

# A Brand AE-LNBD-H

Advanced Performance Carbide End Mills with DUOREY Coating



## List 8590

A BRAND AE-LNBD-H, Long Neck, Rib Processing



SPEED FEED  
1463-1466

CARBIDE

DUOREY

2 FLUTE

30°

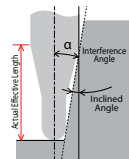
SHANK

h4

STUB

PACKED

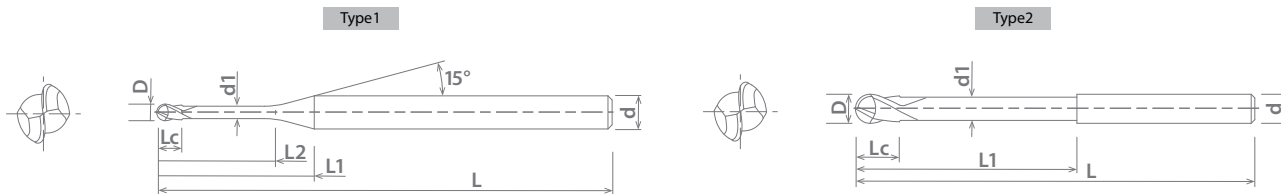
1 PIECE



Cutting Diameter Tolerance	
0.1mm ≤ D ≤ 0.5mm	+/- 0.003mm
0.6mm ≤ D ≤ 6mm	+/- 0.005mm

