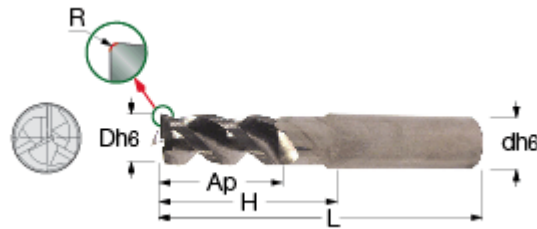
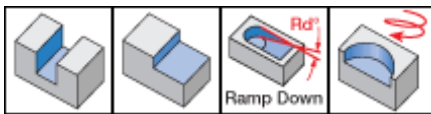




ECA-H3-CF : CHATTERFREE, 3 flute solid carbide endmills with 39-41° different helix, 3, 4 and 5xD neck relief for machining aluminum. Excellent damping ability. Used for both roughing and finishing.



Aluminum



Designation	D	d	ap	H	L	r	Flute	Rd°/b>	Shank	fz(min)	fz(max)	Grade
ECA-H3 03-07/12C06CF-R01	3.00	6.00	7.00	12.00	57.00	0.10	3	5.0	C	0.03	0.05	IC08
ECA-H3 04-10/16C06CF-R02	4.00	6.00	10.00	16.00	57.00	0.20	3	5.0	C	0.03	0.05	IC08
ECA-H3 05-12/20C06CF-R02	5.00	6.00	12.00	20.00	57.00	0.20	3	5.0	C	0.03	0.06	IC08
ECA-H3 06-09/18C06CF-R02	6.00	6.00	9.00	18.00	57.00	0.20	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-09/18C06CF-R04	6.00	6.00	9.00	18.00	57.00	0.40	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-09/18C06CF-R08	6.00	6.00	9.00	18.00	57.00	0.80	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-09/30C06CF-R02	6.00	6.00	9.00	30.00	65.00	0.20	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-09/30C06CF-R04	6.00	6.00	9.00	30.00	65.00	0.40	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-09/30C06CF-R08	6.00	6.00	9.00	30.00	65.00	0.80	3	5.0	C	0.03	0.07	IC08
ECA-H3 06-14/24C06CF-R02	6.00	6.00	14.00	24.00	60.00	0.20	3	5.0	C	0.03	0.07	IC08
ECA-H3 08-12/24C08CF-R02	8.00	8.00	12.00	24.00	63.00	0.20	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-12/24C08CF-R04	8.00	8.00	12.00	24.00	63.00	0.40	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-12/24C08CF-R08	8.00	8.00	12.00	24.00	63.00	0.80	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-12/40C08CF-R02	8.00	8.00	12.00	40.00	79.00	0.20	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-12/40C08CF-R04	8.00	8.00	12.00	40.00	79.00	0.40	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-12/40C08CF-R08	8.00	8.00	12.00	40.00	79.00	0.80	3	5.0	C	0.03	0.09	IC08
ECA-H3 08-18/32C08CF-R02	8.00	8.00	18.00	32.00	68.00	0.20	3	5.0	C	0.03	0.09	IC08
ECA-H3 10-15/30C10CF-R02	10.00	10.00	15.00	30.00	72.00	0.20	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/30C10CF-R04	10.00	10.00	15.00	30.00	72.00	0.40	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/30C10CF-R08	10.00	10.00	15.00	30.00	72.00	0.80	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/30C10CF-R16	10.00	10.00	15.00	30.00	72.00	1.60	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/50C10CF-R02	10.00	10.00	15.00	50.00	100.00	0.20	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/50C10CF-R04	10.00	10.00	15.00	50.00	100.00	0.40	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-15/50C10CF-R08	10.00	10.00	15.00	50.00	100.00	0.80	3	5.0	C	0.03	0.10	IC08

