb. 1 |
| 516-030-0017  | 17 | 57,0  | 51,0  | 42 | 14 | Abb. 1 |
| 516-030-0018  | 18 | 60,0  | 54,0  | 45 | 14 | Abb. 1 |
| 516-030-0019  | 19 | 63,0  | 57,0  | 45 | 14 | Abb. 1 |
| 516-030-0020  | 20 | 66,0  | 60,0  | 45 | 14 | Abb. 1 |
| 516-030-0021  | 21 | 69,0  | 63,0  | 45 | 16 | Abb. 1 |
| 516-030-0022  | 22 | 72,0  | 66,0  | 50 | 16 | Abb. 1 |
| 516-030-0023  | 23 | 75,0  | 69,0  | 50 | 16 | Abb. 1 |
| 516-030-0024  | 24 | 78,0  | 72,0  | 50 | 16 | Abb. 1 |
| 516-030-0025  | 25 | 81,0  | 75,0  | 60 | 16 | Abb. 1 |
| 516-030-0026  | 26 | 84,0  | 78,0  | 60 | 16 | Abb. 1 |
| 516-030-0027  | 27 | 87,0  | 81,0  | 60 | 16 | Abb. 1 |
| 516-030-0028  | 28 | 90,0  | 84,0  | 60 | 16 | Abb. 1 |
| 516-030-0029  | 29 | 93,0  | 87,0  | 60 | 16 | Abb. 1 |
| 516-030-0030  | 30 | 96,0  | 90,0  | 60 | 16 | Abb. 1 |
| 516-030-0031  | 31 | 99,0  | 93,0  | 60 | 16 | Abb. 1 |
| 516-030-0032  | 32 | 102,0 | 96,0  | 70 | 16 | Abb. 1 |
| 516-030-0033  | 33 | 105,0 | 99,0  | 70 | 16 | Abb. 1 |
| 516-030-0034  | 34 | 108,0 | 102,0 | 70 | 16 | Abb. 1 |
| 516-030-0035  | 35 | 111,0 | 105,0 | 70 | 16 | Abb. 1 |
| 516-030-0036  | 36 | 114,0 | 108,0 | 70 | 20 | Abb. 1 |
| 516-030-0037  | 37 | 117,0 | 111,0 | 70 | 20 | Abb. 1 |
| 516-030-0038  | 38 | 120,0 | 114,0 | 80 | 20 | Abb. 1 |
| 516-030-0039  | 39 | 123,0 | 117,0 | 80 | 20 | Abb. 1 |
| 516-030-0040  | 40 | 126,0 | 120,0 | 80 | 20 | Abb. 1 |
| 516-030-0041  | 41 | 129,0 | 123,0 | 80 | 20 | Abb. 1 |
| 516-030-0042  | 42 | 132,0 | 126,0 | 80 | 20 | Abb. 1 |
| 516-030-0043  | 43 | 135,0 | 129,0 | 80 | 20 | Abb. 1 |
| 516-030-0044  | 44 | 138,0 | 132,0 | 90 | 20 | Abb. 1 |

weitere siehe nächste Seite

## Modul:

**3**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

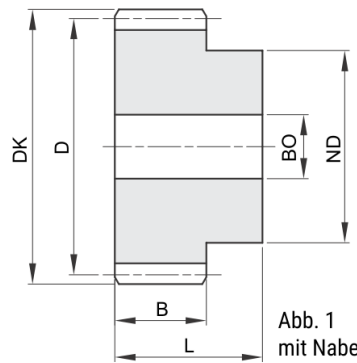


Abb. 1  
mit Nabe

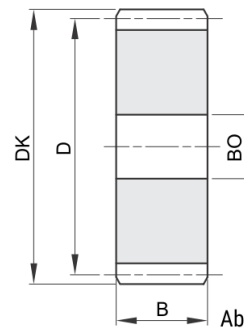


Abb. 2  
ohne Nabe

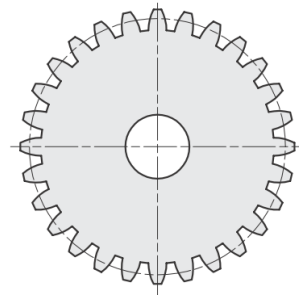


Abb. 3

| L  | B  |
|----|----|
| 50 | 30 |

| Bestellnummer | ZZ  | DK    | D     | ND  | BO | Abb.   |
|---------------|-----|-------|-------|-----|----|--------|
| 516-030-0045  | 45  | 141,0 | 135,0 | 90  | 20 | Abb. 1 |
| 516-030-0046  | 46  | 144,0 | 138,0 | 90  | 20 | Abb. 1 |
| 516-030-0047  | 47  | 147,0 | 141,0 | 100 | 20 | Abb. 1 |
| 516-030-0048  | 48  | 150,0 | 144,0 | 100 | 20 | Abb. 1 |
| 514-030-0050  | 50  | 156,0 | 150,0 |     | 20 | Abb. 2 |
| 514-030-0052  | 52  | 162,0 | 156,0 |     | 20 | Abb. 2 |
| 514-030-0055  | 55  | 171,0 | 165,0 |     | 20 | Abb. 2 |
| 514-030-0057  | 57  | 177,0 | 171,0 |     | 20 | Abb. 2 |
| 514-030-0060  | 60  | 186,0 | 180,0 |     | 20 | Abb. 2 |
| 514-030-0065  | 65  | 201,0 | 195,0 |     | 20 | Abb. 2 |
| 514-030-0070  | 70  | 216,0 | 210,0 |     | 25 | Abb. 2 |
| 514-030-0072  | 72  | 222,0 | 216,0 |     | 25 | Abb. 2 |
| 514-030-0075  | 75  | 231,0 | 225,0 |     | 25 | Abb. 2 |
| 514-030-0076  | 76  | 234,0 | 228,0 |     | 25 | Abb. 2 |
| 514-030-0080  | 80  | 246,0 | 240,0 |     | 25 | Abb. 2 |
| 514-030-0085  | 85  | 261,0 | 255,0 |     | 25 | Abb. 2 |
| 514-030-0090  | 90  | 276,0 | 270,0 |     | 25 | Abb. 2 |
| 514-030-0095  | 95  | 291,0 | 285,0 |     | 25 | Abb. 2 |
| 514-030-0100  | 100 | 306,0 | 300,0 |     | 25 | Abb. 2 |
| 514-030-0110  | 110 | 336,0 | 320,0 |     | 25 | Abb. 2 |
| 514-030-0114  | 114 | 348,0 | 342,0 |     | 30 | Abb. 2 |
| 514-030-0120  | 120 | 366,0 | 360,0 |     | 30 | Abb. 2 |
| 514-030-0127  | 127 | 387,0 | 381,0 |     | 30 | Abb. 2 |

