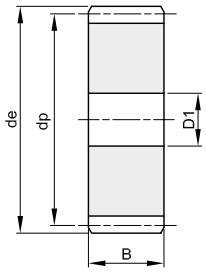
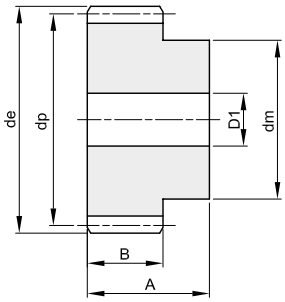
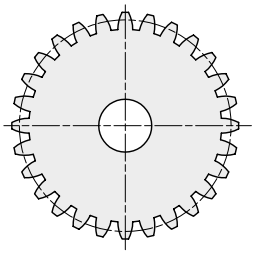
## MODUL 1

Eingriffswinkel 20°

| A | B |
|---|---|
| 25 | 15 |



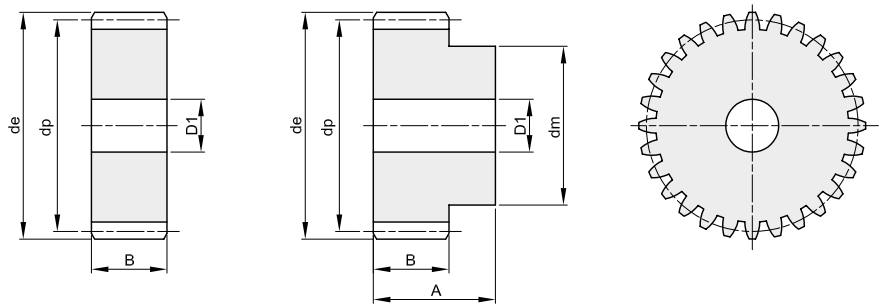
**Werkstoff: Stahl C45 // ab Zähnezahl 72 ohne Nabe**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401010012 | 14 | 12 | 9 | – | 0,01 |
| **13** | 401010013 | 15 | 13 | 10 | – | 0,02 |
| **14** | 401010014 | 16 | 14 | 11 | – | 0,02 |
| **15** | 401010015 | 17 | 15 | 12 | – | 0,02 |
| **16** | 401010016 | 18 | 16 | 13 | – | 0,03 |
| **17** | 401010017 | 19 | 17 | 14 | – | 0,03 |
| **18** | 401010018 | 20 | 18 | 15 | 8 | 0,03 |
| **19** | 401010019 | 21 | 19 | 15 | 8 | 0,04 |
| **20** | 401010020 | 22 | 20 | 16 | 8 | 0,04 |
| **21** | 401010021 | 23 | 21 | 16 | 8 | 0,05 |
| **22** | 401010022 | 24 | 22 | 16 | 8 | 0,05 |
| **23** | 401010023 | 25 | 23 | 18 | 8 | 0,06 |
| **24** | 401010024 | 26 | 24 | 20 | 10 | 0,06 |
| **25** | 401010025 | 27 | 25 | 20 | 10 | 0,07 |
| **26** | 401010026 | 28 | 26 | 20 | 10 | 0,07 |
| **27** | 401010027 | 29 | 27 | 20 | 10 | 0,08 |
| **28** | 401010028 | 30 | 28 | 20 | 10 | 0,08 |
| **29** | 401010029 | 31 | 29 | 20 | 10 | 0,09 |
| **30** | 401010030 | 32 | 30 | 20 | 10 | 0,09 |
| **31** | 401010031 | 33 | 31 | 25 | 10 | 0,11 |
| **32** | 401010032 | 34 | 32 | 25 | 10 | 0,12 |
| **33** | 401010033 | 35 | 33 | 25 | 10 | 0,12 |
| **34** | 401010034 | 36 | 34 | 25 | 10 | 0,13 |
| **35** | 401010035 | 37 | 35 | 25 | 10 | 0,14 |
| **36** | 401010036 | 38 | 36 | 25 | 10 | 0,14 |
| **37** | 401010037 | 39 | 37 | 25 | 10 | 0,15 |
| **38** | 401010038 | 40 | 38 | 25 | 10 | 0,16 |
| **39** | 401010039 | 41 | 39 | 25 | 10 | 0,16 |
| **40** | 401010040 | 42 | 40 | 25 | 10 | 0,17 |
| **41** | 401010041 | 43 | 41 | 30 | 10 | 0,19 |
| **42** | 401010042 | 44 | 42 | 30 | 10 | 0,20 |
| **43** | 401010043 | 45 | 43 | 30 | 10 | 0,21 |
| **44** | 401010044 | 46 | 44 | 30 | 10 | 0,22 |
| **45** | 401010045 | 47 | 45 | 30 | 10 | 0,23 |
| **46** | 401010046 | 48 | 46 | 30 | 10 | 0,23 |
| **47** | 401010047 | 49 | 47 | 30 | 10 | 0,24 |
| **48** | 401010048 | 50 | 48 | 30 | 10 | 0,25 |
| **49** | 401010049 | 51 | 49 | 30 | 10 | 0,26 |
| **50** | 401010050 | 52 | 50 | 30 | 12 | 0,26 |
| **51** | 401010051 | 53 | 51 | 40 | 12 | 0,32 |
| **52** | 401010052 | 54 | 52 | 40 | 12 | 0,33 |
| **53** | 401010053 | 55 | 53 | 40 | 12 | 0,33 |
| **54** | 401010054 | 56 | 54 | 40 | 12 | 0,34 |
| **55** | 401010055 | 57 | 55 | 40 | 12 | 0,36 |
| **56** | 401010056 | 58 | 56 | 40 | 12 | 0,37 |
| **57** | 401010057 | 59 | 57 | 40 | 12 | 0,38 |
| **58** | 401010058 | 60 | 58 | 40 | 12 | 0,39 |
| **59** | 401010059 | 61 | 59 | 40 | 12 | 0,40 |
| **60** | 401010060 | 62 | 60 | 40 | 12 | 0,41 |
| **61** | 401010061 | 63 | 61 | 50 | 12 | 0,47 |
| **62** | 401010062 | 64 | 62 | 50 | 12 | 0,49 |
| **63** | 401010063 | 65 | 63 | 50 | 12 | 0,50 |
| **64** | 401010064 | 66 | 64 | 50 | 12 | 0,51 |
| **65** | 401010065 | 67 | 65 | 50 | 12 | 0,52 |
| **66** | 401010066 | 68 | 66 | 50 | 12 | 0,53 |
| **67** | 401010067 | 69 | 67 | 50 | 12 | 0,55 |
| **68** | 401010068 | 70 | 68 | 50 | 12 | 0,56 |
| **69** | 401010069 | 71 | 69 | 50 | 12 | 0,57 |
| **70** | 401010070 | 72 | 70 | 50 | 12 | 0,58 |
| **72** | 411010072 | 74 | 72 | | 12 | 0,46 |
| **75** | 411010075 | 77 | 75 | | 12 | 0,51 |
| **76** | 411010076 | 78 | 76 | | 12 | 0,52 |
| **80** | 411010080 | 82 | 80 | | 12 | 0,58 |
| **85** | 411010085 | 87 | 85 | | 12 | 0,65 |
| **90** | 411010090 | 92 | 90 | | 12 | 0,73 |
| **95** | 411010095 | 97 | 95 | | 12 | 0,82 |
| **100** | 411010100 | 102 | 100 | | 12 | 0,91 |
| **110** | 411010110 | 112 | 110 | | 12 | 1,10 |
| **114** | 411010114 | 116 | 114 | | 12 | 1,19 |
| **120** | 411010120 | 122 | 120 | | 12 | 1,32 |
| **127** | 411010127 | 129 | 127 | | 12 | 1,47 |

## MODUL 1,5

Eingriffswinkel 20°

| A | B |
|---|---|
| 30 | 17 |




**Werkstoff: Stahl C45 // ab Zähnezahl 72 ohne Nabe**

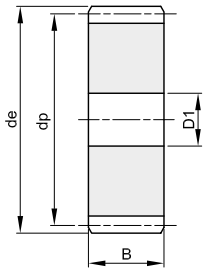
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401015012 | 21,0 | 18,0 | 14 | 8 | 0,04 |
| **13** | 401015013 | 22,5 | 19,5 | 15 | 8 | 0,05 |
| **14** | 401015014 | 24,0 | 21,0 | 17 | 8 | 0,06 |
| **15** | 401015015 | 25,5 | 22,5 | 18 | 8 | 0,07 |
| **16** | 401015016 | 27,0 | 24,0 | 19 | 8 | 0,08 |
| **17** | 401015017 | 28,5 | 25,5 | 20 | 8 | 0,09 |
| **18** | 401015018 | 30,0 | 27,0 | 20 | 8 | 0,10 |
| **19** | 401015019 | 31,5 | 28,5 | 20 | 8 | 0,10 |
| **20** | 401015020 | 33,0 | 30,0 | 25 | 8 | 0,13 |
| **21** | 401015021 | 34,5 | 31,5 | 25 | 10 | 0,13 |
| **22** | 401015022 | 36,0 | 33,0 | 25 | 10 | 0,14 |
| **23** | 401015023 | 37,5 | 34,5 | 25 | 10 | 0,16 |
| **24** | 401015024 | 39,0 | 36,0 | 25 | 10 | 0,17 |
| **25** | 401015025 | 40,5 | 37,5 | 25 | 10 | 0,18 |
| **26** | 401015026 | 42,0 | 39,0 | 30 | 12 | 0,20 |
| **27** | 401015027 | 43,5 | 40,5 | 30 | 12 | 0,22 |
| **28** | 401015028 | 45,0 | 42,0 | 30 | 12 | 0,23 |
| **29** | 401015029 | 46,5 | 43,5 | 30 | 12 | 0,24 |
| **30** | 401015030 | 48,0 | 45,0 | 30 | 12 | 0,26 |
| **31** | 401015031 | 49,5 | 46,5 | 35 | 12 | 0,30 |
| **32** | 401015032 | 51,0 | 48,0 | 35 | 12 | 0,31 |
| **33** | 401015033 | 52,5 | 49,5 | 35 | 12 | 0,33 |
| **34** | 401015034 | 54,0 | 51,0 | 35 | 12 | 0,34 |
| **35** | 401015035 | 55,5 | 52,5 | 35 | 12 | 0,36 |
| **36** | 401015036 | 57,0 | 54,0 | 35 | 12 | 0,37 |
| **37** | 401015037 | 58,5 | 55,5 | 40 | 12 | 0,42 |
| **38** | 401015038 | 60,0 | 57,0 | 40 | 12 | 0,44 |
| **39** | 401015039 | 61,5 | 58,5 | 40 | 12 | 0,46 |
| **40** | 401015040 | 63,0 | 60,0 | 40 | 12 | 0,48 |
| **41** | 401015041 | 64,5 | 61,5 | 40 | 12 | 0,50 |
| **42** | 401015042 | 66,0 | 63,0 | 50 | 12 | 0,59 |
| **43** | 401015043 | 67,5 | 64,5 | 50 | 12 | 0,61 |
| **44** | 401015044 | 69,0 | 66,0 | 50 | 12 | 0,63 |
| **45** | 401015045 | 70,5 | 67,5 | 50 | 12 | 0,65 |
| **46** | 401015046 | 72,0 | 69,0 | 50 | 14 | 0,66 |
| **47** | 401015047 | 73,5 | 70,5 | 50 | 14 | 0,70 |
| **48** | 401015048 | 75,0 | 72,0 | 50 | 14 | 0,70 |
| **49** | 401015049 | 76,5 | 73,5 | 50 | 14 | 0,73 |
| **50** | 401015050 | 78,0 | 75,0 | 50 | 14 | 0,76 |
| **51** | 401015051 | 79,5 | 76,5 | 60 | 14 | 0,86 |
| **52** | 401015052 | 81,0 | 78,0 | 60 | 14 | 0,89 |
| **53** | 401015053 | 82,5 | 79,5 | 60 | 14 | 0,91 |

