# Ozubené kolesá

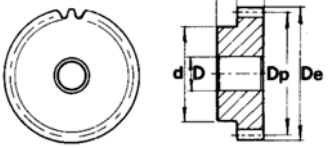
## Ozubené kolesá s priamym ozubením s nábojom PM

Materiál: oceľ C45E
Uhol záberu 20°



Šírka zubu " h " :
Modul:
1 = 15 [mm]
1,5 = 17 [mm]
2 = 20 [mm]
2,5 = 25 [mm]
3 = 30 [mm]
4 = 40 [mm]
5 = 50 [mm]
6 = 60 [mm]

Celková výška " H " :
Modul:
1 = 25 [mm]
1,5 = 30 [mm]
2 = 35 [mm]
2,5 = 40[mm]
3 = 50 [mm]
4 = 60 [mm]
5 = 75 [mm]
6 = 80 [mm]




| Z | Modul 1 | | | | | Modul 1,5 | | | | | Modul 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Typ | $D_e$ | $D_p$ | d | D | Typ | $D_e$ | $D_p$ | d | D | Typ | $D_e$ | $D_p$ | d | D |
| **12** | PM 26012 | 14 | 12 | 9 | 4 | PM 27012 | 21.0 | 18.0 | 14 | 8 | PM 28012 | 28 | 24 | 18 | 10 |
| **13** | PM 26013 | 15 | 13 | 10 | 4 | PM 27013 | 22.5 | 19.5 | 15 | 8 | PM 28013 | 30 | 26 | 20 | 10 |
| **14** | PM 26014 | 16 | 14 | 11 | 4 | PM 27014 | 24.0 | 21.0 | 17 | 8 | PM 28014 | 32 | 28 | 22 | 10 |
| **15** | PM 26015 | 17 | 15 | 12 | 4 | PM 27015 | 25.5 | 22.5 | 18 | 8 | PM 28015 | 34 | 30 | 24 | 10 |
| **16** | PM 26016 | 18 | 16 | 13 | 4 | PM 27016 | 27.0 | 24.0 | 20 | 8 | PM 28016 | 36 | 32 | 25 | 10 |
| **17** | PM 26017 | 19 | 17 | 14 | 8 | PM 27017 | 28.5 | 25.5 | 20 | 8 | PM 28017 | 38 | 34 | 25 | 10 |
| **18** | PM 26018 | 20 | 18 | 15 | 8 | PM 27018 | 30.0 | 27.0 | 20 | 8 | PM 28018 | 40 | 36 | 25 | 10 |
| **19** | PM 26019 | 21 | 19 | 15 | 8 | PM 27019 | 31.5 | 28.5 | 20 | 8 | PM 28019 | 42 | 38 | 25 | 10 |
| **20** | PM 26020 | 22 | 20 | 16 | 8 | PM 27020 | 33.0 | 30.0 | 25 | 8 | PM 28020 | 44 | 40 | 30 | 10 |
| **21** | PM 26021 | 23 | 21 | 16 | 8 | PM 27021 | 34.5 | 31.5 | 25 | 10 | PM 28021 | 46 | 42 | 30 | 12 |
| **22** | PM 26022 | 24 | 22 | 16 | 8 | PM 27022 | 36.0 | 33.0 | 25 | 10 | PM 28022 | 48 | 44 | 30 | 12 |
| **23** | PM 26023 | 25 | 23 | 18 | 8 | PM 27023 | 37.5 | 34.5 | 25 | 10 | PM 28023 | 50 | 46 | 30 | 12 |
| **24** | PM 26024 | 26 | 24 | 20 | 10 | PM 27024 | 39.0 | 36.0 | 25 | 10 | PM 28024 | 52 | 48 | 35 | 12 |
| **25** | PM 26025 | 27 | 25 | 20 | 10 | PM 27025 | 40.5 | 37.5 | 25 | 10 | PM 28025 | 54 | 50 | 35 | 12 |
| **26** | PM 26026 | 28 | 26 | 20 | 10 | PM 27026 | 42.0 | 39.0 | 30 | 12 | PM 28026 | 56 | 52 | 40 | 12 |
| **27** | PM 26027 | 29 | 27 | 20 | 10 | PM 27027 | 43.5 | 40.5 | 30 | 12 | PM 28027 | 58 | 54 | 40 | 12 |
