

Helical gear ▶ Right Helix Fine Milling Type



Please order according to the diagram

①~⑤ Select the type and parameters in the order of for ordering

Model (① Code)

② Module

③ Number Teeth

④ B

⑤ Inner Bore Diameter P_{H7}
Minimum Unit 1

Optional Processing

HC90 HC120 MCQ



Discounted Price

Quantity 1~8 10~
Price 100% Separate Quotation

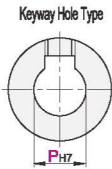
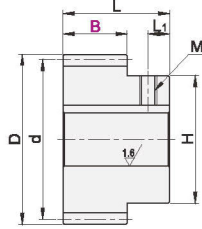
Price Excluding Tax (Yen)

EARFC - 1.5 - 16 - B17 - P8N - HC120



CAD 2D 3D

Non-hardened Gear Accuracy: JIS B 1702-1 Grade 8
Hardened Gear Accuracy: JIS B 1702-1 Grade 9



① Detailed dimensions of the keyed hole can be found in the product introduction.

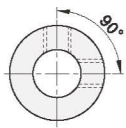
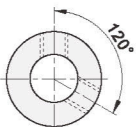
Code	Type	Material	Surface Treatment	Tooth Surface Hardness	Right-hand Helix Angle
EARFC EARFD	Fine Milling Type Keyway Hole Type	S45C	Black Oxide Finish	HRC50 ~ 55	19°31'42"