EDP Number	Diameter	Length of Cut	Neck Length	Non-Taper Neck Length	Neck Diameter	Interference Angle	Effective Neck Length by Incline Angle					Overall Length	Shank Diameter	Type
							0.5° (mm)	1.0° (mm)	1.5° (mm)	2.0° (mm)	3.0° (mm)			
3056101	0.10	0.08	7.60	0.30	0.10	14.52	0.30	0.31	0.32	0.33	0.36	45.00	4.00	1
3056102	0.10	0.08	7.80	0.50	0.10	14.16	0.51	0.53	0.54	0.56	0.60	45.00	4.00	1
3056104	0.20	0.16	7.60	0.50	0.19	14.18	0.53	0.54	0.56	0.58	0.62	45.00	4.00	1
3056105	0.20	0.16	7.90	0.75	0.19	13.74	0.79	0.81	0.84	0.86	0.93	45.00	4.00	1
3056106	0.20	0.16	8.10	1.00	0.19	13.33	1.04	1.08	1.11	1.15	1.24	45.00	4.00	1
3056109	0.20	0.16	8.60	1.50	0.19	12.58	1.56	1.61	1.67	1.73	1.86	45.00	4.00	1
3056110	0.20	0.16	8.90	1.75	0.19	12.23	1.82	1.88	1.94	2.01	2.17	45.00	4.00	1
3056111	0.20	0.16	9.10	2.00	0.19	11.90	2.08	2.15	2.22	2.30	2.48	45.00	4.00	1
3056115	0.30	0.24	7.50	0.60	0.29	14.06	0.63	0.65	0.66	0.68	0.73	45.00	4.00	1
3056117	0.30	0.24	7.90	1.00	0.29	13.36	1.04	1.07	1.11	1.14	1.23	45.00	4.00	1
3056118	0.30	0.24	8.20	1.25	0.29	12.96	1.30	1.34	1.39	1.43	1.54	45.00	4.00	1
3056119	0.30	0.24	8.40	1.50	0.29	12.59	1.56	1.61	1.66	1.72	1.85	45.00	4.00	1
3056122	0.30	0.24	8.90	2.00	0.29	11.89	2.08	2.14	2.22	2.29	2.47	45.00	4.00	1
3056124	0.30	0.24	9.40	2.50	0.29	11.27	2.59	2.68	2.77	2.87	3.09	45.00	4.00	1
3056125	0.30	0.24	9.90	3.00	0.29	10.71	3.11	3.21	3.32	3.44	3.71	45.00	4.00	1
3056127	0.30	0.24	10.90	4.00	0.29	9.74	4.14	4.28	4.43	4.59	4.96	45.00	4.00	1
3056129	0.30	0.24	11.90	5.00	0.29	8.93	5.18	5.35	5.54	5.74	6.20	45.00	4.00	1
3056132	0.40	0.30	7.60	0.80	0.38	13.71	0.85	0.88	0.90	0.93	0.99	45.00	4.00	1
3056133	0.40	0.30	7.80	1.00	0.38	13.37	1.06	1.09	1.12	1.16	1.24	45.00	4.00	1
3056135	0.40	0.30	8.30	1.50	0.38	12.57	1.58	1.63	1.68	1.73	1.86	45.00	4.00	1
3056136	0.40	0.30	8.80	2.00	0.38	11.86	2.09	2.16	2.23	2.31	2.48	45.00	4.00	1
3056138	0.40	0.30	9.30	2.50	0.38	11.22	2.61	2.70	2.79	2.88	3.10	45.00	4.00	1
3056139	0.40	0.30	9.80	3.00	0.38	10.65	3.13	3.23	3.34	3.46	3.72	45.00	4.00	1
3056140	0.40	0.30	10.30	3.50	0.38	10.14	3.64	3.76	3.89	4.03	4.35	45.00	4.00	1
3056141	0.40	0.30	10.80	4.00	0.38	9.67	4.16	4.30	4.45	4.61	4.97	45.00	4.00	1
3056143	0.40	0.30	11.80	5.00	0.38	8.85	5.20	5.37	5.56	5.76	6.21	45.00	4.00	1
3056145	0.40	0.30	12.80	6.00	0.38	8.15	6.23	6.44	6.66	6.91	7.45	45.00	4.00	1
3056147	0.50	0.40	7.60	1.00	0.48	13.40	1.06	1.09	1.12	1.15	1.23	45.00	4.00	1
3056148	0.50	0.40	8.10	1.50	0.48	12.58	1.58	1.62	1.67	1.73	1.85	45.00	4.00	1
3056149	0.50	0.40	8.60	2.00	0.48	11.85	2.09	2.16	2.23	2.30	2.47	45.00	4.00	1
3056150	0.50	0.40	9.10	2.50	0.48	11.20	2.61	2.69	2.78	2.88	3.09	45.00	4.00	1
3056151	0.50	0.40	9.60	3.00	0.48	10.62	3.13	3.23	3.33	3.45	3.71	45.00	4.00	1
3056152	0.50	0.40	10.10	3.50	0.48	10.09	3.64	3.76	3.89	4.03	4.33	45.00	4.00	1
3056153	0.50	0.40	10.60	4.00	0.48	9.61	4.16	4.30	4.44	4.60	4.95	45.00	4.00	1
3056154	0.50	0.40	11.10	4.50	0.48	9.18	4.68	4.83	5.00	5.18	5.58	45.00	4.00	1
3056155	0.50	0.40	11.60	5.00	0.48	8.78	5.19	5.37	5.55	5.75	6.20	45.00	4.00	1

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



CONTINUED

P					M			K	N		S		H			
Steel					Stainless Steel				Non-Ferrous		HRSA		Hardened Steel			
Low	Medium	High	Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1065	4140								6061	Casting				
1018	1045		4340					7075								

○ Good ⊗ Best





# A Brand AE-LNBD-H

Advanced Performance Carbide End Mills with DUOREY Coating

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

## List 8590 (Continued)

A BRAND AE-LNBD-H, Long Neck, Rib Processing



SPEED FEED 1463-1466

CARBIDE

DUOREY

2 FLUTE

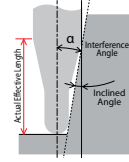
30°



SHANK h4

STUB

PACKED 1 PIECE



Cutting Diameter Tolerance	
0.1mm ≤ D ≤ 0.5mm	+/- 0.003mm
0.6mm ≤ D ≤ 6mm	+/- 0.005mm

