

OZUBENÉ KOLEŠÁ

s nábojom

MARO SLOVAKIA spol. s r.o.

www.retaz.sk

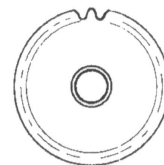
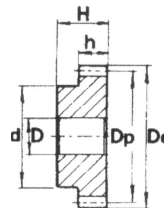


Modul: 1.0 / 1.5 / 2.0

šírka ozubenia modulu:

šírka náboja modulu:

1,0	15 mm	1,0	25 mm
1,5	17 mm	1,5	30 mm
2,0	20 mm	2,0	35 mm
2,5	25 mm	2,5	40 mm
3,0	30 mm	3,0	50 mm
4,0	40 mm	4,0	60 mm
5,0	50 mm	5,0	75 mm
6,0	60 mm	6,0	80 mm



počet zubov	Modul 1.0				Modul 1.5				Modul 2.0			
	De	Dp	d	D	De	Dp	d	D	De	Dp	d	D
12	14,0	12,0	9	4	21,0	18,0	14	8	28	24	18	10
13	15,0	13,0	10	4	22,5	19,5	15	8	30	26	20	10
14	16,0	14,0	11	4	24,0	21,0	17	8	32	28	22	10
15	17,0	15,0	12	4	25,5	22,5	18	8	34	30	24	10
16	18,0	16,0	13	4	27,0	24,0	20	8	36	32	25	10
17	19,0	17,0	14	8	28,5	25,5	20	8	38	34	25	10
18	20,0	18,0	15	8	30,0	27,0	20	8	40	36	25	10
19	21,0	19,0	15	8	31,5	28,5	20	8	42	38	25	10
20	22,0	20,0	16	8	33,0	30,0	25	8	44	40	30	10
21	23,0	21,0	16	8	34,5	31,5	25	10	46	42	30	12
22	24,0	22,0	16	8	36,0	33,0	25	10	48	44	30	12
23	25,0	23,0	18	8	37,5	34,5	25	10	50	46	30	12
24	26,0	24,0	20	10	39,0	36,0	25	10	52	48	35	12
25	27,0	25,0	20	10	40,5	37,5	25	10	54	50	35	12
26	28,0	26,0	20	10	42,0	39,0	30	12	56	52	40	12
27	29,0	27,0	20	10	43,5	40,5	30	12	58	54	40	12
28	30,0	28,0	20	10	45,0	42,0	30	12	60	56	40	12
29	31,0	29,0	20	10	46,5	43,5	30	12	62	58	40	14
30	32,0	30,0	20	10	48,0	45,0	30	12	64	60	40	14
31	33,0	31,0	25	10	49,5	46,5	35	12	66	62	45	14
32	34,0	32,0	25	10	51,0	48,0	35	12	68	64	45	14
33	35,0	33,0	25	10	52,5	49,5	35	12	70	66	45	14
34	36,0	34,0	25	10	54,0	51,0	35	12	72	68	45	14
35	37,0	35,0	25	10	55,5	52,5	35	12	74	70	45	14
36	38,0	36,0	25	10	57,0	54,0	35	12	76	72	45	14
37	39,0	37,0	25	10	58,5	55,5	40	12	78	74	50	14
38	40,0	38,0	25	10	60,0	57,0	40	12	80	76	50	14
39	41,0	39,0	25	10	61,5	58,5	40	12	82	78	50	14
40	42,0	40,0	25	10	63,0	60,0	40	12	84	80	50	14
41	43,0	41,0	30	10	64,5	61,5	40	12	86	82	55	16
42	44,0	42,0	30	10	66,0	63,0	50	12	88	84	55	16
43	45,0	43,0	30	10	67,5	64,5	50	12	90	86	55	16
44	46,0	44,0	30	10	69,0	66,0	50	12	92	88	60	16
45	47,0	45,0	30	10	70,5	67,5	50	12	94	90	60	16
46	48,0	46,0	30	10	72,0	69,0	50	14	96	92	60	16
47	49,0	47,0	30	10	73,5	70,5	50	14	98	94	70	16
48	50,0	48,0	30	10	75,0	72,0	50	14	100	96	70	16
49	51,0	49,0	30	10	76,5	73,5	50	14	102	98	70	16
50	52,0	50,0	30	12	78,0	75,0	50	14	104	100	70	16
51	53,0	51,0	40	12	79,5	76,5	60	14	106	102	70	16
52	54,0	52,0	40	12	81,0	78,0	60	14	108	104	70	16
53	55,0	53,0	40	12	82,5	79,5	60	14	110	106	70	16
54	56,0	54,0	40	12	84,0	81,0	60	14	112	108	70	16
55	57,0	55,0	40	12	85,5	82,5	60	14	114	110	70	16
56	58,0	56,0	40	12	87,0	84,0	60	16	116	112	70	16
57	59,0	57,0	40	12	88,5	85,5	60	16	118	114	70	16
58	60,0	58,0	40	12	90,0	87,0	60	16	120	116	70	16
59	61,0	59,0	40	12	91,5	88,5	60	16	122	118	70	16
60	62,0	60,0	40	12	93,0	90,0	60	16	124	120	70	16
61	63,0	61,0	50	12	94,5	91,5	70	16	126	122	80	16
62	64,0	62,0	50	12	96,0	93,0	70	16	128	124	80	16
63	65,0	63,0	50	12	97,5	94,5	70	16	130	126	80	16
64	66,0	64,0	50	12	99,0	96,0	70	16	132	128	80	16
65	67,0	65,0	50	12	100,5	97,5	70	16	134	130	80	16
66	68,0	66,0	50	12	102,0	99,0	70	16	136	132	80	16
67	69,0	67,0	50	12	103,5	100,5	70	16	138	134	80	16
68	70,0	68,0	50	12	105,0	102,0	70	16	140	136	80	16
69	71,0	69,0	50	12	106,5	103,5	70	16	142	138	80	16
70	72,0	70,0	50	12	108,0	105,0	70	16	144	140	80	16