### Modul:

4

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

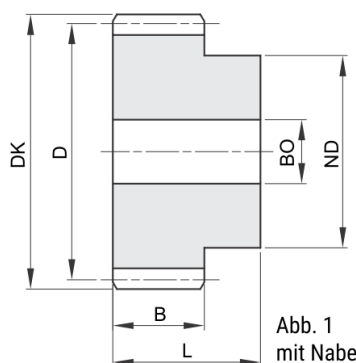


Abb. 1  
mit Nabe

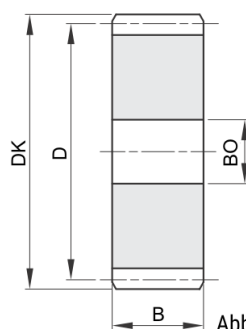


Abb. 2  
ohne Nabe

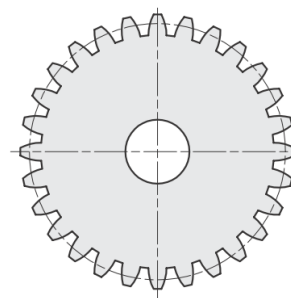


Abb. 3

| L  | B  |
|----|----|
| 60 | 40 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-040-0012  | 12 | 56,0  | 48,0  | 35 | 14 | Abb. 1 |
| 516-040-0013  | 13 | 60,0  | 52,0  | 40 | 14 | Abb. 1 |
| 516-040-0014  | 14 | 64,0  | 56,0  | 45 | 14 | Abb. 1 |
| 516-040-0015  | 15 | 68,0  | 60,0  | 45 | 14 | Abb. 1 |
| 516-040-0016  | 16 | 72,0  | 64,0  | 50 | 16 | Abb. 1 |
| 516-040-0017  | 17 | 76,0  | 68,0  | 50 | 16 | Abb. 1 |
| 516-040-0018  | 18 | 80,0  | 72,0  | 50 | 16 | Abb. 1 |
| 516-040-0019  | 19 | 84,0  | 76,0  | 60 | 16 | Abb. 1 |
| 516-040-0020  | 20 | 88,0  | 80,0  | 60 | 16 | Abb. 1 |
| 516-040-0021  | 21 | 92,0  | 84,0  | 70 | 16 | Abb. 1 |
| 516-040-0022  | 22 | 96,0  | 88,0  | 70 | 16 | Abb. 1 |
| 516-040-0023  | 23 | 100,0 | 92,0  | 75 | 20 | Abb. 1 |
| 516-040-0024  | 24 | 104,0 | 96,0  | 75 | 20 | Abb. 1 |
| 516-040-0025  | 25 | 108,0 | 100,0 | 75 | 20 | Abb. 1 |
| 516-040-0026  | 26 | 112,0 | 104,0 | 75 | 20 | Abb. 1 |
| 516-040-0027  | 27 | 116,0 | 108,0 | 75 | 20 | Abb. 1 |
| 516-040-0028  | 28 | 120,0 | 112,0 | 75 | 20 | Abb. 1 |
| 516-040-0029  | 29 | 124,0 | 116,0 | 75 | 20 | Abb. 1 |
| 516-040-0030  | 30 | 128,0 | 120,0 | 75 | 20 | Abb. 1 |
| 516-040-0031  | 31 | 132,0 | 124,0 | 80 | 20 | Abb. 1 |
| 516-040-0032  | 32 | 136,0 | 128,0 | 80 | 20 | Abb. 1 |
| 516-040-0033  | 33 | 140,0 | 132,0 | 80 | 20 | Abb. 1 |
| 516-040-0034  | 34 | 144,0 | 136,0 | 80 | 20 | Abb. 1 |
| 516-040-0035  | 35 | 148,0 | 140,0 | 80 | 20 | Abb. 1 |
| 516-040-0036  | 36 | 152,0 | 144,0 | 80 | 25 | Abb. 1 |
| 514-040-0038  | 38 | 160,0 | 152,0 |    | 25 | Abb. 2 |
| 514-040-0040  | 40 | 168,0 | 160,0 |    | 25 | Abb. 2 |
| 514-040-0045  | 45 | 188,0 | 180,0 |    | 25 | Abb. 2 |
| 514-040-0048  | 48 | 200,0 | 192,0 |    | 25 | Abb. 2 |
| 514-040-0050  | 50 | 208,0 | 200,0 |    | 25 | Abb. 2 |
| 514-040-0052  | 52 | 216,0 | 208,0 |    | 25 | Abb. 2 |
| 514-040-0055  | 55 | 228,0 | 220,0 |    | 25 | Abb. 2 |
| 514-040-0057  | 57 | 236,0 | 228,0 |    | 25 | Abb. 2 |

weitere siehe nächste Seite

## Modul: 4

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

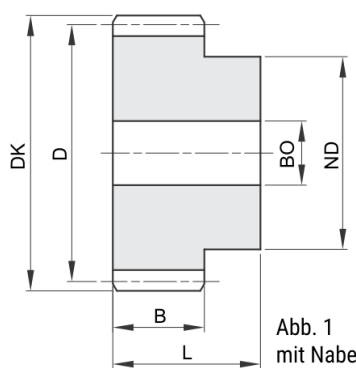


Abb. 1  
mit Nabe

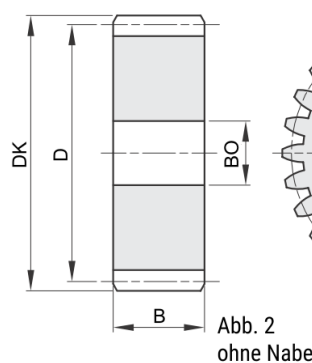


Abb. 2  
ohne Nabe

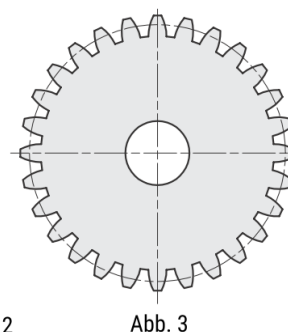


Abb. 3

| L  | B  |
|----|----|
| 60 | 40 |

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 514-040-0060  | 60  | 248,0 | 240,0 |    | 25 | Abb. 2 |
| 514-040-0065  | 65  | 268,0 | 260,0 |    | 25 | Abb. 2 |
| 514-040-0070  | 70  | 288,0 | 280,0 |    | 25 | Abb. 2 |
| 514-040-0075  | 75  | 308,0 | 300,0 |    | 25 | Abb. 2 |
| 514-040-0076  | 76  | 312,0 | 304,0 |    | 30 | Abb. 2 |
| 514-040-0080  | 80  | 328,0 | 320,0 |    | 30 | Abb. 2 |
| 514-040-0085  | 85  | 348,0 | 340,0 |    | 30 | Abb. 2 |
| 514-040-0090  | 90  | 368,0 | 360,0 |    | 30 | Abb. 2 |
| 514-040-0095  | 95  | 388,0 | 380,0 |    | 30 | Abb. 2 |
| 514-040-0100  | 100 | 408,0 | 400,0 |    | 30 | Abb. 2 |
| 514-040-0110  | 110 | 448,0 | 440,0 |    | 30 | Abb. 2 |
| 514-040-0114  | 114 | 464,0 | 456,0 |    | 30 | Abb. 2 |

### Modul:

5

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

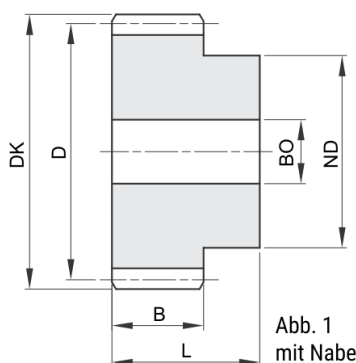


Abb. 1  
mit Nabe

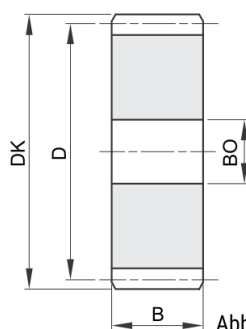


Abb. 2  
ohne Nabe

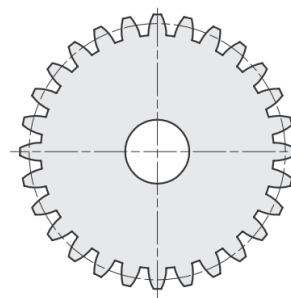


Abb. 3

| L  | B  |
|----|----|
| 75 | 50 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-050-0012  | 12 | 70,0  | 60,0  | 45  | 20 | Abb. 1 |
| 516-050-0013  | 13 | 75,0  | 65,0  | 50  | 20 | Abb. 1 |
| 516-050-0014  | 14 | 80,0  | 70,0  | 55  | 20 | Abb. 1 |
| 516-050-0015  | 15 | 85,0  | 75,0  | 60  | 20 | Abb. 1 |
| 516-050-0016  | 16 | 90,0  | 80,0  | 65  | 20 | Abb. 1 |
| 516-050-0017  | 17 | 95,0  | 85,0  | 70  | 20 | Abb. 1 |
| 516-050-0018  | 18 | 100,0 | 90,0  | 70  | 20 | Abb. 1 |
| 516-050-0019  | 19 | 105,0 | 95,0  | 70  | 20 | Abb. 1 |
| 516-050-0020  | 20 | 110,0 | 100,0 | 80  | 20 | Abb. 1 |
| 516-050-0021  | 21 | 115,0 | 105,0 | 80  | 20 | Abb. 1 |
| 516-050-0022  | 22 | 120,0 | 110,0 | 80  | 20 | Abb. 1 |
| 516-050-0023  | 23 | 125,0 | 115,0 | 90  | 20 | Abb. 1 |
| 516-050-0024  | 24 | 130,0 | 120,0 | 90  | 20 | Abb. 1 |
| 516-050-0025  | 25 | 135,0 | 125,0 | 90  | 20 | Abb. 1 |
| 516-050-0026  | 26 | 140,0 | 130,0 | 100 | 20 | Abb. 1 |
| 516-050-0027  | 27 | 145,0 | 135,0 | 100 | 20 | Abb. 1 |
| 516-050-0028  | 28 | 150,0 | 140,0 | 100 | 25 | Abb. 1 |
| 516-050-0029  | 29 | 155,0 | 145,0 | 110 | 25 | Abb. 1 |
| 516-050-0030  | 30 | 160,0 | 150,0 | 110 | 25 | Abb. 1 |
| 514-050-0032  | 32 | 170,0 | 160,0 |     | 25 | Abb. 2 |
| 514-050-0035  | 35 | 185,0 | 175,0 |     | 25 | Abb. 2 |
| 514-050-0038  | 38 | 200,0 | 190,0 |     | 25 | Abb. 2 |
| 514-050-0040  | 40 | 210,0 | 200,0 |     | 25 | Abb. 2 |
| 514-050-0045  | 45 | 235,0 | 225,0 |     | 25 | Abb. 2 |
| 514-050-0048  | 48 | 250,0 | 240,0 |     | 25 | Abb. 2 |
| 514-050-0050  | 50 | 260,0 | 250,0 |     | 30 | Abb. 2 |
| 514-050-0052  | 52 | 270,0 | 260,0 |     | 30 | Abb. 2 |
| 514-050-0055  | 55 | 285,0 | 275,0 |     | 30 | Abb. 2 |
| 514-050-0057  | 57 | 295,0 | 285,0 |     | 30 | Abb. 2 |
| 514-050-0060  | 60 | 310,0 | 300,0 |     | 30 | Abb. 2 |
| 514-050-0065  | 65 | 335,0 | 325,0 |     | 30 | Abb. 2 |
| 514-050-0070  | 70 | 360,0 | 350,0 |     | 30 | Abb. 2 |
| 514-050-0075  | 75 | 385,0 | 375,0 |     | 30 | Abb. 2 |

