



EPDR | Epoch Deep Radius End Mill

V max
High Speed

▽
Roughing

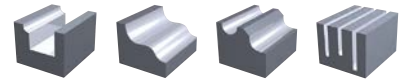
▽▽
Semi-Finishing

▽▽▽
Finishing

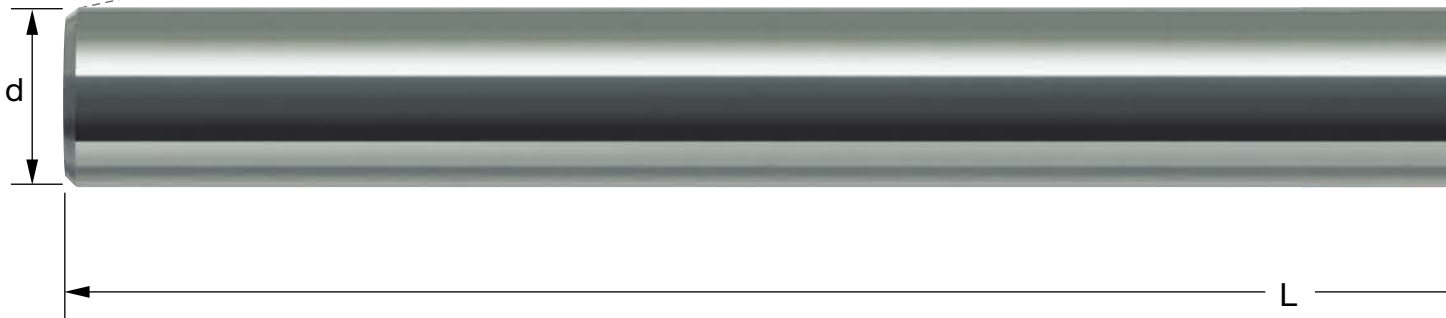
HRC
69

Rib. Miniature

No. of Teeth
2



EPDR-2010-16 (1:1)

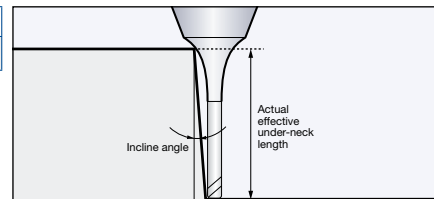


Carbide
Micro Grain

TH45+
Nano-PVD Coating

Rake Angle
Positive

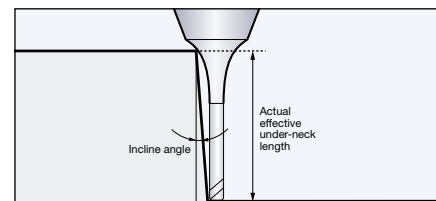
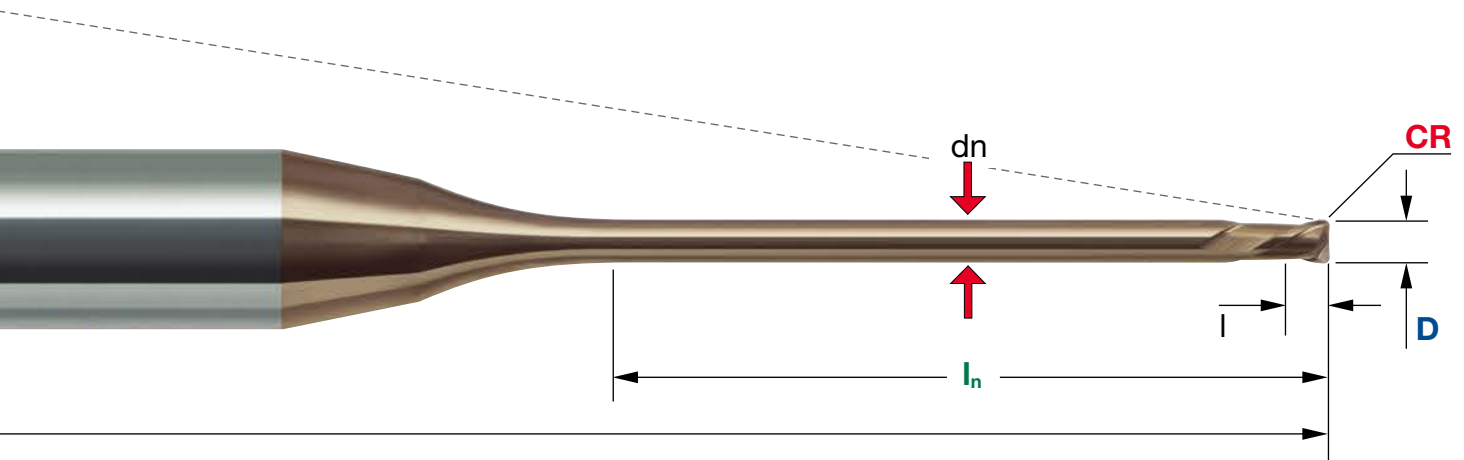
Helix Angle	R Tol. [mm]	D Tol. [mm]	d Tol.
30°	+/- 0.005	0/-0.015	h5



