

THE PROFESSIONAL'S CHOICE



ACM



ACRYLIC



ALUMINIUM



Crown Norge, the perfect partner you can trust. Precise and high quality tooling designed to fully optimise your machine's cutting performance. The innovation, knowledge and experience to significantly improve your manufacturing process.

Reduce cost, labour and machine time with the revolutionary range of tooling designed to meet the requirements of the professional machine operator of today. The geometry of these tools is specifically designed to maximise the surface finish, with high feed rates and tool longevity, to truly revolutionise your business.

Achieve consistent quality. Burr free edges with a high gloss finish, giving you the advantage to retain customers, reduce cost and eliminate hand finishing. Machine operators will be safe in the knowledge that every Crown Norge tool they use is of the same consistent high quality, dimension and longevity as the last.

High speed routing.

The new SUPERIOR range of tooling has been extended to include new tool sizes and dimensions. The revolutionary new coating on these tools allow for super fast dry routing of aluminium, ACM, mineral core, TRESPA (HPL) ++. No need for coolant or oil as the coating provides a 60% reduction in friction compared to a standard carbide tool. In addition, the hardened coating prolongs the cutting edge, thus dramatically increasing tool longevity. The SUPERIOR range of tools also provides an exceptional finish in ACM / DIBOND[®] and results in a near polished edge.



The best selection of single fluted router tools.

With the machine operator in mind and a keen focus on optimisation of the tooling performance, Crown Norge has an exceptional range. A dedicated "ACRYLIC" (A) range provides additional sharpness to the cut and a higher gloss finish, while the "MULTI-PURPOSE" (MP) covers a wider cross section of materials.

Polished acrylic made easy

with high quality MCD, CVD and PCD diamond tools, which provide an unsurpassed high gloss finish. Hand finishing and flame polishing are eliminated with the extensive range of dimensions, which match each material thickness perfectly.

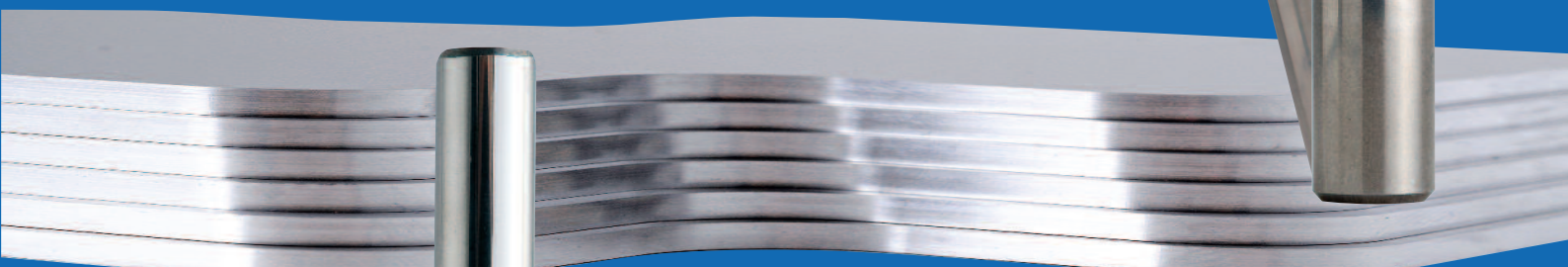
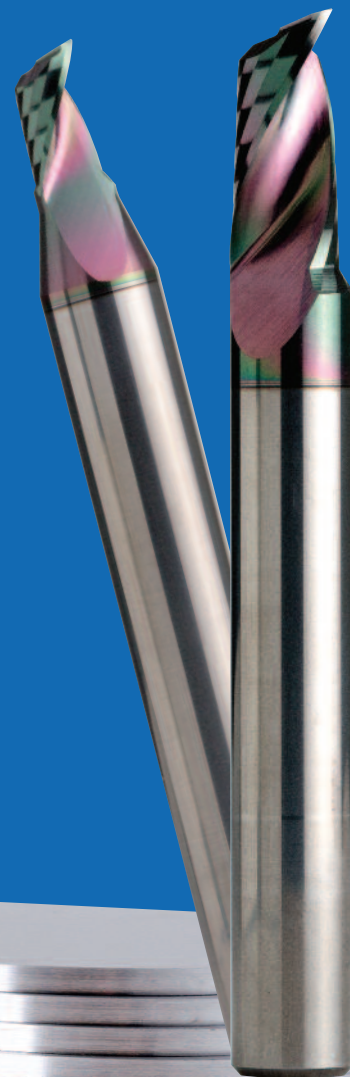


