



С€

Твердосплавные инструменты

420021, 12
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ОАО КАЗАНСКИЙ МЕДИКО-ИНСТРУМЕНТАЛЬНЫЙ ЗАВОД

Рабочая часть

()

Режущие грани

«Siemens»,

Все фрезы

2,3 ()

Хвостовик фрез

2,3

Надежное сварное соединение

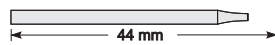
Идеальная центровка

Тотальный контроль

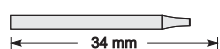
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(

104 – Ø 2.35



103 – short Ø 2.35



ISO	/
010 – 023	15 000 – 50 000
023 – 045	15 000 – 40 000
045 – 080	15 000 – 20 000

186 102

1/10 mm	028	031	036			
L mm	12	13	12			
	4°	4°	6°			
ISO 500 103 186 102 ...						

186 175

1/10 mm	023	028	031	036	043	
L mm	12	12	13	12	13	
	2°	4°	4°	6°	6°	
ISO 500 103 186 175 ...						

200 102

1/10 mm	028	031	036			
L mm	12	13	12			
	4°	4°	6°			
ISO 500 103 200 102 ...						

200 175

1/10 mm	023	028	031	036	043	
L mm	12	12	13	12	13	
	2°	4°	4°	6°	6°	
ISO 500 103 200 175 ...						

186 133

1/10 mm	028	031	036	043		
L mm	12	13	12	13		
	4°	4°	6°	6°		
ISO 500 103 186 133 ...						

186 190

1/10 mm	023	028	036			
L mm	12	12	12			
	2°	4°	6°			
ISO 500 103 186 190 ...						

200 133

1/10 mm	023	028	031	036	043	
L mm	12	12	13	12	13	
	2°	4°	4°	6°	6°	
ISO 500 103 200 133 ...						

200 190

1/10 mm	023	028	036			
L mm	12	12	12			
	2°	4°	6°			
ISO 500 103 186 190 ...						

ISO 102;

ISO 133;

ISO 175;

ISO 215;

ISO 222;

ISO 110, 141;

ISO 140;

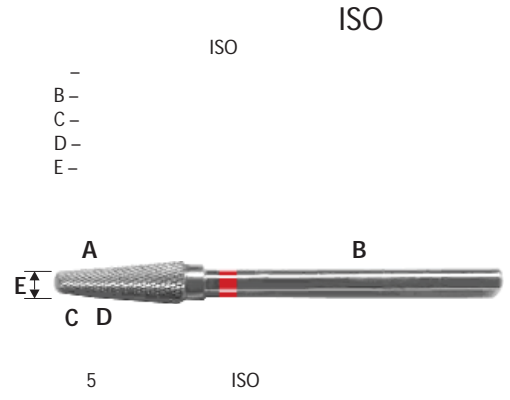
ISO 190;

ISO 220;

ISO 224;

ISO 134;

ISO 176;



... *

1/10 mm	040	050
L mm	13	13
ISO 500 104 200 140 ...		

A B C D E

- (500) -
 - B (104) -
 - C (200) -
 - D (140) -
 - E (050) -
- 5

*

... -

273 190

1/10 mm	040				
L mm	9				
ISO 500 104 273 190 ...					

... -

275 190

1/10 mm	050	060			
L mm	14	14			
ISO 500 104 275 190 ...					

... -

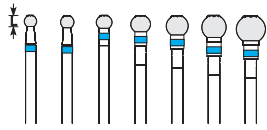
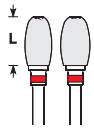
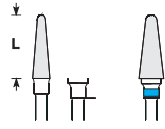
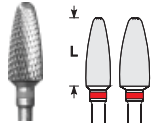
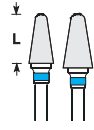
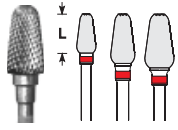
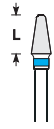
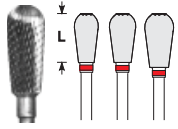
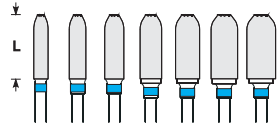
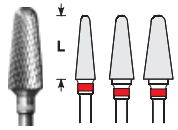
277 190

1/10 mm	055	060			
L mm	10	10			
ISO 500 104 277 190 ...					

