

Z (teeth)	60	60	48	48	36	36	35	35	24	24	14	14	12	12	
Ø (mm)	65	65	52	52	39	39	38	38	27	27	15	15	14	14	
hand	R	L	R	L	R	L	R	L	R	L	R	L	R	L	
part	210f	210g	210d	210e	210	210a	211b	211y	210b	210c	211a	211c	211	211z	
60	65	R	210f	1:1 90° 63,5(H)	1:1 90° 63,5(H)										
60	65	L	210g	1:1 0° 63,5(H)	1:1 90° 63,5(H)										
48	52	R	210d	1,25:1 90° 57,2(M)	1,25:1 0° 57,2(M)	1:1 90° 50,8(H)									
48	52	L	210e	1,25:1 0° 57,2(M)	1,25:1 90° 57,2(M)	1:1 0° 50,8(H)	1:1 90° 50,8(H)								
36	39	R	210	1,67:1 90° 50,8(H)	1,67:1 0° 50,8(H)	1,33:1 90° 44,5(M)	1,33:1 0° 44,5(M)	1:1 90° 38,1(H)							
36	39	L	210a	1,67:1 0° 50,8(H)	1,67:1 90° 50,8(H)	1,33:1 0° 44,5(M)	1,33:1 90° 44,5(M)	1:1 0° 38,1(H)	1:1 90° 38,1(H)						
35	38	R	211b	1,71:1 90° 50,3	1,71:1 0° 50,3	1,37:1 90° 43,9	1,37:1 0° 43,9	1,03:1 90° 37,6	1,03:1 0° 37,6	1:1 90° 37,0					
35	38	L	211y	1,71:1 0° 50,3	1,71:1 90° 50,3	1,37:1 0° 43,9	1,37:1 90° 43,9	1,03:1 0° 37,6	1,03:1 90° 37,6	1:1 0° 37,0	1:1 90° 37,0				
24	27	R	210b	2,5:1 90° 44,5(M)	2,5:1 0° 44,5(M)	2:1 90° 38,1(H)	2:1 0° 38,1(H)	1,5:1 90° 31,8	1,5:1 0° 31,8	0,69:1 90° 31,2	0,69:1 0° 31,2	1:1 90° 25,4(H)			
24	27	L	210c	2,5:1 0° 44,5(M)	2,5:1 90° 44,5(M)	2:1 0° 38,1(H)	2:1 90° 38,1(H)	1,5:1 0° 31,8	1,5:1 90° 31,8	0,69:1 0° 31,2	0,69:1 90° 31,2	1:1 0° 25,4(H)	1:1 90° 25,4(H)		
14	15	R	211a	4,29:1 90° 39,2	4,29:1 0° 39,2	3,43:1 90° 32,8	3,43:1 0° 32,8	2,57:1 90° 26,5	2,57:1 0° 26,5	0,40:1 90° 25,9	0,40:1 0° 25,9	1,71:1 90° 20,1	1,71:1 0° 20,1	1:1 90° 14,8	
14	15	L	211c	4,29:1 0° 39,2	4,29:1 90° 39,2	3,43:1 0° 32,8	3,43:1 90° 32,8	2,57:1 0° 26,5	2,57:1 90° 26,5	0,40:1 0° 25,9	0,40:1 90° 25,9	1,71:1 0° 20,1	1,71:1 90° 20,1	1:1 0° 14,8	1:1 90° 14,8
12	14	R	211	5:1 90° 38,1(H)	5:1 0° 38,1(H)	4:1 90° 32,1(M)	4:1 0° 32,1(M)	3:1 90° 25,4(H)	3:1 0° 25,4(H)	0,34:1 90° 24,9	0,34:1 0° 24,9	2:1 90° 19,1(M)	2:1 0° 19,1(M)	0,86:1 90° 13,8	0,86:1 0° 13,8
12	14	L	211z	5:1 0° 38,1(H)	5:1 90° 38,1(H)	4:1 0° 32,1(M)	4:1 90° 32,1(M)	3:1 0° 25,4(H)	3:1 90° 25,4(H)	2,92:1 0° 24,9	2,92:1 90° 24,9	2:1 0° 19,1(M)	2:1 90° 19,1(M)	1,17:1 0° 13,8	1,17:1 90° 13,8

right hand convention: with the boss to the right, hand is right if helix descends from left to right

part	210f	210d	210	211b	210b	211a	211
face	3	3	3	6	3	6,3	6,3
Z	60	48	36	35	24	14	12

part	210g	210e	210a	211y	210c	211c	211z
face	3	3	3	5	3	6,3	6,3
Z	60	48	36	35	24	14	12

transmission ratio	0° = parallel
ratio	90° = orthogonal
distance between axis (mm)	

Ø (mm): approx. external diameter

(H) indicates meshings at hole distance (multiples of 1/4")

(M) indicates meshings at half hole distance (multiples of 1/4")

When meshing distance between axis is not at hole distance gears require special mountings

All helical gears are DP 34 (module 0,75), hobbed in brass on Swiss high precision Mikron machinery

Helical gears have a significantly smoother and more silent operation than normal gears

36 and 35 teeth gears are provided with 6 holes at standard spacing



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info@exactosystem.com