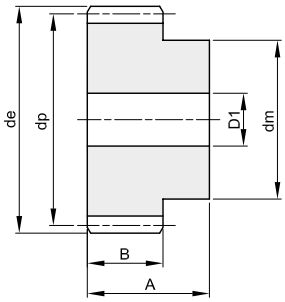
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **54** | 401015054 | 84,0 | 81,0 | 60 | 14 | 0,94 |
| **55** | 401015055 | 85,5 | 82,5 | 60 | 14 | 0,96 |
| **56** | 401015056 | 87,0 | 84,0 | 60 | 16 | 0,98 |
| **57** | 401015057 | 88,5 | 85,5 | 60 | 16 | 1,00 |
| **58** | 401015058 | 90,0 | 87,0 | 60 | 16 | 1,03 |
| **59** | 401015059 | 91,5 | 88,5 | 60 | 16 | 1,05 |
| **60** | 401015060 | 93,0 | 90,0 | 60 | 16 | 1,09 |
| **61** | 401015061 | 94,5 | 91,5 | 70 | 16 | 1,22 |
| **62** | 401015062 | 96,0 | 93,0 | 70 | 16 | 1,25 |
| **63** | 401015063 | 97,5 | 94,5 | 70 | 16 | 1,28 |
| **64** | 401015064 | 99,0 | 96,0 | 70 | 16 | 1,31 |
| **65** | 401015065 | 100,5 | 97,5 | 70 | 16 | 1,34 |
| **66** | 401015066 | 102,0 | 99,0 | 70 | 16 | 1,37 |
| **67** | 401015067 | 103,5 | 100,5 | 70 | 16 | 1,40 |
| **68** | 401015068 | 105,0 | 102,0 | 70 | 16 | 1,43 |
| **69** | 401015069 | 106,5 | 103,5 | 70 | 16 | 1,46 |
| **70** | 401015070 | 108,0 | 105,0 | 70 | 16 | 1,50 |
| **72** | 411015072 | 111,0 | 108,0 | | 16 | 1,19 |
| **75** | 411015075 | 115,5 | 112,5 | | 16 | 1,30 |
| **76** | 411015076 | 117,0 | 114,0 | | 16 | 1,33 |
| **80** | 411015080 | 123,0 | 120,0 | | 16 | 1,48 |
| **85** | 411015085 | 130,5 | 127,5 | | 16 | 1,67 |
| **90** | 411015090 | 138,0 | 135,0 | | 16 | 1,88 |
| **95** | 411015095 | 145,5 | 142,5 | | 16 | 2,09 |
| **100** | 411015100 | 153,0 | 150,0 | | 16 | 2,32 |
| **110** | 411015110 | 168,0 | 165,0 | | 16 | 2,82 |
| **114** | 411015114 | 174,0 | 171,0 | | 16 | 3,03 |
| **120** | 411015120 | 183,0 | 180,0 | | 16 | 3,36 |
| **127** | 411015127 | 193,5 | 190,5 | | 16 | 3,77 |

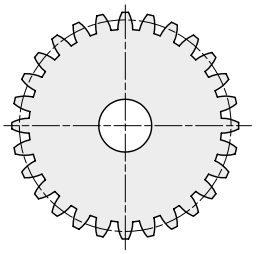
## MODUL 2

Eingriffswinkel 20°

| A | B |
|---|---|
| 35 | 20 |



**Werkstoff: Stahl C45 // ab Zähnezahl 72 ohne Nabe**

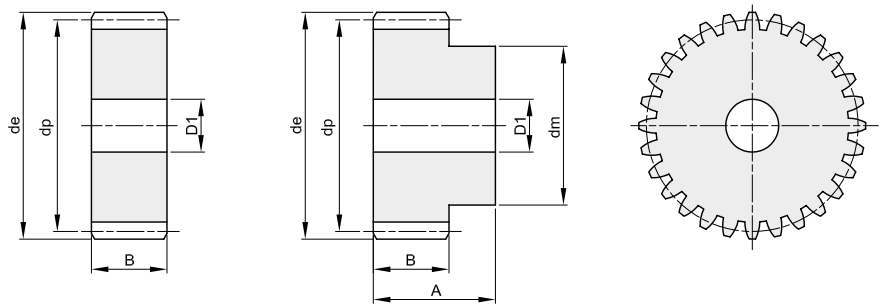
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401020012 | 28 | 24 | 18 | 10 | 0,08 |
| **13** | 401020013 | 30 | 26 | 20 | 10 | 0,10 |
| **14** | 401020014 | 32 | 28 | 22 | 10 | 0,12 |
| **15** | 401020015 | 34 | 30 | 24 | 10 | 0,14 |
| **16** | 401020016 | 36 | 32 | 25 | 10 | 0,16 |
| **17** | 401020017 | 38 | 34 | 25 | 10 | 0,18 |
| **18** | 401020018 | 40 | 36 | 25 | 10 | 0,19 |
| **19** | 401020019 | 42 | 38 | 25 | 10 | 0,21 |
| **20** | 401020020 | 44 | 40 | 30 | 10 | 0,26 |
| **21** | 401020021 | 46 | 42 | 30 | 12 | 0,27 |
| **22** | 401020022 | 48 | 44 | 30 | 12 | 0,29 |
| **23** | 401020023 | 50 | 46 | 30 | 12 | 0,31 |
| **24** | 401020024 | 52 | 48 | 35 | 12 | 0,36 |
| **25** | 401020025 | 54 | 50 | 35 | 12 | 0,39 |
| **26** | 401020026 | 56 | 52 | 40 | 12 | 0,45 |
| **27** | 401020027 | 58 | 54 | 40 | 12 | 0,47 |
| **28** | 401020028 | 60 | 56 | 40 | 12 | 0,50 |
| **29** | 401020029 | 62 | 58 | 40 | 14 | 0,52 |
| **30** | 401020030 | 64 | 60 | 40 | 14 | 0,55 |
| **31** | 401020031 | 66 | 62 | 45 | 14 | 0,61 |
| **32** | 401020032 | 68 | 64 | 45 | 14 | 0,65 |
| **33** | 401020033 | 70 | 66 | 45 | 14 | 0,68 |
| **34** | 401020034 | 72 | 68 | 45 | 14 | 0,71 |
| **35** | 401020035 | 74 | 70 | 45 | 14 | 0,74 |
| **36** | 401020036 | 76 | 72 | 45 | 14 | 0,78 |
| **37** | 401020037 | 78 | 74 | 50 | 14 | 0,86 |
| **38** | 401020038 | 80 | 76 | 50 | 14 | 0,90 |
| **39** | 401020039 | 82 | 78 | 50 | 14 | 0,93 |
| **40** | 401020040 | 84 | 80 | 50 | 14 | 0,97 |
| **41** | 401020041 | 86 | 82 | 55 | 16 | 1,05 |
| **42** | 401020042 | 88 | 84 | 55 | 16 | 1,09 |
| **43** | 401020043 | 90 | 86 | 55 | 16 | 1,13 |
| **44** | 401020044 | 92 | 88 | 60 | 16 | 1,23 |
| **45** | 401020045 | 94 | 90 | 60 | 16 | 1,27 |
| **46** | 401020046 | 96 | 92 | 60 | 16 | 1,31 |
| **47** | 401020047 | 98 | 94 | 70 | 16 | 1,48 |
| **48** | 401020048 | 100 | 96 | 70 | 16 | 1,53 |
| **49** | 401020049 | 102 | 98 | 70 | 16 | 1,57 |
| **50** | 401020050 | 104 | 100 | 70 | 16 | 1,62 |
| **51** | 401020051 | 106 | 102 | 70 | 16 | 1,67 |
| **52** | 401020052 | 108 | 104 | 70 | 16 | 1,72 |
| **53** | 401020053 | 110 | 106 | 70 | 16 | 1,78 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **54** | 401020054 | 112 | 108 | 70 | 16 | 1,83 |
| **55** | 401020055 | 114 | 110 | 70 | 16 | 1,88 |
| **56** | 401020056 | 116 | 112 | 70 | 16 | 1,94 |
| **57** | 401020057 | 118 | 114 | 70 | 16 | 1,99 |
| **58** | 401020058 | 120 | 116 | 70 | 16 | 2,05 |
| **59** | 401020059 | 122 | 118 | 70 | 16 | 2,11 |
| **60** | 401020060 | 124 | 120 | 70 | 16 | 2,16 |
| **61** | 401020061 | 126 | 122 | 80 | 16 | 2,36 |
| **62** | 401020062 | 128 | 124 | 80 | 16 | 2,42 |
| **63** | 401020063 | 130 | 126 | 80 | 16 | 2,48 |
| **64** | 401020064 | 132 | 128 | 80 | 16 | 2,55 |
| **65** | 401020065 | 134 | 130 | 80 | 16 | 2,61 |
| **66** | 401020066 | 136 | 132 | 80 | 16 | 2,67 |
| **67** | 401020067 | 138 | 134 | 80 | 16 | 2,74 |
| **68** | 401020068 | 140 | 136 | 80 | 16 | 2,81 |
| **69** | 401020069 | 142 | 138 | 80 | 16 | 2,87 |
| **70** | 401020070 | 144 | 140 | 80 | 16 | 2,94 |
| **72** | 411020072 | 148 | 144 | | 16 | 2,50 |
| **75** | 411020075 | 154 | 150 | | 20 | 2,71 |
| **76** | 411020076 | 156 | 152 | | 20 | 2,79 |
| **80** | 411020080 | 164 | 160 | | 20 | 3,09 |
| **85** | 411020085 | 174 | 170 | | 20 | 3,50 |
| **90** | 411020090 | 184 | 180 | | 20 | 3,93 |
| **95** | 411020095 | 194 | 190 | | 20 | 4,39 |
| **100** | 411020100 | 204 | 200 | | 20 | 4,87 |
| **110** | 411020110 | 224 | 220 | | 20 | 5,90 |
| **114** | 411020114 | 232 | 228 | | 20 | 6,34 |
| **120** | 411020120 | 244 | 240 | | 20 | 7,03 |
| **127** | 411020127 | 258 | 254 | | 20 | 7,89 |

