

PCD Tools



Modern PCD cutting material

is suitable for cutting lightweight structural materials such as aluminium, magnesium and fibre-reinforced plastics.

We have already successfully introduced a variety of special solutions.

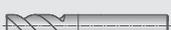
Due to high hardness and resistance to abrasion, polycrystalline diamond (PCD) cutting materials have achieved significant importance in machining aluminium alloys.



With our PCD tipped cutting tools we will take your machine to its full potential at maximum productivity.

Depending on the application there is almost unlimited cutting speed possible.

It is no longer the tool which determines the cutting data but the efficiency of your machine.

DRILLCUT 24	PCD high performance drill, drill depth up to 5×D		86
DRILLMAX 22	PCD high performance drill, drill depth up to 5×D		87
PCD Drill Slot Milling Tool	1×D with solid carbide shank, 2 cutting edges 1 cutting edge over centre, straight fluted		88
	1×D with solid carbide shank, 3 cutting edges 1 cutting edge over centre, straight fluted		88
	2×D with solid carbide shank, 2 cutting edges 1 cutting edge over centre, straight fluted		88
	2×D with solid carbide shank, 3 cutting edges 1 cutting edge over centre, straight fluted		88
End milling cutter HF	2×D, 2 cutting edges, face cutting, spiral fluted		89
Thread Milling Tool	M-PCD-MGF 2.0×D with solid carbide shank		90
	MF-PCD-MGF 2.0×D with solid carbide shank		90
	M/MF-PCD-GWF SR with solid carbide shank		91
DREAMMAX Drill Reamer	for bore tolerance H7, drill depth up to 4×D		92

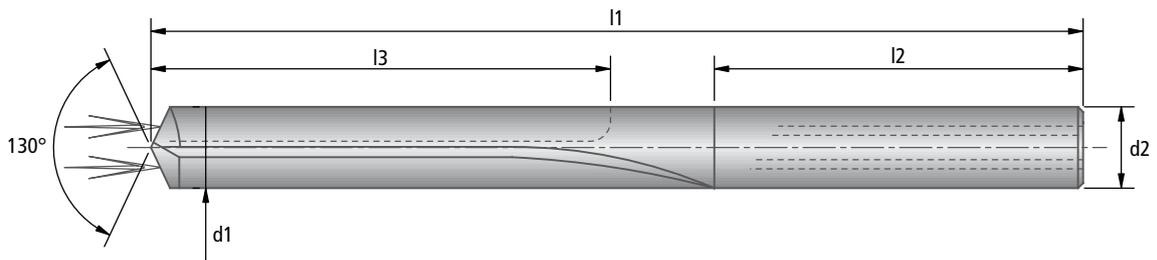


DRILLCUT 24

PCD High Performance Drill, boring depth up to 5xD

with solid carbide shank, 2 cutting edges and 4 guides,
straight fluted, with coolant channels

Shank Ø DIN 6535 Form HA



DRILLCUT 24 - 5xD						
d1	for thread	l1	l2	l3	d2	Order No.
5,00	M6	82	36	35	6	38588082000500
5,50	M6 roll formed + M6×0,5	82	36	35	6	38588082000550
6,00		82	36	35	6	38588082000600
6,80	M8	91	36	43	8	38588091000680
7,40	M8 roll formed	91	36	43	8	38588091000740
8,00		91	36	43	8	38588091000800
8,50	M10	103	40	49	10	38588003000850
9,30	M10×1,25 roll formed	103	40	49	10	38588003000930
10,00		103	40	49	10	38588003001000
10,20	M12	118	45	56	12	38588018001020
11,20	M12×1,5 roll formed	118	45	56	12	38588018001120
12,00	M14	118	45	56	12	38588018001200