... -

260 176

1/10 mm	050	060			
L mm	10	11			
ISO 500 104 260 176 ...					



13-14										
	123 190	143 190	144 190	186 190	187 190	196 190	199 190	200 190	201 190	225 190
14-15										
	237 190	257 190	260 190	275 190	277 190	289 190	292 190	113 220	143 220	199 220
15-16										
	200 220	237 220	260 220	113 224	143 224	237 224	275 224	144 134	198 134	201 134
16-17										
	237 134	144 176	198 176	201 176	260 176	277 176	292 176	143 102	001 133	143 133
17-18										
	200 133	237 133	277 133	001 175	143 175	198 175	199 175	200 175	237 175	275 175
18-19										
	277 175	143 110	275 110	143 140	198 140	199 140	200 140	237 140	260 140	275 140
19-20										
	277 140	001 190	143 190	198 190	199 190	200 190	237 190	260 190	273 190	275 190
20-21										
	277 190	260 176	186 102	200 102	186 133	200 133	186 175	200 175	186 190	200 190

143 175

1/10 mm	030	035	040	045	050	055	060
L mm	13	13	13	13	13	13	13
ISO 500 104 143 175 ...							

198 175

1/10 mm	040						
L mm	8						
ISO 500 104 198 175 ...							

199 175

1/10 mm	050	060					
L mm	10	11					
ISO 500 104 199 175 ...							

200 175

1/10 mm	040	050	060				
L mm	13	13	13				
ISO 500 104 200 175 ...							

237 175

1/10 mm	050	055	060				
L mm	10	10	11				
ISO 500 104 237 175 ...							

275 175

1/10 mm	040	050	060				
L mm	9	14	14				
ISO 500 104 275 175 ...							

277 175

1/10 mm	055	060					
L mm	10	10					
ISO 500 104 277 175 ...							

143 110

1/10 mm	050	060					
L mm	13	13					
ISO 500 104 143 110 ...							

275 110

1/10 mm	050	060					
L mm	14	14					
ISO 500 104 275 110 ...							

143 140

1/10 mm	040	050	055	060			
L mm	13	13	13	13			
ISO 500 104 143 140 ...							

198 140

1/10 mm	040						
L mm	8						
ISO 500 104 198 140 ...							

199 140

1/10 mm	050	060					
L mm	10	11					
ISO 500 104 199 140 ...							

292 176

1/10 mm	015				
L mm	14				
ISO 500 104 292 176 ...					

001 133

1/10 mm	031	040	045	050	060
L mm	2,6	3,6	4,0	4,5	5,5
ISO 500 104 001 133 ...					

143 133

1/10 mm	040	050	055	060
L mm	13	13	13	13
ISO 500 104 143 133 ...				

200 133

1/10 mm	040	050	050	060
L mm	13	13	13	13
ISO 500 104 200 133 ...				

237 133

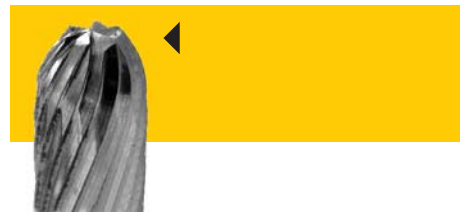
1/10 mm	050	055	060
L mm	10	10	11
ISO 500 104 237 133 ...			

277 133

1/10 mm	055	060
L mm	10	10
ISO 500 104 277 133 ...		

001 175

1/10 mm	025	027	031	040	045	050	060
L mm	2,3	2,5	2,6	3,6	4,0	4,5	5,5
ISO 500 104 001 175 ...							



143 102

1/10 mm	050	060
L mm	13	13
ISO 500 104 143 102 ...		