| **28** | PM 26028 | 30 | 28 | 20 | 10 | PM 27028 | 45.0 | 42.0 | 30 | 12 | PM 28028 | 60 | 56 | 40 | 12 |
| **29** | PM 26029 | 31 | 29 | 20 | 10 | PM 27029 | 46.5 | 43.5 | 30 | 12 | PM 28029 | 62 | 58 | 40 | 14 |
| **30** | PM 26030 | 32 | 30 | 20 | 10 | PM 27030 | 48.0 | 45.0 | 30 | 12 | PM 28030 | 64 | 60 | 40 | 14 |
| **31** | PM 26031 | 33 | 31 | 25 | 10 | PM 27031 | 49.5 | 46.5 | 35 | 12 | PM 28031 | 66 | 62 | 45 | 14 |
| **32** | PM 26032 | 34 | 32 | 25 | 10 | PM 27032 | 51.0 | 48.0 | 35 | 12 | PM 28032 | 68 | 64 | 45 | 14 |
| **33** | PM 26033 | 35 | 33 | 25 | 10 | PM 27033 | 52.5 | 49.5 | 35 | 12 | PM 28033 | 70 | 66 | 45 | 14 |
| **34** | PM 26034 | 36 | 34 | 25 | 10 | PM 27034 | 54.0 | 51.0 | 35 | 12 | PM 28034 | 72 | 68 | 45 | 14 |
| **35** | PM 26035 | 37 | 35 | 25 | 10 | PM 27035 | 55.5 | 52.5 | 35 | 12 | PM 28035 | 74 | 70 | 45 | 14 |
| **36** | PM 26036 | 38 | 36 | 25 | 10 | PM 27036 | 57.0 | 54.0 | 35 | 12 | PM 28036 | 76 | 72 | 45 | 14 |
| **37** | PM 26037 | 39 | 37 | 25 | 10 | PM 27037 | 58.5 | 55.5 | 40 | 12 | PM 28037 | 78 | 74 | 50 | 14 |
| **38** | PM 26038 | 40 | 38 | 25 | 10 | PM 27038 | 60.0 | 57.0 | 40 | 12 | PM 28038 | 80 | 76 | 50 | 14 |
| **39** | PM 26039 | 41 | 39 | 25 | 10 | PM 27039 | 61.5 | 58.5 | 40 | 12 | PM 28039 | 82 | 78 | 50 | 14 |
| **40** | PM 26040 | 42 | 40 | 25 | 10 | PM 27040 | 63.0 | 60.0 | 40 | 12 | PM 28040 | 84 | 80 | 50 | 14 |
| **41** | PM 26041 | 43 | 41 | 30 | 10 | PM 27041 | 64.5 | 61.5 | 40 | 12 | PM 28041 | 86 | 82 | 55 | 16 |
| **42** | PM 26042 | 44 | 42 | 30 | 10 | PM 27042 | 66.0 | 63.0 | 50 | 12 | PM 28042 | 88 | 84 | 55 | 16 |
| **43** | PM 26043 | 45 | 43 | 30 | 10 | PM 27043 | 67.5 | 64.5 | 50 | 12 | PM 28043 | 90 | 86 | 55 | 16 |
| **44** | PM 26044 | 46 | 44 | 30 | 10 | PM 27044 | 69.0 | 66.0 | 50 | 12 | PM 28044 | 92 | 88 | 60 | 16 |
| **45** | PM 26045 | 47 | 45 | 30 | 10 | PM 27045 | 70.5 | 67.5 | 50 | 12 | PM 28045 | 94 | 90 | 60 | 16 |
| **46** | PM 26046 | 48 | 46 | 30 | 10 | PM 27046 | 72.0 | 69.0 | 50 | 14 | PM 28046 | 96 | 92 | 60 | 16 |
| **47** | PM 26047 | 49 | 47 | 30 | 10 | PM 27047 | 73.5 | 70.5 | 50 | 14 | PM 28047 | 98 | 94 | 70 | 16 |
| **48** | PM 26048 | 50 | 48 | 30 | 10 | PM 27048 | 75.0 | 72.0 | 50 | 14 | PM 28048 | 100 | 96 | 70 | 16 |
| **49** | PM 26049 | 51 | 49 | 30 | 10 | PM 27049 | 76.5 | 73.5 | 50 | 14 | PM 28049 | 102 | 98 | 70 | 16 |
