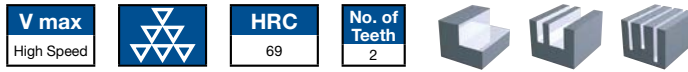
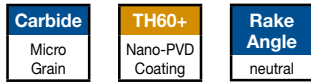
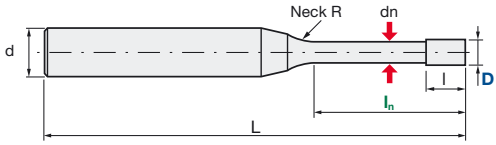




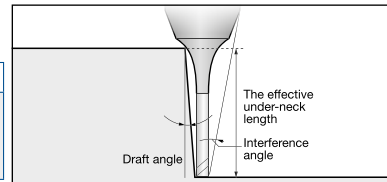
**EPDSE-ATH** | Epoch Deep Square Evolution ATH



A (D0.1–D5.0)



Helix Angle	D Tol. [mm]	d Tol.
30°	D0.1~D0.5: 0/-0.007 D0.6~D0.9: 0/-0.01 D1~D6: 0/-0.015	h5



Size										Actual Effective Length in Incline angles				
ID Code	Item Code	Z	D	In	I	dn	L	d	Neck R	0.5°	1°	1.5°	2°	3°
EP1074	EPDSE-2001-0.3-ATH	2	0.1	0.3	0.15	0.08	45		1	0.46	0.49	0.51	0.53	0.58
EP1075	EPDSE-2001-0.5-ATH			0.5						0.67	0.71	0.74	0.76	0.82
EP1076	EPDSE-2001-1-ATH		1	1.2	1.25	1.29	1.33	1.39						
EP1077	EPDSE-2002-0.5-ATH		0.2	0.2	0.5	0.3	0.17			0.7	0.73	0.76	0.78	0.83
EP1078	EPDSE-2002-1-ATH				1					1.22	1.27	1.31	1.34	1.42
EP1079	EPDSE-2002-1.5-ATH				1.5					1.74	1.8	1.85	1.89	2.08
EP1080	EPDSE-2002-2-ATH				2					2.26	2.32	2.38	2.47	2.74
EP1081	EPDSE-2002-3-ATH		3	3.29	3.37	3.5	3.67	4.07						
EP1082	EPDSE-2003-1-ATH		0.3	0.3	1	0.45	0.27			1.32	1.39	1.45	1.51	1.62
EP1083	EPDSE-2003-1.5-ATH				1.5					1.85	1.93	2.01	2.08	2.21
EP1084	EPDSE-2003-2-ATH				2					2.37	2.47	2.56	2.64	2.78
EP1085	EPDSE-2003-2.5-ATH				2.5					2.89	3.01	3.11	3.2	3.41
EP1086	EPDSE-2003-3-ATH				3					3.42	3.54	3.65	3.75	4.07
EP1087	EPDSE-2004-1-ATH				1					1.32	1.39	1.45	1.51	1.62
EP1088	EPDSE-2004-1.5-ATH		0.4	0.4	1.5	0.6	0.37			1.85	1.93	2.01	2.08	2.21
EP1089	EPDSE-2004-2-ATH				2					2.37	2.47	2.56	2.64	2.78
EP1090	EPDSE-2004-2.5-ATH	2.5			2.89				3.01	3.11	3.2	3.41		
EP1091	EPDSE-2004-3-ATH	3			3.42				3.54	3.65	3.75	4.07		
EP1092	EPDSE-2004-3.5-ATH	3.5			3.94				4.08	4.19	4.29	4.73		
EP1093	EPDSE-2004-4-ATH	4			4.46				4.61	4.73	4.87	5.4		
EP1094	EPDSE-2004-5-ATH	5			5.49				5.66	5.79	6.06	6.72		
EP1095	EPDSE-2004-6-ATH	6			6.53				6.71	6.92	7.26	8.05		
EP1096	EPDSE-2004-8-ATH	8	8.59	8.8	9.2	9.65	10.71							
EP1097	EPDSE-2004-10-ATH	10	10.64	10.97	11.48	12.05	13.36							
EP1098	EPDSE-2005-1-ATH	0.5	0.5	1	0.75	0.47		1.32	1.39	1.45	1.51	1.62		
EP1099	EPDSE-2005-1.5-ATH			1.5				1.85	1.93	2.01	2.08	2.21		
EP1100	EPDSE-2005-2-ATH			2				2.37	2.47	2.56	2.64	2.78		
EP1101	EPDSE-2005-2.5-ATH			2.5				2.89	3.01	3.11	3.2	3.41		
EP1102	EPDSE-2005-3-ATH			3				3.42	3.54	3.65	3.75	4.07		
EP1103	EPDSE-2005-4-ATH			4				4.46	4.61	4.73	4.87	5.4		
EP1104	EPDSE-2005-5-ATH			5				5.49	5.66	5.79	6.06	6.72		
EP1105	EPDSE-2005-6-ATH			6				6.53	6.71	6.92	7.26	8.05		
EP1106	EPDSE-2005-8-ATH			8				8.59	8.8	9.2	9.65	10.71		
EP1107	EPDSE-2005-10-ATH			10				10.64	10.97	11.48	12.05	13.36		
EP1108	EPDSE-2006-2-ATH	0.6	0.6	2	0.9	0.57		2.54	2.7	2.84	2.96	3.19		
EP1109	EPDSE-2006-3-ATH			3				3.6	3.8	3.96	4.11	4.37		
EP1110	EPDSE-2006-4-ATH			4				4.66	4.89	5.07	5.24	5.53		
EP1111	EPDSE-2006-5-ATH			5				5.71	5.96	6.17	6.35	6.72		
EP1112	EPDSE-2006-6-ATH			6				6.76	7.04	7.26	7.45	8.05		
EP1113	EPDSE-2006-7-ATH			7				7.81	8.1	8.34	8.55	9.38		
EP1114	EPDSE-2006-8-ATH			8				8.85	9.17	9.42	9.65	10.71		
EP1115	EPDSE-2006-9-ATH			9				9.89	10.22	10.49	10.85	12.03		
EP1116	EPDSE-2006-10-ATH			10				10.93	11.28	11.56	12.05	13.36		