MP-SUP. (Multi-Purpose SUPERIOR)

Single flute routing tools, tungsten carbide with revolutionary coating for dry or wet cutting of aluminium, ACM mineral core, TRESPA (HPL) ++
 Much harder surface. 60% less friction!
 Videos on: www.crown-norge.no

Art.no. UP-CUT		d	D	ℓ	L
S1-3,0/3-6-38 MP-SUP.	NEW	3,0	3	6	38
S1-4,0/4-6-50 MP-SUP.	NEW	4,0	4	6	50
S1-2,0/6-6-50 MP-SUP.		2,0	6	6	50
S1-3,0/6-6-50 MP-SUP.		3,0	6	6	50
S1-4,0/6-6-50 MP-SUP.		4,0	6	6	50
S1-4,0/6-12-50 MP-SUP.		4,0	6	12	50
S1-5,0/6-12-50 MP-SUP.	NEW	5,0	6	12	50
S1-6,0/6-12-50 MP-SUP.		6,0	6	12	50
S1-6,0/6-12-50 MP-SUP-B		6,0	6	12	50
S1-6,0/6-22-50 MP-SUP.		6,0	6	22	50
S1-6,0/6-22-58 MP-SUP-B		6,0	6	22	58
S1-8,0/8-22-64 MP-SUP-B		8,0	8	22	64
S1-8,0/8-32-76 MP-SUP-B	NEW	8,0	8	32	76
S1-8,0/8-42-76 MP-SUP-B	NEW	8,0	8	42	76
S1-10,0/10-22-64 MP-SUP-B		10,0	10	22	64
S1-10,0/10-32-76 MP-SUP-B		10,0	10	32	76
S1-10,0/10-42-76 MP-SUP-B	NEW	10,0	10	42	76
S1-10,0/10-55-100 MP-SUP-B	NEW	10,0	10	55	100

B=Balanced



MP-DLC (Multi-Purpose)

Multi-purpose routing tools with DLC coating for dry or wet cutting of aluminium.

- S1 = Single flute routing tools
- d = Cutting diameter
- D = Shank diameter
- ℓ = Length of cut
- L = Total length
- MP= Multi-Purpose
- B = Balanced

Art.no. UP-CUT	d	D	ℓ	L
S1-2,0/6-6-50 MP - DLC	2,0	6	6	50
S1-3,0/6-6-50 MP - DLC	3,0	6	6	50
S1-4,0/6-6-50 MP - DLC	4,0	6	6	50
S1-4,0/6-12-50 MP - DLC	4,0	6	12	50
S1-5,0/6-12-50 MP - DLC	5,0	6	12	50
S1-6,0/6-12-50 MP - DLC	6,0	6	12	50
S1-6,0/6-12-50 MP - DLC - B	6,0	6	12	50
S1-6,0/6-22-50 MP - DLC	6,0	6	22	50
S1-6,0/6-22-58 MP - DLC - B	6,0	6	22	58
S1-8,0/8-22-64 MP - DLC - B	8,0	8	22	64

B=Balanced

"ACRYLIC" SINGLE FLUTE ROUTING TOOLS. Razor sharp, polished for acrylic, plastics, foam, wood