123 102

1/10 mm	023
L mm	15
ISO 500 104 123 102 ...	

143 102

1/10 mm	050	060
L mm	13	13
ISO 500 104 143 102 ...		

144 102

1/10 mm	023
L mm	15
ISO 500 104 144 102 ...	

196 102

1/10 mm	014	016	018	023
L mm	4,75	5,0	5,5	5,5
ISO 500 104 196 102 ...				

198 102

1/10 mm	016	023
L mm	9,5	8,0
ISO 500 104 198 102 ...		

201 102

1/10 mm	023
L mm	15
ISO 500 104 201 102 ...	

225 102

1/10 mm	023
L mm	5,5
ISO 500 104 225 102 ...	

257 102

1/10 mm	023
L mm	6,5
ISO 500 104 257 102 ...	

001 133

1/10 mm	031	040	045	050	060
L mm	2,6	3,6	4,0	4,5	5,5
ISO 500 104 001 133 ...					

123 133

1/10 mm	015	0215	023
L mm	15	15	15
ISO 500 104 123 133 ...			

143 133

1/10 mm	040	050	055	060				
L mm	13	13	13	13				
ISO 500 104 143 133 ...								

186 133

1/10 mm	023	036	040	043	050	060		
L mm	12	12	13	13	13	13		
ISO 500 104 186 133 ...								

187 133

1/10 mm	023	060						
L mm	15	14						
ISO 500 104 187 133 ...								

198 133

1/10 mm	023							
L mm	8							
ISO 500 104 198 133 ...								

200 133

1/10 mm	023	028	036	040	043	050	060	
L mm	12	12	12	13	13	13	13	
ISO 500 104 200 133 ...								

201 133

1/10 mm	023							
L mm	15							
ISO 500 104 201 133 ...								

225 133

1/10 mm	023							
L mm	5,5							
ISO 500 104 225 133 ...								

237 133

1/10 mm	023	029	050	055	060			
L mm	5,5	5,5	10,0	10,0	11,0			
ISO 500 104 237 133 ...								

257 133

1/10 mm	023	050	050	060				
L mm	6,5	10,0	13,0	12,0				
ISO 500 104 257 133 ...								

275 133

1/10 mm	050	060						
L mm	14	14						
ISO 500 104 275 133 ...								

277 133

1/10 mm	014	023	055	060				
L mm	2,9	3,8	10,0	10,0				
ISO 500 104 277 133 ...								

289 133

1/10 mm	016							
L mm	9,5							
ISO 500 104 289 133 ...								

144 134

1/10 mm	023							
L mm	15							
ISO 500 104 144 134 ...								

198 134

1/10 mm	023							
L mm	8							
ISO 500 104 198 134 ...								

201 134

1/10 mm	023							
L mm	15							
ISO 500 104 201 134 ...								

237 134

1/10 mm	023							
L mm	5,5							
ISO 500 104 237 134 ...								

144 176

1/10 mm	023							
L mm	15							
ISO 500 104 144 176 ...								

198 176

1/10 mm	023							
L mm	8							
ISO 500 104 198 176 ...								

201 176

1/10 mm	023							
L mm	15							
ISO 500 104 201 176 ...								

260 176

1/10 mm	050	060						
L mm	10	11						
ISO 500 104 260 176 ...								

277 176

1/10 mm	014	023						
L mm	2,9	3,8						
ISO 500 104 277 176 ...								

113 220

1/10 mm	045	050	055	060				
L mm	13	13	13	13	13	13	13	13
ISO 500 104 113 220 ...								

143 220

1/10 mm	040	045	050	055	060			
L mm	13	13	13	13	13			
ISO 500 104 143 220 ...								

199 220

1/10 mm	060							
L mm	11							
ISO 500 104 199 220 ...								

200 220

1/10 mm	040	050	060					
L mm	13	13	13					
ISO 500 104 200 220 ...								

237 220

1/10 mm	050	055	060					
L mm	10	10	11					
ISO 500 104 237 220 ...								