## MODUL 2,5

Eingriffswinkel 20°

| A | B |
|---|---|
| 45 | 25 |



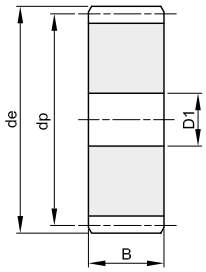

**Werkstoff: Stahl C45 // ab Zähnezahl 65 ohne Nabe**

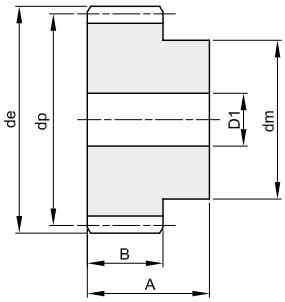
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401025012 | 35,0 | 30,0 | 22 | 10 | 0,17 |
| **13** | 401025013 | 37,5 | 32,5 | 25 | 10 | 0,21 |
| **14** | 401025014 | 40,0 | 35,0 | 28 | 10 | 0,25 |
| **15** | 401025015 | 42,5 | 37,5 | 30 | 10 | 0,30 |
| **16** | 401025016 | 45,0 | 40,0 | 32 | 12 | 0,33 |
| **17** | 401025017 | 47,5 | 42,5 | 35 | 12 | 0,38 |
| **18** | 401025018 | 50,0 | 45,0 | 35 | 12 | 0,42 |
| **19** | 401025019 | 52,5 | 47,5 | 35 | 12 | 0,45 |
| **20** | 401025020 | 55,0 | 50,0 | 40 | 12 | 0,54 |
| **21** | 401025021 | 57,5 | 52,5 | 40 | 14 | 0,56 |
| **22** | 401025022 | 60,0 | 55,0 | 45 | 14 | 0,66 |
| **23** | 401025023 | 62,5 | 57,5 | 45 | 14 | 0,70 |
| **24** | 401025024 | 65,0 | 60,0 | 45 | 14 | 0,74 |
| **25** | 401025025 | 67,5 | 62,5 | 50 | 14 | 0,85 |
| **26** | 401025026 | 70,0 | 65,0 | 50 | 14 | 0,90 |
| **27** | 401025027 | 72,5 | 67,5 | 50 | 14 | 0,95 |
| **28** | 401025028 | 75,0 | 70,0 | 50 | 14 | 1,00 |
| **29** | 401025029 | 77,5 | 72,5 | 50 | 14 | 1,06 |
| **30** | 401025030 | 80,0 | 75,0 | 55 | 14 | 1,18 |
| **31** | 401025031 | 82,5 | 77,5 | 55 | 16 | 1,22 |
| **32** | 401025032 | 85,0 | 80,0 | 55 | 16 | 1,28 |
| **33** | 401025033 | 87,5 | 82,5 | 55 | 16 | 1,34 |
| **34** | 401025034 | 90,0 | 85,0 | 55 | 16 | 1,41 |
| **35** | 401025035 | 92,5 | 87,5 | 60 | 16 | 1,54 |
| **36** | 401025036 | 95,0 | 90,0 | 60 | 16 | 1,61 |
| **37** | 401025037 | 97,5 | 92,5 | 60 | 16 | 1,68 |
| **38** | 401025038 | 100,0 | 95,0 | 60 | 16 | 1,75 |
| **39** | 401025039 | 102,5 | 97,5 | 60 | 16 | 1,83 |
| **40** | 401025040 | 105,0 | 100,0 | 70 | 16 | 2,06 |
| **41** | 401025041 | 107,5 | 102,5 | 70 | 16 | 2,14 |
| **42** | 401025042 | 110,0 | 105,0 | 70 | 16 | 2,22 |
| **43** | 401025043 | 112,5 | 107,5 | 70 | 16 | 2,30 |
| **44** | 401025044 | 115,0 | 110,0 | 70 | 16 | 2,38 |
| **45** | 401025045 | 117,5 | 112,5 | 70 | 16 | 2,47 |
| **46** | 401025046 | 120,0 | 115,0 | 70 | 20 | 2,52 |
| **47** | 401025047 | 122,5 | 117,5 | 80 | 20 | 2,80 |
| **48** | 401025048 | 125,0 | 120,0 | 80 | 20 | 2,88 |
| **49** | 401025049 | 127,5 | 122,5 | 80 | 20 | 2,98 |
| **50** | 401025050 | 130,0 | 125,0 | 80 | 20 | 3,07 |
| **51** | 401025051 | 132,5 | 127,5 | 80 | 20 | 3,17 |
| **52** | 401025052 | 135,0 | 130,0 | 90 | 20 | 3,48 |
| **53** | 401025053 | 137,5 | 132,5 | 90 | 20 | 3,58 |
| **54** | 401025054 | 140,0 | 135,0 | 90 | 20 | 3,68 |
| **55** | 401025055 | 142,5 | 137,5 | 90 | 20 | 3,78 |
| **56** | 401025056 | 145,0 | 140,0 | 100 | 20 | 4,13 |
| **57** | 401025057 | 147,5 | 142,5 | 100 | 20 | 4,23 |
| **58** | 401025058 | 150,0 | 145,0 | 100 | 20 | 4,34 |
| **59** | 401025059 | 152,5 | 147,5 | 100 | 20 | 4,46 |
| **60** | 401025060 | 155,0 | 150,0 | 100 | 20 | 4,57 |
| **65** | 411025065 | 167,5 | 162,5 | | 20 | 3,99 |
| **70** | 411025070 | 180,0 | 175,0 | | 20 | 4,64 |
| **72** | 411025072 | 185,0 | 180,0 | | 20 | 4,91 |
| **75** | 411025075 | 192,5 | 187,5 | | 20 | 5,33 |
| **76** | 411025076 | 195,0 | 190,0 | | 20 | 5,48 |
| **80** | 411025080 | 205,0 | 200,0 | | 25 | 6,04 |
| **85** | 411025085 | 217,5 | 212,5 | | 25 | 6,84 |
| **90** | 411025090 | 230,0 | 225,0 | | 25 | 7,68 |
| **95** | 411025095 | 242,5 | 237,5 | | 25 | 8,57 |
| **100** | 411025100 | 255,0 | 250,0 | | 25 | 9,51 |
| **110** | 411025110 | 280,0 | 275,0 | | 25 | 11,53 |
| **114** | 411025114 | 290,0 | 285,0 | | 25 | 12,39 |
| **120** | 411025120 | 305,0 | 300,0 | | 25 | 13,74 |
| **127** | 411025127 | 322,5 | 317,5 | | 25 | 15,40 |

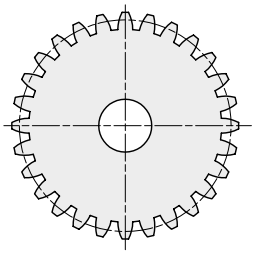
## MODUL 3

Eingriffswinkel 20°

| A | B |
|---|---|
| 50 | 30 |



**Werkstoff: Stahl C45 // ab Zähnezahl 50 ohne Nabe**

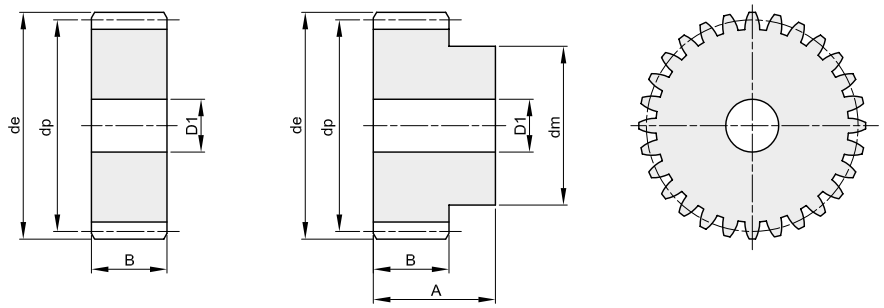
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401030012 | 42 | 36 | 27 | 12 | 0,28 |
| **13** | 401030013 | 45 | 39 | 30 | 12 | 0,34 |
| **14** | 401030014 | 48 | 42 | 33 | 12 | 0,41 |
| **15** | 401030015 | 51 | 45 | 35 | 12 | 0,47 |
| **16** | 401030016 | 54 | 48 | 38 | 14 | 0,54 |
| **17** | 401030017 | 57 | 51 | 42 | 14 | 0,63 |
| **18** | 401030018 | 60 | 54 | 45 | 14 | 0,72 |
| **19** | 401030019 | 63 | 57 | 45 | 14 | 0,78 |
| **20** | 401030020 | 66 | 60 | 45 | 14 | 0,84 |
| **21** | 401030021 | 69 | 63 | 45 | 16 | 0,89 |
| **22** | 401030022 | 72 | 66 | 50 | 16 | 1,02 |
| **23** | 401030023 | 75 | 69 | 50 | 16 | 1,10 |
| **24** | 401030024 | 78 | 72 | 50 | 16 | 1,18 |
| **25** | 401030025 | 81 | 75 | 60 | 16 | 1,39 |
| **26** | 401030026 | 84 | 78 | 60 | 16 | 1,48 |
| **27** | 401030027 | 87 | 81 | 60 | 16 | 1,56 |
| **28** | 401030028 | 90 | 84 | 60 | 16 | 1,66 |
| **29** | 401030029 | 93 | 87 | 60 | 16 | 1,75 |
| **30** | 401030030 | 96 | 90 | 60 | 16 | 1,85 |
| **31** | 401030031 | 99 | 93 | 60 | 16 | 1,95 |
| **32** | 401030032 | 102 | 96 | 70 | 16 | 2,21 |
| **33** | 401030033 | 105 | 99 | 70 | 16 | 2,32 |
| **34** | 401030034 | 108 | 102 | 70 | 16 | 2,43 |
| **35** | 401030035 | 111 | 105 | 70 | 16 | 2,55 |
| **36** | 401030036 | 114 | 108 | 70 | 20 | 2,62 |
| **37** | 401030037 | 117 | 111 | 70 | 20 | 2,74 |
| **38** | 401030038 | 120 | 114 | 80 | 20 | 3,05 |
| **39** | 401030039 | 123 | 117 | 80 | 20 | 3,18 |
| **40** | 401030040 | 126 | 120 | 80 | 20 | 3,31 |
| **41** | 401030041 | 129 | 123 | 80 | 20 | 3,44 |
| **42** | 401030042 | 132 | 126 | 80 | 20 | 3,58 |
| **43** | 401030043 | 135 | 129 | 80 | 20 | 3,72 |
| **44** | 401030044 | 138 | 132 | 90 | 20 | 4,07 |
| **45** | 401030045 | 141 | 135 | 90 | 20 | 4,22 |
| **46** | 401030046 | 144 | 138 | 90 | 20 | 4,37 |
| **47** | 401030047 | 147 | 141 | 100 | 20 | 4,76 |
| **48** | 401030048 | 150 | 144 | 100 | 20 | 4,92 |
| **50** | 411030050 | 156 | 150 | | 20 | 4,06 |
| **52** | 411030052 | 162 | 156 | | 20 | 4,40 |
| **55** | 411030055 | 171 | 165 | | 20 | 4,93 |
| **57** | 411030057 | 177 | 171 | | 20 | 5,30 |
| **60** | 411030060 | 186 | 180 | | 20 | 5,89 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **65** | 411030065 | 201 | 195 | | 20 | 6,92 |
| **70** | 411030070 | 216 | 210 | | 25 | 8,00 |
| **72** | 411030072 | 222 | 216 | | 25 | 8,47 |
| **75** | 411030075 | 231 | 225 | | 25 | 9,21 |
| **76** | 411030076 | 234 | 228 | | 25 | 9,46 |
| **80** | 411030080 | 246 | 240 | | 25 | 10,49 |
| **85** | 411030085 | 261 | 255 | | 25 | 11,86 |
| **90** | 411030090 | 276 | 270 | | 25 | 13,32 |
| **95** | 411030095 | 291 | 285 | | 25 | 14,86 |
| **100** | 411030100 | 306 | 300 | | 25 | 16,48 |
| **110** | 411030110 | 336 | 320 | | 25 | 19,97 |
| **114** | 411030114 | 348 | 342 | | 30 | 21,40 |
| **120** | 411030120 | 366 | 360 | | 30 | 23,74 |
| **127** | 411030127 | 387 | 381 | | 30 | 26,61 |