Modul: 2.5 / 3.0 / 4.0 / 5.0 / 6.0

počet zubov	Modul 2.5				Modul 3.0				Modul 4.0			
	De	Dp	d	D	De	Dp	d	D	De	Dp	d	D
12	35,0	30,0	22	10	42,0	36,0	27	12	56	48	35	14
13	37,5	32,5	25	10	45,0	39,0	30	12	60	52	40	14
14	40,0	35,0	28	10	48,0	42,0	33	12	64	56	45	14
15	42,5	37,5	30	10	51,0	45,0	35	12	68	60	45	14
16	45,0	40,0	32	12	54,0	48,0	38	14	72	64	50	16
17	47,5	42,5	35	12	57,0	51,0	42	14	76	68	50	16
18	50,0	45,0	35	12	60,0	54,0	45	14	80	72	50	16
19	52,5	47,5	35	12	63,0	57,0	45	14	84	76	60	16
20	55,0	50,0	40	12	66,0	60,0	45	14	88	80	60	16
21	57,5	52,5	40	14	69,0	63,0	45	16	92	84	70	16
22	60,0	55,0	45	14	72,0	66,0	50	16	96	88	70	16
23	62,5	57,5	45	14	75,0	69,0	50	16	100	92	75	20
24	65,0	60,0	45	14	78,0	72,0	50	16	104	96	75	20
25	67,5	62,5	50	14	81,0	75,0	60	16	108	100	75	20
26	70,0	65,0	50	14	84,0	78,0	60	16	112	104	75	20
27	72,5	67,5	50	14	87,0	81,0	60	16	116	108	75	20
28	75,0	70,0	50	14	90,0	84,0	60	16	120	112	75	20
29	77,5	72,5	50	14	93,0	87,0	60	16	124	116	75	20
30	80,0	75,0	55	14	96,0	90,0	60	16	128	120	75	20
31	82,5	77,5	55	16	99,0	93,0	60	16	132	124	80	20
32	85,0	80,0	55	16	102,0	96,0	70	16	136	128	80	20
33	87,5	82,5	55	16	105,0	99,0	70	16	140	132	80	20
34	90,0	85,0	55	16	108,0	102,0	70	16	144	136	80	20
35	92,5	87,5	60	16	111,0	105,0	70	16	148	140	80	20
36	95,0	90,0	60	16	114,0	108,0	70	20	152	144	80	25
37	97,5	92,5	60	16	117,0	111,0	70	20				
38	100,0	95,0	60	16	120,0	114,0	80	20				
39	102,5	97,5	60	16	123,0	117,0	80	20				
40	105,0	100,0	70	16	126,0	120,0	80	20				
41	107,5	102,5	70	16	129,0	123,0	80	20				
42	110,0	105,0	70	16	132,0	126,0	80	20				
43	112,5	107,5	70	16	135,0	129,0	80	20				
44	115,0	110,0	70	16	138,0	132,0	90	20				
45	117,5	112,5	70	16	141,0	135,0	90	20				
46	120,0	115,0	70	20	144,0	138,0	90	20				
47	122,5	117,5	80	20	147,0	141,0	100	20				
48	125,0	120,0	80	20	150,0	144,0	100	20				
49	127,5	122,5	80	20								
50	130,0	125,0	80	20								
51	132,5	127,5	80	20								
52	135,0	130,0	90	20								
53	137,5	132,5	90	20								
54	140,0	135,0	90	20								
55	142,5	137,5	90	20								
56	145,0	140,0	100	20								
57	147,5	142,5	100	20								
58	150,0	145,0	100	20								
59	152,5	147,5	100	20								
60	155,0	150,0	100	20								