| **50** | PM 26050 | 52 | 50 | 30 | 12 | PM 27050 | 78.0 | 75.0 | 50 | 14 | PM 28050 | 104 | 100 | 70 | 16 |
| **51** | PM 26051 | 53 | 51 | 40 | 12 | PM 27051 | 79.5 | 76.5 | 60 | 14 | PM 28051 | 106 | 102 | 70 | 16 |
| **52** | PM 26052 | 54 | 52 | 40 | 12 | PM 27052 | 81.0 | 78.0 | 60 | 14 | PM 28052 | 108 | 104 | 70 | 16 |
| **53** | PM 26053 | 55 | 53 | 40 | 12 | PM 27053 | 82.5 | 79.5 | 60 | 14 | PM 28053 | 110 | 106 | 70 | 16 |
| **54** | PM 26054 | 56 | 54 | 40 | 12 | PM 27054 | 84.0 | 81.0 | 60 | 14 | PM 28054 | 112 | 108 | 70 | 16 |
| **55** | PM 26055 | 57 | 55 | 40 | 12 | PM 27055 | 85.5 | 82.5 | 60 | 14 | PM 28055 | 114 | 110 | 70 | 16 |
| **56** | PM 26056 | 58 | 56 | 40 | 12 | PM 27056 | 87.0 | 84.0 | 60 | 16 | PM 28056 | 116 | 112 | 70 | 16 |
| **57** | PM 26057 | 59 | 57 | 40 | 12 | PM 27057 | 88.5 | 85.5 | 60 | 16 | PM 28057 | 118 | 114 | 70 | 16 |
| **58** | PM 26058 | 60 | 58 | 40 | 12 | PM 27058 | 90.0 | 87.0 | 60 | 16 | PM 28058 | 120 | 116 | 70 | 16 |
| **59** | PM 26059 | 61 | 59 | 40 | 12 | PM 27059 | 91.5 | 88.5 | 60 | 16 | PM 28059 | 122 | 118 | 70 | 16 |
| **60** | PM 26060 | 62 | 60 | 40 | 12 | PM 27060 | 93.0 | 90.0 | 60 | 16 | PM 28060 | 124 | 120 | 70 | 16 |
| **61** | PM 26061 | 63 | 61 | 50 | 12 | PM 27061 | 94.5 | 91.5 | 70 | 16 | PM 28061 | 126 | 122 | 80 | 16 |
| **62** | PM 26062 | 64 | 62 | 50 | 12 | PM 27062 | 96.0 | 93.0 | 70 | 16 | PM 28062 | 128 | 124 | 80 | 16 |
| **63** | PM 26063 | 65 | 63 | 50 | 12 | PM 27063 | 97.5 | 94.5 | 70 | 16 | PM 28063 | 130 | 126 | 80 | 16 |
| **64** | PM 26064 | 66 | 64 | 50 | 12 | PM 27064 | 99.0 | 96.0 | 70 | 16 | PM 28064 | 132 | 128 | 80 | 16 |
| **65** | PM 26065 | 67 | 65 | 50 | 12 | PM 27065 | 100.5 | 97.5 | 70 | 16 | PM 28065 | 134 | 130 | 80 | 16 |
| **66** | PM 26066 | 68 | 66 | 50 | 12 | PM 27066 | 102.0 | 99.0 | 70 | 16 | PM 28066 | 136 | 132 | 80 | 16 |
| **67** | PM 26067 | 69 | 67 | 50 | 12 | PM 27067 | 103.5 | 100.5 | 70 | 16 | PM 28067 | 138 | 134 | 80 | 16 |
| **68** | PM 26068 | 70 | 68 | 50 | 12 | PM 27068 | 105.0 | 102.0 | 70 | 16 | PM 28068 | 140 | 136 | 80 | 16 |
| **69** | PM 26069 | 71 | 69 | 50 | 12 | PM 27069 | 106.5 | 103.5 | 70 | 16 | PM 28069 | 142 | 138 | 80 | 16 |
| **70** | PM 26070 | 72 | 70 | 50 | 12 | PM 27070 | 108.0 | 105.0 | 70 | 16 | PM 28070 | 144 | 140 | 80 | 16 |