## MODUL 4

Eingriffswinkel 20°

| A | B |
|---|---|
| 60 | 40 |




**Werkstoff: Stahl C45 // ab Zähnezahl 38 ohne Nabe**

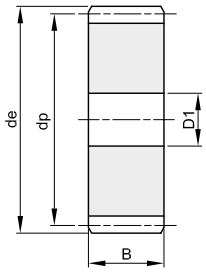
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401040012 | 56 | 48 | 35 | 14 | 0,63 |
| **13** | 401040013 | 60 | 52 | 40 | 14 | 0,78 |
| **14** | 401040014 | 64 | 56 | 45 | 14 | 0,93 |
| **15** | 401040015 | 68 | 60 | 45 | 14 | 1,05 |
| **16** | 401040016 | 72 | 64 | 50 | 16 | 1,20 |
| **17** | 401040017 | 76 | 68 | 50 | 16 | 1,33 |
| **18** | 401040018 | 80 | 72 | 50 | 16 | 1,47 |
| **19** | 401040019 | 84 | 76 | 60 | 16 | 1,75 |
| **20** | 401040020 | 88 | 80 | 60 | 16 | 1,90 |
| **21** | 401040021 | 92 | 84 | 70 | 16 | 2,22 |
| **22** | 401040022 | 96 | 88 | 70 | 16 | 2,39 |
| **23** | 401040023 | 100 | 92 | 75 | 20 | 2,60 |
| **24** | 401040024 | 104 | 96 | 75 | 20 | 2,79 |
| **25** | 401040025 | 108 | 100 | 75 | 20 | 2,98 |
| **26** | 401040026 | 112 | 104 | 75 | 20 | 3,18 |
| **27** | 401040027 | 116 | 108 | 75 | 20 | 3,39 |
| **28** | 401040028 | 120 | 112 | 75 | 20 | 3,60 |
| **29** | 401040029 | 124 | 116 | 75 | 20 | 3,83 |
| **30** | 401040030 | 128 | 120 | 75 | 20 | 4,06 |
| **31** | 401040031 | 132 | 124 | 80 | 20 | 4,39 |
| **32** | 401040032 | 136 | 128 | 80 | 20 | 4,64 |
| **33** | 401040033 | 140 | 132 | 80 | 20 | 4,90 |
| **34** | 401040034 | 144 | 136 | 80 | 20 | 5,16 |
| **35** | 401040035 | 148 | 140 | 80 | 20 | 5,43 |
| **36** | 401040036 | 152 | 144 | 80 | 25 | 5,63 |
| **38** | 411040038 | 160 | 152 | | 25 | 5,20 |
| **40** | 411040040 | 168 | 160 | | 25 | 6,11 |
| **45** | 411040045 | 188 | 180 | | 25 | 7,78 |
| **48** | 411040048 | 200 | 192 | | 25 | 8,87 |
| **50** | 411040050 | 208 | 200 | | 25 | 9,65 |
| **52** | 411040052 | 216 | 208 | | 25 | 10,45 |
| **55** | 411040055 | 228 | 220 | | 25 | 11,71 |
| **57** | 411040057 | 236 | 228 | | 25 | 12,59 |
| **60** | 411040060 | 248 | 240 | | 25 | 13,97 |
| **65** | 411040065 | 268 | 260 | | 25 | 16,43 |
| **70** | 411004070 | 288 | 280 | | 25 | 19,09 |
| **75** | 411040075 | 308 | 300 | | 25 | 21,94 |
| **76** | 411040076 | 312 | 304 | | 30 | 22,47 |
| **80** | 411040080 | 328 | 320 | | 30 | 24,93 |
| **85** | 411040085 | 348 | 340 | | 30 | 28,18 |
| **90** | 411040090 | 368 | 360 | | 30 | 31,62 |
| **95** | 411040095 | 388 | 380 | | 30 | 35,26 |

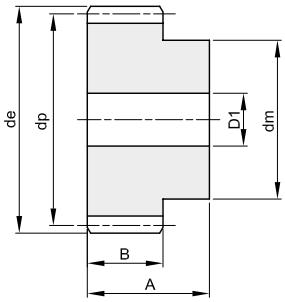
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **100** | 411040100 | 408 | 400 | | 30 | 39,11 |
| **110** | 411040110 | 448 | 440 | | 30 | 47,38 |
| **114** | 411040114 | 464 | 456 | | 30 | 50,91 |

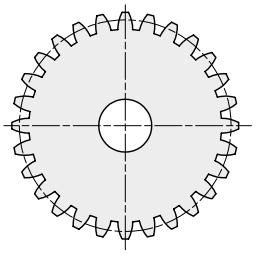
# MODUL 5

Eingriffswinkel 20°

| A | B |
|---|---|
| 75 | 50 |



**Werkstoff: Stahl C45 // ab Zähnezahl 32 ohne Nabe**

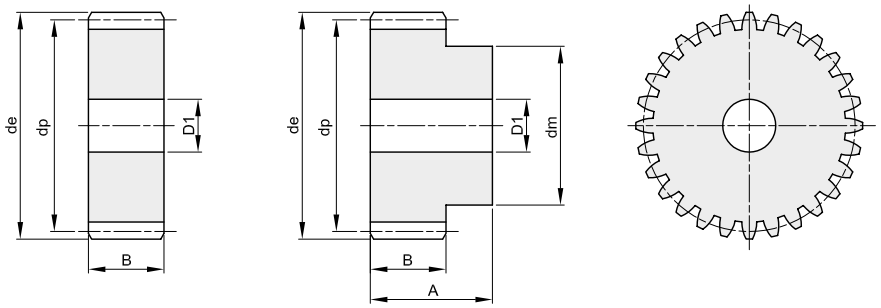
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401050012 | 70 | 60 | 45 | 20 | 1,21 |
| **13** | 401050013 | 75 | 65 | 50 | 20 | 1,47 |
| **14** | 401050014 | 80 | 70 | 55 | 20 | 1,76 |
| **15** | 401050015 | 85 | 75 | 60 | 20 | 2,07 |
| **16** | 401050016 | 90 | 80 | 65 | 20 | 2,40 |
| **17** | 401050017 | 95 | 85 | 70 | 20 | 2,75 |
| **18** | 401050018 | 100 | 90 | 70 | 20 | 3,02 |
| **19** | 401050019 | 105 | 95 | 70 | 20 | 3,30 |
| **20** | 401050020 | 110 | 100 | 80 | 20 | 3,83 |
| **21** | 401050021 | 115 | 105 | 80 | 20 | 4,15 |
| **22** | 401050022 | 120 | 110 | 80 | 20 | 4,48 |
| **23** | 401050023 | 125 | 115 | 90 | 20 | 5,08 |
| **24** | 401050024 | 130 | 120 | 90 | 20 | 5,44 |
| **25** | 401050025 | 135 | 125 | 90 | 20 | 5,82 |
| **26** | 401050026 | 140 | 130 | 100 | 20 | 6,50 |
| **27** | 401050027 | 145 | 135 | 100 | 20 | 6,91 |
| **28** | 401050028 | 150 | 140 | 100 | 25 | 7,22 |
| **29** | 401050029 | 155 | 145 | 110 | 25 | 7,98 |
| **30** | 401050030 | 160 | 150 | 110 | 25 | 8,44 |
| **32** | 411050032 | 170 | 160 | | 25 | 7,62 |
| **35** | 411050035 | 185 | 175 | | 25 | 9,16 |
| **38** | 411050038 | 200 | 190 | | 25 | 10,84 |
| **40** | 411050040 | 210 | 200 | | 25 | 12,04 |
| **45** | 411050045 | 235 | 225 | | 25 | 15,30 |
| **48** | 411050048 | 250 | 240 | | 25 | 17,44 |
| **50** | 411050050 | 260 | 250 | | 30 | 18,69 |
| **52** | 411050052 | 270 | 260 | | 30 | 20,43 |
| **55** | 411050055 | 285 | 275 | | 30 | 22,89 |
| **57** | 411050057 | 295 | 285 | | 30 | 24,62 |
| **60** | 411050060 | 310 | 300 | | 30 | 27,31 |
| **65** | 411050065 | 335 | 325 | | 30 | 32,12 |
| **70** | 411050070 | 360 | 350 | | 30 | 37,31 |
| **75** | 411050075 | 385 | 375 | | 30 | 42,88 |
| **76** | 411050076 | 390 | 380 | | 30 | 44,04 |
| **80** | 411050080 | 410 | 400 | | 30 | 48,84 |
| **85** | 411050085 | 435 | 425 | | 30 | 55,19 |
| **90** | 411050090 | 460 | 450 | | 30 | 61,92 |
| **95** | 411050095 | 485 | 475 | | 30 | 69,03 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **100** | 411050100 | 510 | 500 | | 30 | 76,53 |
| **110** | 411050110 | 560 | 550 | | 30 | 92,69 |
| **114** | 411050114 | 580 | 570 | | 30 | 99,59 |

## MODUL 6

Eingriffswinkel 20°

| A | B |
|---|---|
| 80 | 60 |




**Werkstoff: Stahl C45 // ab Zähnezahl 28 ohne Nabe**

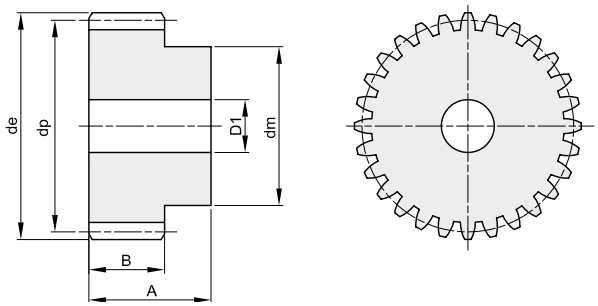
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 401060012 | 84 | 72 | 54 | 20 | 1,98 |
| **13** | 401060013 | 90 | 78 | 60 | 20 | 2,38 |
| **15** | 401060015 | 102 | 90 | 70 | 20 | 3,29 |
| **16** | 401060016 | 108 | 95 | 75 | 20 | 3,80 |
| **18** | 401060018 | 120 | 108 | 80 | 20 | 4,76 |
| **20** | 401060020 | 132 | 120 | 90 | 20 | 5,99 |
| **24** | 401060024 | 156 | 144 | 110 | 25 | 8,70 |
| **25** | 401060025 | 162 | 150 | 110 | 25 | 9,33 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **28** | 411060028 | 180 | 168 | | 25 | 10,00 |
| **30** | 411060030 | 192 | 180 | | 25 | 11,55 |
| **32** | 411060032 | 204 | 192 | | 25 | 13,22 |
| **35** | 411060035 | 222 | 210 | | 25 | 15,79 |
| **38** | 411060038 | 240 | 228 | | 25 | 18,74 |
| **40** | 411060040 | 252 | 240 | | 25 | 20,75 |