weitere siehe nächste Seite

## Modul:

**5**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

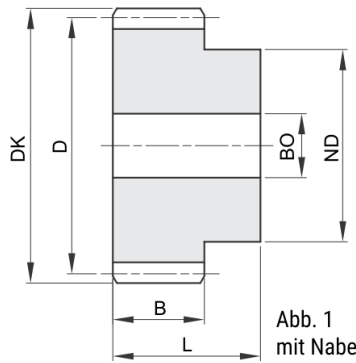


Abb. 1  
mit Nabe

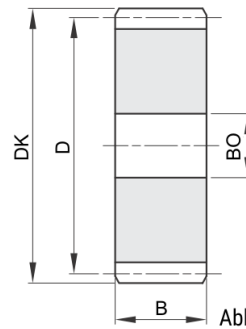


Abb. 2  
ohne Nabe

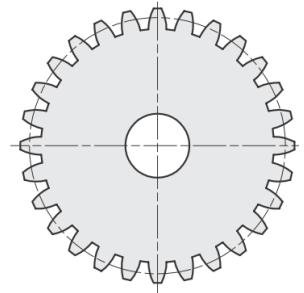


Abb. 3

| L  | B  |
|----|----|
| 75 | 50 |

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 514-050-0076  | 76  | 390,0 | 380,0 |    | 30 | Abb. 2 |
| 514-050-0080  | 80  | 410,0 | 400,0 |    | 30 | Abb. 2 |
| 514-050-0085  | 85  | 435,0 | 425,0 |    | 30 | Abb. 2 |
| 514-050-0090  | 90  | 460,0 | 450,0 |    | 30 | Abb. 2 |
| 514-050-0095  | 95  | 485,0 | 475,0 |    | 30 | Abb. 2 |
| 514-050-0100  | 100 | 510,0 | 500,0 |    | 30 | Abb. 2 |
| 514-050-0110  | 110 | 560,0 | 550,0 |    | 30 | Abb. 2 |
| 514-050-0114  | 114 | 580,0 | 570,0 |    | 30 | Abb. 2 |

### Modul:

6

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

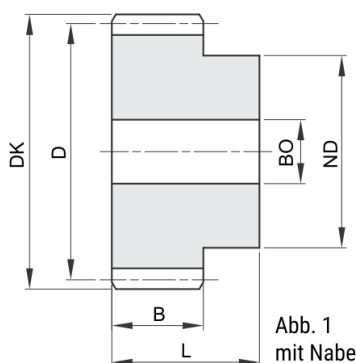


Abb. 1  
mit Nabe

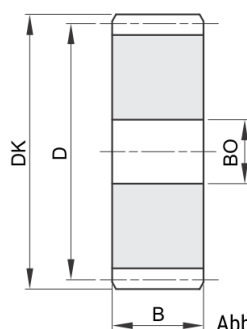


Abb. 2  
ohne Nabe

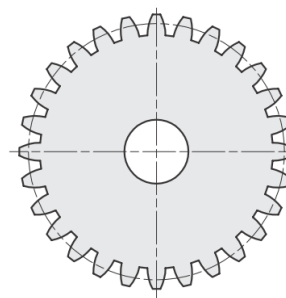


Abb. 3

| L  | B  |
|----|----|
| 80 | 60 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-060-0012  | 12 | 84,0  | 72,0  | 54  | 20 | Abb. 1 |
| 516-060-0013  | 13 | 90,0  | 78,0  | 60  | 20 | Abb. 1 |
| 516-060-0015  | 15 | 102,0 | 90,0  | 70  | 20 | Abb. 1 |
| 516-060-0016  | 16 | 108,0 | 95,0  | 75  | 20 | Abb. 1 |
| 516-060-0018  | 18 | 120,0 | 108,0 | 80  | 20 | Abb. 1 |
| 516-060-0020  | 20 | 132,0 | 120,0 | 90  | 20 | Abb. 1 |
| 516-060-0024  | 24 | 156,0 | 144,0 | 110 | 25 | Abb. 1 |
| 516-060-0025  | 25 | 162,0 | 150,0 | 110 | 25 | Abb. 1 |
| 514-060-0028  | 28 | 180,0 | 168,0 |     | 25 | Abb. 2 |
| 514-060-0030  | 30 | 192,0 | 180,0 |     | 25 | Abb. 2 |
| 514-060-0032  | 32 | 204,0 | 192,0 |     | 25 | Abb. 2 |
| 514-060-0035  | 35 | 222,0 | 210,0 |     | 25 | Abb. 2 |
| 514-060-0038  | 38 | 240,0 | 228,0 |     | 25 | Abb. 2 |
| 514-060-0040  | 40 | 252,0 | 240,0 |     | 25 | Abb. 2 |

## Modul:

**8**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

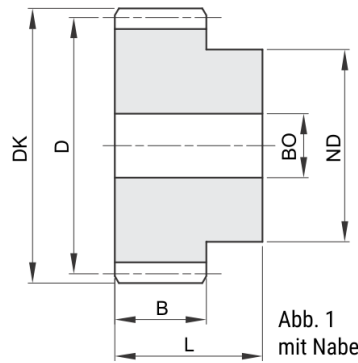


Abb. 1  
mit Nabe

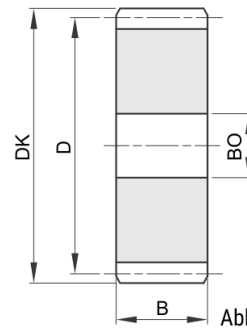


Abb. 2  
ohne Nabe

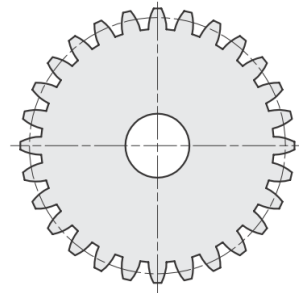


Abb. 3

| L   | B  |
|-----|----|
| 110 | 80 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-080-0012  | 12 | 112,0 | 96,0  | 70  | 25 | Abb. 1 |
| 516-080-0015  | 15 | 136,0 | 120,0 | 80  | 25 | Abb. 1 |
| 516-080-0020  | 20 | 176,0 | 160,0 | 100 | 25 | Abb. 1 |
| 516-080-0025  | 25 | 216,0 | 200,0 | 120 | 30 | Abb. 1 |
| 516-080-0030  | 30 | 256,0 | 240,0 | 150 | 30 | Abb. 1 |

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Modul:

**1**

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Edelstahl  
1.4305

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 25 | 15 |

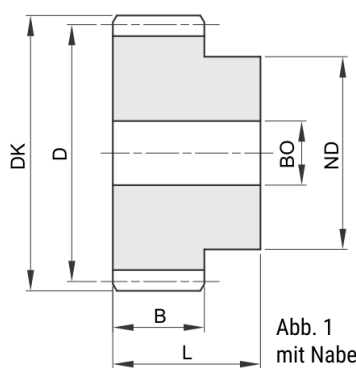


Abb. 1  
mit Nabe

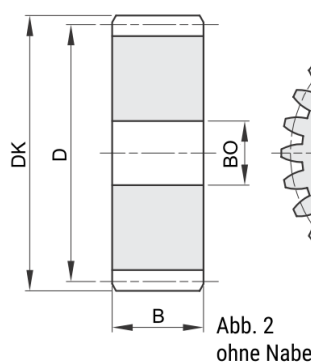


Abb. 2  
ohne Nabe

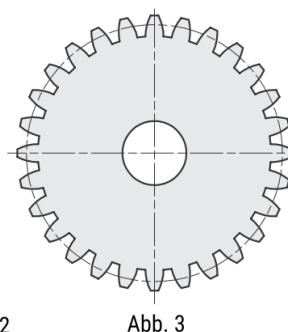


Abb. 3

| Bestellnummer | ZZ  | DK  | D   | ND | BO | Abb.   |
|---------------|-----|-----|-----|----|----|--------|
| 536-010-0012  | 12  | 14  | 12  | 9  | -  | Abb. 1 |
| 536-010-0013  | 13  | 15  | 13  | 10 | -  | Abb. 1 |
| 536-010-0014  | 14  | 16  | 14  | 11 | -  | Abb. 1 |
| 536-010-0015  | 15  | 17  | 15  | 12 | -  | Abb. 1 |
| 536-010-0016  | 16  | 18  | 16  | 13 | -  | Abb. 1 |
| 536-010-0018  | 18  | 20  | 18  | 15 | 8  | Abb. 1 |
| 536-010-0020  | 20  | 22  | 20  | 16 | 8  | Abb. 1 |
| 536-010-0024  | 24  | 26  | 24  | 20 | 10 | Abb. 1 |
| 536-010-0025  | 25  | 27  | 25  | 20 | 10 | Abb. 1 |
| 536-010-0030  | 30  | 32  | 30  | 20 | 10 | Abb. 1 |
| 536-010-0035  | 35  | 37  | 35  | 25 | 10 | Abb. 1 |
| 536-010-0040  | 40  | 42  | 40  | 25 | 10 | Abb. 1 |
| 536-010-0050  | 50  | 52  | 50  | 30 | 12 | Abb. 1 |
| 536-010-0060  | 60  | 62  | 60  | 40 | 12 | Abb. 1 |
| 536-010-0070  | 70  | 72  | 70  | 50 | 12 | Abb. 1 |
| 534-010-0080  | 80  | 82  | 80  |    | 12 | Abb. 2 |
| 534-010-0090  | 90  | 92  | 90  |    | 12 | Abb. 2 |
| 534-010-0100  | 100 | 102 | 100 |    | 12 | Abb. 2 |
| 534-010-0110  | 110 | 112 | 110 |    | 12 | Abb. 2 |
| 534-010-0120  | 120 | 122 | 120 |    | 12 | Abb. 2 |

**Modul:** 1,5

Eingriffswinkel: 20°  
 Verzahnung: gerade  
 Werkstoff: Edelstahl 1.4305

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 30 | 17 |

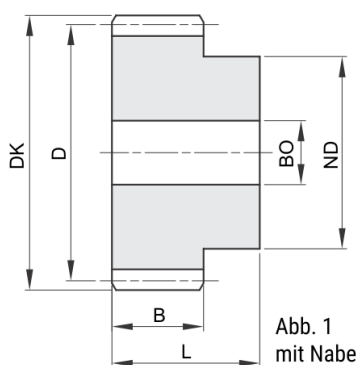


Abb. 1  
mit Nabe

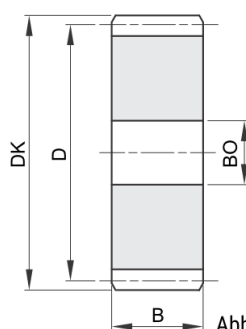


Abb. 2  
ohne Nabe

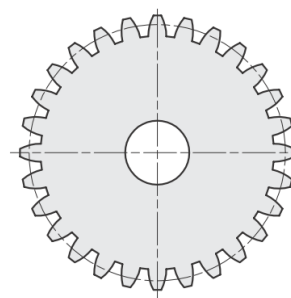


Abb. 3

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 536-015-0012  | 12  | 21,0  | 18,0  | 14 | 8  | Abb. 1 |
| 536-015-0013  | 13  | 22,5  | 19,5  | 15 | 8  | Abb. 1 |
| 536-015-0014  | 14  | 24,0  | 21,0  | 17 | 8  | Abb. 1 |
| 536-015-0015  | 15  | 25,5  | 22,5  | 18 | 8  | Abb. 1 |
| 536-015-0018  | 18  | 30,0  | 27,0  | 20 | 8  | Abb. 1 |
| 536-015-0020  | 20  | 33,0  | 30,0  | 25 | 8  | Abb. 1 |
| 536-015-0024  | 24  | 39,0  | 36,0  | 25 | 10 | Abb. 1 |
| 536-015-0025  | 25  | 40,5  | 37,5  | 25 | 10 | Abb. 1 |
| 536-015-0030  | 30  | 48,0  | 45,0  | 30 | 12 | Abb. 1 |
| 536-015-0040  | 40  | 63,0  | 60,0  | 40 | 12 | Abb. 1 |
| 536-015-0050  | 50  | 78,0  | 75,0  | 50 | 14 | Abb. 1 |
| 536-015-0060  | 60  | 93,0  | 90,0  | 60 | 16 | Abb. 1 |
| 536-015-0070  | 70  | 108,0 | 105,0 | 70 | 16 | Abb. 1 |
| 534-015-0080  | 80  | 123,0 | 120,0 |    | 16 | Abb. 2 |
| 534-015-0120  | 120 | 183,0 | 180,0 |    | 16 | Abb. 2 |

## Modul: 2

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Edelstahl  
1.4305

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 35 | 20 |

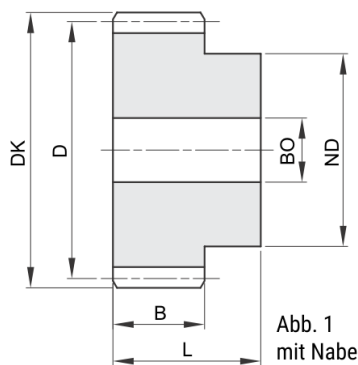


Abb. 1  
mit Nabe

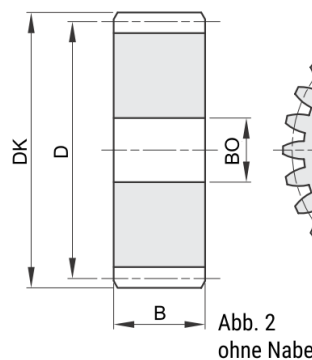


Abb. 2  
ohne Nabe

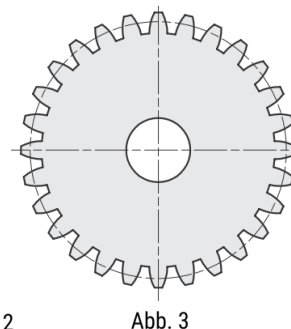


Abb. 3

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 536-020-0012  | 12 | 28,0  | 24,0  | 18 | 10 | Abb. 1 |
| 536-020-0013  | 13 | 30,0  | 26,0  | 20 | 10 | Abb. 1 |
| 536-020-0014  | 14 | 32,0  | 28,0  | 22 | 10 | Abb. 1 |
| 536-020-0015  | 15 | 34,0  | 30,0  | 24 | 10 | Abb. 1 |
| 536-020-0018  | 18 | 40,0  | 36,0  | 25 | 10 | Abb. 1 |
| 536-020-0020  | 20 | 44,0  | 40,0  | 30 | 10 | Abb. 1 |
| 536-020-0024  | 24 | 52,0  | 48,0  | 35 | 12 | Abb. 1 |
| 536-020-0025  | 25 | 54,0  | 50,0  | 35 | 12 | Abb. 1 |
| 536-020-0030  | 30 | 64,0  | 60,0  | 40 | 14 | Abb. 1 |
| 536-020-0040  | 40 | 84,0  | 80,0  | 50 | 14 | Abb. 1 |
| 536-020-0050  | 50 | 104,0 | 100,0 | 70 | 16 | Abb. 1 |
| 536-020-0060  | 60 | 124,0 | 120,0 | 70 | 16 | Abb. 1 |
| 534-020-0080  | 80 | 164,0 | 160,0 |    | 20 | Abb. 2 |

**Modul:** 2,5

Eingriffswinkel: 20°  
 Verzahnung: gerade  
 Werkstoff: Edelstahl 1.4305

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 45 | 25 |

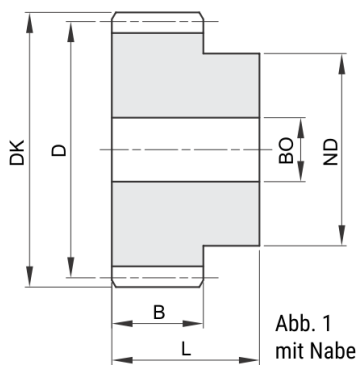


Abb. 1  
mit Nabe

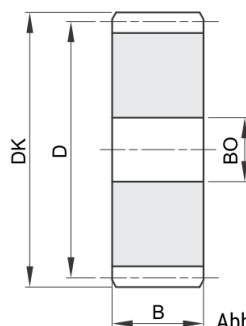


Abb. 2  
ohne Nabe

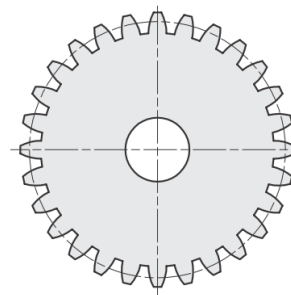


Abb. 3

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 536-025-0012  | 12 | 35,0  | 30,0  | 22  | 10 | Abb. 1 |
| 536-025-0013  | 13 | 37,5  | 32,5  | 25  | 10 | Abb. 1 |
| 536-025-0014  | 14 | 40,0  | 35,0  | 28  | 10 | Abb. 1 |
| 536-025-0015  | 15 | 42,5  | 37,5  | 30  | 10 | Abb. 1 |
| 536-025-0018  | 18 | 50,0  | 45,0  | 35  | 12 | Abb. 1 |
| 536-025-0020  | 20 | 55,0  | 50,0  | 40  | 12 | Abb. 1 |
| 536-025-0024  | 24 | 65,0  | 60,0  | 45  | 14 | Abb. 1 |
| 536-025-0025  | 25 | 67,5  | 62,5  | 50  | 14 | Abb. 1 |
| 536-025-0030  | 30 | 80,0  | 75,0  | 55  | 14 | Abb. 1 |
| 536-025-0040  | 40 | 105,0 | 100,0 | 70  | 16 | Abb. 1 |
| 536-025-0050  | 50 | 130,0 | 125,0 | 80  | 20 | Abb. 1 |
| 536-025-0060  | 60 | 155,0 | 150,0 | 100 | 20 | Abb. 1 |