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# Ozubené kolesá

## Ozubené kolesá s priamym ozubením s nábojom PM

Materiál: oceľ C45E
Uhol záberu 20°



| Z | Modul 2,5 | | | | | Modul 3 | | | | | Modul 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Typ | $D_e$ | $D_p$ | d | D | Typ | $D_e$ | $D_p$ | d | D | Typ | $D_e$ | $D_p$ | d | D |
| **12** | PM 29012 | 35.0 | 30.0 | 22 | 10 | PM 30012 | 42 | 36 | 27 | 12 | PM 31012 | 56 | 48 | 35 | 14 |
| **13** | PM 29013 | 37.5 | 32.5 | 25 | 10 | PM 30013 | 45 | 39 | 30 | 12 | PM 31013 | 60 | 52 | 40 | 14 |
| **14** | PM 29014 | 40.0 | 35.0 | 28 | 10 | PM 30014 | 48 | 42 | 33 | 12 | PM 31014 | 64 | 56 | 45 | 14 |
| **15** | PM 29015 | 42.5 | 37.5 | 30 | 10 | PM 30015 | 51 | 45 | 35 | 12 | PM 31015 | 68 | 60 | 45 | 14 |
| **16** | PM 29016 | 45.0 | 40.0 | 32 | 12 | PM 30016 | 54 | 48 | 38 | 14 | PM 31016 | 72 | 64 | 50 | 16 |
| **17** | PM 29017 | 47.5 | 42.5 | 35 | 12 | PM 30017 | 57 | 51 | 42 | 14 | PM 31017 | 76 | 68 | 50 | 16 |
| **18** | PM 29018 | 50.0 | 45.0 | 35 | 12 | PM 30018 | 60 | 54 | 45 | 14 | PM 31018 | 80 | 72 | 50 | 16 |
| **19** | PM 29019 | 52.5 | 47.5 | 35 | 12 | PM 30019 | 63 | 57 | 45 | 14 | PM 31019 | 84 | 76 | 60 | 16 |
| **20** | PM 29020 | 55.0 | 50.0 | 40 | 12 | PM 30020 | 66 | 60 | 45 | 14 | PM 31020 | 88 | 80 | 60 | 16 |
| **21** | PM 29021 | 57.5 | 52.5 | 40 | 14 | PM 30021 | 69 | 63 | 45 | 16 | PM 31021 | 92 | 84 | 70 | 16 |
| **22** | PM 29022 | 60.0 | 55.0 | 45 | 14 | PM 30022 | 72 | 66 | 50 | 16 | PM 31022 | 96 | 88 | 70 | 16 |
| **23** | PM 29023 | 62.5 | 57.5 | 45 | 14 | PM 30023 | 75 | 69 | 50 | 16 | PM 31023 | 100 | 92 | 75 | 20 |
| **24** | PM 29024 | 65.0 | 60.0 | 45 | 14 | PM 30024 | 78 | 72 | 50 | 16 | PM 31024 | 104 | 96 | 75 | 20 |
| **25** | PM 29025 | 67.5 | 62.5 | 50 | 14 | PM 30025 | 81 | 75 | 60 | 16 | PM 31025 | 108 | 100 | 75 | 20 |
| **26** | PM 29026 | 70.0 | 65.0 | 50 | 14 | PM 30026 | 84 | 78 | 60 | 16 | PM 31026 | 112 | 104 | 75 | 20 |
| **27** | PM 29027 | 72.5 | 67.5 | 50 | 14 | PM 30027 | 87 | 81 | 60 | 16 | PM 31027 | 116 | 108 | 75 | 20 |
| **28** | PM 29028 | 75.0 | 70.0 | 50 | 14 | PM 30028 | 90 | 84 | 60 | 16 | PM 31028 | 120 | 112 | 75 | 20 |
| **29** | PM 29029 | 77.5 | 72.5 | 50 | 14 | PM 30029 | 93 | 87 | 60 | 16 | PM 31029 | 124 | 116 | 75 | 20 |
| **30** | PM 29030 | 80.0 | 75.0 | 55 | 14 | PM 30030 | 96 | 90 | 60 | 16 | PM 31030 | 128 | 120 | 75 | 20 |
| **31** | PM 29031 | 82.5 | 77.5 | 55 | 16 | PM 30031 | 99 | 93 | 60 | 16 | PM 31031 | 132 | 124 | 80 | 20 |