## MODUL 8

Eingriffswinkel 20°

| A | B |
|---|---|
| 110 | 80 |



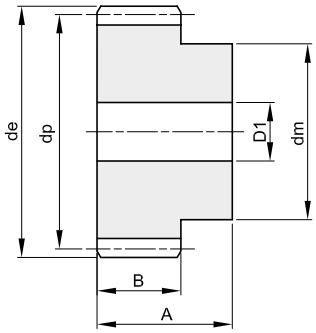

**Werkstoff: Stahl C45**

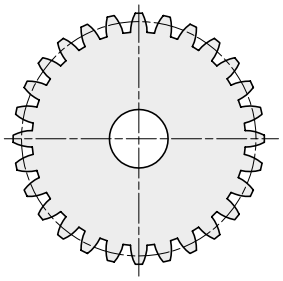
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **15** | 401080015 | 136 | 120 | 90 | 25 | 7,96 |
| **18** | 401080018 | 160 | 144 | 100 | 25 | 11,34 |
| **20** | 401080020 | 176 | 160 | 120 | 30 | 14,38 |
| **24** | 401080024 | 208 | 192 | 150 | 30 | 21,25 |
| **25** | 401080025 | 216 | 200 | 150 | 30 | 22,85 |
| **30** | 401080030 | 256 | 240 | 190 | 30 | 33,50 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|

# ZAHNRÄDER MIT GEHÄRTETEN ZÄHNEN

**Werkstoff: Stahl C45**



## MODUL 2
Eingriffswinkel 20°

| A | B |
|---|---|
| 35 | 20 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402020012 | 28 | 24 | 18 | 10 | 0,08 |
| **15** | 402020015 | 34 | 30 | 24 | 10 | 0,14 |
| **18** | 402020018 | 40 | 36 | 25 | 10 | 0,19 |
| **20** | 402020020 | 44 | 40 | 30 | 10 | 0,26 |
| **24** | 402020024 | 52 | 48 | 35 | 12 | 0,36 |
| **25** | 402020025 | 54 | 50 | 35 | 12 | 0,39 |
| **30** | 402020030 | 64 | 60 | 40 | 14 | 0,55 |
| **36** | 402020036 | 76 | 72 | 45 | 14 | 0,78 |
| **40** | 402020040 | 84 | 80 | 50 | 14 | 0,97 |
| **50** | 402020050 | 104 | 100 | 70 | 16 | 1,62 |
| **60** | 402020060 | 124 | 120 | 70 | 16 | 2,16 |

## MODUL 2,5
Eingriffswinkel 20°

| A | B |
|---|---|
| 45 | 25 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402025012 | 35 | 30 | 22 | 10 | 0,17 |
| **15** | 402025015 | 42,5 | 37,5 | 30 | 10 | 0,30 |
| **18** | 402025018 | 50 | 45 | 35 | 12 | 0,42 |
| **20** | 402025020 | 55 | 50 | 40 | 12 | 0,54 |
| **24** | 402025024 | 65 | 60 | 45 | 14 | 0,74 |
| **25** | 402025025 | 67,5 | 62,5 | 50 | 14 | 0,85 |
| **30** | 402025030 | 80 | 75 | 55 | 14 | 1,18 |
| **36** | 402025036 | 95 | 90 | 60 | 16 | 1,61 |
| **40** | 402025040 | 105 | 100 | 70 | 16 | 2,06 |
| **50** | 402025050 | 130 | 125 | 80 | 20 | 3,07 |
| **60** | 402025060 | 155 | 150 | 100 | 20 | 4,57 |

## MODUL 3
Eingriffswinkel 20°

| A | B |
|---|---|
| 50 | 30 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402030012 | 42 | 36 | 27 | 12 | 0,28 |
| **15** | 402030015 | 51 | 45 | 35 | 12 | 0,47 |
| **18** | 402030018 | 60 | 54 | 45 | 14 | 0,72 |
| **20** | 402030020 | 66 | 60 | 45 | 14 | 0,84 |
| **24** | 402030024 | 78 | 72 | 50 | 16 | 1,18 |
| **25** | 402030025 | 81 | 75 | 60 | 16 | 1,39 |
| **30** | 402030030 | 96 | 90 | 60 | 16 | 1,85 |
| **36** | 402030036 | 114 | 108 | 70 | 20 | 2,62 |
| **40** | 402030040 | 126 | 120 | 80 | 20 | 3,31 |

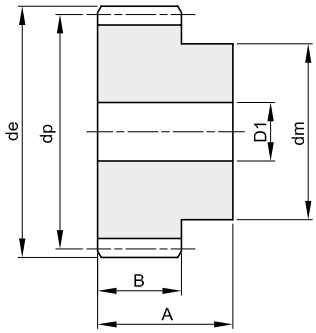
## MODUL 4
Eingriffswinkel 20°

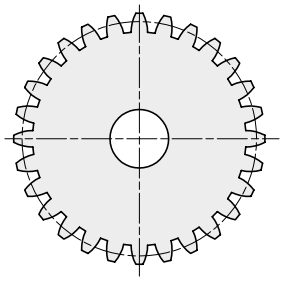
| A | B |
|---|---|
| 60 | 40 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402040012 | 56 | 48 | 35 | 14 | 0,63 |
| **15** | 402040015 | 68 | 60 | 45 | 14 | 1,05 |
| **18** | 402040018 | 80 | 72 | 50 | 16 | 1,47 |
| **20** | 402040020 | 88 | 80 | 60 | 16 | 1,90 |
| **24** | 402040024 | 104 | 96 | 75 | 20 | 2,79 |
| **25** | 402040025 | 108 | 100 | 75 | 20 | 2,98 |
| **30** | 402040030 | 128 | 120 | 75 | 20 | 4,06 |
| **36** | 402040036 | 152 | 144 | 80 | 25 | 5,63 |

# ZAHNRÄDER MIT GEHÄRTETEN ZÄHNEN

**Werkstoff: Stahl C45**



## MODUL 5
Eingriffswinkel 20°

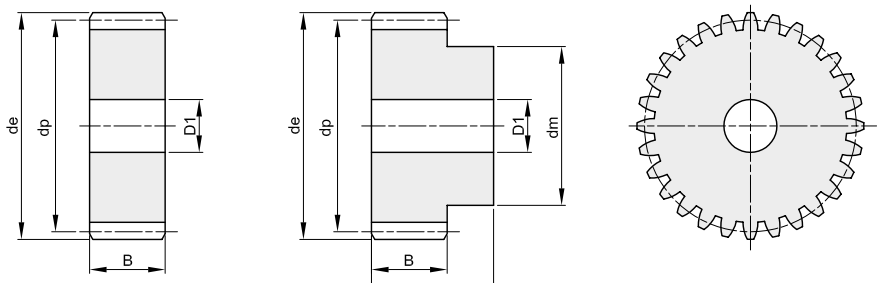
| A | B |
|---|---|
| 75 | 50 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402050012 | 70 | 60 | 45 | 20 | 1,21 |
| **15** | 402050015 | 85 | 75 | 60 | 20 | 2,07 |
| **18** | 402050018 | 100 | 90 | 70 | 20 | 3,02 |
| **20** | 402050020 | 110 | 100 | 80 | 20 | 3,83 |
| **24** | 402050024 | 130 | 120 | 90 | 20 | 5,44 |
| **25** | 402050025 | 135 | 125 | 90 | 20 | 5,82 |
| **30** | 402050030 | 160 | 150 | 110 | 25 | 8,44 |

## MODUL 6
Eingriffswinkel 20°

| A | B |
|---|---|
| 80 | 60 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 402060012 | 84 | 72 | 54 | 20 | 1,98 |
| **15** | 402060015 | 102 | 90 | 70 | 20 | 3,29 |
| **16** | 402060016 | 108 | 95 | 75 | 20 | 3,80 |
| **18** | 402060018 | 120 | 108 | 80 | 20 | 4,76 |
| **20** | 402060020 | 132 | 120 | 90 | 20 | 5,99 |
| **24** | 402060024 | 156 | 144 | 110 | 25 | 8,70 |
| **25** | 402060025 | 162 | 150 | 110 | 25 | 9,33 |




## MODUL **1**

Eingriffswinkel **20°**

| A | B |
|---|---|
| 25 | 15 |

## MODUL **1,5**

Eingriffswinkel **20°**

| A | B |
|---|---|
| 30 | 17 |

**Werkstoff: Edelstahl 1.4305 // Verzahnung gerade // ab Zähnezahl 80 ohne Nabe**

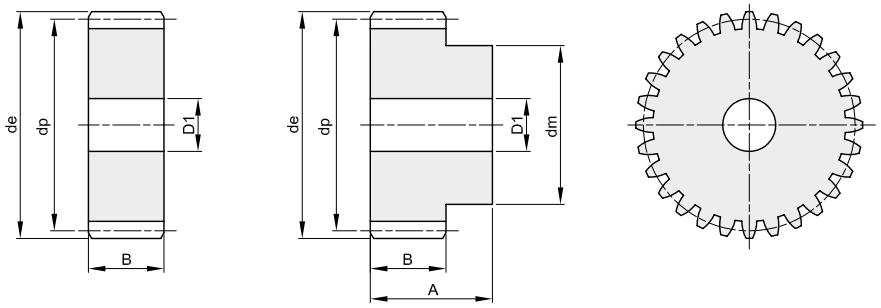
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403010012 | 14 | 12 | 9 | – | 0,01 |
| **13** | 403010013 | 15 | 13 | 10 | – | 0,02 |
| **14** | 403010014 | 16 | 14 | 11 | – | 0,02 |
| **15** | 403010015 | 17 | 15 | 12 | – | 0,02 |
| **16** | 403010016 | 18 | 16 | 13 | – | 0,03 |
| **18** | 403010018 | 20 | 18 | 15 | 8 | 0,03 |
| **20** | 403010020 | 22 | 20 | 16 | 8 | 0,04 |
| **24** | 403010024 | 26 | 24 | 20 | 10 | 0,06 |
| **25** | 403010025 | 27 | 25 | 20 | 10 | 0,07 |
| **30** | 403010030 | 32 | 30 | 20 | 10 | 0,09 |
| **35** | 403010035 | 37 | 35 | 25 | 10 | 0,14 |
| **40** | 403010040 | 42 | 40 | 25 | 10 | 0,17 |
| **50** | 403010050 | 52 | 50 | 30 | 12 | 0,26 |
| **60** | 403010060 | 62 | 60 | 40 | 12 | 0,41 |
| **70** | 403010070 | 72 | 70 | 50 | 12 | 0,58 |
| **80** | 403010080 | 82 | 80 | – | 12 | 0,58 |
| **90** | 403010090 | 92 | 90 | – | 12 | 0,73 |
| **100** | 403010100 | 102 | 100 | – | 12 | 0,91 |
| **110** | 403010110 | 112 | 110 | – | 12 | 1,10 |
| **120** | 403010120 | 122 | 120 | – | 12 | 1,32 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403015012 | 21,0 | 18,0 | 14 | 8 | 0,04 |
| **13** | 403015013 | 22,5 | 19,5 | 15 | 8 | 0,05 |
| **14** | 403015014 | 24,0 | 21,0 | 17 | 8 | 0,06 |
| **15** | 403015015 | 25,5 | 22,5 | 18 | 8 | 0,07 |
| **18** | 403015018 | 30,0 | 27,0 | 20 | 8 | 0,10 |
| **20** | 403015020 | 33,0 | 30,0 | 25 | 8 | 0,13 |
| **24** | 403015024 | 39,0 | 36,0 | 25 | 10 | 0,17 |
| **25** | 403015025 | 40,5 | 37,5 | 25 | 10 | 0,18 |
| **30** | 403015030 | 48,0 | 45,0 | 30 | 12 | 0,26 |
| **40** | 403015040 | 63,0 | 60,0 | 40 | 12 | 0,48 |
| **50** | 403015050 | 78,0 | 75,0 | 50 | 14 | 0,76 |
| **60** | 403015060 | 93,0 | 90,0 | 60 | 16 | 1,09 |
| **70** | 403015070 | 108,0 | 105,0 | 70 | 16 | 1,50 |
| **80** | 403015080 | 123,0 | 120,0 | – | 16 | 1,48 |
| **120** | 403015120 | 183,0 | 180,0 | – | 16 | 3,36 |