Cutting material: PCD sandwich

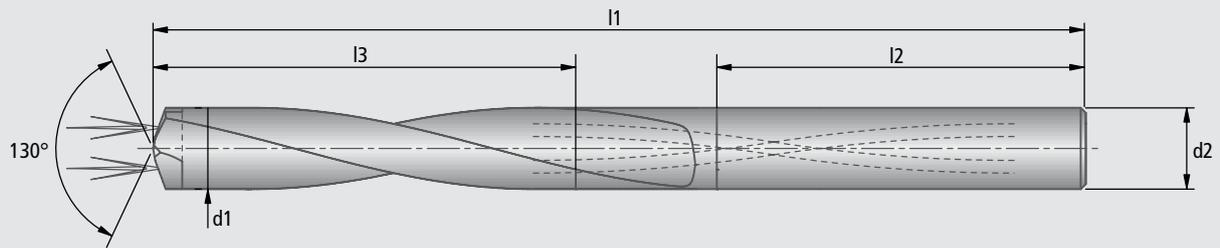
DRILLMAX 22



PCD High Performance Drill, boring depth up to 5xD

with solid carbide shank, 2 cutting edges and 2 guides, spiral fluted, with coolant channels

Shank Ø DIN 6535 Form HA



DRILLMAX 22 - 5xD					
d1	l1	l2	l3	d2	Order No.
6,00	82	36	30	6	38405002000600
8,00	91	36	42	8	38405002000800
10,00	103	40	50	10	38405002001000

Cutting material: PCD sandwich

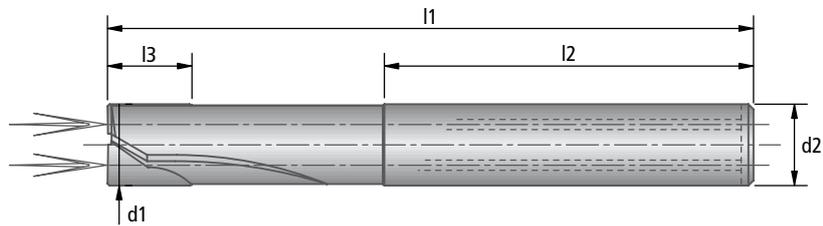


PCD Drill Slot Milling Tool

1×D with solid carbide shank

Drilling/milling depth up to 1×D,
with coolant channels

Shank Ø DIN 6535 Form HA

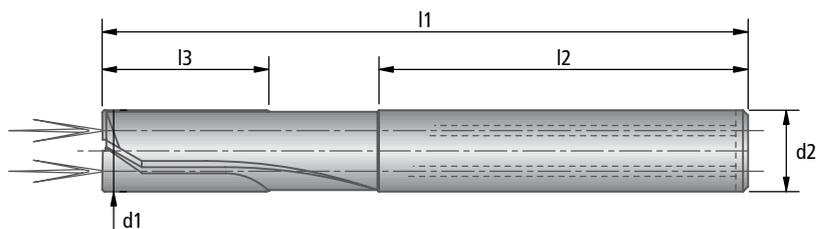


2 cutting edges, 1 cutting edge over centre, straight fluted					
d1	l1	l2	l3	d2	Order No.
6	57	36	6	6	3839000000600
8	63	36	8	8	3839000000800
10	72	40	10	10	3839000001000
12	83	45	12	12	3839000001200
3 cutting edges, 1 cutting edge over centre, straight fluted					
16	90	48	16	16	3839100001600
20	104	50	20	20	3839100002000

2×D with solid carbide shank

Drilling /milling depth up to 2×D,
with coolant channels

Shank Ø DIN 6535 Form HA



2 cutting edges, 1 cutting edge over centre, straight fluted					
d1	l1	l2	l3	d2	Order No.
6	57	36	12	6	38392057000600
8	63	36	16	8	38392063000800
10	72	40	20	10	38392072001000
12	83	45	24	12	38392083001200
3 cutting edges, 1 cutting edge over centre, straight fluted					
16	90	48	32	16	38393090001600
20	104	50	40	20	38393004002000