| **32** | PM 29032 | 85.0 | 80.0 | 55 | 16 | PM 30032 | 102 | 96 | 70 | 16 | PM 31032 | 136 | 128 | 80 | 20 |
| **33** | PM 29033 | 87.5 | 82.5 | 55 | 16 | PM 30033 | 105 | 99 | 70 | 16 | PM 31033 | 140 | 132 | 80 | 20 |
| **34** | PM 29034 | 90.0 | 85.0 | 55 | 16 | PM 30034 | 108 | 102 | 70 | 16 | PM 31034 | 144 | 136 | 80 | 20 |
| **35** | PM 29035 | 92.5 | 87.5 | 60 | 16 | PM 30035 | 111 | 105 | 70 | 16 | PM 31035 | 148 | 140 | 80 | 20 |
| **36** | PM 29036 | 95.0 | 90.0 | 60 | 16 | PM 30036 | 114 | 108 | 70 | 20 | PM 31036 | 152 | 144 | 80 | 25 |
| **37** | PM 29037 | 97.5 | 92.5 | 60 | 16 | PM 30037 | 117 | 111 | 70 | 20 | | | | | |
| **38** | PM 29038 | 100.0 | 95.0 | 60 | 16 | PM 30038 | 120 | 114 | 80 | 20 | | | | | |
| **39** | PM 29039 | 102.5 | 97.5 | 60 | 16 | PM 30039 | 123 | 117 | 80 | 20 | | | | | |
| **40** | PM 29040 | 105.0 | 100.0 | 70 | 16 | PM 30040 | 126 | 120 | 80 | 20 | | | | | |
| **41** | PM 29041 | 107.5 | 102.5 | 70 | 16 | PM 30041 | 129 | 123 | 80 | 20 | | | | | |
| **42** | PM 29042 | 110.0 | 105.0 | 70 | 16 | PM 30042 | 132 | 126 | 80 | 20 | | | | | |
| **43** | PM 29043 | 112.5 | 107.5 | 70 | 16 | PM 30043 | 135 | 129 | 80 | 20 | | | | | |
| **44** | PM 29044 | 115.0 | 110.0 | 70 | 16 | PM 30044 | 138 | 132 | 90 | 20 | | | | | |
| **45** | PM 29045 | 117.5 | 112.5 | 70 | 16 | PM 30045 | 141 | 135 | 90 | 20 | | | | | |
| **46** | PM 29046 | 120.0 | 115.0 | 70 | 20 | PM 30046 | 144 | 138 | 90 | 20 | | | | | |
| **47** | PM 29047 | 122.5 | 117.5 | 80 | 20 | PM 30047 | 147 | 141 | 100 | 20 | | | | | |
| **48** | PM 29048 | 125.0 | 120.0 | 80 | 20 | PM 30048 | 150 | 144 | 100 | 20 | | | | | |
| **49** | PM 29049 | 127.5 | 122.5 | 80 | 20 | | | | | | | | | | |
| **50** | PM 29050 | 130.0 | 125.0 | 80 | 20 | | | | | | | | | | |
| **51** | PM 29051 | 132.5 | 127.5 | 80 | 20 | | | | | | | | | | |
| **52** | PM 29052 | 135.0 | 130.0 | 90 | 20 | | | | | | | | | | |
| **53** | PM 29053 | 137.5 | 132.5 | 90 | 20 | | | | | | | | | | |
| **54** | PM 29054 | 140.0 | 135.0 | 90 | 20 | | | | | | | | | | |
| **55** | PM 29055 | 142.5 | 137.5 | 90 | 20 | | | | | | | | | | |
| **56** | PM 29056 | 145.0 | 140.0 | 100 | 20 | | | | | | | | | | |
| **57** | PM 29057 | 147.5 | 142.5 | 100 | 20 | | | | | | | | | | |
| **58** | PM 29058 | 150.0 | 145.0 | 100 | 20 | | | | | | | | | | |
| **59** | PM 29059 | 152.5 | 147.5 | 100 | 20 | | | | | | | | | | |
| **60** | PM 29060 | 155.0 | 150.0 | 100 | 20 | | | | | | | | | | |