UP-CUT

Art.no. UP-CUT	d	D	ℓ	L
S1-1,0/3-4-30 A	1,0	3	4	30
S1-1,5/3-6-30 A	1,5	3	6	30
S1-2,0/3-6-30 A	2,0	3	6	30
S1-2,0/3-8-30 A	2,0	3	8	30
S1-2,0/3-11-38 A	2,0	3	11	38
S1-2,5/3-6-30 A	2,5	3	6	30
S1-2,5/3-11-38 A	2,5	3	11	38
S1-3,0/3-6-30 A	3,0	3	6	30
S1-3,0/3-11-38 A	3,0	3	11	38
S1-3,0/3-22-50 A	3,0	3	22	50
S1-2,0/4-6-50 A	2,0	4	6	50
S1-3,0/4-11-50 A	3,0	4	11	50
S1-4,0/4-8-50 A	4,0	4	8	50
S1-4,0/4-12-50 A	4,0	4	12	50
S1-4,0/4-14-50 A	4,0	4	14	50
S1-4,0/4-22-50 A	4,0	4	22	50
S1-4,0/4-32-64 A	4,0	4	32	64
S1-2,0/6-6-50 A	2,0	6	6	50
S1-3,0/6-6-50 A	3,0	6	6	50
S1-3,0/6-11-50 A	3,0	6	11	50
S1-3,0/6-14-50 A	3,0	6	14	50
S1-3,0/6-22-60 A	3,0	6	22	60
S1-4,0/6-8-50 A	4,0	6	8	50
S1-4,0/6-12-50 A	4,0	6	12	50
S1-4,0/6-14-50 A	4,0	6	14	50
S1-4,0/6-22-50 A	4,0	6	22	50
S1-5,0/6-12-50 A	5,0	6	12	50
S1-5,0/6-16-50 A	5,0	6	16	50
S1-5,0/6-22-50 A	5,0	6	22	50
S1-6,0/6-12-50 A	6,0	6	12	50
S1-6,0/6-22-50 A	6,0	6	22	50
S1-6,0/6-32-64 A	6,0	6	32	64
S1-6,0/6-32-100 A	6,0	6	32	100
S1-6,0/6-42-76 A	6,0	6	42	76
S1-8,0/8-22-64 A	8,0	8	22	64
S1-8,0/8-32-64 A	8,0	8	32	64
S1-8,0/8-42-76 A	8,0	8	42	76
S1-8,0/8-42-100 A	8,0	8	42	100
S1-8,0/8-55-100 A	8,0	8	55	100
S1-10,0/10-22-64 A	10,0	10	22	64
S1-10,0/10-32-76 A	10,0	10	32	76
S1-10,0/10-42-76 A	10,0	10	42	76
S1-10,0/10-55-100 A	10,0	10	55	100

DOWN-CUT

Art.no. DOWN-CUT	d	D	ℓ	L
S1-1,0/3-3-38 A-DC	1,0	3	3	38
S1-1,5/3-4-38 A-DC	1,5	3	4	38
S1-2,0/3-6-38 A-DC	2,0	3	6	38
S1-3,0/3-6-38 A-DC	3,0	3	6	38
S1-3,0/3-11-38 A-DC	3,0	3	11	38
S1-4,0/4-8-50 A-DC	4,0	4	8	50
S1-4,0/4-12-50 A-DC	4,0	4	12	50
S1-4,0/4-14-50 A-DC	4,0	4	14	50
S1-2,0/6-6-50 A-DC	2,0	6	6	50
S1-3,0/6-6-50 A-DC	3,0	6	6	50
S1-3,0/6-11-50 A-DC	3,0	6	11	50
S1-4,0/6-8-50 A-DC	4,0	6	8	50
S1-4,0/6-12-50 A-DC	4,0	6	12	50
S1-4,0/6-14-50 A-DC	4,0	6	14	50
S1-5,0/6-12-50 A-DC	5,0	6	12	50
S1-5,0/6-16-60 A-DC	5,0	6	16	50
S1-5,0/6-22-60 A-DC	5,0	6	22	60
S1-6,0/6-12-50 A-DC	6,0	6	12	50
S1-6,0/6-22-60 A-DC	6,0	6	22	60
S1-8,0/8-22-64 A-DC	8,0	8	22	64
S1-8,0/8-32-70 A-DC	8,0	8	32	70
S1-10,0/10-22-64 A-DC	10,0	10	22	64

S1 = Single flute routing tools
 d = Cutting diameter
 D = Shank diameter
 ℓ = Length of cut
 L = Total length
 A = Acrylic
 B = Balanced
 DC = Down-cut

The superior tool for acrylic/plastics/foam/wood.

Speaker monitor used at 6 Nobel Peace Prize concerts

BALANCED single flute routing tools

RESULT:

- Improved productivity
- Better surface finish
- Reduced spindle repair costs
- Extended tool life
- Less noise
- Less vibration

Art.no. UP-CUT	d	D	ℓ	L
S1-5,0/6-12-50 A-B	5,0	6	12	50
S1-5,0/6-22-58 A-B	5,0	6	22	58
S1-6,0/6-12-50 A-B	6,0	6	12	50
S1-6,0/6-22-58 A-B	6,0	6	22	58
S1-6,0/6-32-64 A-B	6,0	6	32	64
S1-6,0/6-42-76 A-B	6,0	6	42	76
S1-8,0/8-22-64 A-B	8,0	8	22	64
S1-8,0/8-32-64 A-B	8,0	8	32	64
S1-8,0/8-42-76 A-B	8,0	8	42	76
S1-8,0/8-55-100 A-B	8,0	8	55	100
S1-10,0/10-22-64 A-B	10,0	10	22	64
S1-10,0/10-32-76 A-B	10,0	10	32	76
S1-10,0/10-42-76 A-B	10,0	10	42	76
S1-10,0/10-55-100 A-B	10,0	10	55	100

The balancing flute also improves the chip flow.