EDP Number	Diameter	Length of Cut	Neck Length	Non-Taper Neck Length	Neck Diameter	Interference Angle	Effective Neck Length by Incline Angle					Overall Length	Shank Diameter	Type
							0.5° (mm)	1.0° (mm)	1.5° (mm)	2.0° (mm)	3.0° (mm)			
3056157	0.50	0.40	12.60	6.00	0.48	8.08	6.23	6.44	6.66	6.90	7.44	45.00	4.00	1
3056159	0.50	0.40	14.60	8.00	0.48	6.97	8.29	8.58	8.88	9.20	9.93	45.00	4.00	1
3056161	0.50	0.40	16.60	10.00	0.48	6.12	10.36	10.71	11.09	11.50	12.41	45.00	4.00	1
3056164	0.60	0.50	7.60	1.20	0.55	12.99	1.32	1.36	1.40	1.44	1.53	45.00	4.00	1
3056166	0.60	0.50	8.40	2.00	0.55	11.76	2.15	2.21	2.28	2.36	2.53	45.00	4.00	1
3056168	0.60	0.50	8.90	2.50	0.55	11.10	2.67	2.75	2.84	2.93	3.15	45.00	4.00	1
3056169	0.60	0.50	9.40	3.00	0.55	10.51	2.67	2.75	2.84	2.93	3.15	45.00	4.00	1
3056171	0.60	0.50	9.90	3.50	0.55	9.98	3.70	3.82	3.95	4.08	4.39	45.00	4.00	1
3056172	0.60	0.50	10.40	4.00	0.55	9.50	4.22	4.35	4.50	4.66	5.01	45.00	4.00	1
3056175	0.60	0.50	11.40	5.00	0.55	8.67	5.25	5.42	5.61	5.81	6.26	45.00	4.00	1
3056176	0.60	0.50	11.90	5.50	0.55	8.30	5.77	5.96	6.16	6.38	6.88	45.00	4.00	1
3056177	0.60	0.50	12.40	6.00	0.55	7.96	6.28	6.49	6.72	6.96	7.50	45.00	4.00	1
3056178	0.60	0.50	12.90	6.50	0.55	7.65	6.80	7.03	7.27	7.53	8.12	45.00	4.00	1
3056181	0.60	0.50	14.40	8.00	0.55	6.85	8.35	8.63	8.93	9.26	9.99	45.00	4.00	1
3056185	0.60	0.50	16.40	10.00	0.55	6.01	10.42	10.77	11.15	11.56	12.47	45.00	4.00	1
3056187	0.60	0.50	18.40	12.00	0.55	5.36	12.49	12.91	13.37	13.86	14.96	50.00	4.00	1
3056190	0.80	0.60	8.10	2.00	0.75	11.74	2.15	2.21	2.27	2.34	2.50	45.00	4.00	1
3056193	0.80	0.60	9.10	3.00	0.75	10.42	3.18	3.28	3.38	3.49	3.75	45.00	4.00	1
3056194	0.80	0.60	10.10	4.00	0.75	9.37	4.21	4.35	4.49	4.64	4.99	45.00	4.00	1
3056195	0.80	0.60	11.10	5.00	0.75	8.51	5.25	5.42	5.60	5.79	6.23	45.00	4.00	1
3056196	0.80	0.60	12.10	6.00	0.75	7.80	6.28	6.49	6.71	6.94	7.48	45.00	4.00	1
3056197	0.80	0.60	13.10	7.00	0.75	7.19	7.31	7.55	7.81	8.09	8.72	45.00	4.00	1
3056198	0.80	0.60	14.10	8.00	0.75	6.67	8.35	8.62	8.92	9.24	9.96	45.00	4.00	1
3056200	0.80	0.60	16.10	10.00	0.75	5.83	10.41	10.76	11.14	11.54	12.45	45.00	4.00	1
3056203	1.00	0.80	7.70	2.00	0.95	11.71	2.14	2.20	2.26	2.33	2.48	45.00	4.00	1