## MODUL 2

Eingriffswinkel 20°

| A | B |
|---|---|
| 35 | 20 |



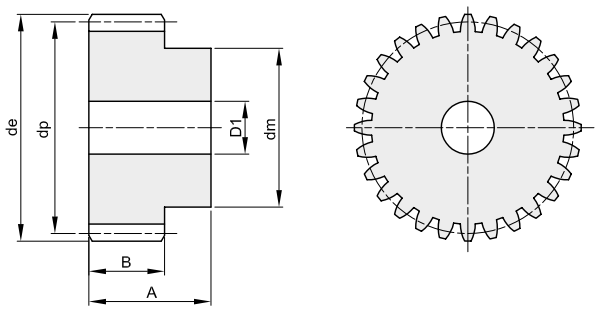

**Werkstoff: Edelstahl 1.4305 // Verzahnung gerade // ab Zähnezahl 80 ohne Nabe**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403020012 | 28,0 | 24,0 | 18 | 10 | 0,08 |
| **13** | 403020013 | 30,0 | 26,0 | 20 | 10 | 0,10 |
| **14** | 403020014 | 32,0 | 28,0 | 22 | 10 | 0,12 |
| **15** | 403020015 | 34,0 | 30,0 | 24 | 10 | 0,14 |
| **20** | 403020020 | 44,0 | 40,0 | 30 | 10 | 0,26 |
| **24** | 403020024 | 52,0 | 48,0 | 35 | 12 | 0,36 |
| **25** | 403020025 | 54,0 | 50,0 | 35 | 12 | 0,39 |
| **30** | 403020030 | 64,0 | 60,0 | 40 | 14 | 0,55 |
| **40** | 403020040 | 84,0 | 80,0 | 50 | 14 | 0,97 |
| **50** | 403020050 | 104,0 | 100,0 | 70 | 16 | 1,62 |
| **60** | 403020060 | 124,0 | 120,0 | 70 | 16 | 2,16 |
| **80** | 403020080 | 164,0 | 160,0 | – | 20 | 3,09 |

## MODUL 2,5

Eingriffswinkel 20°

| A | B |
|---|---|
| 45 | 25 |



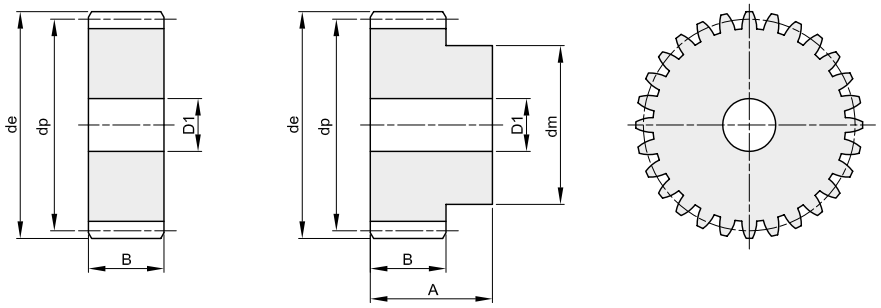

**Werkstoff: Edelstahl 1.4305 // Verzahnung gerade**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403025012 | 35,0 | 30,0 | 22 | 10 | 0,17 |
| **13** | 403025013 | 37,5 | 32,5 | 25 | 10 | 0,21 |
| **14** | 403025014 | 40,0 | 35,0 | 28 | 10 | 0,25 |
| **15** | 403025015 | 42,5 | 37,5 | 30 | 10 | 0,30 |
| **20** | 403025020 | 55,0 | 50,0 | 40 | 12 | 0,54 |
| **24** | 403025024 | 65,0 | 60,0 | 45 | 14 | 0,74 |
| **25** | 403025025 | 67,5 | 62,5 | 50 | 14 | 0,85 |
| **30** | 403025030 | 80,0 | 75,0 | 55 | 14 | 1,18 |
| **40** | 403025040 | 105,0 | 100,0 | 70 | 16 | 2,06 |
| **50** | 403025050 | 130,0 | 125,0 | 80 | 20 | 3,07 |
| **60** | 403025060 | 155,0 | 150,0 | 100 | 20 | 4,57 |

## MODUL 3

Eingriffswinkel 20°

| A | B |
|---|---|
| 50 | 30 |



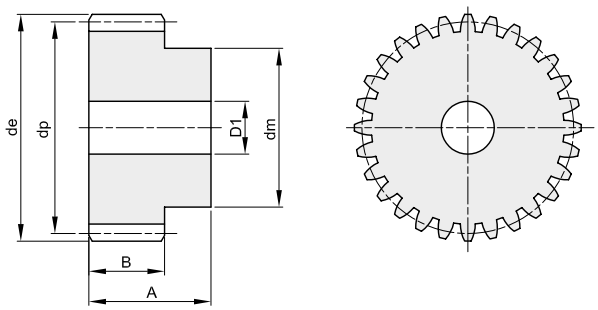

**Werkstoff: Edelstahl 1.4305 // Verzahnung gerade // ab Zähnezahl 50 ohne Nabe**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403030012 | 42,0 | 36,0 | 27 | 12 | 0,28 |
| **15** | 403030015 | 51,0 | 45,0 | 35 | 12 | 0,47 |
| **20** | 403030020 | 66,0 | 60,0 | 45 | 14 | 0,84 |
| **24** | 403030024 | 78,0 | 72,0 | 50 | 16 | 1,18 |
| **25** | 403030025 | 81,0 | 75,0 | 60 | 16 | 1,39 |
| **30** | 403030030 | 96,0 | 90,0 | 60 | 16 | 1,85 |
| **40** | 403030040 | 126,0 | 120,0 | 80 | 20 | 3,31 |
| **50** | 403030050 | 156,0 | 150,0 | – | 20 | 4,06 |
| **60** | 403030060 | 186,0 | 180,0 | – | 20 | 5,89 |

## MODUL 4

Eingriffswinkel 20°

| A | B |
|---|---|
| 60 | 40 |



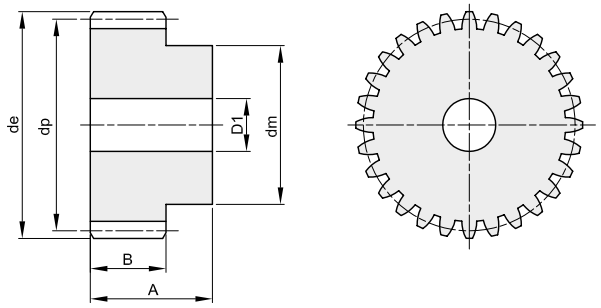

**Werkstoff: Edelstahl 1.4305 // Verzahnung gerade**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | 403040012 | 56,0 | 48,0 | 35 | 14 | 0,63 |
| **13** | 403040013 | 60,0 | 52,0 | 40 | 14 | 0,78 |
| **14** | 403040014 | 64,0 | 56,0 | 45 | 14 | 0,93 |
| **15** | 403040015 | 68,0 | 60,0 | 45 | 14 | 1,05 |
| **20** | 403040020 | 88,0 | 80,0 | 60 | 16 | 1,90 |
| **25** | 403040025 | 108,0 | 100,0 | 75 | 20 | 2,98 |
| **30** | 403040030 | 128,0 | 120,0 | 75 | 20 | 4,06 |

# MODUL 1

Eingriffswinkel **20°**

| A | B |
|---|---|
| 25 | 15 |



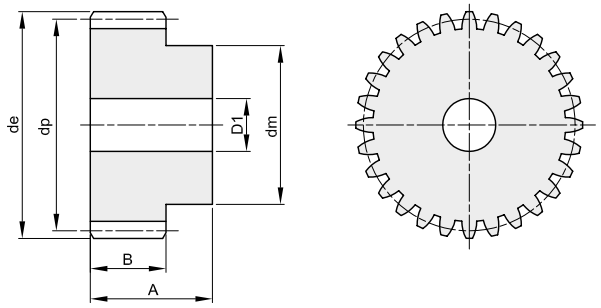

**Werkstoff: NYLON PA6+FV**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **10** | PV401010010 | 12 | 10 | 12 | | 0,002 |
| **12** | PV401010012 | 14 | 12 | 9 | 4 | 0,003 |
| **13** | PV401010013 | 15 | 13 | 10 | 4 | 0,003 |
| **14** | PV401010014 | 16 | 14 | 10 | 4 | 0,004 |
| **15** | PV401010015 | 17 | 15 | 10 | 4 | 0,004 |
| **16** | PV401010016 | 18 | 16 | 13 | 5 | 0,005 |
| **17** | PV401010017 | 19 | 17 | 14 | 5 | 0,006 |
| **18** | PV401010018 | 20 | 18 | 14 | 5 | 0,006 |
| **19** | PV401010019 | 21 | 19 | 14 | 5 | 0,007 |
| **20** | PV401010020 | 22 | 20 | 16 | 5 | 0,008 |
| **21** | PV401010021 | 23 | 21 | 16 | 5 | 0,009 |
| **22** | PV401010022 | 24 | 22 | 18 | 5 | 0,009 |
| **23** | PV401010023 | 25 | 23 | 18 | 6 | 0,010 |
| **24** | PV401010024 | 26 | 24 | 20 | 6 | 0,012 |
| **25** | PV401010025 | 27 | 25 | 20 | 6 | 0,011 |
| **26** | PV401010026 | 28 | 26 | 22 | 6 | 0,013 |
| **27** | PV401010027 | 29 | 27 | 22 | 6 | 0,015 |
| **28** | PV401010028 | 30 | 28 | 22 | 6 | 0,015 |
| **29** | PV401010029 | 31 | 29 | 25 | 6 | 0,018 |
| **30** | PV401010030 | 32 | 30 | 25 | 6 | 0,018 |
| **31** | PV401010031 | 33 | 31 | 25 | 6 | 0,019 |
| **32** | PV401010032 | 34 | 32 | 25 | 6 | 0,019 |
| **33** | PV401010033 | 35 | 33 | 25 | 6 | 0,020 |
| **34** | PV401010034 | 36 | 34 | 30 | 8 | 0,024 |
| **35** | PV401010035 | 37 | 35 | 30 | 8 | 0,024 |
| **36** | PV401010036 | 38 | 36 | 30 | 8 | 0,028 |
| **37** | PV401010037 | 39 | 37 | 30 | 8 | 0,026 |
| **38** | PV401010038 | 40 | 38 | 30 | 8 | 0,028 |
| **39** | PV401010039 | 41 | 39 | 30 | 8 | 0,028 |
| **40** | PV401010040 | 42 | 40 | 30 | 8 | 0,029 |
| **41** | PV401010041 | 43 | 41 | 30 | 8 | 0,031 |
| **42** | PV401010042 | 44 | 42 | 35 | 10 | 0,035 |
| **43** | PV401010043 | 45 | 43 | 35 | 10 | 0,035 |
| **44** | PV401010044 | 46 | 44 | 35 | 10 | 0,036 |
| **45** | PV401010045 | 47 | 45 | 35 | 10 | 0,037 |
| **47** | PV401010047 | 49 | 47 | 35 | 10 | 0,041 |
| **48** | PV401010048 | 50 | 48 | 35 | 10 | 0,042 |
| **49** | PV401010049 | 51 | 49 | 35 | 10 | 0,044 |
| **50** | PV401010050 | 52 | 50 | 35 | 10 | 0,045 |
| **52** | PV401010052 | 54 | 52 | 35 | 14 | 0,042 |
| **55** | PV401010055 | 57 | 55 | 35 | 14 | 0,045 |
| **56** | PV401010056 | 58 | 56 | 35 | 14 | 0,053 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **58** | PV401010058 | 60 | 58 | 35 | 14 | 0,049 |
| **60** | PV401010060 | 62 | 60 | 40 | 14 | 0,058 |
| **64** | PV401010064 | 66 | 64 | 40 | 14 | 0,064 |
| **65** | PV401010065 | 67 | 65 | 40 | 20 | 0,060 |
| **70** | PV401010070 | 72 | 70 | 40 | 20 | 0,071 |
| **71** | PV401010071 | 73 | 71 | 40 | 20 | 0,072 |
| **72** | PV401010072 | 74 | 72 | 40 | 20 | 0,078 |
| **73** | PV401010073 | 75 | 73 | 40 | 20 | 0,072 |
| **74** | PV401010074 | 76 | 74 | 40 | 20 | 0,072 |
| **75** | PV401010075 | 77 | 75 | 50 | 20 | 0,074 |
| **77** | PV401010077 | 79 | 77 | 50 | 20 | 0,100 |
| **80** | PV401010080 | 82 | 80 | 50 | 20 | 0,097 |
| **85** | PV401010085 | 87 | 85 | 50 | 20 | 0,127 |
| **88** | PV401010088 | 90 | 88 | 50 | 20 | 0,094 |
| **90** | PV401010090 | 92 | 90 | 50 | 20 | 0,115 |
| **95** | PV401010095 | 97 | 95 | 50 | 20 | 0,103 |
| **100** | PV401010100 | 102 | 100 | 50 | 20 | 0,119 |
| **104** | PV401010104 | 106 | 104 | 50 | 20 | 0,109 |
| **110** | PV401010110 | 112 | 110 | 50 | 20 | 0,125 |
| **120** | PV401010120 | 122 | 120 | 50 | 20 | 0,122 |