Model		Number Teeth	B	Inner Bore Diameter P _{H7} Minimum Unit 1	d	D	H	L	L ₁	M																																																																																																																																													
Code	Module																																																																																																																																																						
EARFC EARFD	1.5	14	17	8N	22.28	25.28	16	26	4.5	M4																																																																																																																																													
		15			23.87	26.87	18																																																																																																																																																
		16			25.46	28.46	20																																																																																																																																																
		17			27.06	30.06	21																																																																																																																																																
		18			28.65	31.65	22																																																																																																																																																
		19			30.24	33.24	24																																																																																																																																																
		20		8N ~ 12N	31.83	34.83	25	29	6	M5																																																																																																																																													
		21			33.42	36.42	26																																																																																																																																																
		22		8N ~ 13N	35.01	38.01	27				29	6	M5																																																																																																																																										
		23			36.61	39.61	27																																																																																																																																																
		24		8N ~ 15N	38.20	41.20	30							29	6	M5																																																																																																																																							
		25			39.79	42.79	30																																																																																																																																																
		26		8N ~ 17N	41.38	44.38	32										29	6	M5																																																																																																																																				
		27			42.97	45.97	32																																																																																																																																																
		28		8N ~ 18N	44.56	47.56	34													29	6	M5																																																																																																																																	
		29			46.16	49.16	34																																																																																																																																																
		30		8N ~ 19N	47.75	50.75	35																29	6	M5																																																																																																																														
		31			49.35	52.35	35																																																																																																																																																
		32		8N ~ 24N	50.93	53.93	40																			29	6	M5																																																																																																																											
		33			52.52	55.52	40																																																																																																																																																
		34		8N ~ 28N	54.11	57.11	40																						29	6	M5																																																																																																																								
		35			55.70	58.70	40																																																																																																																																																
		36		10N ~ 28N	57.30	60.30	45																									29	6	M5																																																																																																																					
		37			58.89	61.89	45																																																																																																																																																
		38		10N ~ 31N	60.48	63.48	45																												29	6	M5																																																																																																																		
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		40		12N ~ 31N	63.66	66.66	50																															29	6	M5																																																																																																															
		41			65.25	68.25	50																																																																																																																																																
		42		12N ~ 35N	66.85	69.85	55																																		29	6	M5																																																																																																												
		43			68.44	71.44	55																																																																																																																																																
		44		12N ~ 42N	70.03	73.03	65																																					29	6	M5																																																																																																									
		45			71.62	74.62	65																																																																																																																																																
		46		12N ~ 45N	73.21	76.21	70																																								29	6	M5																																																																																																						
		47			74.80	77.80	70																																																																																																																																																
		48		8N	76.39	79.39	70																																											29	6	M5																																																																																																			
		49			77.98	80.98	70																																																																																																																																																
		50		8N ~ 12N	79.58	82.58	70																																														29	6	M5																																																																																																
		51			81.17	84.17	70																																																																																																																																																
		52		8N ~ 14N	82.76	85.76	70																																																	29	6	M5																																																																																													
		53			84.35	87.35	70																																																																																																																																																
		54		8N ~ 16N	85.94	88.94	70																																																				29	6	M5																																																																																										
		55			87.53	90.53	70																																																																																																																																																
		56		8N ~ 18N	89.13	92.13	70																																																							29	6	M5																																																																																							
		57			90.72	93.72	70																																																																																																																																																
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		59			93.90	96.90	70																																																																																																																																																
		60		8N ~ 22N	95.49	98.49	70																																																													29	6	M5																																																																																	
		61			97.08	100.08	70																																																																																																																																																
		62		8N ~ 24N	98.68	101.68	70																																																																29	6	M5																																																																														
		63			100.27	103.27	70																																																																																																																																																
		64		8N ~ 26N	101.86	104.86	70																																																																			29	6	M5																																																																											
		65			103.45	106.45	70																																																																																																																																																
		66		8N ~ 28N	105.04	108.04	70																																																																						29	6	M5																																																																								
		67			106.63	109.63	70																																																																																																																																																
		68		8N ~ 30N	108.23	111.23	70																																																																									29	6	M5																																																																					
		69			109.82	112.82	70																																																																																																																																																
		70		8N ~ 32N	111.41	114.41	70																																																																												29	6	M5																																																																		
		71			113.00	116.00	70																																																																																																																																																
		72		8N ~ 34N	114.59	117.59	70																																																																															29	6	M5																																																															
		73			116.18	119.18	70																																																																																																																																																
		74		8N ~ 36N	117.77	120.77	70																																																																																		29	6	M5																																																												
		75			119.36	122.36	70																																																																																																																																																
		76		8N ~ 38N	120.95	123.95	70																																																																																					29	6	M5																																																									
		77			122.54	125.54	70																																																																																																																																																
		78		8N ~ 40N	124.13	127.13	70																																																																																								29	6	M5																																																						
		79			125.72	128.72	70																																																																																																																																																
		80		8N ~ 42N	127.31	130.31	70																																																																																											29	6	M5																																																			