ECA-H3 10-15/50C10CF-R16	10.00	10.00	15.00	50.00	100.00	1.60	3	5.0	C	0.03	0.10	IC08
ECA-H3 10-22/40C10CF-R02	10.00	10.00	22.00	40.00	80.00	0.20	3	5.0	C	0.03	0.10	IC08
ECA-H3 12-18/36C12CF-R02	12.00	12.00	18.00	36.00	83.00	0.20	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/36C12CF-R04	12.00	12.00	18.00	36.00	83.00	0.40	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/36C12CF-R08	12.00	12.00	18.00	36.00	83.00	0.80	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/36C12CF-R16	12.00	12.00	18.00	36.00	83.00	1.60	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/36C12CF-R20	12.00	12.00	18.00	36.00	83.00	2.00	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/60C12CF-R02	12.00	12.00	18.00	60.00	100.00	0.20	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/60C12CF-R04	12.00	12.00	18.00	60.00	100.00	0.40	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/60C12CF-R08	12.00	12.00	18.00	60.00	100.00	0.80	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/60C12CF-R16	12.00	12.00	18.00	60.00	100.00	1.60	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-18/60C12CF-R20	12.00	12.00	18.00	60.00	100.00	2.00	3	5.0	C	0.04	0.11	IC08
ECA-H3 12-26/48C12CF-R02	12.00	12.00	26.00	48.00	100.00	0.20	3	5.0	C	0.04	0.11	IC08
ECA-H3 16-24/48C16CF-R02	16.00	16.00	24.00	48.00	92.00	0.20	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R04	16.00	16.00	24.00	48.00	92.00	0.40	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R08	16.00	16.00	24.00	48.00	92.00	0.80	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R16	16.00	16.00	24.00	48.00	92.00	1.60	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R20	16.00	16.00	24.00	48.00	92.00	2.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R32	16.00	16.00	24.00	48.00	92.00	3.20	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R40	16.00	16.00	24.00	48.00	92.00	4.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/48C16CF-R50	16.00	16.00	24.00	48.00	92.00	5.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R02	16.00	16.00	24.00	80.00	128.00	0.20	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R04	16.00	16.00	24.00	80.00	128.00	0.40	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R08	16.00	16.00	24.00	80.00	128.00	0.80	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R16	16.00	16.00	24.00	80.00	128.00	1.60	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R20	16.00	16.00	24.00	80.00	128.00	2.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R32	16.00	16.00	24.00	80.00	128.00	3.20	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R40	16.00	16.00	24.00	80.00	128.00	4.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-24/80C16CF-R50	16.00	16.00	24.00	80.00	128.00	5.00	3	5.0	C	0.05	0.13	IC08
ECA-H3 16-34/64C16CF-R02	16.00	16.00	34.00	64.00	115.00	0.20	3	5.0	C	0.05	0.13	IC08
ECA-H3 20-30/60C20CF-R02	20.00	20.00	30.00	60.00	110.00	0.20	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R04	20.00	20.00	30.00	60.00	110.00	0.40	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R08	20.00	20.00	30.00	60.00	110.00	0.80	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R16	20.00	20.00	30.00	60.00	110.00	1.60	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R20	20.00	20.00	30.00	60.00	110.00	2.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R32	20.00	20.00	30.00	60.00	110.00	3.20	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R40	20.00	20.00	30.00	60.00	110.00	4.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/60C20CF-R50	20.00	20.00	30.00	60.00	110.00	5.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R02	20.00	20.00	30.00	100.00	150.00	0.20	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R04	20.00	20.00	30.00	100.00	150.00	0.40	3	5.0	C	0.05	0.14	IC08

ECA-H3 20-30/100C20CF-R08	20.00	20.00	30.00	100.00	150.00	0.80	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R16	20.00	20.00	30.00	100.00	150.00	1.60	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R20	20.00	20.00	30.00	100.00	150.00	2.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R32	20.00	20.00	30.00	100.00	150.00	3.20	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R40	20.00	20.00	30.00	100.00	150.00	4.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-30/100C20CF-R50	20.00	20.00	30.00	100.00	150.00	5.00	3	5.0	C	0.05	0.14	IC08
ECA-H3 20-42/80C20CF-R02	20.00	20.00	42.00	80.00	130.00	0.20	3	5.0	C	0.05	0.14	IC08
ECA-H3 25-38/75C25CF-R02	25.00	25.00	38.00	75.00	130.00	0.20	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R04	25.00	25.00	38.00	75.00	130.00	0.40	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R08	25.00	25.00	38.00	75.00	130.00	0.80	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R16	25.00	25.00	38.00	75.00	130.00	1.60	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R20	25.00	25.00	38.00	75.00	130.00	2.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R32	25.00	25.00	38.00	75.00	130.00	3.20	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R40	25.00	25.00	38.00	75.00	130.00	4.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/75C25CF-R50	25.00	25.00	38.00	75.00	130.00	5.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R02	25.00	25.00	38.00	125.00	185.00	0.20	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R04	25.00	25.00	38.00	125.00	185.00	0.40	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R08	25.00	25.00	38.00	125.00	185.00	0.80	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R16	25.00	25.00	38.00	125.00	185.00	1.60	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R20	25.00	25.00	38.00	125.00	185.00	2.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R32	25.00	25.00	38.00	125.00	185.00	3.20	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R40	25.00	25.00	38.00	125.00	180.00	4.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-38/125C25CF-R50	25.00	25.00	38.00	125.00	180.00	5.00	3	5.0	C	0.05	0.15	IC08
ECA-H3 25-52/100C25CF-R02	25.00	25.00	52.00	100.00	158.00	0.20	3	5.0	C	0.05	0.15	IC08