počet zubov	Modul 5.0				Modul 6.0			
	De	Dp	d	D	De	Dp	d	D
12	70,0	60,0	45	16	84,0	72,0	54	20
13	75,0	65,0	50	16	90,0	78,0	60	20
14	80,0	70,0	55	20				
15	85,0	75,0	60	20	102,0	90,0	70	20
16	90,0	80,0	65	20	108,0	96,0	75	20
17	95,0	85,0	70	20				
18	100,0	90,0	70	20	120,0	108,0	80	20
19	105,0	95,0	70	20				
20	110,0	100,0	80	20	132,0	120,0	90	20
21	115,0	105,0	80	20				
22	120,0	110,0	80	20				
23	125,0	115,0	90	20				
24	130,0	120,0	90	20	156,0	144,0	110	25
25	135,0	125,0	90	20	162,0	150,0	110	25
26	140,0	130,0	100	20				
27	145,0	135,0	100	20				
28	150,0	140,0	100	25				
29	155,0	145,0	110	25				
30	160,0	150,0	110	25				



OZUBENÉ KOLEŠÁ

bez náboja

MARO SLOVAKIA spol. s r.o.

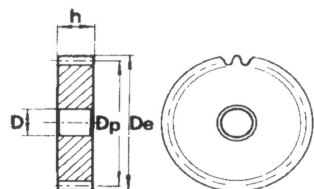
www.retaz.sk



Modul: 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0

počet zubov	Modul 1.0				Modul 1.5				Modul 2.0			
	De	Dp	d	D	De	Dp	d	D	De	Dp	d	D
72	74,0	72,0		12	111,0	108,0		16	148	144		16
75	77,0	75,0		12	115,5	112,5		16	154	150		20
76	78,0	76,0		12	117,0	114,0		16	156	152		20
80	82,0	80,0		12	123,0	120,0		16	164	160		20
85	87,0	85,0		12	130,5	127,5		16	174	170		20
90	92,0	90,0		12	138,0	135,0		16	184	180		20
95	97,0	95,0		12	145,5	142,5		16	194	190		20
100	102,0	100,0		12	153,0	150,0		16	204	200		20
110	112,0	110,0		12	168,0	165,0		16	224	220		20
114	116,0	114,0		12	174,0	171,0		16	232	228		20
120	122,0	120,0		12	183,0	180,0		16	244	240		20
127	129,0	127,0		12	193,5	190,5		16	258	254		20

počet zubov	Modul 2.5				Modul 3.0				Modul 4.0			
	De	Dp	d	D	De	Dp	d	D	De	Dp	d	D
38									160	152		25
40									168	160		25
45									188	180		25
48									200	192		25
50									208	200		25
52					156,0	150,0		20	216	208		25
55					171,0	165,0		20	228	220		25
57					177,0	171,0		20	236	228		25
60					186,0	180,0		20	248	240		25
65	167,5	162,5		20	201,0	195,0		20	268	260		25
70	180,0	175,0		20	216,0	210,0		25	288	280		25
72	185,0	180,0		20	222,0	216,0		25				
75	192,5	187,5		20	231,0	225,0		25	308	300		25
76	195,0	190,0		20	234,0	228,0		25	312	304		25
80	205,0	200,0		25	246,0	240,0		25	328	320		25
85	217,5	212,5		25	261,0	255,0		25	348	340		25
90	230,0	225,0		25	276,0	270,0		25	368	360		25
95	242,5	237,5		25	291,0	285,0		25	388	380		25
100	255,0	250,0		25	306,0	300,0		25	408	400		25
110	280,0	275,0		25	336,0	330,0		25	448	440		25
114	290,0	285,0		25	348,0	342,0		30	464	456		25
120	305,0	300,0		25	366,0	360,0		30				
127	322,5	317,5		25	387,0	381,0		30				



počet zubov	Modul 5.0			
	De	Dp	d	D
32	170,0	160,0		25
35	185,0	175,0		25
38	200,0	190,0		25
40	210,0	200,0		25
45	235,0	225,0		25
48	250,0	240,0		25
50	260,0	250,0		30
52	270,0	260,0		30
55	285,0	275,0		30
57	295,0	285,0		30
60	310,0	300,0		30
65	335,0	325,0		30
70	360,0	350,0		30
75	385,0	375,0		30
76	390,0	380,0		30
80	410,0	400,0		30
85	435,0	425,0		30
90	460,0	450,0		30
95	485,0	475,0		30
100	510,0	500,0		30
110	560,0	550,0		30
114	580,0	570,0		30

počet zubov	Modul 6.0			
	De	Dp	d	D
28	180	168		25
30	192	180		25
32	204	192		25
35	222	210		25
38	240	220		25
40	252	240		25

šírka ozubenia / modulu:

1,0	15 mm
1,5	17 mm
2,0	20 mm
2,5	25 mm
3,0	30 mm
4,0	40 mm
5,0	50 mm
6,0	60 mm