		81			128.90	131.90	70																																																																																																																																																
		82		8N ~ 44N	130.49	133.49	70																																																																																														29	6	M5																																																
		83			132.08	135.08	70																																																																																																																																																
		84		8N ~ 46N	133.67	136.67	70																																																																																																	29	6	M5																																													
		85			135.26	138.26	70																																																																																																																																																
		86		8N ~ 48N	136.85	139.85	70																																																																																																				29	6	M5																																										
		87			138.44	141.44	70																																																																																																																																																
		88		8N ~ 50N	140.03	143.03	70																																																																																																							29	6	M5																																							
		89			141.62	144.62	70																																																																																																																																																
		90		8N ~ 52N	143.21	146.21	70																																																																																																										29	6	M5																																				
		91			144.80	147.80	70																																																																																																																																																
		92		8N ~ 54N	146.39	149.39	70																																																																																																													29	6	M5																																	
		93			147.98	150.98	70																																																																																																																																																
		94		8N ~ 56N	149.57	152.57	70																																																																																																																29	6	M5																														
		95			151.16	154.16	70																																																																																																																																																
		96		8N ~ 58N	152.75	155.75	70																																																																																																																			29	6	M5																											
		97			154.34	157.34	70																																																																																																																																																
		98		8N ~ 60N	155.93	158.93	70																																																																																																																						29	6	M5																								
		99			157.52	160.52	70																																																																																																																																																
		100		8N ~ 62N	159.11	162.11	70																																																																																																																									29	6	M5																					
		101			160.70	163.70	70																																																																																																																																																
		102		8N ~ 64N	162.29	165.29	70																																																																																																																												29	6	M5																		
		103			163.88	166.88	70																																																																																																																																																
		104		8N ~ 66N	165.47	168.47	70																																																																																																																															29	6	M5															
		105			167.06	170.06	70																																																																																																																																																
		106		8N ~ 68N	168.65	171.65	70																																																																																																																																		29	6	M5												
		107			170.24	173.24	70																																																																																																																																																
		108		8N ~ 70N	171.83	174.83	70																																																																																																																																					29	6	M5									
		109			173.42	176.42	70																																																																																																																																																
		110		8N ~ 72N	175.01	178.01	70																																																																																																																																								29	6	M5						
		111			176.60	179.60	70																																																																																																																																																
		112		8N ~ 74N	178.19	181.19	70																																																																																																																																											29	6	M5			
		113			179.78	182.78	70																																																																																																																																																
114	8N ~ 76N	181.37	184.37	70	29	6	M5																																																																																																																																																
115		182.96	185.96	70																																																																																																																																																			
116	8N ~ 78N	184.55	187.55	70																																																																																																																																																	29	6	M5
117		186.14	189.14	70																																																																																																																																																			
118	8N ~ 80N	187.73	190.73	70					29	6																																																																																																																																													
119	189.32	192.32	70																																																																																																																																																				
120	190.91	193.91	70	29				6				M5																																																																																																																																											
121	192.50	195.50	70																																																																																																																																																				
122	194.09	197.09	70								29		6		M5																																																																																																																																								
123	195.68	198.68	70																																																																																																																																																				
124	197.27	200.27	70											29		6		M5																																																																																																																																					
125	198.86	201.86	70																																																																																																																																																				
126	200.45	203.45	70														29		6		M5																																																																																																																																		
127	202.04	205.04	70																																																																																																																																																				
128	203.63	206.63	70																	29		6		M5																																																																																																																															
129	205.22	208.22	70																																																																																																																																																				
130	206.81	209.81	70																				29		6		M5																																																																																																																												
131	208.40	211.40	70																																																																																																																																																				
132	210.00	213.00	70																							29		6		M5																																																																																																																									
133	211.59	214.59	70																																																																																																																																																				
134	213.18	216.18	70																										29		6		M5																																																																																																																						
135	214.77	217.77	70																																																																																																																																																				
136	216.36	219.36	70																													29		6		M5																																																																																																																			
137	217.95	220.95	70																																																																																																																																																				
138	219.54	222.54	70																																29		6		M5																																																																																																																
139	221.13	224.13	70																																																																																																																																																				
140	222.72	225.72	70																																			29		6		M5																																																																																																													
141	224.31	227.31	70																																																																																																																																																				
142	225.90	228.90	70																																						29		6		M5																																																																																																										
143	227.49	230.49	70																																																																																																																																																				
144	229.08	232.08	70																																									29		6		M5																																																																																																							
145	230.67	233.67	70																																																																																																																																																				
146	232.26	235.26	70																																												29		6		M5																																																																																																				
147	233.85	236.85	70																																																																																																																																																				
148	235.44	238.44	70																																															29		6		M5																																																																																																	
