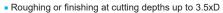
3 FLUTE 45° HELIX ALU-SPLITTER TVC GEOMETRY - 3.5xD ULTRA N PRO-COATED SOLID CARBIDE WITH CHIP DIVIDERS

The TVC end mills are optimally suited modern milling strategies such as dynamic, trochoidal or high speed profile milling. Cutting edge lengths of 3.5xD, reinforced cores and specially developed chip divider geometries allow high working depths with maximum process reliability, superior chip control and supreme surface finish.



- Superior chip management at large depth of cut due to chip dividers
- ULTRA-N PRO special smooth coating enables the longest tool life whilst maintaining an ultra-sharp cutting edge for non-ferrous machining
- Edge protection chamfer prep
- Designed for machining aluminium, plastic, brass, bronze and copper









Face geometry

















Diameter	Shank	Flute	Overall	Feed Rate	Plain Sha	nk	Weldon Shank		
Diameter	Diameter	Length	Length	(fz mm/tooth)	Order Code	Price	Order Code	Price	
6	6	21	62	0.07	16665700	£47.00	16665701	£47.00	
8	8	28	68	0.09	16665705	£53.00	16665706	£53.00	
10	10	35	80	0.1	16665710	£68.96	16665711	£68.96	
12	12	42	93	0.11	16665715	£99.00	16665716	£99.00	
16	16	56	108	0.12	-	-	16665720	£146.95	
20	20	70	126	0.16	-	-	16665725	£235.26	

Material Applications & Cutting Speed (m/min)

Carbon Steels	Alloy Steels	Pre Hard. Steels	Hardened Steels		High Hard. Steels Stainless Titanium		HRSA's e.q.	Cast Iron	Aluminium		Brass		Bronze		Plastic	
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55-70		Treamain	Inconel	Cuscilon	Short	Long	Short	Long	Short	Long	Hustic
										<220	<470	<210	<275	<195	<230	<385

Maximum axial depth of cut 3.5xD. Recommended radial depth of cut: start at 0.15-0.5xD and increase according to machine load and chip management.

3 FLUTE 45° HELIX ALU-SPLITTER TVC GEOMETRY - 3.5xD ULTRA N PRO-COATED SOLID CARBIDE WITH CHIP DIVIDERS & CORNER RADIUS

The TVC end mills are optimally suited modern milling strategies such as dynamic, trochoidal or high speed profile milling. Cutting edge lengths of 3.5xD, reinforced cores and specially developed chip divider geometries allow high working depths with maximum process reliability, superior chip control and supreme surface finish.



- Roughing or finishing at cutting depths up to 3.5xD
- Superior chip management at large depth of cut due to chip dividers
- ULTRA-N PRO special smooth coating enables the longest tool life whilst maintaining an ultra-sharp cutting edge for non-ferrous machining
- Corner radius
- Designed for machining aluminium, plastic, brass, bronze and copper







Radial chip divlders





















Diameter	Shank	Flute	Length Below	Neck	Overall	Corner	Feed Rate	Plain Shank		
Diameter	Diameter	Length	Shank	Diameter	Length	Radius	(fz mm/tooth)	Order Code	Price	
6	6	25	31	5.8	71	0.5	0.04	16666200	£49.00	
6	6	25	31	5.8	71	1	0.04	16666205	£49.00	
8	8	33	41	7.7	80	0.5	0.05	16666210	£55.00	
8	8	33	41	7.8	80	1	0.05	16666215	£55.00	
8	8	33	41	7.8	80	2	0.05	16666220	£55.00	
10	10	41	51	9.7	95	0.5	0.07	16666225	£77.79	
10	10	41	51	9.7	95	1	0.07	16666230	£77.79	
10	10	41	51	9.7	95	2	0.07	16666235	£77.79	
12	12	49	61	11.7	109	0.5	0.08	16666240	£99.00	
12	12	49	61	11.7	109	1	0.08	16666245	£99.00	
12	12	49	61	11.7	109	2	0.08	16666250	£99.00	
16	16	65	81	15.7	132	2	0.1	16666255	£175.00	
16	16	65	81	15.7	132	3	0.1	16666260	£175.00	

Material Applications & Cutting Speed (m/min)

Carbon Steels	Alloy Steels	Pre Hard. Steels	Hardene	d Steels	High Hard. Steels	Stainless	itanium HRSA's e.g. (Cast Iron	Aluminium		Brass		Bronze		Plastic
	HB225~325		HRc40~45	HRc45~55					Short	Long	Short	Long	Short	Long	riastic
									<200	<425	<190	<250	<175	<210	<350

Maximum axial depth of cut 3.5xD. Recommended radial depth of cut: start at 0.15-0.5xD and increase according to machine load and chip management.