**EPDSE-ATH** | Epoch Deep Square Evolution ATH

ID Code	Item Code	Z	Size							Actual Effective Length in Incline angles															
			D	I <sub>n</sub>	l	dn	L	d	Neck R	0.5°	1°	1.5°	2°	3°											
EP1117	EPDSE-2007-2-ATH	2	0.7	2	1.05	0.67	50				2.54	2.7	2.84	2.96	3.19										
EP1118	EPDSE-2007-4-ATH			4							4.66	4.89	5.07	5.24	5.53										
EP1119	EPDSE-2007-6-ATH			6							6.76	7.04	7.26	7.45	8.05										
EP1120	EPDSE-2007-8-ATH			8							8.85	9.17	9.42	9.65	10.71										
EP1121	EPDSE-2007-10-ATH			10							10.93	11.28	11.56	12.05	13.36										
EP1122	EPDSE-2008-4-ATH		0.8	1.2	0.77	50									4.66	4.89	5.07	5.24	5.53						
EP1123	EPDSE-2008-6-ATH														6	6.76	7.04	7.26	7.45	8.05					
EP1124	EPDSE-2008-8-ATH														8	8.85	9.17	9.42	9.65	10.71					
EP1125	EPDSE-2008-10-ATH														10	10.93	11.28	11.56	12.05	13.36					
EP1126	EPDSE-2008-12-ATH														12	13	13.38	13.76	14.44	16.02					
EP1127	EPDSE-2009-6-ATH		0.9	1.35	0.86		50									6.79	7.06	7.28	7.47	8.08					
EP1128	EPDSE-2009-8-ATH															8	8.87	9.18	9.43	9.68	10.74				
EP1129	EPDSE-2009-10-ATH															10	10.95	11.3	11.57	12.07	13.39				
EP1130	EPDSE-2009-12-ATH															12	13.02	13.4	13.79	14.47	16.05				
EP1131	EPDSE-2010-2-ATH															1	1.5	0.96	50					2.58	2.73
EP1132	EPDSE-2010-3-ATH		3	3.64	3.82	3.99					4.13	4.39													
EP1133	EPDSE-2010-4-ATH		4	4.69	4.91	5.09					5.26	5.54													
EP1134	EPDSE-2010-5-ATH		5	5.74	5.99	6.19					6.37	6.76													
EP1135	EPDSE-2010-6-ATH		6	6.79	7.06	7.28					7.47	8.08													
EP1136	EPDSE-2010-7-ATH		7	7.83	8.12	8.36					8.56	9.41													
EP1137	EPDSE-2010-8-ATH		8	8.87	9.18	9.43	9.68	10.74																	
EP1138	EPDSE-2010-9-ATH		9	9.91	10.24	10.5	10.88	12.07																	
EP1139	EPDSE-2010-10-ATH		10	10.95	11.3	11.57	12.07	13.39																	
EP1140	EPDSE-2010-12-ATH		12	13.02	13.4	13.79	14.47	16.05																	
EP1141	EPDSE-2010-14-ATH		14	15.09	15.49	16.07	16.86	18.7																	
EP1142	EPDSE-2010-16-ATH		16	17.15	17.58	18.35	19.25	21.36																	
EP1143	EPDSE-2010-20-ATH		20	21.26	21.89	22.91	24.04	26.66																	
EP1144	EPDSE-2010-25-ATH		25	26.39	27.33	28.61	30.02	x																	
