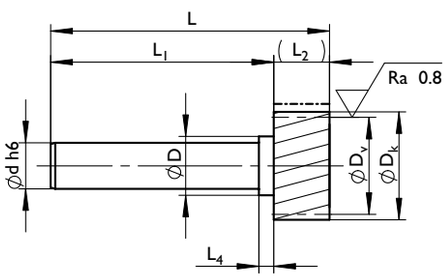
Module

Pinion

Q6

Helical teeth, modular pitch

Hardened and ground



–·–·– hardened

Material
16MnCr5 DIN 1.7131

Teeth
pressure angle α = 20°
helical teeth system left
helix angle ß = 19° 31'42''
hardened (58^{+4}_{0} HRC)
ground, crowned

Quality
6f24 DIN 3962/63/67

Geometrical data

m_n	p_t	z	d	D_k	D_0	D_v	D	L	L_1	L_2	L_4	J	M	Part No.
1.5	5.00	16	12	29.36	25.465	26.365	16.0	90.0	70.0	20	4.5	8	0.14	211116
1.5	5.00	20	20	34.83	31.831	31.831	26.0	110.0	90.0	20	4.5	26	0.34	211120
2	6.66	16	20	39.15	33.953	35.153	26.0	110.0	90.0	20	8.0	36	0.39	211216
2	6.66	20	25	46.44	42.441	42.441	32.0	140.0	120.0	20	8.0	90	0.70	211220
2.5	8.33	20	25	58.05	53.052	53.052	32.0	145.0	120.0	25	8.0	192	0.91	211320
3	10.00	16	25	58.73	50.930	52.730	32.0	150.0	120.0	30	8.0	218	0.99	211416
3	10.00	20	40	69.66	63.662	63.662	50.0	190.0	160.0	30	12.5	726	2.38	211420
4	13.33	20	40	92.88	84.883	84.883	50.0	200.0	160.0	40	18.0	1954	3.43	211520
5	16.66	20	60	116.10	106.103	106.103	85.0	310.0	260.0	50	35.0	8484	9.96	211620
4	13.33	20	60	92.88	84.883	84.883	74.0	310	270.0	40	14.5	4459	7.89	211521
6	20.00	20	90	139.32	127.324	127.324	105.0	350.0	290.0	60	20.0	27500	20.7	211720
8	26.66	20	90	185.77	169.766	169.766	105.0	350.0	270.0	80	35.0	65990	28.2	211820
10	33.33	15	90	185.16	159.155	165.155	105.0	410.0	310.0	100	40.0	66477	31.63	211915

m_n: Normal module, P_t: Transverse pitch [mm], z: Number of teeth, D_0: Pitch circle diameter for calculation, D_v: Pitch circle diameter for design, J: Inertia [10^{-6} kg m^2], M: Weight [kg]