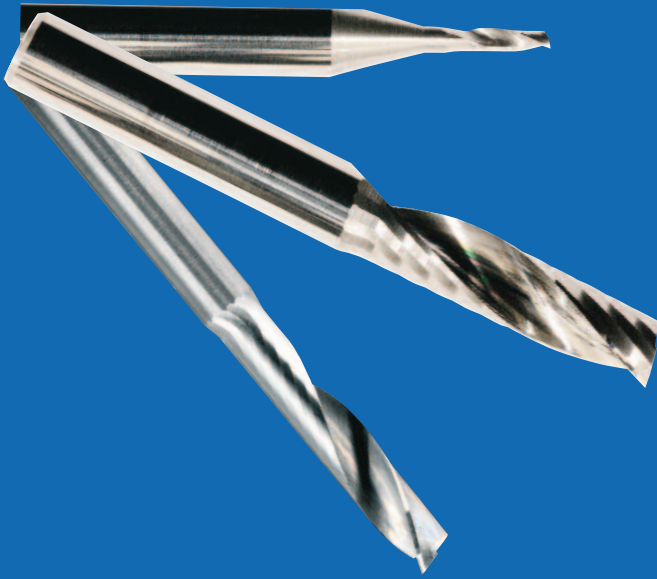
Balancing flute

Balancing cut

Same cutting geometry as on our standard "Acrylic" routing tools

"MULTI-PURPOSE" SINGLE FLUTE ROUTING TOOLS

for aluminium, ACM,
brass, plastics, MDF etc...



UP-CUT

Art.no. UP-CUT	d	D	ℓ	L
S1-1,0/3-4-38 MP	1,0	3	4	38
S1-1,5/3-6-38 MP	1,5	3	6	38
S1-2,0/3-6-38 MP	2,0	3	6	38
S1-2,5/3-6-38 MP	2,5	3	6	38
S1-3,0/3-6-38 MP	3,0	3	6	38
S1-3,0/3-11-38 MP	3,0	3	11	38
S1-2,0/4-6-50 MP	2,0	4	6	50
S1-3,0/4-6-50 MP	3,0	4	6	50
S1-3,0/4-11-50 MP	3,0	4	11	50
S1-3,5/4-12-50 MP	3,5	4	12	50
S1-4,0/4-6-50 MP	4,0	4	6	50
S1-4,0/4-12-50 MP	4,0	4	12	50
S1-4,0/4-14-50 MP	4,0	4	14	50
S1-4,0/4-22-50 MP	4,0	4	22	50
S1-2,0/4,365-4-165 MP	2,0	4,365	4	165
S1-3,0/4,365-4-165 MP	3,0	4,365	4	165
S1-2,0/6-6-50 MP	2,0	6	6	50
S1-2,5/6-6-50 MP	2,5	6	6	50
S1-3,0/6-6-50 MP	3,0	6	6	50
S1-3,0/6-11-50 MP	3,0	6	11	50
S1-3,0/6-14-50 MP	3,0	6	14	50
S1-3,5/6-12-50 MP	3,5	6	12	50
S1-4,0/6-6-50 MP	4,0	6	6	50
S1-4,0/6-12-50 MP	4,0	6	12	50
S1-4,0/6-14-50 MP	4,0	6	14	50
S1-4,0/6-22-50 MP	4,0	6	22	50
S1-5,0/6-12-50 MP	5,0	6	12	50
S1-5,0/6-16-50 MP	5,0	6	16	50
S1-5,0/6-22-50 MP	5,0	6	22	50
S1-6,0/6-12-50 MP	6,0	6	12	50
S1-6,0/6-22-50 MP	6,0	6	22	50
S1-6,0/6-32-64 MP	6,0	6	32	64
S1-6,0/6-32-100 MP	6,0	6	32	100
S1-8,0/8-22-64 MP	8,0	8	22	64
S1-8,0/8-32-64 MP	8,0	8	32	64
S1-8,0/8-42-76 MP	8,0	8	42	76
S1-8,0/8-42-100 MP	8,0	8	42	100
S1-10,0/10-22-64 MP	10,0	10	22	64
S1-10,0/10-32-76 MP	10,0	10	32	76
S1-10,0/10-42-76 MP	10,0	10	42	76
S1-10,0/10-55-100 MP	10,0	10	55	100