260 220

1/10 mm	060							
L mm	11							
ISO 500 104 260 220 ...								

113 224

1/10 mm	050	055	060					
L mm	13	13	13					
ISO 500 104 113 224 ...								

143 224

1/10 mm	050	055	060					
L mm	13	13	13					
ISO 500 104 143 224 ...								

237 224

1/10 mm	050	055	060					
L mm	10	10	11					
ISO 500 104 237 224 ...								

275 224

1/10 mm	050	060						
L mm	14	14						
ISO 500 104 275 224 ...								

292 133

1/10 mm	015							
L mm	14							
ISO 500 104 292 133 ...								

001 175

1/10 mm	010	012	014	016	018	021	023	
L mm	0,85	1,05	1,25	1,4	1,6	1,9	2,1	
ISO 500 104 001 175 ...								

001 175

1/10 mm	025	027	031	040	045	050	060	
L mm	2,3	2,5	2,6	3,6	4,0	4,5	5,5	
ISO 500 104 001 175 ...								

011 175

1/10 mm	014	018	031	040				
L mm	1,2	1,55	3,0	4,0				
ISO 500 104 011 175 ...								

113 175

1/10 mm	030	035	040	045	050	055	060	
L mm	13	13	13	13	13	13	13	
ISO 500 104 113 175 ...								

114 175

1/10 mm	015	0215	023					
L mm	15	15	15					
ISO 500 104 114 175 ...								

123 175

1/10 mm	015	0215	023					
L mm	15	15	15					
ISO 500 104 123 175 ...								

141 175

1/10 mm	016							
L mm	9,5							
ISO 500 104 141 175 ...								

143 175

1/10 mm	030	035	040	045	050	055	060	
L mm	13	13	13	13	13	13	13	
ISO 500 104 143 175 ...								

144 175

1/10 mm	015	0215	023					
L mm	15	15	15					
ISO 500 104 144 175 ...								

186 175

1/10 mm	031	035	036	040	045	050	060	
L mm	13	13	13	13	13	13	13	
ISO 500 104 186 175 ...								

()... ()-
187 175

1/10 mm	0215	023	060			
L mm	15	15	14			
ISO 500 104 187 175 ...						

... -
196 175

1/10 mm	014	014	016	018	023	
L mm	3,6	4,75	5,0	5,5	5,5	
ISO 500 104 196 175 ...						

()... ()-
198 175

1/10 mm	016	023	040			
L mm	9,5	8,0	8,0			
ISO 500 104 198 175 ...						

... ()-
200 175

1/10 mm	023	035	040	045	050	060
L mm	12	13	13	13	13	13
ISO 500 104 200 175 ...						

... ()-
201 175

1/10 mm	0215	023	023			
L mm	15	15	16			
ISO 500 104 201 175 ...						

()... -
225 175

1/10 mm	016	023	050			
L mm	4,75	5,5	5,5			
ISO 500 104 225 175 ...						

... ()-
237 175

1/10 mm	023	029	050	055	060	
L mm	5,5	5,5	10,0	10,0	11,0	
ISO 500 104 237 175 ...						

... ()-
257 175

1/10 mm	023	050	050	055	055	060
L mm	6,5	10,0	13,0	10,0	13,0	12,0
ISO 500 104 257 175 ...						

... -
275 175

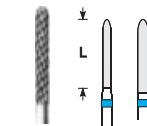
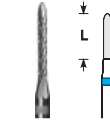
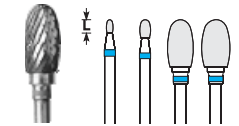
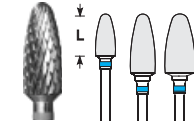
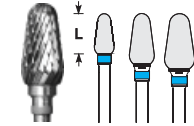
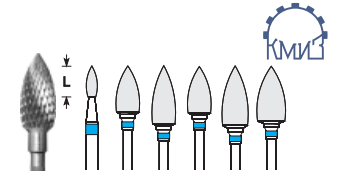
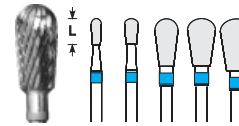
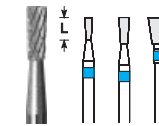
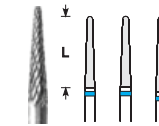
1/10 mm	040	050	060			
L mm	9	14	14			
ISO 500 104 275 175 ...						