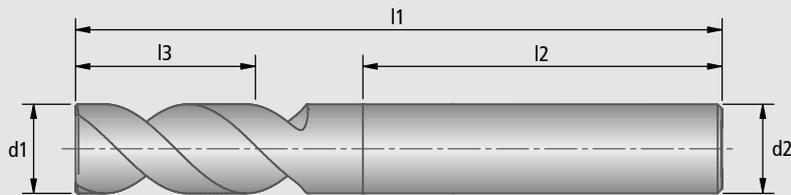
Cutting material: PCD

End mill HF

2xD, 2 cutting edges, face cutting, spiral flutet

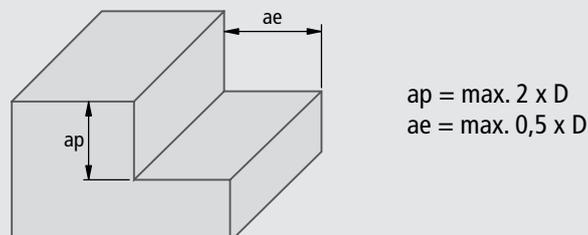
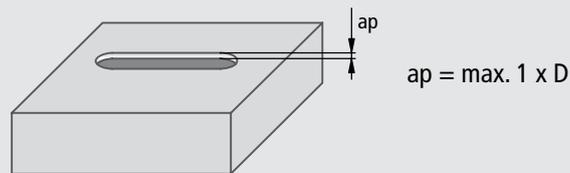
Drilling/milling depth up to 2xD,
without coolant channels

Shank Ø DIN 6535 Form HA
Cutting material: solid carbide



2xD, 2 cutting edges, face cutting, spiral flutet					DLC - HA
					
d1	l1	l2	l3	d2	Order No.
6	57	36	12	6	78931057000600
8	63	36	16	8	78931063000800
10	72	40	20	10	78931072001000
12	83	45	24	12	78931083001200

Cutting material: solid carbide



Cutting values see page 157

M Thread Milling Tool PCD-MGF

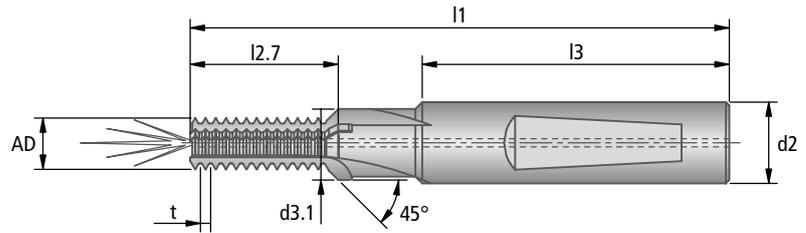
with solid carbide shank

With rear chamfer for metric ISO thread
DIN 13

Shank Ø DIN 6535 Form HE/HA
Tools with internal coolant supply

We can supply thread milling tools for
other fixed thread lengths on request.

Thread engagements see page 16



M-PCD-MGF 2,0xD										PCD - HE	PCD - HA
Nominal Ø	t	Drill Ø	l1	l2.7	l3	d2	d3.1	AD	Z	Order No.	Order No.
M 8	1,25	6,8	74	17,8	40	10	8,3	6,22	2	30970001000020	38970001000020
M10	1,50	8,5	79	21,4	45	12	10,3	7,79	3	30970001000022	38970001000022
M12	1,75	10,2	89	26,7	45	14	12,3	9,38	3	30970001000024	38970001000024

MF Thread Milling Tool PCD-MGF

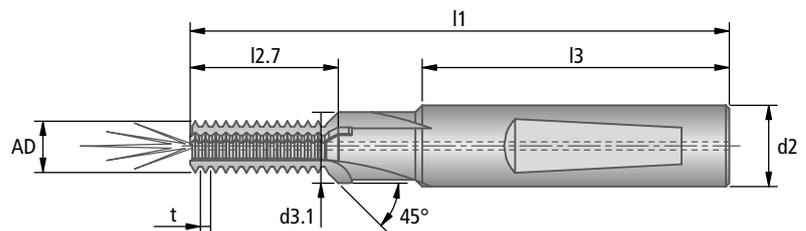
with solid carbide shank

With rear chamfer for metric fine ISO
thread DIN 13

Shank Ø DIN 6535 Form HE/HA
Tools with internal coolant supply

We can supply thread milling tools for
other fixed thread lengths on request.