S1 = Single flute routing tools
 d = Cutting diameter
 D = Shank diameter
 ℓ = Length of cut
 L = Total length
 MP= Multi-Purpose
 B = Balanced
 DC = Down-cut

Performs better.
Lasts longer.

DOWN-CUT



Art.no. DOWN-CUT	d	D	ℓ	L
S1-1,0/3-2-38 MP-DC	1,0	3	2	38
S1-1,5/3-3-38 MP-DC	1,5	3	3	38
S1-2,0/3-4-38 MP-DC	2,0	3	4	38
S1-3,0/3-6-38 MP-DC	3,0	3	6	38
S1-3,0/3-11-38 MP-DC	3,0	3	11	38
S1-4,0/4-12-50 MP-DC	4,0	4	12	50
S1-2,0/6-4-50 MP-DC	2,0	6	4	50
S1-3,0/6-6-50 MP-DC	3,0	6	6	50
S1-3,0/6-11-50 MP-DC	3,0	6	11	50
S1-4,0/6-8-50 MP-DC	4,0	6	8	50
S1-4,0/6-12-50 MP-DC	4,0	6	12	50
S1-5,0/6-12-50 MP-DC	5,0	6	12	50
S1-5,0/6-22-60 MP-DC	5,0	6	22	60
S1-6,0/6-12-50 MP-DC	6,0	6	12	50
S1-6,0/6-22-60 MP-DC	6,0	6	22	60
S1-8,0/8-22-64 MP-DC	8,0	8	22	64
S1-8,0/8-32-70 MP-DC	8,0	8	32	70
S1-10,0/10-22-64 MP-DC	10,0	10	22	64

Size does not matter for Crown Norge. Our tools can handle the most



X Games Oslo

Manufacturer: www.maanen.no



Manufacturer: www.ecosign.se

BALANCED single flute routing tools

RESULT:

- Improved productivity
- Better surface finish
- Reduced spindle repair costs
- Extended tool life
- Less noise
- Less vibration



Same cutting geometry as on our standard routing tools "Multi-Purpose"

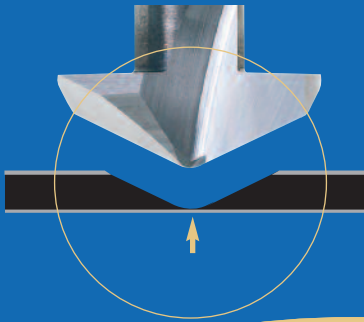
Art.no. UP-CUT	d	D	ℓ	L
S1-5,0/6-12-50 MP-B	5,0	6	12	50
S1-5,0/6-22-58 MP-B	5,0	6	22	58
S1-6,0/6-12-50 MP-B	6,0	6	12	50
S1-6,0/6-22-58 MP-B	6,0	6	22	58
S1-6,0/6-32-64 MP-B	6,0	6	32	64
S1-8,0/8-22-64 MP-B	8,0	8	22	64
S1-8,0/8-32-64 MP-B	8,0	8	32	64
S1-8,0/8-42-76 MP-B	8,0	8	42	76
S1-10,0/10-22-64 MP-B	10,0	10	22	64
S1-10,0/10-32-76 MP-B	10,0	10	32	76
S1-10,0/10-42-76 MP-B	10,0	10	42	76
S1-10,0/10-55-100 MP-B	10,0	10	55	100

Balanced routing tools should always be used in high frequency spindles. In all spindles, tools Ø 8,0 mm and larger should be balanced.