## Modul:

**3**

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
Edelstahl  
1.4305

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 50 | 30 |

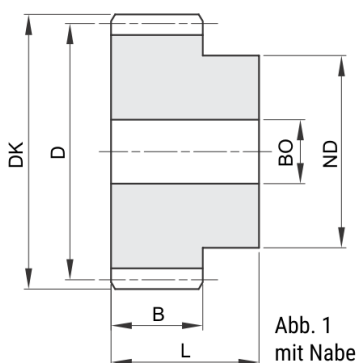


Abb. 1  
mit Nabe

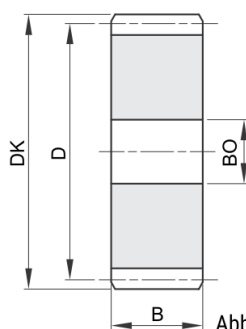


Abb. 2  
ohne Nabe

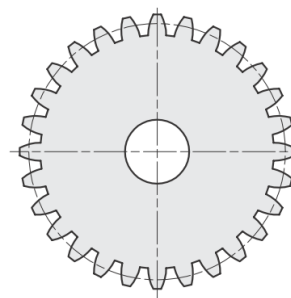


Abb. 3

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 536-030-0012  | 12 | 42,0  | 36,0  | 27 | 12 | Abb. 1 |
| 536-030-0013  | 13 | 45,0  | 39,0  | 30 | 12 | Abb. 1 |
| 536-030-0014  | 14 | 48,0  | 42,0  | 33 | 12 | Abb. 1 |
| 536-030-0015  | 15 | 51,0  | 45,0  | 35 | 12 | Abb. 1 |
| 536-030-0018  | 18 | 60,0  | 54,0  | 45 | 14 | Abb. 1 |
| 536-030-0020  | 20 | 66,0  | 60,0  | 45 | 14 | Abb. 1 |
| 536-030-0024  | 24 | 78,0  | 72,0  | 50 | 16 | Abb. 1 |
| 536-030-0025  | 25 | 81,0  | 75,0  | 60 | 16 | Abb. 1 |
| 536-030-0030  | 30 | 96,0  | 90,0  | 60 | 16 | Abb. 1 |
| 536-030-0040  | 40 | 126,0 | 120,0 | 80 | 20 | Abb. 1 |
| 534-030-0050  | 50 | 156,0 | 150,0 |    | 20 | Abb. 2 |
| 534-030-0060  | 60 | 186,0 | 180,0 |    | 20 | Abb. 2 |

### Modul:

4

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Edelstahl  
1.4305

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

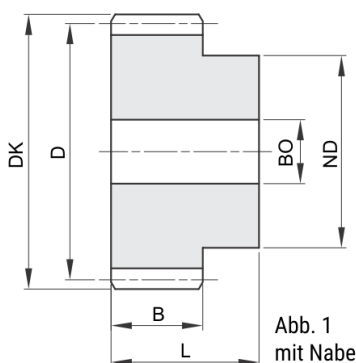


Abb. 1  
mit Nabe

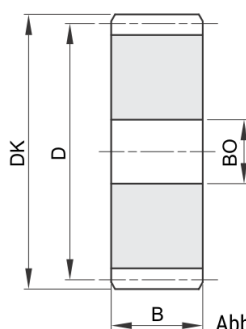


Abb. 2  
ohne Nabe

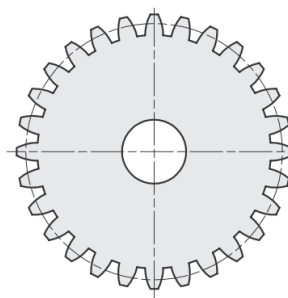


Abb. 3

| L  | B  |
|----|----|
| 60 | 40 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 536-040-0012  | 12 | 56,0  | 48,0  | 35 | 14 | Abb. 1 |
| 536-040-0013  | 13 | 60,0  | 52,0  | 40 | 14 | Abb. 1 |
| 536-040-0014  | 14 | 64,0  | 56,0  | 45 | 14 | Abb. 1 |
| 536-040-0015  | 15 | 68,0  | 60,0  | 45 | 14 | Abb. 1 |
| 536-040-0018  | 18 | 80,0  | 72,0  | 50 | 16 | Abb. 1 |
| 536-040-0020  | 20 | 88,0  | 80,0  | 60 | 16 | Abb. 1 |
| 536-040-0024  | 24 | 104,0 | 96,0  | 75 | 20 | Abb. 1 |
| 536-040-0025  | 25 | 108,0 | 100,0 | 75 | 20 | Abb. 1 |
| 536-040-0030  | 30 | 128,0 | 120,0 | 75 | 20 | Abb. 1 |

## Modul:

**2**

Eingriffswinkel:

Verzahnung:

Werkstoff:

Zähne:

20°

gerade

Stahl C45

gehärtet

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

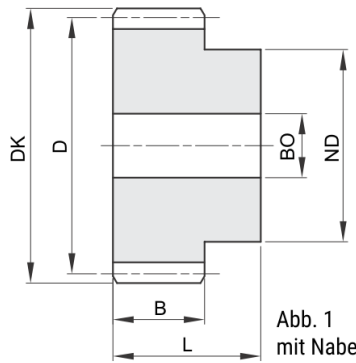


Abb. 1  
mit Nabe

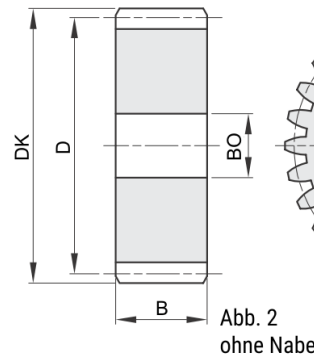


Abb. 2  
ohne Nabe

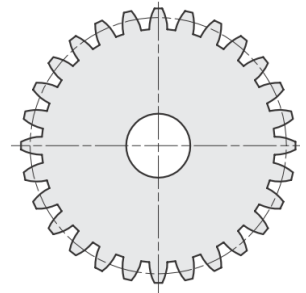


Abb. 3

| L  | B  |
|----|----|
| 35 | 20 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-020-0412  | 12 | 28,0  | 24,0  | 18 | 10 | Abb. 1 |
| 516-020-0415  | 15 | 34,0  | 30,0  | 24 | 10 | Abb. 1 |
| 516-020-0418  | 18 | 40,0  | 36,0  | 25 | 10 | Abb. 1 |
| 516-020-0420  | 20 | 44,0  | 40,0  | 30 | 10 | Abb. 1 |
| 516-020-0424  | 24 | 52,0  | 48,0  | 35 | 12 | Abb. 1 |
| 516-020-0425  | 25 | 54,0  | 50,0  | 35 | 12 | Abb. 1 |
| 516-020-0430  | 30 | 64,0  | 60,0  | 40 | 14 | Abb. 1 |
| 516-020-0436  | 36 | 76,0  | 72,0  | 45 | 14 | Abb. 1 |
| 516-020-0440  | 40 | 84,0  | 80,0  | 50 | 14 | Abb. 1 |
| 516-020-0450  | 50 | 104,0 | 100,0 | 70 | 16 | Abb. 1 |
| 516-020-0460  | 60 | 124,0 | 120,0 | 70 | 16 | Abb. 1 |

### Modul:

**2,5**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Zähne:

gehärtet

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ finden Sie im Anhang des Hauptkatalogs.

