





REAMING & COUNTERSINKING





Deburring- and chamfering tools

Form	Type		Tool material	Surface	Standard	Diameter range (mm)	Catalog no.	Discount group	Standard range, page
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Deburring end mill 60°

	SuperAF-60		Solid Carbide	AlTiN	Stock std.	4,000 - 12,000	53393	117	751
	SuperAF-60		Solid Carbide	AlTiN	Stock std.	6,000 - 12,000	53394	117	751


Deburring end mill 90°

	SuperAF-90		Solid Carbide	AlTiN	Stock std.	4,000 - 12,000	53395	117	752
	SuperAF-90		Solid Carbide	AlTiN	Stock std.	4,000 - 12,000	53396	117	753


Deburring end mill 120°

	SuperAF-120		Solid Carbide	AlTiN	Stock std.	4,000 - 12,000	53397	117	754
	SuperAF-120		Solid Carbide	AlTiN	Stock std.	6,000 - 12,000	53398	117	754

Front/back deburrer 90°

	SuperAD-90		Solid Carbide	AlTiN nano	Stock std.	3,000 - 12,000	52365	120	755
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Deburring forks

	SuperE-U		Solid Carbide	bright	Stock std.	2,000 - 8,000	52360	120	756
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Deburring- and chamfering tools

Deburring end mill 60°

Catalog no. 53393



Deburring- and chamfering-mill to machine the hole entry with a 60° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-60
Spiral angle	0°
Shank form	HA
Cutting direction	right-hand
Tolerance on Ø	h6

Deburring end mill 60°

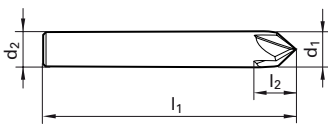
Catalog no. 53394



Deburring- and chamfering-mill to machine the hole entry with a 60° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-60
Spiral angle	0°
Shank form	HB
Cutting direction	right-hand
Tolerance on Ø	h6



Catalog no.	53393	53394
Tool material	Solid Carbide	Solid Carbide
Type	SuperAF-60	SuperAF-60
Discount group	117	117
Surface	AlTiN	AlTiN

d1	d2	l1	l2	Z	price per piece	
mm	mm	mm	mm			
4.000	4.000	50.00	22.00	4	●	
6.000	6.000	57.00	21.00	4	●	●
8.000	8.000	63.00	27.00	4	●	●
10.000	10.000	72.00	32.00	4	●	●
12.000	12.000	83.00	38.00	4	●	●

Deburring- and chamfering tools

Deburring end mill 90°

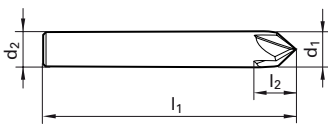
Catalog no. 53395



Deburring- and chamfering-mill to machine the hole entry with a 90° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-90
Spiral angle	0°
Shank form	HA
Cutting direction	right-hand
Tolerance on Ø	h6



Catalog no.	53395
Tool material	Solid Carbide
Type	SuperAF-90
Discount group	117
Surface	AlTiN

d1	d2	l1	l2	Z	price per piece
mm	mm	mm	mm		
4.000	4.000	50.00	22.00	4	●
6.000	6.000	57.00	21.00	4	●
8.000	8.000	63.00	27.00	4	●
10.000	10.000	72.00	32.00	4	●
12.000	12.000	83.00	38.00	4	●

Deburring- and chamfering tools

Deburring end mill 90°

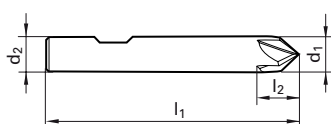
Catalog no. 53396



Deburring- and chamfering-mill to machine the hole entry with a 90° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-90
Spiral angle	0°
Shank form	>=6.0 HB
Cutting direction	right-hand
Tolerance on Ø	js9



Catalog no.	53396
Tool material	Solid Carbide
Type	SuperAF-90
Discount group	117
Surface	AlTiN

d1	d2	l1	l2	Z	price per piece
mm	mm	mm	mm		
4.000	4.000	54.00	9.20	4	●
6.000	6.000	57.00	21.00	4	●
8.000	8.000	63.00	27.00	4	●
10.000	10.000	72.00	32.00	4	●
12.000	12.000	83.00	38.00	4	●

Deburring- and chamfering tools

Deburring end mill 120°

Catalog no. 53397



Deburring- and chamfering-mill to machine the hole entry with a 120° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-120
Spiral angle	0°
Shank form	HA
Cutting direction	right-hand
Tolerance on Ø	h6

Deburring end mill 120°

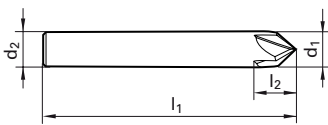
Catalog no. 53398



Deburring- and chamfering-mill to machine the hole entry with a 120° angle

Stock std.