V grooving ACM

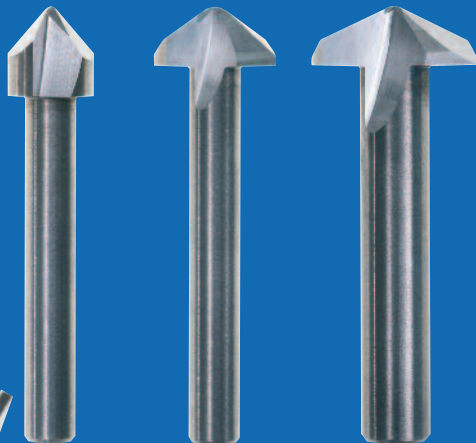
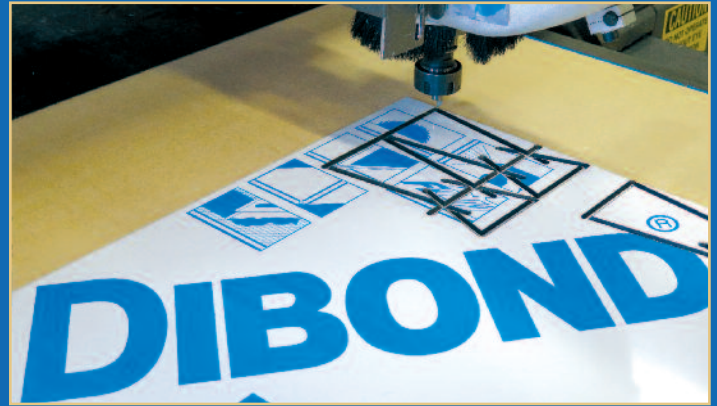
30m/min!

SOLID CARBIDE • BALANCED



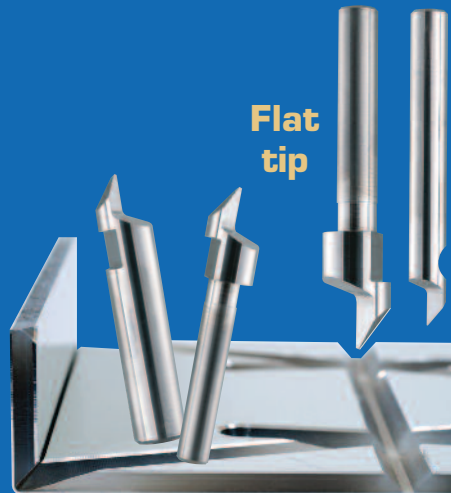
Rounded tip
for more precise bending.

90° - 120° - 135°



Flat
tip

Also
excellent for
acrylic, plastics
and wood.



Art.no. ACM routing tools	V	d	D	L	X	FLAT TIP	ROUNDED TIP	For maximum material thickness				
								3mm	4mm	5mm	6mm	
ACM 6.0/6-50-92° *	92°	6.0	6	50	0.2	•		•				
ACM 10.0/6-45-90° * *	90°	10.0	6	45	1.8	•		•	•			
ACM 10.0/10-45-90° * *	90°	10.0	10	45	1.8	•		•	•			
B2-ACM 10.0/6-50-90° *	90°	10.0	6	50	1.8		•	•	•			
B2-ACM 10.0/10-50-90° *	90°	10.0	10	50	1.8		•	•	•			
B2-ACM 13.0/6-50-90°	90°	13.0	6	50	1.8		•	•	•	•	•	
B2-ACM 13.0/8-50-90°	90°	13.0	8	50	1.8		•	•	•	•	•	
B2-ACM 11.5/6-50-120°	120°	11.5	6	50	1.8		•	•				
B2-ACM 11.5/8-50-120°	120°	11.5	8	50	1.8		•	•				
B2-ACM 15.0/6-50-120°	120°	15.0	6	50	1.8		•	•	•			
B2-ACM 15.0/8-50-120°	120°	15.0	8	50	1.8		•	•	•			
B2-ACM 15.5/6-50-135°	135°	15.5	6	50	1.8		•	•				
B2-ACM 15.5/8-50-135°	135°	15.5	8	50	1.8		•	•				
B2-ACM 20.5/8-50-135°	135°	20.5	8	50	1.8		•	•	•			
B2-ACM 20.5/12-50-135°	135°	20.5	12	50	1.8		•	•	•			

B = Ball nose
2 = 2 flute

ACM = Aluminium Composite Material
* = Also in stock with DLC coating
* = Also in stock with SUPERIOR coating