3056206	1.00	0.80	8.70	3.00	0.95	10.33	3.18	3.27	3.37	3.48	3.72	45.00	4.00	1
3056208	1.00	0.80	9.70	4.00	0.95	9.23	4.21	4.34	4.48	4.63	4.97	45.00	4.00	1
3056210	1.00	0.80	10.70	5.00	0.95	8.35	5.24	5.41	5.59	5.78	6.21	45.00	4.00	1
3056212	1.00	0.80	11.70	6.00	0.95	7.62	6.28	6.48	6.69	6.93	7.45	45.00	4.00	1
3056214	1.00	0.80	12.70	7.00	0.95	7.00	7.31	7.55	7.80	8.08	8.69	45.00	4.00	1
3056216	1.00	0.80	13.70	8.00	0.95	6.48	8.34	8.62	8.91	9.23	9.94	45.00	4.00	1
3056218	1.00	0.80	14.70	9.00	0.95	6.03	9.38	9.69	10.02	10.38	11.18	45.00	4.00	1
3056219	1.00	0.80	15.70	10.00	0.95	5.64	10.41	10.76	11.13	11.53	12.42	45.00	4.00	1
3056221	1.00	0.80	17.70	12.00	0.95	4.99	12.48	12.90	13.34	13.83	14.91	45.00	4.00	1
3056223	1.00	0.80	19.70	14.00	0.95	4.47	14.55	15.04	15.56	16.13	17.40	50.00	4.00	1
3056224	1.00	0.80	21.70	16.00	0.95	4.05	16.61	17.18	17.78	18.43	19.88	50.00	4.00	1
3056225	1.00	0.80	23.70	18.00	0.95	3.70	18.68	19.31	19.99	20.73	22.37	55.00	4.00	1
3056226	1.00	0.80	25.70	20.00	0.95	3.41	20.75	21.45	22.21	23.03	24.86	55.00	4.00	1
3056227	1.00	0.80	27.70	22.00	0.95	3.16	22.82	23.59	24.43	25.33	27.34	60.00	4.00	1
3056231	1.20	1.00	7.70	2.40	1.15	11.04	2.55	2.62	2.69	2.77	2.95	45.00	4.00	1
3056234	1.20	1.00	9.30	4.00	1.15	9.08	4.21	4.33	4.47	4.61	4.94	45.00	4.00	1
3056236	1.20	1.00	11.30	6.00	1.15	7.42	6.27	6.47	6.68	6.91	7.43	45.00	4.00	1
3056237	1.20	1.00	13.30	8.00	1.15	6.27	8.34	8.61	8.90	9.21	9.91	45.00	4.00	1
3056238	1.20	1.00	15.30	10.00	1.15	5.43	10.41	10.75	11.12	11.51	12.40	45.00	4.00	1
3056243	1.20	1.00	25.30	20.00	1.15	3.24	20.74	21.45	22.20	23.01	24.83	55.00	4.00	1
3056257	1.50	1.20	18.80	14.00	1.45	3.97	14.54	15.02	15.53	16.09	17.34	50.00	4.00	1
3056258	1.50	1.20	20.80	16.00	1.45	3.58	16.60	17.16	17.75	18.39	19.82	50.00	4.00	1
3056246	1.50	1.20	7.80	3.00	1.45	10.03	2.65	2.72	2.79	2.87	3.04	55.00	4.00	1
3056248	1.50	1.20	8.80	4.00	1.45	8.81	4.20	4.32	4.45	4.59	4.91	55.00	4.00	1
3056251	1.50	1.20	10.80	6.00	1.45	7.09	6.27	6.46	6.67	6.89	7.39	55.00	4.00	1
3056253	1.50	1.20	12.80	8.00	1.45	5.93	8.34	8.60	8.88	9.19	9.88	55.00	4.00	1
3056255	1.50	1.20	14.80	10.00	1.45	5.09	10.40	10.74	11.10	11.49	12.36	55.00	4.00	1
3056256	1.50	1.20	16.80	12.00	1.45	4.46	12.47	12.88	13.32	13.79	14.85	55.00	4.00	1