| Z | Modul 5 | | | | | Modul 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Typ | $D_e$ | $D_p$ | d | D | Typ | $D_e$ | $D_p$ | d | D |
| **12** | PM 32012 | 70 | 60 | 45 | 16 | PM 34012 | 84 | 72 | 54 | 20 |
| **13** | PM 32013 | 75 | 65 | 50 | 16 | PM 34013 | 90 | 78 | 60 | 20 |
| **14** | PM 32014 | 80 | 70 | 55 | 20 | | | | | |
| **15** | PM 32015 | 85 | 75 | 60 | 20 | PM 34015 | 102 | 90 | 70 | 20 |
| **16** | PM 32016 | 90 | 80 | 65 | 20 | PM 34016 | 108 | 96 | 75 | 20 |
| **17** | PM 32017 | 95 | 85 | 70 | 20 | | | | | |
| **18** | PM 32018 | 100 | 90 | 70 | 20 | PM 34018 | 120 | 108 | 80 | 20 |
| **19** | PM 32019 | 105 | 95 | 70 | 20 | | | | | |
| **20** | PM 32020 | 110 | 100 | 80 | 20 | PM 34020 | 132 | 120 | 90 | 20 |
| **21** | PM 32021 | 115 | 105 | 80 | 20 | | | | | |
| **22** | PM 32022 | 120 | 110 | 80 | 20 | | | | | |
| **23** | PM 32023 | 125 | 115 | 90 | 20 | | | | | |
| **24** | PM 32024 | 130 | 120 | 90 | 20 | PM 34024 | 156 | 144 | 110 | 25 |
| **25** | PM 32025 | 135 | 125 | 90 | 20 | PM 34025 | 162 | 150 | 110 | 25 |
| **26** | PM 32026 | 140 | 130 | 100 | 20 | | | | | |
| **27** | PM 32027 | 145 | 135 | 100 | 20 | | | | | |
| **28** | PM 32028 | 150 | 140 | 100 | 25 | | | | | |
| **29** | PM 32029 | 155 | 145 | 110 | 25 | | | | | |
| **30** | PM 32030 | 160 | 150 | 110 | 25 | | | | | |

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