Tool material	Solid Carbide
Surface	AlTiN
Type	SuperAF-120
Spiral angle	0°
Shank form	HB
Cutting direction	right-hand
Tolerance on Ø	h6



Catalog no.	53397	53398
Tool material	Solid Carbide	Solid Carbide
Type	SuperAF-120	SuperAF-120
Discount group	117	117
Surface	AlTiN	AlTiN

d1	d2	l1	l2	Z	price per piece
mm	mm	mm	mm		
4.000	4.000	50.00	22.00	4	●
6.000	6.000	57.00	21.00	4	●
8.000	8.000	63.00	27.00	4	●
10.000	10.000	72.00	32.00	4	●
12.000	12.000	83.00	38.00	4	●

Deburring- and chamfering tools

Front/back deburrer 90°

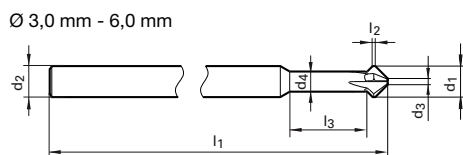
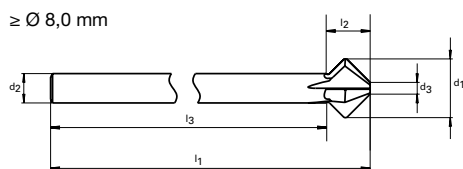
Catalog no. 52365



This tool is designed for deburring and chamfering of the hole-entry and -exit with an angle of 90°

Stock std.

Tool material	Solid Carbide
Surface	AlTiN nano
Type	SuperAD-90
Spiral angle	
Shank form	HA
Cutting direction	right-hand
Tolerance on Ø	



Catalog no.	52365
Tool material	Solid Carbide
Type	SuperAD-90
Discount group	120
Surface	AlTiN nano

d1 h8 mm	d2 h6 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	price per piece
3.000	4.000	0.600	2.200	75.00	0.50	9.40	●
4.000	4.000	0.800	2.900	75.00	0.50	12.40	●
5.000	5.000	1.000	3.900	75.00	0.50	15.00	●
6.000	6.000	1.200	3.900	100.00	0.50	14.30	●
8.000	6.000	1.600		100.00	0.50	59.00	●
10.000	6.000	2.000		100.00	0.50	53.00	●
12.000	6.000	2.400		100.00	0.50	46.00	●

Deburring- and chamfering tools

Deburring forks

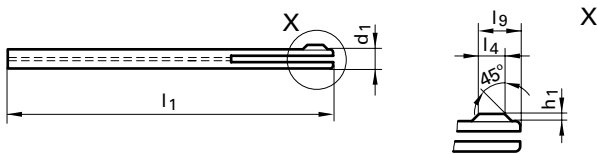
Catalog no. 52360



This tool is designed for deburring the hole-entry and -exit as well as cross holes.

Stock std.

Tool material	Solid Carbide
Surface	bright
Type	SuperE-U
Spiral angle	
Shank form	cyl.
Cutting direction	right-hand
Tolerance on Ø	



Catalog no.	52360
Tool material	Solid Carbide
Type	SuperE-U
Discount group	120
Surface	bright

Nom. Ø	d1	for Ø-range	l1	l4	l9	h1	price per piece
mm	mm	mm	mm	mm	mm	mm	
2.000	1.900	1,91 - 2,15	80.00	1.00	2.05	0.35	●
2.250	2.100	2,16 - 2,40	80.00	1.50	2.60	0.40	●
2.500	2.400	2,41 - 2,70	80.00	1.50	2.90	0.40	●
2.750	2.600	2,71 - 2,90	90.00	1.50	2.95	0.45	●
3.000	2.900	2,91 - 3,25	90.00	2.00	3.65	0.45	●
3.500	3.200	3,26 - 3,60	90.00	2.00	3.80	0.60	●
4.000	3.600	3,61 - 4,25	90.00	2.00	4.10	0.70	●
4.500	4.200	4,26 - 4,75	90.00	2.50	4.60	0.70	●
5.000	4.700	4,76 - 5,30	100.00	2.50	4.85	0.75	●
5.500	5.200	5,31 - 5,80	100.00	2.50	4.85	0.75	●
6.000	5.600	5,81 - 6,20	110.00	3.00	5.80	0.80	●
6.500	6.000	6,21 - 6,70	110.00	3.00	5.90	0.90	●
7.000	6.500	6,71 - 7,10	110.00	3.00	5.85	0.85	●
7.500	6.900	7,11 - 7,60	110.00	3.50	6.95	0.95	●
8.000	7.300	7,61 - 8,05	110.00	3.50	7.00	1.00	●