149	237.03	240.03	70																																																																																																																																																				
150	238.62	241.62	70																																																		29		6		M5																																																																																														
151	240.21	243.21	70																																																																																																																																																				
152	241.80	244.80	70																																																					29		6		M5																																																																																											
153	243.39	246.39	70																																																																																																																																																				
154	244.98	247.98	70																																																								29		6		M5																																																																																								
155	246.57	249.57	70																																																																																																																																																				
156	248.16	251.16	70																																																											29		6		M5																																																																																					
157	249.75	252.75	70																																																																																																																																																				
158	251.34	254.34	70																																																														29		6		M5																																																																																		
159	252.93	255.93	70																																																																																																																																																				
160	254.52	257.52	70																																																																	29		6		M5																																																																															
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162	257.70	260.70	70																																																																				29		6		M5																																																																												
163	259.29	262.29	70																																																																																																																																																				
164	260.88	263.88	70																																																																							29		6		M5																																																																									
165	262.47	265.47	70																																																																																																																																																				
166	264.06	267.06	70																																																																										29		6		M5																																																																						
167	265.65	268.65	70																																																																																																																																																				
168	267.24	270.24	70																																																																													29		6		M5																																																																			
169	268.83	271.83	70																																																																																																																																																				
170	270.42	273.42	70																																																																																29		6		M5																																																																
171	272.01	275.01	70																																																																																																																																																				
172	273.60	276.60	70																																																																																			29		6		M5																																																													
173	275.19	278.19	70																																																																																																																																																				
174	276.78	279.78	70																																																																																						29		6		M5																																																										
175	278.37	281.37	70																																																																																																																																																				
176	279.96	282.96	70																																																																																									29		6		M5																																																							
177	281.55	284.55	70																																																																																																																																																				
178	283.14	286.14	70																																																																																												29		6		M5																																																				
179	284.73	287.73	70																																																																																																																																																				
180	286.32	289.32	70																																																																																															29		6		M5																																																	
181	287.91	290.91	70																																																																																																																																																				
182	289.50	292.50	70																																																																																																		29		6		M5																																														
183	291.09	294.09	70																																																																																																																																																				
184	292.68	295.68	70																																																																																																					29		6		M5																																											
185	294.27	297.27	70																																																																																																																																																				
186	295.86	298.86	70																																																																																																								29		6		M5																																								
187	297.45	300.45	70																																																																																																																																																				
188	299.04	302.04	70																																																																																																											29		6		M5																																					
189	300.63	303.63	70																																																																																																																																																				
190	302.22	305.22	70																																																																																																														29		6		M5																																		
191	303.81	306.81	70																																																																																																																																																				
192	305.40	308.40	70																																																																																																																	29		6		M5																															
193	306.99	310.00	70																																																																																																																																																				
194	308.58	311.58	70																																																																																																																				29		6		M5																												
195	310.17	313.17	70																																																																																																																																																				
196	311.76	314.76	70																																																																																																																							29		6		M5																									
197	313.35	316.35	70																																																																																																																																																				
198	314.94	317.94	70																																																																																																																										29		6		M5																						
199	316.53	319.53	70																																																																																																																																																				
200	318.12	321.12	70																																																																																																																													29		6		M5																			
201	319.71	322.71	70																																																																																																																																																				
202	321.30	324.30	70																																																																																																																																29		6		M5																
203	322.89	325.89	70																																																																																																																																																				
204	324.48	327.48	70																																																																																																																																			29		6		M5													
205	326.07	329.07	70																																																																																																																																																				
206	327.66	330.66	70																																																																																																																																						29		6		M5										
207	329.25	332.25	70																																																																																																																																																				
208	330.84	333.84	70																																																																																																																																									29		6		M5							
209	332.43	335.43	70																																																																																																																																																				
210	334.02	337.02	70																																																																																																																																												29		6		M5				
211	335.61	338.61	70																																																																																																																																																				
212	337.20	340.20	70			29	6																																																																																																																																											M5					
213	338.79	341.79	70																																																																																																																																																				
214	340.38	343.38	70		29																																																																																																																																															6		M5	
215	341.97	344.97	70																																																																																																																																																				
216	343.56	346.56	70							29																																																																																																																																											6		M5
217	345.15	348.15	70																																																																																																																																																				
218	346.74	349.74	70					29	6																																																																																																																																														