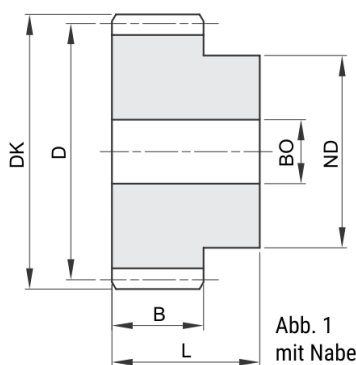


Abb. 1  
mit Nabe

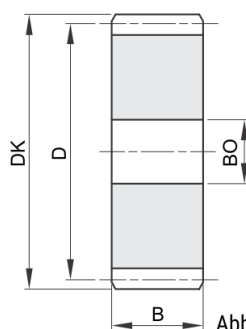


Abb. 2  
ohne Nabe

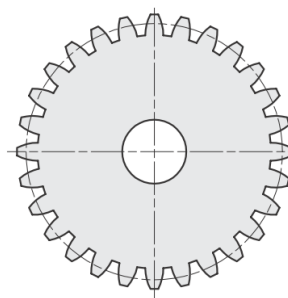


Abb. 3

| L  | B  |
|----|----|
| 45 | 25 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-025-0412  | 12 | 35,0  | 30,0  | 22  | 10 | Abb. 1 |
| 516-025-0415  | 15 | 42,5  | 37,5  | 30  | 10 | Abb. 1 |
| 516-025-0418  | 18 | 50,0  | 45,0  | 35  | 12 | Abb. 1 |
| 516-025-0420  | 20 | 55,0  | 50,0  | 40  | 12 | Abb. 1 |
| 516-025-0424  | 24 | 65,0  | 60,0  | 45  | 14 | Abb. 1 |
| 516-025-0425  | 25 | 67,5  | 62,5  | 50  | 14 | Abb. 1 |
| 516-025-0430  | 30 | 80,0  | 75,0  | 55  | 14 | Abb. 1 |
| 516-025-0436  | 36 | 95,0  | 90,0  | 60  | 16 | Abb. 1 |
| 516-025-0440  | 40 | 105,0 | 100,0 | 70  | 16 | Abb. 1 |
| 516-025-0450  | 50 | 130,0 | 125,0 | 80  | 20 | Abb. 1 |
| 516-025-0460  | 60 | 155,0 | 150,0 | 100 | 20 | Abb. 1 |

## Modul:

**3**

Eingriffswinkel:

Verzahnung:

Werkstoff:

Zähne:

20°  
gerade  
Stahl C45  
gehärtet

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

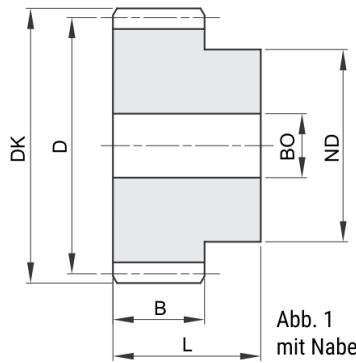


Abb. 1  
mit Nabe

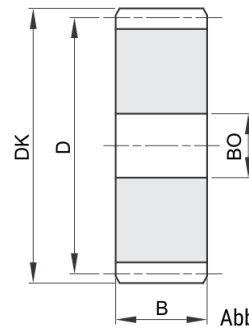


Abb. 2  
ohne Nabe

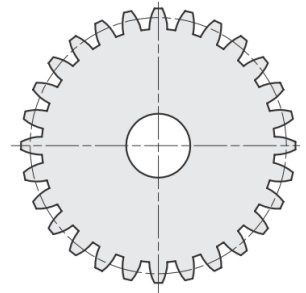


Abb. 3

| L  | B  |
|----|----|
| 50 | 30 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-030-0412  | 12 | 42,0  | 36,0  | 27 | 12 | Abb. 1 |
| 516-030-0415  | 15 | 51,0  | 45,0  | 35 | 12 | Abb. 1 |
| 516-030-0418  | 18 | 60,0  | 54,0  | 45 | 14 | Abb. 1 |
| 516-030-0420  | 20 | 66,0  | 60,0  | 45 | 14 | Abb. 1 |
| 516-030-0424  | 24 | 78,0  | 72,0  | 50 | 16 | Abb. 1 |
| 516-030-0425  | 25 | 81,0  | 75,0  | 60 | 16 | Abb. 1 |
| 516-030-0430  | 30 | 96,0  | 90,0  | 60 | 16 | Abb. 1 |
| 516-030-0436  | 36 | 114,0 | 108,0 | 70 | 20 | Abb. 1 |
| 516-030-0440  | 40 | 126,0 | 120,0 | 80 | 20 | Abb. 1 |

### Modul: 4

Eingriffswinkel:

Verzahnung:

Werkstoff:

Zähne:

20°  
gerade  
Stahl C45  
gehärtet

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 60 | 40 |

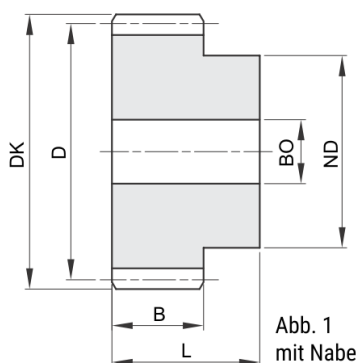


Abb. 1  
mit Nabe

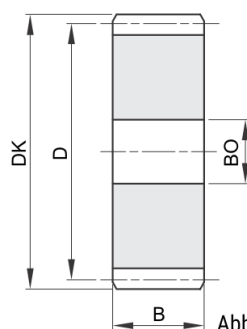


Abb. 2  
ohne Nabe

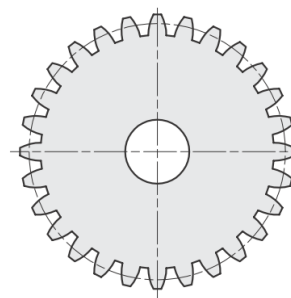


Abb. 3

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 516-040-0412  | 12 | 56,0  | 48,0  | 35 | 14 | Abb. 1 |
| 516-040-0415  | 15 | 68,0  | 60,0  | 45 | 14 | Abb. 1 |
| 516-040-0418  | 18 | 80,0  | 72,0  | 50 | 16 | Abb. 1 |
| 516-040-0420  | 20 | 88,0  | 80,0  | 60 | 16 | Abb. 1 |
| 516-040-0424  | 24 | 104,0 | 96,0  | 75 | 20 | Abb. 1 |
| 516-040-0425  | 25 | 108,0 | 100,0 | 75 | 20 | Abb. 1 |
| 516-040-0430  | 30 | 128,0 | 120,0 | 75 | 20 | Abb. 1 |
| 516-040-0436  | 36 | 152,0 | 144,0 | 80 | 25 | Abb. 1 |

## Modul:

**5**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

Stahl C45

Zähne:

gehärtet

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

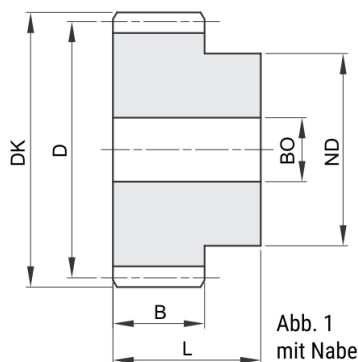


Abb. 1  
mit Nabe

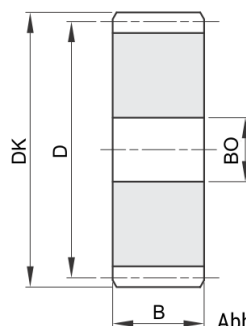


Abb. 2  
ohne Nabe

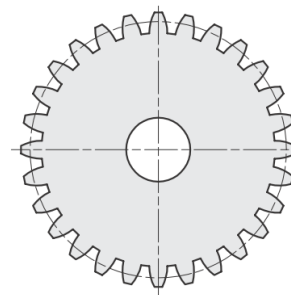


Abb. 3

| L  | B  |
|----|----|
| 75 | 50 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-050-0412  | 12 | 70,0  | 60,0  | 45  | 20 | Abb. 1 |
| 516-050-0415  | 15 | 85,0  | 75,0  | 60  | 20 | Abb. 1 |
| 516-050-0418  | 18 | 100,0 | 90,0  | 70  | 20 | Abb. 1 |
| 516-050-0420  | 20 | 110,0 | 100,0 | 80  | 20 | Abb. 1 |
| 516-050-0424  | 24 | 130,0 | 120,0 | 90  | 20 | Abb. 1 |
| 516-050-0425  | 25 | 135,0 | 125,0 | 90  | 20 | Abb. 1 |
| 516-050-0430  | 30 | 160,0 | 150,0 | 110 | 25 | Abb. 1 |

### Modul:

6

Eingriffswinkel:

Verzahnung:

Werkstoff:

Zähne:

20°  
gerade  
Stahl C45  
gehärtet

Berechnungstabellen für  
„Zahnstangen- und Ritzelpaarungen“ finden Sie im  
Anhang des Hauptkatalogs.