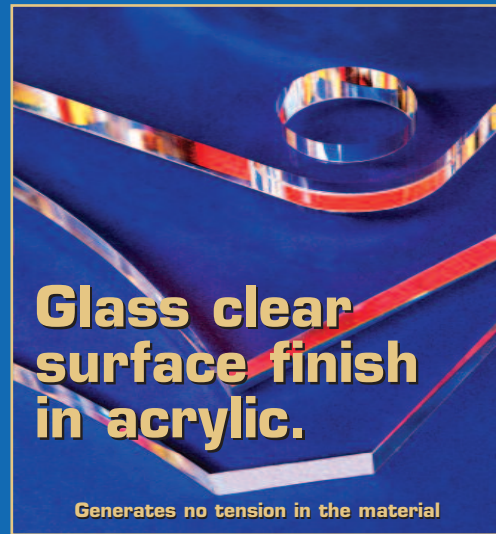
DIAMOND POLISHING TOOLS

give a superior surface finish when used in high-end, rigid CNC machines without vibrations.

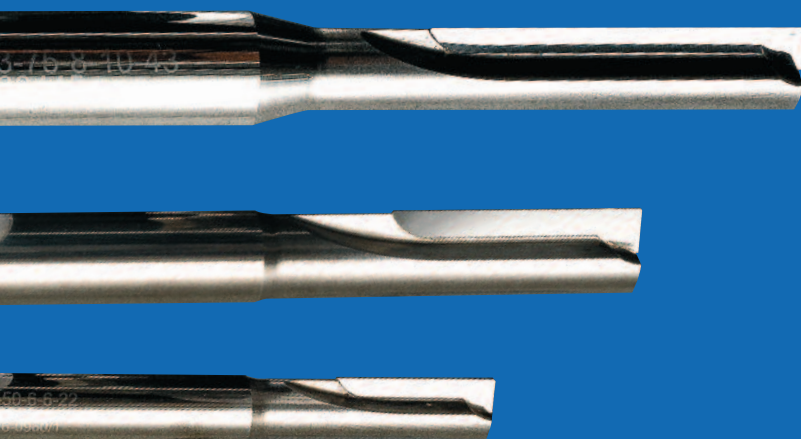
BALANCED for 60.000 RPM

MCD (Monocrystalline)

Art.no.	ℓ	L	d	D	L3
ℓ3 - L50 - d3 - D6	3	50	3	6	11
ℓ4 - L50 - d4 - D6	4	50	4	6	13
ℓ6 - L50 - d6 - D6	6	50	6	6	15
ℓ6 - L60 - d6 - D8	6	60	6	8	15
ℓ7 - L50 - d6 - D6 NEW	7	50	6	6	17
ℓ8 - L50 - d6 - D6 NEW	8	50	6	6	17
ℓ11 - L50 - d6 - D6	11	50	6	6	23
ℓ11 - L60 - d6 - D8	11	60	6	8	23
ℓ12 - L50 - d6 - D6 NEW	12	50	6	6	23
ℓ12 - L60 - d6 - D8 NEW	12	60	6	8	23
ℓ14 - L50 - d6 - D6 NEW	14	50	6	6	23
ℓ14 - L60 - d6 - D8 NEW	14	60	6	8	27
ℓ17 - L60 - d8 - D8 NEW	17	60	8	8	27
ℓ22 - L60 - d8 - D8 NEW	22	60	8	8	34
ℓ27,4 - L76 - d10 - D10 NEW	27,4	76	10	10	35
Chamfering tool 45° (Total 90°)	6	50		6	
Chamfering tool 45° (Total 90°)	6	60		8	
Engraving tool 30° (Total 60°) Tip size 0,4mm	3	50		6	
Chamfering-/engraving tool 45° (Total 90°) Tip size 0,4mm	6	50		6	



NEW!
Polish up to 25,4mm (1") thick acrylic in a single pass.

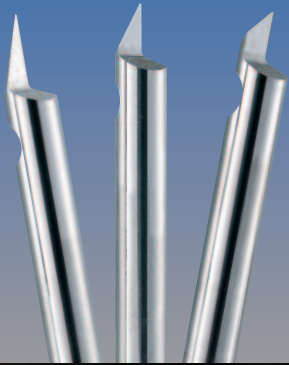


PCD (Polycrystalline)

Art.no.	ℓ	L	d	D	L3
ℓ14 - L50 - d6 - D6	14	50	6	6	22
ℓ22 - L60 - d8 - D8	22	60	8	8	33
ℓ33 - L75 - d8 - D10	33	75	8	10	43