Helical gear ▶ Right Helix Fine Milling Type

Model Code	Number Teeth	B	Inner Bore Diameter P_{H} Minimum Unit 1	d	D	H	B ₁	L ₁	M
EARFC EARFD	30	2.0	24	8N ~ 30N	63.66	67.66	48		
	32			8N ~ 31N	67.91	71.91	50		
	34			10N ~ 31N	72.15	76.15			
	35			10N ~ 33N	74.27	78.27	52		
	36			10N ~ 35N	76.39	80.39	55		
	38				80.64	84.64			
	40			10N ~ 38N	84.88	88.88	60		
	42				89.13	93.13			
	44				93.37	97.37			
	45				95.49	99.49			
	46			10N ~ 40N	97.62	101.62	62		
	48				101.86	105.86			
	50				106.10	110.10			
	52				110.35	114.35			
	54			12N ~ 42N	114.59	118.59	65		
	55				116.71	120.71			
	56				118.84	122.84			
	58				123.08	127.08			
	60			15N ~ 42N	127.32	131.32	70		
	62				131.57	135.57			
	64				135.81	139.81			
	65				137.93	141.93			
	68			20N ~ 42N	144.30	148.30	85		
	70				148.55	152.55			
	72				152.79	156.79			
	75				159.16	163.16			
	80			20N ~ 45N	169.77	173.77	90		
	85				180.38	184.38			
	90				190.99	194.99			
	95				201.60	205.60			
	100				212.21	216.21			
	12	3.0	29	12N	38.20	44.20	27		
	14			12N ~ 16N	44.56	50.56	32		
	15			12N ~ 19N	47.75	53.75	35		M5
	16			12N ~ 23N	50.93	56.93	40		
	17				54.11	60.11			
	18			12N ~ 25N	57.30	63.30	44		
	19			12N ~ 26N	60.48	66.48	45		
	20			12N ~ 31N	63.66	69.66	50		
	21			12N ~ 33N	66.85	72.85	52		
	22			12N ~ 34N	70.03	76.03	54		
	23			12N ~ 35N	73.21	79.21	56		
	24			12N ~ 37N	76.39	82.39	58		
	25			12N ~ 38N	79.58	85.58	60		
	26			12N ~ 42N	82.76	88.76	65		
	27				85.94	91.94			
	28			12N ~ 45N	89.13	95.13	70		
	29				92.31	98.31			
	30			12N ~ 48N	95.49	101.49	75		
	32				101.86	107.86			
	34			12N ~ 50N	108.23	114.23	80		
	35				111.41	117.41			
	36				114.59	120.59			
	38				120.96	126.96			
	40			20N ~ 50N	127.32	133.32	85		M6
	42				133.69	139.69			
	44				140.06	146.06			
	45				143.24	149.24			
	46			25N ~ 50N	146.42	152.42	90		
	48				152.79	158.79			
	50				159.16	165.16			
	52				165.52	171.52			
	54				171.89	177.89			
	55				175.07	181.07			
	56				178.25	184.25			
	58				184.62	190.62			
	60				190.99	196.99			
	62				197.35	203.35			
	64				203.72	209.72			
	65				206.90	212.90			
	68				216.45	222.45			
	70				222.82	228.82			

Optional Processing

Code	Technical Specification									
HC90	Adding Setscrew Hole at 90° Position	Selection Method HC90 ① Additional setscrew hole processing at a 90° position relative to the original setscrew hole.								
										
HC120	Adding Setscrew Hole at 120° Position	Selection Method HC120 ① Additional setscrew hole processing at a 120° position relative to the original setscrew hole.								
										
MC()	Changing the Size of Threaded Hole	Selection Method MC4 ① Screw Hole Designation Table <table><tr><td>M</td><td>MC</td></tr><tr><td>M4</td><td>M3 M5</td></tr><tr><td>M5</td><td>M4 M6</td></tr><tr><td>M6</td><td>M5 M8</td></tr></table>	M	MC	M4	M3 M5	M5	M4 M6	M6	M5 M8
	M	MC								
M4	M3 M5									
M5	M4 M6									
M6	M5 M8									