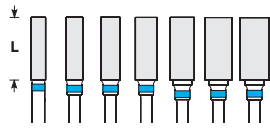
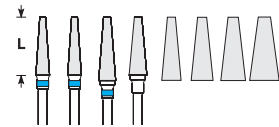
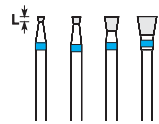
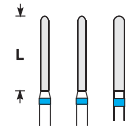
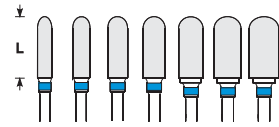
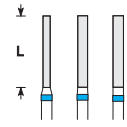
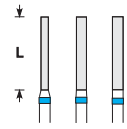
... ()-
277 175

1/10 mm	014	023	055	060		
L mm	2,9	3,8	10,0	10,0		
ISO 500 104 277 175 ...						

... -
292 175

1/10 mm	023					
L mm	15					
ISO 500 104 292 175 ...						





225 110

1/10 mm	023				
L mm	5,5				
ISO 500 104 225 110 ...					

237 110

1/10 mm	023				
L mm	5,5				
ISO 500 104 237 110 ...					

237 141

1/10 mm	023				
L mm	5,5				
ISO 500 104 237 141 ...					

292 110

1/10 mm	023				
L mm	15				
ISO 500 104 292 110 ...					



001 140

1/10 mm	023	031	040	045	050	060
L mm	2,1	2,6	3,6	4,0	4,5	5,5
ISO 500 104 001 140 ...						

114 140

1/10 mm	015	0215	023		
L mm	15	15	15		
ISO 500 104 114 140 ...					

123 140

1/10 mm	015	0215	023		
L mm	15	15	15		
ISO 500 104 123 140 ...					

143 140

1/10 mm	040	050	055	060	
L mm	13	13	13	13	
ISO 500 104 143 140 ...					

144 140

1/10 mm	015	0215	023		
L mm	15	15	15		
ISO 500 104 144 140 ...					

187 140

1/10 mm	0215				
L mm	15				
ISO 500 104 187 140 ...					

196 140

1/10 mm	014	014	016	018	023
L mm	3,6	4,75	5,0	5,5	5,5
ISO 500 104 196 140 ...					

198 140

1/10 mm	016	023	040		
L mm	9,5	8,0	8,0		
ISO 500 104 198 140 ...					

199 140

1/10 mm	023	050	060		
L mm	11,5	10,0	11,0		
ISO 500 104 199 140 ...					

200 140

1/10 mm	040	050	060		
L mm	13	13	13		
ISO 500 104 200 140 ...					

201 140

1/10 mm	0215	023			
L mm	15	15			
ISO 500 104 201 140 ...					

225 140

1/10 mm	023				
L mm	5,5				
ISO 500 104 225 140 ...					

237 140

1/10 mm	023	029	050	055	060
L mm	5,5	5,5	10,0	10,0	11,0
ISO 500 104 237 140 ...					

257 140

1/10 mm	023	050	050	055	055	060
L mm	6,5	10,0	13,0	10,0	13,0	12,0
ISO 500 104 257 140 ...						

260 140

1/10 mm	040	050	060		
L mm	8	10	11		
ISO 500 104 260 140 ...					

273 140

1/10 mm	023	040			
L mm	8	9			
ISO 500 104 273 140 ...					

275 140

1/10 mm	050	060			
L mm	14	14			
ISO 500 104 275 140 ...					

277 140

1/10 mm	014	023	055	060	
L mm	2,9	3,8	10,0	10,0	
ISO 500 104 277 140 ...					

289 140

1/10 mm	016				
L mm	9,5				
ISO 500 104 289 140 ...					