## MODUL **1,5**
Eingriffswinkel **20°**

| A | B |
|---|---|
| 30 | 17 |




**Werkstoff: NYLON PA6+FV**

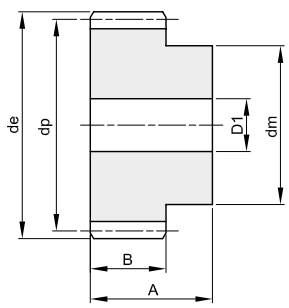
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | PV401015012 | 21 | 18 | 14 | 5 | 0,007 |
| **13** | PV401015013 | 22,5 | 19,5 | 16 | 5 | 0,009 |
| **14** | PV401015014 | 24 | 21 | 16 | 5 | 0,010 |
| **15** | PV401015015 | 25,5 | 22,5 | 18 | 5 | 0,013 |
| **16** | PV401015016 | 27 | 24 | 18 | 5 | 0,013 |
| **17** | PV401015017 | 28,5 | 25,5 | 20 | 6 | 0,014 |
| **18** | PV401015018 | 30 | 27 | 20 | 6 | 0,016 |
| **19** | PV401015019 | 31,5 | 28,5 | 20 | 8 | 0,019 |
| **20** | PV401015020 | 33 | 30 | 25 | 8 | 0,023 |
| **21** | PV401015021 | 34,5 | 31,5 | 25 | 8 | 0,025 |
| **22** | PV401015022 | 36 | 33 | 28 | 8 | 0,025 |
| **23** | PV401015023 | 37,5 | 34,5 | 28 | 8 | 0,027 |
| **24** | PV401015024 | 39 | 36 | 28 | 8 | 0,028 |
| **25** | PV401015025 | 40,5 | 37,5 | 30 | 8 | 0,034 |
| **26** | PV401015026 | 42 | 39 | 30 | 8 | 0,035 |
| **27** | PV401015027 | 43,5 | 40,5 | 30 | 8 | 0,038 |
| **28** | PV401015028 | 45 | 42 | 30 | 8 | 0,039 |
| **29** | PV401015029 | 46,5 | 43,5 | 30 | 8 | 0,043 |
| **30** | PV401015030 | 48 | 45 | 35 | 12 | 0,045 |
| **31** | PV401015031 | 49,5 | 46,5 | 35 | 12 | 0,050 |
| **32** | PV401015032 | 51 | 48 | 35 | 12 | 0,049 |
| **33** | PV401015033 | 52,5 | 49,5 | 35 | 12 | 0,055 |
| **34** | PV401015034 | 54 | 51 | 35 | 12 | 0,054 |
| **35** | PV401015035 | 55,5 | 52,5 | 35 | 12 | 0,061 |
| **36** | PV401015036 | 57 | 54 | 35 | 12 | 0,048 |
| **37** | PV401015037 | 58,5 | 55,5 | 35 | 16 | 0,053 |
| **38** | PV401015038 | 60 | 57 | 35 | 16 | 0,053 |
| **39** | PV401015039 | 61,5 | 58,5 | 35 | 16 | 0,061 |
| **40** | PV401015040 | 63 | 60 | 40 | 16 | 0,064 |
| **42** | PV401015042 | 66 | 63 | 45 | 16 | 0,072 |
| **43** | PV401015043 | 67,5 | 64,5 | 45 | 16 | 0,075 |
| **44** | PV401015044 | 69 | 66 | 45 | 16 | 0,084 |
| **45** | PV401015045 | 70,5 | 67,5 | 45 | 16 | 0,085 |
| **46** | PV401015046 | 72 | 69 | 45 | 16 | 0,086 |
| **47** | PV401015047 | 73,5 | 70,5 | 45 | 16 | 0,090 |
| **48** | PV401015048 | 75 | 72 | 45 | 16 | 0,099 |
| **50** | PV401015050 | 78 | 75 | 45 | 16 | 0,111 |
| **51** | PV401015051 | 79,5 | 76,5 | 50 | 20 | 0,110 |
| **52** | PV401015052 | 81 | 78 | 50 | 20 | 0,113 |
| **53** | PV401015053 | 82,5 | 79,5 | 50 | 20 | 0,118 |
| **54** | PV401015054 | 84 | 81 | 50 | 20 | 0,122 |
| **55** | PV401015055 | 85,5 | 82,5 | 50 | 20 | 0,126 |

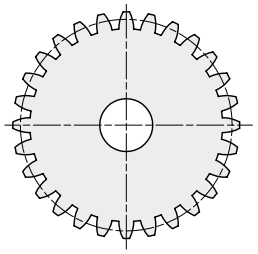
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **60** | PV401015060 | 93 | 90 | 55 | 20 | 0,147 |
| **63** | PV401015063 | 97,5 | 94,5 | 60 | 20 | 0,166 |
| **65** | PV401015065 | 100,5 | 97,5 | 60 | 20 | 0,175 |
| **70** | PV401015070 | 108 | 105 | 60 | 20 | 0,137 |
| **75** | PV401015075 | 115,5 | 112,5 | 60 | 20 | 0,155 |
| **80** | PV401015080 | 123 | 120 | 60 | 20 | 0,170 |
| **85** | PV401015085 | 130,5 | 127,5 | 60 | 20 | 0,206 |
| **90** | PV401015090 | 138 | 135 | 60 | 20 | 0,220 |