EP1145	EPDSE-2012-6-ATH		1.2	1.8	1.15	50					6.81	7.08	7.29	7.48	8.11										
EP1146	EPDSE-2012-8-ATH										8	8.9	9.2	9.45	9.71	10.77									
EP1147	EPDSE-2012-10-ATH										10	10.97	11.31	11.58	12.1	13.42									
EP1148	EPDSE-2012-12-ATH										12	13.04	13.41	13.82	14.49	16.08									
EP1149	EPDSE-2012-16-ATH										16	17.16	17.59	18.38	19.28	21.39									
EP1150	EPDSE-2014-6-ATH		1.4	2.1	1.34						50	6.84	7.09	7.31	7.5	8.15									
EP1151	EPDSE-2014-12-ATH										55	13.06	13.43	13.84	14.52	16.11									
EP1152	EPDSE-2015-4-ATH		1.5	2.25	1.44						50					4.75	4.95	5.13	5.29	5.57					
EP1153	EPDSE-2015-6-ATH															6	6.84	7.09	7.31	7.5	8.15				
EP1154	EPDSE-2015-8-ATH															8	8.92	9.22	9.46	9.74	10.8				
EP1155	EPDSE-2015-10-ATH					10	10.99	11.33	11.59	12.13						13.45									
EP1156	EPDSE-2015-12-ATH					12	13.06	13.43	13.84	14.52						16.11									
EP1157	EPDSE-2015-14-ATH					14	15.12	15.52	16.12	16.92						18.76									
EP1158	EPDSE-2015-16-ATH					16	17.18	17.6	18.4	19.31						21.42									
EP1159	EPDSE-2015-18-ATH					18	19.24	19.76	20.69	21.7						x									
EP1160	EPDSE-2015-20-ATH					20	21.29	21.94	22.97	24.1						x									
EP1161	EPDSE-2015-25-ATH	25				26.42	27.39	28.67	30.08	x															
EP1162	EPDSE-2015-30-ATH	30				31.53	32.83	34.37	x	x															
EP1163	EPDSE-2015-35-ATH	35				36.64	38.28	40.07	x	x															
EP1164	EPDSE-2015-40-ATH	40				41.85	43.73	45.78	x	x															
EP1165	EPDSE-2016-6-ATH	1.6				2.4	1.54	50					6.84	7.09	7.31	7.5	8.15								
EP1166	EPDSE-2016-8-ATH												8	8.92	9.22	9.46	9.74	10.8							
EP1167	EPDSE-2018-6-ATH	1.8	2.7	1.73	50										6.86	7.11	7.32	7.51	8.18						
EP1168	EPDSE-2018-8-ATH														8	8.94	9.23	9.47	9.76	10.83					
EP1169	EPDSE-2020-4-ATH	2	3	1.92											50					4.8	5	5.17	5.32	5.59	
EP1170	EPDSE-2020-6-ATH																			6	6.88	7.13	7.34	7.52	8.21
EP1171	EPDSE-2020-8-ATH																			8	8.96	9.25	9.49	9.79	10.86
EP1172	EPDSE-2020-10-ATH																			10	11.03	11.35	11.62	12.19	13.52
EP1173	EPDSE-2020-12-ATH																			12	13.1	13.45	13.9	14.58	16.17
EP1174	EPDSE-2020-14-ATH	14	15.16	15.54																16.18	16.97	18.83	x	x	x
EP1175	EPDSE-2020-16-ATH							16	17.21	17.63	18.46	19.37													





