

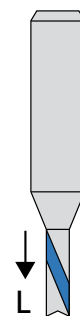
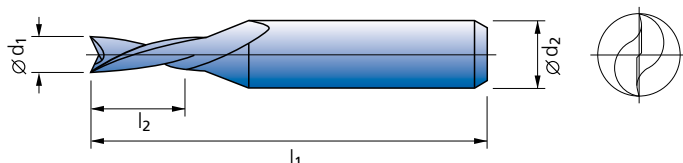
## HAM 45-2131

### Vollhartmetall-Fräser

2 Schneiden, rechtsschneidend, linksspiralgenutet,  
mit Schaft-Ø 1/8" (3,175 mm), Gesamtlänge 1 1/2" (38 mm),  
mit Fischschwanz-Anschliff (Standard), Sonderanschliffe möglich

### Solid carbide end routers

2 cutting edges, right-hand cut, left-hand spiral fluted,  
shank dia. 1/8" (3,175 mm), total length 1 1/2" (38 mm),  
with fishtail (standard), special cutting end possible

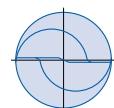
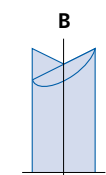


Konturenfräser für sämtliche  
bekannten Leiterplattenmaterialien.  
Besonders geeignet für:  
– flexible Materialien  
– lange Schlitzte  
– beim „L“-Typ ist das Fräsen  
ohne Niederhalter möglich

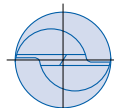
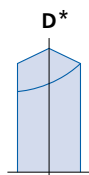
Routers for all known PCB-materials.  
Especially suited for:  
– flexible materials  
– long slots  
– by the „L“-version routing is  
possible without pressure foot

VHM Solid Carbide	45-2131 (ehemals/previous HAM 425)			
	d1 mm	l2 mm	d2 mm	l1 mm
	0,60 *	3,0	3,175	38
	0,70 *	4,0	3,175	38
	0,80 *	4,0	3,175	38
	0,90 *	4,0	3,175	38
	1,00 *	5,0	3,175	38
	1,10 *	5,0	3,175	38
	1,20 *	5,0	3,175	38
	1,30 *	5,0	3,175	38
	1,40 *	5,0	3,175	38
	1,50 *	5,0	3,175	38
	1,60 *	6,0	3,175	38
	1,70 *	6,0	3,175	38
	1,80 *	6,0	3,175	38
	1,90 *	6,0	3,175	38
	2,00 *	9,0	3,175	38
	2,10 *	9,0	3,175	38
	2,20 *	9,0	3,175	38
	2,30 *	9,0	3,175	38

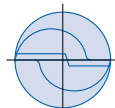
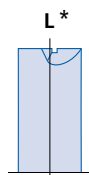
VHM Solid Carbide	45-2131 (ehemals/previous HAM 425)			
	d1 mm	l2 mm	d2 mm	l1 mm
	2,40 *	10,0	3,175	38
	2,50 *	10,0	3,175	38
	2,60 *	10,0	3,175	38
	2,70 *	10,0	3,175	38
	2,80 *	10,0	3,175	38
	2,90 *	10,0	3,175	38
	3,00 *	12,0	3,175	38
	3,10 *	12,0	3,175	38
	3,175 *	12,0	3,175	38
Standard-Verpackung 10 Stück /standard packaging 10 pcs Bestellbeispiel /order example: 45-2131-03175-120-000				
Euromagazin* /euromagazine* Bestellbeispiel /order example: 45-2131-03175-120-100				
* auf Anfrage / *on request				
Alle Abmessungen auch mit Schaft-Ø 3,00 mm erhältlich / all sizes also available with shank dia. 3,00 mm Bestellbeispiel /order example: 45-2133-03175-120-000				



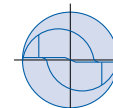
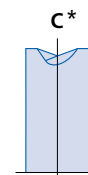
Standard/standard



\* auf Anfrage / \*on request  
d2 = 3,175 mm: 45-2121  
d2 = 3,000 mm: 45-2123



\* auf Anfrage / \*on request  
d2 = 3,175 mm: 45-2141  
d2 = 3,000 mm: 45-2143



\* auf Anfrage / \*on request  
d2 = 3,175 mm: 45-2161  
d2 = 3,000 mm: 45-2163