Thread engagements see page 16



MF-PCD-MGF 2,0xD										PCD - HE	PCD - HA
Nominal Ø	t	Drill Ø	l1	l2.7	l3	d2	d3.1	AD	Z	Order No.	Order No.
M10x1	1,00	9,0	79	21,5	45	12	10,3	7,79	3	30970002000094	38970002000094
M12x1,5	1,50	10,5	88	26,0	45	14	12,3	9,38	3	30970002000113	38970002000113

Cutting material: PCD

M/MF Thread Milling Tool PCD-GWF SR

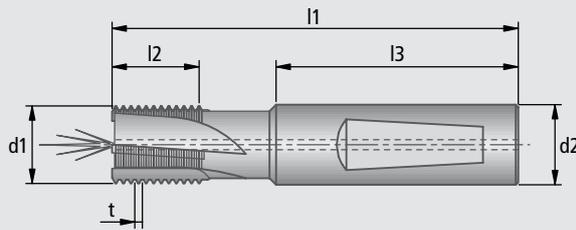


with solid carbide shank

For metric ISO thread DIN 13

Shank Ø DIN 6535 Form HE/HA
Tools with internal coolant supply

Thread engagements see page 70



PCD-GWF SR							PCD - HE	PCD - HA
d1x l2x t	d_{min} Nut	l1	l2	l3	d2	Z		
							Order No.	Order No.
16x16x1,5	24	80	16,5	48	16	4	30802005001150	38802005001150
20x20x1,5	30	92	19,5	50	20	4	30802007001150	38802007001150

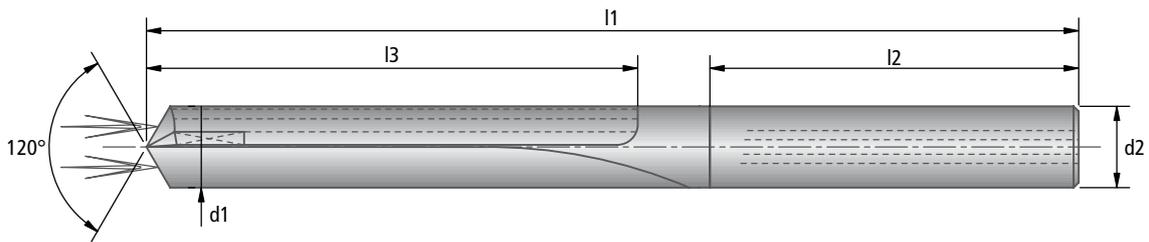
Cutting material: PCD

DREAMMAX Drill Reamer

for bore tolerance H7, drill depth up to 4xD

with 2 cutting edges, straight fluted, with coolant channels

Shank Ø DIN 6535 Form HA



DREAMMAX - 4xD					TiN - HA
					
d 1	l 1	l 2	l 3	d 2	Order No.
6,00	82	36	24	6	78451082000600
8,00	91	36	32	8	78451091000800
10,00	103	40	40	10	78451003001000
12,00	118	45	48	12	78451018001200

Cutting material: solid carbide

PCD Tools



for maximum cutting speeds and tool life

DRILLCUT 24

PCD high performance drill,
drill depth up to 5xD

DRILLMAX 22

PCD high performance drill,
drill depth up to 5xD

Thread Milling Tool PCD-MGF

with solid carbide shank

Thread Milling Tool PCD-GWF SR

with solid carbide shank



PCD Drill Slot Milling Tool

2xD with solid carbide shank, 2 cutting edges
1 cutting edge over centre, straight fluted
from $\varnothing 16$ with 3 cutting edges