# MODUL 2

Eingriffswinkel **20°**

| A | B |
|---|---|
| 35 | 20 |



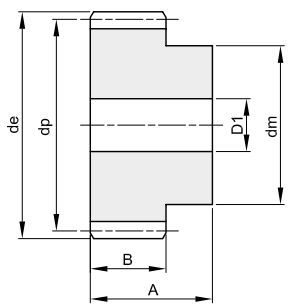
**Werkstoff: NYLON PA6+FV**

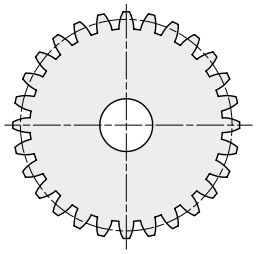
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | PV401020012 | 28 | 24 | 18 | 8 | 0,015 |
| **13** | PV401020013 | 30 | 26 | 18 | 8 | 0,017 |
| **14** | PV401020014 | 32 | 28 | 20 | 8 | 0,020 |
| **15** | PV401020015 | 34 | 30 | 22 | 8 | 0,023 |
| **16** | PV401020016 | 36 | 32 | 25 | 8 | 0,029 |
| **17** | PV401020017 | 38 | 34 | 25 | 8 | 0,031 |
| **18** | PV401020018 | 40 | 36 | 30 | 10 | 0,034 |
| **19** | PV401020019 | 42 | 38 | 30 | 10 | 0,040 |
| **20** | PV401020020 | 44 | 40 | 30 | 10 | 0,042 |
| **21** | PV401020021 | 46 | 42 | 30 | 10 | 0,046 |
| **22** | PV401020022 | 48 | 44 | 30 | 10 | 0,049 |
| **23** | PV401020023 | 50 | 46 | 35 | 10 | 0,060 |
| **24** | PV401020024 | 52 | 48 | 35 | 10 | 0,056 |
| **25** | PV401020025 | 54 | 50 | 35 | 10 | 0,066 |
| **26** | PV401020026 | 56 | 52 | 40 | 14 | 0,071 |
| **27** | PV401020027 | 58 | 54 | 40 | 14 | 0,071 |
| **28** | PV401020028 | 60 | 56 | 40 | 14 | 0,074 |
| **29** | PV401020029 | 62 | 58 | 40 | 14 | 0,086 |
| **30** | PV401020030 | 64 | 60 | 40 | 14 | 0,083 |
| **31** | PV401020031 | 66 | 62 | 40 | 14 | 0,087 |
| **32** | PV401020032 | 68 | 64 | 45 | 16 | 0,095 |
| **33** | PV401020033 | 70 | 66 | 45 | 16 | 0,098 |
| **34** | PV401020034 | 72 | 68 | 45 | 16 | 0,105 |
| **35** | PV401020035 | 74 | 70 | 45 | 16 | 0,113 |
| **36** | PV401020036 | 76 | 72 | 50 | 16 | 0,115 |
| **37** | PV401020037 | 78 | 74 | 50 | 16 | 0,118 |
| **38** | PV401020038 | 80 | 76 | 50 | 16 | 0,125 |
| **39** | PV401020039 | 82 | 78 | 50 | 16 | 0,127 |
| **40** | PV401020040 | 84 | 80 | 50 | 16 | 0,138 |
| **41** | PV401020041 | 86 | 82 | 50 | 16 | 0,152 |
| **42** | PV401020042 | 88 | 84 | 50 | 16 | 0,156 |
| **43** | PV401020043 | 90 | 86 | 50 | 16 | 0,162 |
| **44** | PV401020044 | 92 | 88 | 50 | 16 | 0,175 |
| **45** | PV401020045 | 94 | 90 | 50 | 16 | 0,177 |
| **46** | PV401020046 | 96 | 92 | 60 | 16 | 0,181 |
| **47** | PV401020047 | 98 | 94 | 60 | 16 | 0,188 |
| **48** | PV401020048 | 100 | 96 | 60 | 16 | 0,193 |
| **49** | PV401020049 | 102 | 98 | 60 | 16 | 0,210 |
| **50** | PV401020050 | 104 | 100 | 60 | 20 | 0,209 |
| **51** | PV401020051 | 106 | 102 | 60 | 20 | 0,189 |
| **52** | PV401020052 | 108 | 104 | 60 | 20 | 0,203 |
| **53** | PV401020053 | 110 | 106 | 60 | 20 | 0,207 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **54** | PV401020054 | 112 | 108 | 60 | 20 | 0,211 |
| **55** | PV401020055 | 114 | 110 | 60 | 20 | 0,209 |
| **56** | PV401020056 | 116 | 112 | 60 | 20 | 0,181 |
| **57** | PV401020057 | 118 | 114 | 60 | 20 | 0,208 |
| **58** | PV401020058 | 120 | 116 | 60 | 20 | 0,202 |
| **59** | PV401020059 | 122 | 118 | 60 | 20 | 0,230 |
| **60** | PV401020060 | 124 | 120 | 60 | 20 | 0,238 |
| **61** | PV401020061 | 126 | 122 | 60 | 20 | 0,254 |
| **62** | PV401020062 | 128 | 124 | 60 | 20 | 0,257 |
| **63** | PV401020063 | 130 | 126 | 60 | 20 | 0,216 |
| **64** | PV401020064 | 132 | 128 | 60 | 20 | 0,276 |
| **65** | PV401020065 | 134 | 130 | 60 | 20 | 0,226 |
| **66** | PV401020066 | 136 | 132 | 60 | 20 | 0,295 |
| **67** | PV401020067 | 138 | 134 | 60 | 20 | 0,273 |
| **68** | PV401020068 | 140 | 136 | 60 | 20 | 0,265 |
| **69** | PV401020069 | 142 | 138 | 60 | 20 | 0,279 |
| **70** | PV401020070 | 144 | 140 | 60 | 20 | 0,274 |
| **71** | PV401020071 | 146 | 142 | 60 | 20 | 0,275 |
| **72** | PV401020072 | 148 | 144 | 60 | 20 | 0,324 |
| **73** | PV401020073 | 150 | 146 | 60 | 20 | 0,340 |
| **74** | PV401020074 | 152 | 148 | 60 | 20 | 0,340 |
| **75** | PV401020075 | 154 | 150 | 60 | 20 | 0,349 |
| **76** | PV401020076 | 156 | 152 | 60 | 20 | 0,376 |
| **77** | PV401020077 | 158 | 154 | 60 | 20 | 0,379 |
| **78** | PV401020078 | 160 | 156 | 60 | 20 | 0,381 |
| **79** | PV401020079 | 162 | 158 | 60 | 20 | 0,398 |
| **80** | PV401020080 | 164 | 160 | 60 | 20 | 0,292 |
| **81** | PV401020081 | 166 | 162 | 60 | 20 | 0,314 |
| **82** | PV401020082 | 168 | 164 | 60 | 20 | 0,338 |
| **83** | PV401020083 | 170 | 166 | 60 | 20 | 0,313 |
| **84** | PV401020084 | 172 | 168 | 60 | 20 | 0,320 |
| **85** | PV401020085 | 174 | 170 | 60 | 20 | 0,335 |
| **86** | PV401020086 | 176 | 172 | 60 | 20 | 0,383 |
| **87** | PV401020087 | 178 | 174 | 60 | 20 | 0,384 |
| **88** | PV401020088 | 180 | 176 | 60 | 20 | 0,385 |
| **89** | PV401020089 | 182 | 178 | 60 | 20 | 0,404 |
| **90** | PV401020090 | 184 | 180 | 60 | 20 | 0,451 |

## MODUL 2,5
Eingriffswinkel **20°**

| A | B |
|---|---|
| 40 | 25 |



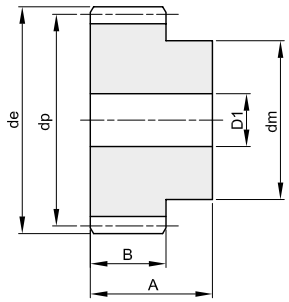
**Werkstoff: NYLON PA6+FV**

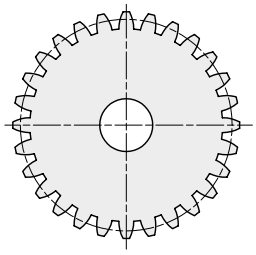
| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | PV401025012 | 35 | 30 | 22 | 8 | 0,026 |
| **14** | PV401025014 | 40 | 35 | 22 | 8 | 0,038 |
| **15** | PV401025015 | 42,5 | 37,5 | 30 | 10 | 0,045 |
| **16** | PV401025016 | 45 | 40 | 30 | 10 | 0,046 |
| **17** | PV401025017 | 47,5 | 42,5 | 30 | 10 | 0,053 |
| **18** | PV401025018 | 50 | 45 | 35 | 10 | 0,061 |
| **19** | PV401025019 | 52,5 | 47,5 | 35 | 10 | 0,040 |
| **20** | PV401025020 | 55 | 50 | 35 | 10 | 0,073 |
| **21** | PV401025021 | 57,5 | 52,5 | 35 | 16 | 0,081 |
| **22** | PV401025022 | 60 | 55 | 40 | 16 | 0,090 |
| **23** | PV401025023 | 62,5 | 57,5 | 40 | 16 | 0,090 |
| **24** | PV401025024 | 65 | 60 | 40 | 16 | 0,096 |
| **25** | PV401025025 | 67,5 | 62,5 | 40 | 16 | 0,109 |
| **26** | PV401025026 | 70 | 65 | 40 | 16 | 0,075 |
| **27** | PV401025027 | 72,5 | 67,5 | 40 | 16 | 0,121 |
| **28** | PV401025028 | 75 | 70 | 40 | 16 | 0,131 |
| **29** | PV401025029 | 77,5 | 72,5 | 45 | 16 | 0,141 |
| **30** | PV401025030 | 80 | 75 | 45 | 16 | 0,147 |
| **31** | PV401025031 | 82,5 | 77,5 | 45 | 16 | 0,158 |
| **32** | PV401025032 | 85 | 80 | 50 | 16 | 0,171 |
| **33** | PV401025033 | 87,5 | 82,5 | 50 | 16 | 0,177 |
| **34** | PV401025034 | 90 | 85 | 50 | 16 | 0,192 |
| **35** | PV401025035 | 92,5 | 87,5 | 50 | 16 | 0,172 |
| **36** | PV401025036 | 95 | 90 | 50 | 18 | 0,181 |
| **37** | PV401025037 | 97,5 | 92,5 | 50 | 18 | 0,196 |
| **38** | PV401025038 | 100 | 95 | 50 | 18 | 0,204 |
| **39** | PV401025039 | 102,5 | 97,5 | 50 | 18 | 0,217 |
| **40** | PV401025040 | 105 | 100 | 50 | 18 | 0,233 |
| **42** | PV401025042 | 110 | 102,5 | 60 | 18 | 0,260 |
| **43** | PV401025043 | 112,5 | 105 | 60 | 18 | 0,266 |
| **45** | PV401025045 | 117,5 | 112,5 | 60 | 18 | 0,298 |
| **50** | PV401025050 | 130 | 125 | 60 | 20 | 0,299 |
| **55** | PV401025055 | 142,5 | 137,5 | 60 | 20 | 0,377 |
| **60** | PV401025060 | 155 | 150 | 60 | 20 | 0,431 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|

## MODUL 3
Eingriffswinkel **20°**

| A | B |
|---|---|
| 45 | 30 |



**Werkstoff: NYLON PA6+FV**

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|
| **12** | PV401030012 | 42 | 36 | 25 | 12 | 0,043 |
| **13** | PV401030013 | 45 | 39 | 28 | 12 | 0,053 |
| **14** | PV401030014 | 48 | 42 | 30 | 12 | 0,061 |
| **15** | PV401030015 | 51 | 45 | 30 | 12 | 0,070 |
| **16** | PV401030016 | 54 | 48 | 35 | 12 | 0,082 |
| **17** | PV401030017 | 57 | 51 | 40 | 12 | 0,098 |
| **18** | PV401030018 | 60 | 54 | 40 | 12 | 0,109 |
| **19** | PV401030019 | 63 | 57 | 40 | 12 | 0,117 |
| **20** | PV401030020 | 66 | 60 | 45 | 16 | 0,135 |
| **21** | PV401030021 | 69 | 63 | 45 | 16 | 0,142 |
| **22** | PV401030022 | 72 | 66 | 45 | 16 | 0,156 |
| **23** | PV401030023 | 75 | 69 | 45 | 16 | 0,169 |
| **24** | PV401030024 | 78 | 72 | 45 | 16 | 0,180 |
| **25** | PV401030025 | 81 | 75 | 45 | 16 | 0,175 |
| **26** | PV401030026 | 84 | 78 | 45 | 16 | 0,205 |
| **27** | PV401030027 | 87 | 81 | 45 | 16 | 2,236 |
| **28** | PV401030028 | 90 | 84 | 50 | 16 | 0,207 |
| **29** | PV401030029 | 93 | 87 | 50 | 16 | 0,220 |
| **30** | PV401030030 | 96 | 90 | 50 | 16 | 0,236 |
| **31** | PV401030031 | 99 | 93 | 50 | 16 | 0,250 |
| **32** | PV401030032 | 102 | 96 | 50 | 16 | 0,243 |
| **34** | PV401030034 | 108 | 102 | 50 | 16 | 0,294 |
| **35** | PV401030035 | 111 | 105 | 60 | 20 | 0,315 |
| **36** | PV401030036 | 114 | 108 | 60 | 20 | 0,332 |
| **37** | PV401030037 | 117 | 111 | 60 | 20 | 0,354 |
| **38** | PV401030038 | 120 | 114 | 60 | 20 | 0,373 |
| **39** | PV401030039 | 123 | 117 | 60 | 20 | 0,394 |
| **40** | PV401030040 | 126 | 120 | 60 | 20 | 0,322 |
| **41** | PV401030041 | 129 | 123 | 60 | 20 | 0,341 |
| **42** | PV401030042 | 132 | 126 | 60 | 20 | 0,365 |
| **43** | PV401030043 | 135 | 129 | 60 | 20 | 0,396 |
| **44** | PV401030044 | 138 | 132 | 60 | 20 | 0,407 |
| **45** | PV401030045 | 141 | 135 | 60 | 20 | 0,434 |
| **46** | PV401030046 | 144 | 138 | 60 | 20 | 0,468 |
| **47** | PV401030047 | 147 | 141 | 60 | 20 | 0,487 |
| **48** | PV401030048 | 150 | 144 | 60 | 20 | 0,514 |
| **49** | PV401030049 | 153 | 147 | 60 | 20 | 0,540 |
| **50** | PV401030050 | 156 | 150 | 60 | 20 | 0,400 |
| **55** | PV401030055 | 171 | 165 | 60 | 20 | 0,534 |
| **60** | PV401030060 | 186 | 180 | 60 | 20 | 0,539 |

| Z | Artikelnr. | de | dp | dm | D1 | kg |
|---|---|---|---|---|---|---|