D 0.2 – D 1.0 mm

		Size									
ID Code	Item Code	Z	D	I _n	CR	I	dn	L	d		
EP393	EPDR-2002-05-005	2	0.2	0.5	0.05	0.15	0.17	50	4		
EP394	EPDR-2002-1-005			1							
EP604	EPDR-2002-1.5-005			1.5							
EP605	EPDR-2002-2-005		2								
EP395	EPDR-2003-1-005		0.3	1						0.25	0.27
EP396	EPDR-2003-2-005			2							
EP606	EPDR-2003-3-005			3							
EP607	EPDR-2004-1-01		0.4	1	0.3	0.37					
EP397	EPDR-2004-2-01			2							
EP398	EPDR-2004-3-01			3							
EP399	EPDR-2004-4-01			4							
EP608	EPDR-2005-1-01		0.5	1			0.35			0.47	
EP609	EPDR-2005-2-01			2							
EP400	EPDR-2005-3-01			3							
EP401	EPDR-2005-4-01			4							
EP402	EPDR-2005-5-01		0.6	5	0.4	0.57					
EP403	EPDR-2005-6-01			6							
EP610	EPDR-2006-2-01		0.6	2			0.4			0.57	
EP404	EPDR-2006-4-01			4							
EP405	EPDR-2006-6-01			6							
EP611	EPDR-2006-8-01	0.8	8	0.5				0.77			
EP612	EPDR-2008-2-02		2								
EP406	EPDR-2008-4-02		4								
EP407	EPDR-2008-6-02		6								
EP613	EPDR-2008-8-02	0.8	8		0.8	0.94					
EP614	EPDR-2008-10-02		10								
EP615	EPDR-2010-2-02	1	2	0.2			0.8	0.94			
EP408	EPDR-2010-4-02		4								
EP409	EPDR-2010-6-02		6								
EP410	EPDR-2010-8-02		8								
EP411	EPDR-2010-10-02		10								
EP412	EPDR-2010-12-02		12								
EP616	EPDR-2010-14-02		14								
EP413	EPDR-2010-16-02		16								
EP617	EPDR-2010-18-02		18								
EP414	EPDR-2010-20-02		20								

Actual Effective Length in Incline angles			
0.5°	1°	2°	3°
0.92	1.00	1.15	1.29
1.63	1.79	2.09	2.37
2.18	2.38	2.72	3.04
2.89	3.17	3.67	4.12
1.46	1.57	1.77	1.95
2.73	2.95	3.34	3.68
3.99	4.33	4.91	5.41
1.46	1.57	1.77	1.95
2.72	2.94	3.33	3.67
3.81	4.08	4.53	4.91
5.07	5.47	6.10	6.65
1.46	1.56	1.76	1.93
2.53	2.69	2.95	3.17
3.81	4.08	4.53	4.91
4.89	5.20	5.70	6.12
6.16	6.59	7.29	7.87
7.24	7.71	8.45	9.07
2.53	2.69	2.95	3.17
4.89	5.20	5.70	6.12
7.24	7.71	8.45	9.07
9.38	9.92	10.75	11.43
2.53	2.68	2.93	3.15
4.88	5.19	5.68	6.10
7.01	7.39	7.98	8.46
9.37	9.91	10.74	11.42
11.50	12.09	13.00	13.73
2.63	2.77	3.00	3.21
4.74	4.94	5.27	5.54
7.12	7.47	8.03	8.51
9.22	9.63	10.28	10.80
11.60	12.17	13.05	13.77
13.71	14.33	15.29	16.05
15.81	16.48	17.50	18.70
17.91	18.62	19.70	21.35
20.00	20.76	21.88	24.02
22.09	22.88	24.06	26.66