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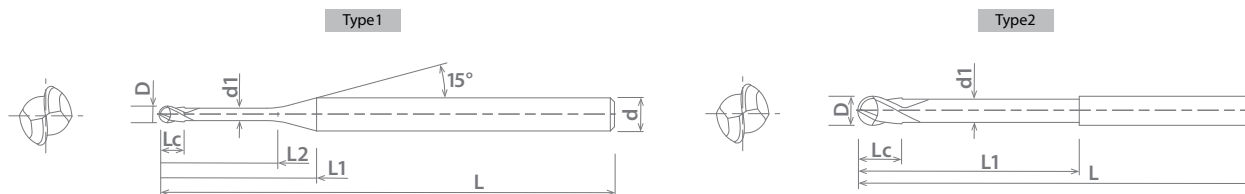
## List 8590 (Continued)

A BRAND AE-LNBD-H, Long Neck, Rib Processing



EDP Number	Diameter	Length of Cut	Neck Length	Non-Taper Neck Length	Neck Diameter	Interference Angle	Effective Neck Length by Incline Angle					Overall Length	Shank Diameter	Type	
							0.5°	1.0°	1.5°	2.0°	3.0°				
	D (mm)	Lc (mm)	L1 (mm)	L2 (mm)	d1 (mm)	α (°)	(mm)	(mm)	(mm)	(mm)	(mm)	L (mm)	d (mm)		
3056259	●	1.50	1.20	22.80	18.00	1.45	3.25	18.67	19.30	19.97	20.69	22.31	55.00	4.00	1
3056260	●	1.50	1.20	24.80	20.00	1.45	2.98	20.74	21.44	22.18	22.99	-	55.00	4.00	1
3056261	●	1.50	1.20	26.80	22.00	1.45	2.75	22.81	23.58	24.40	25.29	-	60.00	4.00	1
3056263	●	1.50	1.20	34.80	30.00	1.45	2.11	31.08	32.13	33.27	34.49	-	70.00	4.00	1
3056265	●	1.60	1.30	12.60	8.00	1.55	5.81	8.33	8.60	8.88	9.18	9.87	45.00	4.00	1
3056266	●	1.60	1.30	16.60	12.00	1.55	4.35	12.47	12.88	13.31	13.78	14.84	45.00	4.00	1
3056267	●	1.60	1.30	20.60	16.00	1.55	3.47	16.60	17.15	17.75	18.38	19.81	50.00	4.00	1
3056268	●	1.60	1.30	24.60	20.00	1.55	2.89	20.74	21.43	22.18	22.98	-	55.00	4.00	1
3056272	●	2.00	1.60	7.80	4.00	1.95	8.25	4.19	4.30	4.42	4.55	4.85	45.00	4.00	1
3056275	●	2.00	1.60	9.80	6.00	1.95	6.43	6.26	6.44	6.64	6.85	7.33	45.00	4.00	1
3056277	●	2.00	1.60	11.80	8.00	1.95	5.26	8.33	8.58	8.86	9.15	9.82	45.00	4.00	1
3056279	●	2.00	1.60	13.80	10.00	1.95	4.45	10.39	10.72	11.07	11.45	12.31	45.00	4.00	1
3056281	●	2.00	1.60	15.80	12.00	1.95	3.86	12.46	12.86	13.29	13.75	14.79	45.00	4.00	1
3056284	●	2.00	1.60	17.80	14.00	1.95	3.40	14.53	15.00	15.51	16.05	17.28	50.00	4.00	1
3056285	●	2.00	1.60	19.80	16.00	1.95	3.04	16.60	17.14	17.72	18.35	19.76	50.00	4.00	1
3056288	●	2.00	1.60	23.80	20.00	1.95	2.51	20.73	21.42	22.16	22.95	-	55.00	4.00	1
3056290	●	2.00	1.60	25.80	22.00	1.95	2.31	22.80	23.56	24.37	25.25	-	60.00	4.00	1
3056291	●	2.00	1.60	28.80	25.00	1.95	2.06	25.90	26.77	27.70	28.70	-	65.00	4.00	1
3056293	●	2.00	1.60	33.80	30.00	1.95	1.75	31.07	32.12	33.24	-	-	70.00	4.00	1
3056294	●	2.00	1.60	38.80	35.00	1.95	1.52	36.24	37.46	38.78	-	-	70.00	4.00	1