| L  | B  |
|----|----|
| 80 | 60 |

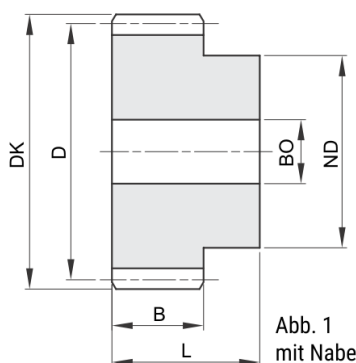


Abb. 1  
mit Nabe

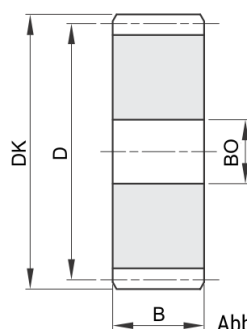


Abb. 2  
ohne Nabe

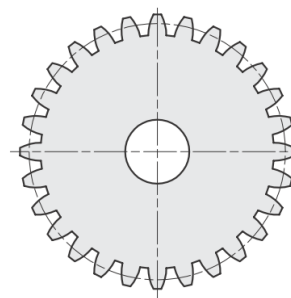


Abb. 3

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 516-060-0412  | 12 | 84,0  | 72,0  | 54  | 20 | Abb. 1 |
| 516-060-0415  | 15 | 102,0 | 90,0  | 70  | 20 | Abb. 1 |
| 516-060-0416  | 16 | 108,0 | 95,0  | 75  | 20 | Abb. 1 |
| 516-060-0418  | 18 | 120,0 | 108,0 | 80  | 20 | Abb. 1 |
| 516-060-0420  | 20 | 132,0 | 120,0 | 90  | 20 | Abb. 1 |
| 516-060-0424  | 24 | 156,0 | 144,0 | 110 | 25 | Abb. 1 |
| 516-060-0425  | 25 | 162,0 | 150,0 | 110 | 25 | Abb. 1 |

## Modul:

**1**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

POM weiß

Berechnungstabellen für „Zahnstangen- und Ritzel-  
paarungen“ sowie ein Produktdatenblatt über POM  
finden Sie im Anhang des Hauptkatalogs.

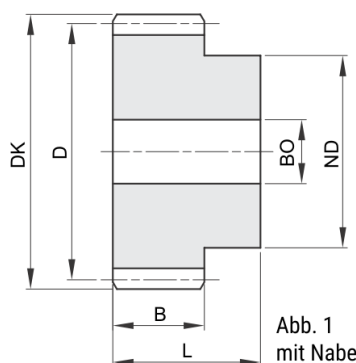


Abb. 1  
mit Nabe

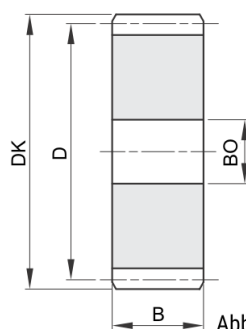


Abb. 2  
ohne Nabe

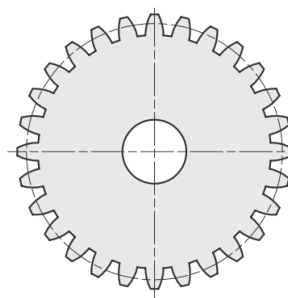


Abb. 3

| L  | B  |
|----|----|
| 25 | 15 |

| Bestellnummer | ZZ  | DK  | D   | ND | BO | Abb.   |
|---------------|-----|-----|-----|----|----|--------|
| 526-010-0012  | 12  | 14  | 12  | 9  | -  | Abb. 1 |
| 526-010-0013  | 13  | 15  | 13  | 10 | -  | Abb. 1 |
| 526-010-0014  | 14  | 16  | 14  | 11 | -  | Abb. 1 |
| 526-010-0015  | 15  | 17  | 15  | 12 | -  | Abb. 1 |
| 526-010-0018  | 18  | 20  | 18  | 15 | 8  | Abb. 1 |
| 526-010-0020  | 20  | 22  | 20  | 16 | 8  | Abb. 1 |
| 526-010-0024  | 24  | 26  | 24  | 20 | 10 | Abb. 1 |
| 526-010-0025  | 25  | 27  | 25  | 20 | 10 | Abb. 1 |
| 526-010-0030  | 30  | 32  | 30  | 20 | 10 | Abb. 1 |
| 526-010-0035  | 35  | 37  | 35  | 25 | 10 | Abb. 1 |
| 526-010-0040  | 40  | 42  | 40  | 25 | 10 | Abb. 1 |
| 526-010-0050  | 50  | 52  | 50  | 30 | 12 | Abb. 1 |
| 526-010-0060  | 60  | 62  | 60  | 40 | 12 | Abb. 1 |
| 526-010-0070  | 70  | 72  | 70  | 50 | 12 | Abb. 1 |
| 524-010-0080  | 80  | 82  | 80  |    | 12 | Abb. 2 |
| 524-010-0090  | 90  | 92  | 90  |    | 12 | Abb. 2 |
| 524-010-0100  | 100 | 102 | 100 |    | 12 | Abb. 2 |
| 524-010-0110  | 110 | 112 | 110 |    | 12 | Abb. 2 |
| 524-010-0120  | 120 | 122 | 120 |    | 12 | Abb. 2 |

**Modul:** 1,5

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

POM weiß

Berechnungstabellen für „Zahnstangen- und Ritzel-paarungen“ sowie ein Produktdatenblatt über POM finden Sie im Anhang des Hauptkatalogs.

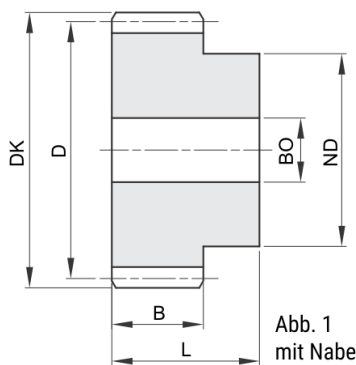


Abb. 1  
mit Nabe

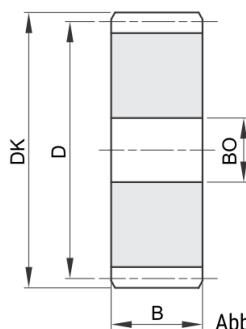


Abb. 2  
ohne Nabe

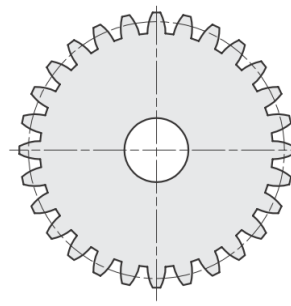


Abb. 3

| L  | B  |
|----|----|
| 30 | 17 |

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 526-015-0012  | 12  | 21,0  | 18,0  | 14 | 8  | Abb. 1 |
| 526-015-0013  | 13  | 22,5  | 19,5  | 15 | 8  | Abb. 1 |
| 526-015-0014  | 14  | 24,0  | 21,0  | 17 | 8  | Abb. 1 |
| 526-015-0015  | 15  | 25,5  | 22,5  | 18 | 8  | Abb. 1 |
| 526-015-0018  | 18  | 30,0  | 27,0  | 20 | 8  | Abb. 1 |
| 526-015-0020  | 20  | 33,0  | 30,0  | 25 | 8  | Abb. 1 |
| 526-015-0024  | 24  | 39,0  | 36,0  | 25 | 10 | Abb. 1 |
| 526-015-0025  | 25  | 40,5  | 37,5  | 25 | 10 | Abb. 1 |
| 526-015-0030  | 30  | 48,0  | 45,0  | 30 | 12 | Abb. 1 |
| 526-015-0040  | 40  | 63,0  | 60,0  | 40 | 12 | Abb. 1 |
| 526-015-0050  | 50  | 78,0  | 75,0  | 50 | 14 | Abb. 1 |
| 526-015-0060  | 60  | 93,0  | 90,0  | 60 | 16 | Abb. 1 |
| 526-015-0070  | 70  | 108,0 | 105,0 | 70 | 16 | Abb. 1 |
| 524-015-0080  | 80  | 123,0 | 120,0 |    | 16 | Abb. 2 |
| 524-015-0090  | 90  | 138,0 | 135,0 |    | 16 | Abb. 2 |
| 524-015-0100  | 100 | 153,0 | 150,0 |    | 16 | Abb. 2 |
| 524-015-0110  | 110 | 168,0 | 165,0 |    | 16 | Abb. 2 |
| 524-015-0120  | 120 | 183,0 | 180,0 |    | 16 | Abb. 2 |

**Modul:** 2

Eingriffswinkel:  
Verzahnung:  
Werkstoff:

20°  
gerade  
POM weiß

Berechnungstabellen für „Zahnstangen- und Ritzel-  
paarungen“ sowie ein Produktdatenblatt über POM  
finden Sie im Anhang des Hauptkatalogs.