**EPDSE-ATH** | Epoch Deep Square Evolution ATH

ID Code	Item Code	Z	Size							Actual Effective Length in Incline angles				
			D	I <sub>n</sub>	l	dn	L	d	Neck R	0.5°	1°	1.5°	2°	3°
EP1176	EPDSE-2020-18-ATH	2	2	18	3	1.92	60	4	-	19.27	19.81	20.74	21.76	x
EP1177	EPDSE-2020-20-ATH			20						21.32	21.99	23.02	24.15	x
EP1178	EPDSE-2020-25-ATH			25						26.44	27.44	28.72	x	x
EP1179	EPDSE-2020-30-ATH			30						31.55	32.88	34.42	x	x
EP1180	EPDSE-2020-35-ATH			35						36.69	38.33	x	x	x
EP1181	EPDSE-2020-40-ATH			40						41.9	43.78	x	x	x
EP1182	EPDSE-2020-50-ATH		50	52.33	54.67	x	x	x						
EP1183	EPDSE-2025-8-ATH		2.5	3.75	2.4	50	4	-	9	9.28	9.51	9.85	10.93	
EP1184	EPDSE-2025-12-ATH								12	13.13	13.48	13.95	14.64	x
EP1185	EPDSE-2025-16-ATH								16	17.25	17.68	18.51	19.42	x
EP1186	EPDSE-2025-20-ATH								20	21.35	22.04	23.07	x	x
EP1187	EPDSE-2025-30-ATH								30	31.58	32.94	x	x	x
EP1188	EPDSE-2025-40-ATH								40	41.95	x	x	x	x
EP1189	EPDSE-2025-50-ATH		50	52.38	x	x	x	x						
EP1190	EPDSE-2030-8-ATH		3	4.5	2.88	55	4	-	9.04	9.31	9.54	9.91	10.99	
EP1191	EPDSE-2030-12-ATH								12	13.16	13.5	14	14.69	16.3
EP1192	EPDSE-2030-16-ATH								16	17.28	17.73	18.57	19.48	21.61
EP1193	EPDSE-2030-20-ATH								20	21.38	22.09	23.13	24.26	26.91
EP1194	EPDSE-2030-25-ATH								25	26.49	27.54	28.83	30.25	x
EP1195	EPDSE-2030-30-ATH								30	31.6	32.99	34.53	36.23	x
EP1196	EPDSE-2030-40-ATH		40	42	43.88	45.94	x	x						
EP1197	EPDSE-2030-50-ATH		50	52.43	54.78	x	x	x						
EP1198	EPDSE-2040-12-ATH		4	6	3.85	60	6	-	13.21	13.54	14.08	14.78	16.39	
EP1199	EPDSE-2040-16-ATH								16	17.32	17.81	18.65	19.56	x
EP1200	EPDSE-2040-20-ATH	20							21.42	22.17	23.21	24.35	x	
EP1201	EPDSE-2040-25-ATH	25							26.53	27.62	28.91	x	x	
EP1202	EPDSE-2040-30-ATH	30							31.65	33.06	34.61	x	x	
EP1203	EPDSE-2040-35-ATH	35							36.86	38.51	x	x	x	
EP1204	EPDSE-2040-40-ATH	40	42.08	43.96	x	x	x							
EP1205	EPDSE-2040-50-ATH	50	52.5	54.85	x	x	x							
EP1206	EPDSE-2050-20-ATH	5	7.5	4.85	70	-	-	21.42	22.17	x	x	x		
EP1207	EPDSE-2050-25-ATH							25	26.53	27.62	x	x	x	
EP1208	EPDSE-2050-30-ATH							30	31.65	x	x	x	x	
EP1209	EPDSE-2050-40-ATH							40	42.08	x	x	x	x	
EP1210	EPDSE-2050-50-ATH							50	52.5	x	x	x	x	
EP1211	EPDSE-2060-20-ATH							6	9	5.85	70	-	-	x
EP1212	EPDSE-2060-30-ATH	80	x	x	x	x	x							
EP1213	EPDSE-2060-40-ATH	90	x	x	x	x	x							
EP1214	EPDSE-2060-50-ATH	100	x	x	x	x	x							

Cutting Conditions   Schnittwerte   Condizioni di taglio   Condiciones de Corte   Conditions de coupe   Valores de corte:					
High Precision Finishing		Page 12-17	High Efficient Roughing		Page 6-11
			High Efficient Roughing (Rib Applications)		Page 18-23