3056295	●	2.00	1.60	43.80	40.00	1.95	1.34	41.40	42.81	-	-	-	80.00	4.00	1
3056298	●	2.50	2.00	13.10	10.00	2.35	3.62	10.58	10.90	11.25	11.63	12.48	45.00	4.00	1
3056299	●	2.50	2.00	18.10	15.00	2.35	2.55	15.75	16.25	16.80	17.38	-	50.00	4.00	1
3056300	●	2.50	2.00	23.10	20.00	2.35	1.97	20.92	21.60	22.34	-	-	55.00	4.00	1
3056303	●	2.50	2.00	38.10	35.00	2.35	1.17	36.42	37.65	-	-	-	70.00	4.00	1
3056304	●	3.00	2.40	11.90	6.00	2.85	8.15	6.44	6.61	6.79	7.00	7.45	50.00	6.00	1
3056305	●	3.00	2.40	13.90	8.00	2.85	6.87	8.50	8.75	9.01	9.29	9.93	50.00	6.00	1
3056306	●	3.00	2.40	15.90	10.00	2.85	5.93	10.57	10.89	11.23	11.59	12.42	50.00	6.00	1
3056307	●	3.00	2.40	17.90	12.00	2.85	5.22	12.64	13.03	13.44	13.89	14.91	55.00	6.00	1
3056309	●	3.00	2.40	19.90	14.00	2.85	4.66	14.71	15.17	15.66	16.19	17.39	55.00	6.00	1
3056310	●	3.00	2.40	20.90	15.00	2.85	4.42	15.74	16.24	16.77	17.34	18.63	55.00	6.00	1
3056311	●	3.00	2.40	21.90	16.00	2.85	4.20	16.77	17.31	17.88	18.49	19.88	55.00	6.00	1
3056312	●	3.00	2.40	25.90	20.00	2.85	3.52	20.91	21.58	22.31	23.09	24.85	60.00	6.00	1
3056313	●	3.00	2.40	30.90	25.00	2.85	2.92	26.08	26.93	27.85	28.84	-	65.00	6.00	1
3056314	●	3.00	2.40	35.90	30.00	2.85	2.50	31.24	32.28	33.39	34.59	-	70.00	6.00	1
3056318	●	3.50	2.80	19.90	15.00	3.35	3.92	15.73	16.22	16.74	17.31	18.58	55.00	6.00	1
3056327	●	4.00	3.20	12.00	8.00	3.85	5.65	8.49	8.71	8.96	9.22	9.81	60.00	6.00	1
3056328	●	4.00	3.20	14.00	10.00	3.85	4.73	10.55	10.85	11.17	11.52	12.30	60.00	6.00	1
3056329	●	4.00	3.20	16.00	12.00	3.85	4.07	12.62	12.99	13.39	13.82	14.79	60.00	6.00	1
3056333	●	4.00	3.20	20.00	16.00	3.85	3.17	16.76	17.27	17.82	18.42	19.76	60.00	6.00	1
3056334	●	4.00	3.20	24.00	20.00	3.85	2.60	20.89	21.55	22.26	23.02	-	65.00	6.00	1

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



CONTINUED

P					M			K	N		S		H					
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel					
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium						
Low	Medium	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1065	4140	4340				7075										
1018	1045																	