D 1.5 – D 6.0 mm

Size										Actual Effective Length in Incline angles			
ID Code	Item Code	Z	D	I _n	CR	I	dn	L	d	0.5°	1°	2°	3°
EP618	EPDR-2015-4-02	2	1.5	4	0.2	1.35	1.42	50	4	4.79	4.98	5.30	5.57
EP415	EPDR-2015-8-02			8				55		9.28	9.68	10.31	10.82
EP416	EPDR-2015-12-02			12				60		13.46	13.96	14.71	16.10
EP417	EPDR-2015-15-02			15						16.91	17.59	18.63	20.09
EP418	EPDR-2015-20-02			20						22.13	22.92	24.11	x
EP619	EPDR-2020-4-02		2	4	0.5	1.7	1.92	50		4.79	4.98	5.30	5.57
EP620	EPDR-2020-4-05			8				55		4.78	4.96	5.26	5.53
EP419	EPDR-2020-8-02			12				60		8.98	9.24	9.75	10.80
EP420	EPDR-2020-8-05			16				65		8.94	9.22	9.69	10.70
EP421	EPDR-2020-12-02			20				70		13.46	13.96	14.71	16.10
EP422	EPDR-2020-12-05			25						13.45	13.94	14.68	16.00
EP423	EPDR-2020-16-02			30						17.62	18.19	19.33	x
EP424	EPDR-2020-16-05									17.61	18.18	19.27	x
EP425	EPDR-2020-20-02									22.13	22.92	24.11	x
EP426	EPDR-2020-20-05									22.12	22.90	24.06	x
EP621	EPDR-2020-25-02		3	25	0.2	2.5	2.86	65		27.33	28.20	x	x
EP622	EPDR-2020-25-05			30				70		27.32	28.19	x	x
EP623	EPDR-2020-30-02			8				55		32.51	33.46	x	x
EP624	EPDR-2020-30-05			12				60		32.50	33.45	x	x
EP427	EPDR-2030-8-02			16				65		9.07	9.33	9.92	10.98
EP428	EPDR-2030-8-05			20				70		9.06	9.31	9.86	10.89
EP429	EPDR-2030-12-02			24						13.19	13.52	14.71	16.29
EP430	EPDR-2030-12-05			28						13.18	13.51	14.65	16.19
EP431	EPDR-2030-16-02			32						17.75	18.29	19.49	21.60
EP432	EPDR-2030-16-05			36						17.74	18.27	19.43	21.50
EP433	EPDR-2030-20-02		4	20	0.5	3.5	3.8	65	21.88	22.49	24.28	26.91	
EP434	EPDR-2030-20-05			24				70	21.87	22.47	24.22	26.80	
EP435	EPDR-2030-30-02			28				75	32.63	33.55	36.25	x	
EP436	EPDR-2030-30-05			32				80	32.62	33.53	36.18	x	
EP625	EPDR-2040-12-05			36					13.28	13.58	14.82	16.39	
EP626	EPDR-2040-24-05		5	24	0.5	4	4.75	70	26.10	26.73	x	x	
EP627	EPDR-2040-36-05			36				80	38.41	39.68	x	x	
EP628	EPDR-2050-20-05			40				85	21.54	22.38	x	x	
EP629	EPDR-2050-40-05			48				90	42.57	x	x	x	
EP630	EPDR-2060-18-05		6	18		5	5.7	60	x	x	x	x	
EP631	EPDR-2060-36-05			24				80	x	x	x	x	
EP632	EPDR-2060-54-05			36				100	x	x	x	x	

x = no contact