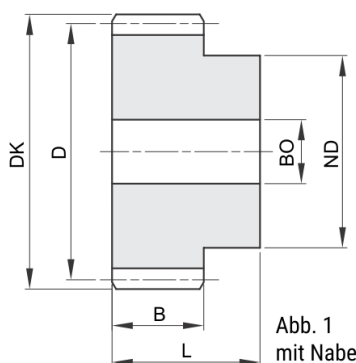


Abb. 1  
mit Nabe

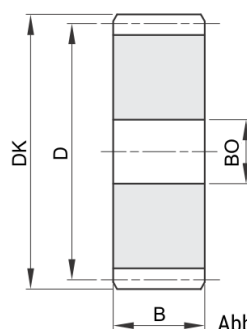


Abb. 2  
ohne Nabe

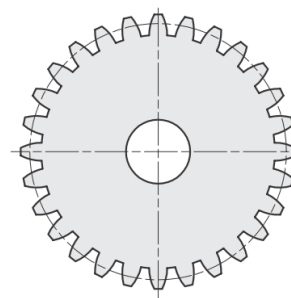


Abb. 3

| L  | B  |
|----|----|
| 35 | 20 |

| Bestellnummer | ZZ  | DK    | D     | ND | BO | Abb.   |
|---------------|-----|-------|-------|----|----|--------|
| 526-020-0012  | 12  | 28,0  | 24,0  | 18 | 10 | Abb. 1 |
| 526-020-0013  | 13  | 30,0  | 26,0  | 20 | 10 | Abb. 1 |
| 526-020-0014  | 14  | 32,0  | 28,0  | 22 | 10 | Abb. 1 |
| 526-020-0015  | 15  | 34,0  | 30,0  | 24 | 10 | Abb. 1 |
| 526-020-0018  | 18  | 40,0  | 36,0  | 25 | 10 | Abb. 1 |
| 526-020-0020  | 20  | 44,0  | 40,0  | 30 | 10 | Abb. 1 |
| 526-020-0024  | 24  | 52,0  | 48,0  | 35 | 12 | Abb. 1 |
| 526-020-0025  | 25  | 54,0  | 50,0  | 35 | 12 | Abb. 1 |
| 526-020-0030  | 30  | 64,0  | 60,0  | 40 | 14 | Abb. 1 |
| 526-020-0040  | 40  | 84,0  | 80,0  | 50 | 14 | Abb. 1 |
| 526-020-0050  | 50  | 104,0 | 100,0 | 70 | 16 | Abb. 1 |
| 526-020-0060  | 60  | 124,0 | 120,0 | 70 | 16 | Abb. 1 |
| 524-020-0080  | 80  | 164,0 | 160,0 |    | 20 | Abb. 2 |
| 524-020-0090  | 90  | 184,0 | 180,0 |    | 20 | Abb. 2 |
| 524-020-0100  | 100 | 204,0 | 200,0 |    | 20 | Abb. 2 |
| 524-020-0110  | 110 | 224,0 | 220,0 |    | 20 | Abb. 2 |
| 524-020-0120  | 120 | 244,0 | 240,0 |    | 20 | Abb. 2 |

**Modul:** 2,5

Eingriffswinkel: 20°  
 Verzahnung: gerade  
 Werkstoff: POM weiß

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ sowie ein Produktdatenblatt über POM finden Sie im Anhang des Hauptkatalogs.

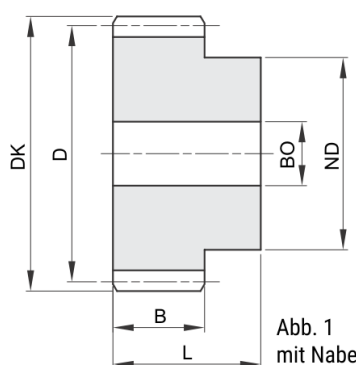


Abb. 1  
mit Nabe

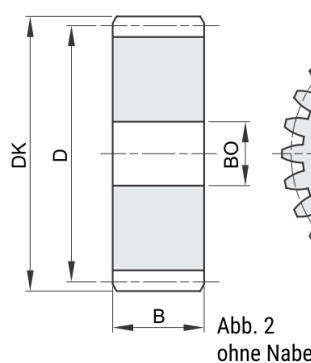


Abb. 2  
ohne Nabe

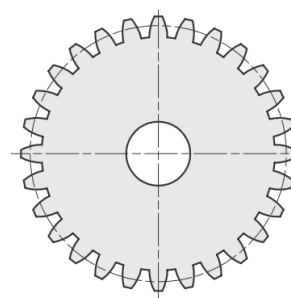


Abb. 3

| L  | B  |
|----|----|
| 45 | 25 |

| Bestellnummer | ZZ | DK    | D     | ND  | BO | Abb.   |
|---------------|----|-------|-------|-----|----|--------|
| 526-025-0012  | 12 | 35,0  | 30,0  | 22  | 10 | Abb. 1 |
| 526-025-0013  | 13 | 37,5  | 32,5  | 25  | 10 | Abb. 1 |
| 526-025-0014  | 14 | 40,0  | 35,0  | 28  | 10 | Abb. 1 |
| 526-025-0015  | 15 | 42,5  | 37,5  | 30  | 10 | Abb. 1 |
| 526-025-0018  | 18 | 50,0  | 45,0  | 35  | 12 | Abb. 1 |
| 526-025-0020  | 20 | 55,0  | 50,0  | 40  | 12 | Abb. 1 |
| 526-025-0024  | 24 | 65,0  | 60,0  | 45  | 14 | Abb. 1 |
| 526-025-0025  | 25 | 67,5  | 62,5  | 50  | 14 | Abb. 1 |
| 526-025-0030  | 30 | 80,0  | 75,0  | 55  | 14 | Abb. 1 |
| 526-025-0040  | 40 | 105,0 | 100,0 | 70  | 16 | Abb. 1 |
| 526-025-0050  | 50 | 130,0 | 125,0 | 80  | 20 | Abb. 1 |
| 526-025-0060  | 60 | 155,0 | 150,0 | 100 | 20 | Abb. 1 |

## Modul:

**3**

Eingriffswinkel:

20°

Verzahnung:

gerade

Werkstoff:

POM weiß

Berechnungstabellen für „Zahnstangen- und Ritzelpaarungen“ sowie ein Produktdatenblatt über POM finden Sie im Anhang des Hauptkatalogs.

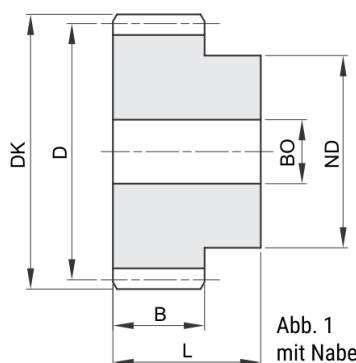


Abb. 1  
mit Nabe

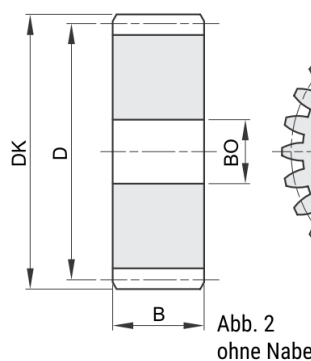


Abb. 2  
ohne Nabe

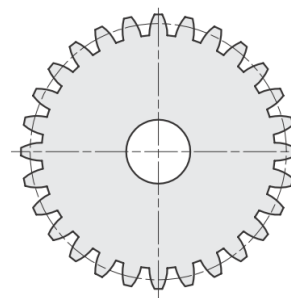


Abb. 3

| L  | B  |
|----|----|
| 50 | 30 |

| Bestellnummer | ZZ | DK    | D     | ND | BO | Abb.   |
|---------------|----|-------|-------|----|----|--------|
| 526-030-0012  | 12 | 42,0  | 36,0  | 27 | 12 | Abb. 1 |
| 526-030-0015  | 15 | 51,0  | 45,0  | 35 | 12 | Abb. 1 |
| 526-030-0018  | 18 | 60,0  | 54,0  | 45 | 14 | Abb. 1 |
| 526-030-0020  | 20 | 66,0  | 60,0  | 45 | 14 | Abb. 1 |
| 526-030-0024  | 24 | 78,0  | 72,0  | 50 | 16 | Abb. 1 |
| 526-030-0025  | 25 | 81,0  | 75,0  | 60 | 16 | Abb. 1 |
| 526-030-0030  | 30 | 96,0  | 90,0  | 60 | 16 | Abb. 1 |
| 526-030-0040  | 40 | 126,0 | 120,0 | 80 | 20 | Abb. 1 |
| 524-030-0050  | 50 | 156,0 | 150,0 |    | 20 | Abb. 2 |
| 524-030-0060  | 60 | 186,0 | 180,0 |    | 20 | Abb. 2 |