○ Good ⊙ Best





# A Brand AE-LNBD-H

Advanced Performance Carbide End Mills with DUOREY Coating

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

## List 8590 (Continued)



SPEED FEED  
1463-1466

CARBIDE

DUOREY

2 FLUTE

30°

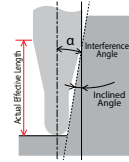


SHANK  
h4

STUB

PACKED  
1 PIECE

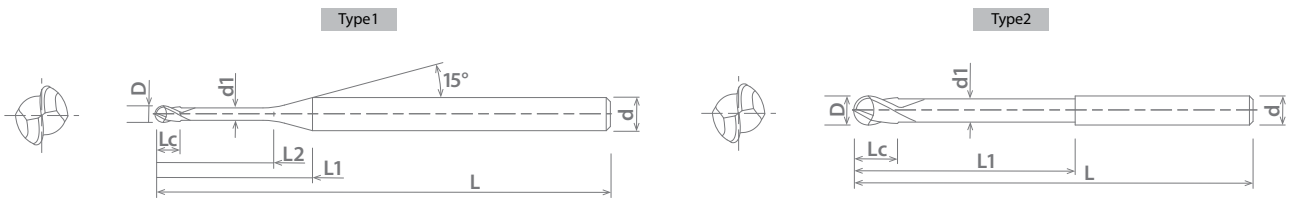
A BRAND AE-LNBD-H, Long Neck, Rib Processing



Cutting Diameter Tolerance	
0.1mm ≤ D ≤ 0.5mm	+/- 0.003mm
0.6mm ≤ D ≤ 6mm	+/- 0.005mm

EDP Number	Diameter	Length of Cut			Non-Taper Neck Length		Neck Diameter	Interference Angle	Effective Neck Length by Incline Angle					Overall Length	Shank Diameter	Type
		D (mm)	Lc (mm)	L1 (mm)	L2 (mm)	d1 (mm)	α (°)	0.5° (mm)	1.0° (mm)	1.5° (mm)	2.0° (mm)	3.0° (mm)	L (mm)	d (mm)		
3056335	4.00	3.20	29.00	25.00	3.85	2.12	26.06	26.90	27.80	28.77	-	70.00	6.00	1		
3056336	4.00	3.20	34.00	30.00	3.85	1.79	31.23	32.25	33.34	-	-	80.00	6.00	1		
3056337	4.00	3.20	39.00	35.00	3.85	1.55	36.40	37.60	38.88	-	-	80.00	6.00	1		
3056338	4.00	3.20	44.00	40.00	3.85	1.37	41.56	42.94	-	-	-	90.00	6.00	1		
3056339	4.00	3.20	49.00	45.00	3.85	1.22	46.73	48.29	-	-	-	90.00	6.00	1		
3056341	5.00	4.00	12.10	10.00	4.85	2.95	10.54	10.82	11.12	11.45	-	60.00	6.00	1		
3056342	5.00	4.00	17.10	15.00	4.85	1.95	15.71	16.17	16.66	-	-	60.00	6.00	1		
3056344	5.00	4.00	27.10	25.00	4.85	1.17	26.04	26.86	16.66	-	-	60.00	6.00	1		
3056345	5.00	4.00	32.10	30.00	4.85	0.97	31.21	-	16.66	-	-	80.00	6.00	1		
3056347	5.00	4.00	42.10	40.00	4.85	0.73	41.55	-	16.66	-	-	90.00	6.00	1		
3056351	6.00	4.80	-	12.00	5.85	-	-	-	16.66	-	-	60.00	6.00	2		
3056353	6.00	4.80	-	20.00	5.85	-	-	-	16.66	-	-	70.00	6.00	2		
3056355	6.00	4.80	-	30.00	5.85	-	-	-	16.66	-	-	80.00	6.00	2		
3056356	6.00	4.80	-	35.00	5.85	-	-	-	16.66	-	-	80.00	6.00	2		
3056358	6.00	4.80	-	45.00	5.85	-	-	-	16.66	-	-	100.00	6.00	2		
3056359	6.00	4.80	-	50.00	5.85	-	-	-	16.66	-	-	120.00	6.00	2		

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P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium				
Low	Medium	High														
1010	1035	1065	4140	○	○	300	400	17-4 PH	6061	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1018	1045		4340						7075						○	○

○ Good ⊗ Best