3 FLUTE 40° HELIX ALU-SPLITTER HPC IC GEOMETRY - THROUGH COOLANT HIGH GLOSS POLISHED SOLID CARBIDE WITH CHIP DIVIDERS

The Alu-Splitter IC features chip dividers on the front face and side of the flutes, complimented by internal coolant holes and uneven pitch. The unique geometry gives incredible performance and chip management in plunge milling, pocketing, ramping, slotting and end milling applications for the highest of metal removal rates.



- Roughing or finishing at cutting depths up to 2xD
- Internal coolant
- Superior chip management in all milling applications due to chip dividers on front face and flutes
- High gloss polished flutes
- Edge protection corner radius
- Designed for machining aluminium, plastic, brass, bronze and copper







Radial chip divlders

Axial chip divlders



















Diameter	Shank	Flute	Length Below	Neck	Overall	Corner	Feed Rate	Plain Shank		
Diameter	Diameter	Length	Shank	Diameter	Length	Radius	(fz mm/tooth)	Order Code	Price	
4	6	12	20	3.7	50	0.005	0.015	16655010	£20.03	
5	6	15	20	4.7	50	0.005	0.022	16655020	£21.01	
6	6	16	20	5.5	50	0.005	0.031	16655030	£42.44	
8	8	20	30	7.4	64	0.005	0.045	16655040	£49.59	
10	10	22	32	9.2	70	0.1	0.062	16655050	£60.66	
12	12	25	37	11	75	0.1	0.077	16655060	£93.91	
16	16	32	46	15	90	0.1	0.122	16655070	£130.27	

Material Applications & Cutting Speed (m/min)

Carbon Steels	Alloy Steels	Pre Hard. Steels	Hardened Steels		High Hard. Steels Stainless		Titanium	HRSA's	Cast Iron	Aluminium		Brass		Bronze		Plastic
			HRc40~45	HRc40~45 HRc45~55			, ricumum	e.g. Inconel	Custilion	Short	Long	Short	Long	Short	Long	Tidstic
										<385	<605	<200	<250	<200	<250	<385

Maximum axial depth of cut 2xD in slotting/profiling applications.

Recommended radial depth of cut for side cutting: start at 0.15-0.5xD and increase according to machine load and chip management.

4 FLUTE 45° HELIX ALU-SPLITTER HPC IC GEOMETRY - THROUGH COOLANT HIGH GLOSS POLISHED SOLID CARBIDE WITH CHIP DIVIDERS

The Alu-Splitter IC features chip dividers on the front face and side of the flutes, complimented by internal coolant holes, variable helix and uneven pitch. The unique geometry gives incredible performance and chip management in plunge milling, pocketing, ramping, slotting and end milling applications for the highest of metal removal rates.



- Roughing or finishing at cutting depths up to 2xD
- Internal coolant
- 4 flutes for extreme performance
- Superior chip management in all milling applications due to chip dividers on front face and flutes
- High gloss polished flutes
- Edge protection chamfer prep
- Designed for machining aluminium, plastic, brass, bronze and copper





Radial chip divlders

Axial chip divlders























Diameter	Shank	Flute	Length Below	Neck	Overall	Chamfer	Feed Rate	Plain Shank		
Diameter	Diameter	Length	Shank	Diameter	Length	Edge Prep	(fz mm/tooth)	Order Code	Price	
6	6	13	20	5.5	57	0.1	0.073	16655300	£61.20	
8	8	20	26	7.4	64	0.1	0.097	16655310	£76.45	
10	10	22	30	9.2	72	0.2	0.121	16655320	£96.82	
12	12	26	36	11	83	0.2	0.146	16655330	£118.25	
16	16	32	42	15	92	0.2	0.194	16655340	£191.94	
20	20	38	52	19	104	0.3	0.243	16655350	£294.08	

Material Applications & Cutting Speed (m/min)

Carbon Steels	Alloy Steels	Pre Hard. Steels	Hardene	Hardened Steels		Stainless Titanium		HRSA's	Cast Iron	Aluminium		Brass		Bronze		Plastic
	HB225~325		HRc40~45	HRc45~55	Steels HRc55-70		Titanium	e.g. Inconel	Castilon	Short	Long	Short	Long	Short	Long	Plastic
										<680	<850	<220	<270	<220	<270	700

Maximum axial depth of cut 2xD. Recommended radial depth of cut: start at 0.15-0.5xD and increase according to machine load and chip management. Recommended radial depth of cut for side cutting: start at 0.15-0.5xD and increase according to machine load and chip management.