Lengths of cut PCD:
14-22-33mm

Engraving cutters for acrylic, plastics



Polished and balanced

A-GR-3,0/60° (0,2)

A-GR-6,0/40° (0,4)

A-GR-6,0/60° (0,4)

* A-GR-6,0/92° (0,2)

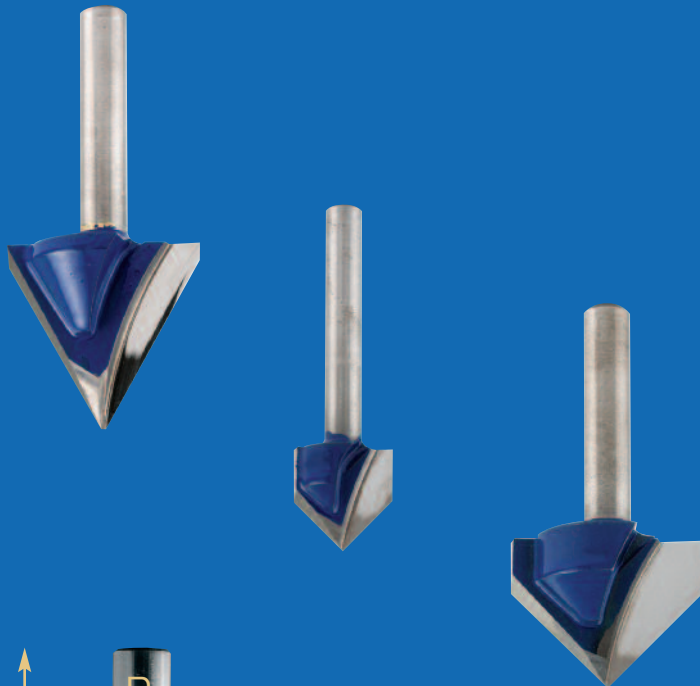
*Also excellent for V grooving 3mm ACM!



Single flute BALL NOSE routing tools for wood, acrylic, plastics and even rubber.

Art.no. BALL NOSE	d	D	ℓ	L
b1-2,0/3-8-50-A	2,0	3	8	50
b1-3,0/3-11-50-A	3,0	3	11	50
b1-4,0/4-12-75-A	4,0	4	12	75
b1-5,0/6-12-60-A	5,0	6	12	60
b1-6,0/6-12-80-A	6,0	6	12	80
b1-6,0/6-22-80-A	6,0	6	22	80
b1-8,0/8-22-80-A	8,0	8	22	80
b1-10,0/10-22-80-A	10,0	10	22	80

S1 = Single flute routing tools
 S2 = 2 flute routing tools
 d = Cutting diameter
 D = Shank diameter
 ℓ = Length of cut
 L = Total length
 A = Acrylic
 b = Ball nose



2 flute, coated routing tools for stainless/hardened steel.

r = radius

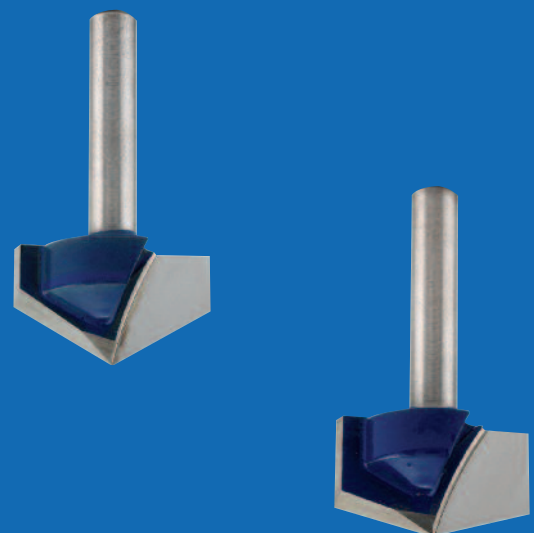
Art.no. 2 FLUTE	d	D	ℓ	L	r
S2-1,0/3-2-35	1,0	3	2	35	0,1
S2-1,5/3-3-35	1,5	3	3	35	0,2
S2-2,0/3-4-35	2,0	3	4	35	0,2
S2-3,0/3-5-35	3,0	3	5	35	0,2
S2-1,0/6-2-40	1,0	6	2	40	0,1
S2-1,5/6-3-40	1,5	6	3	40	0,2
S2-2,0/6-4-40	2,0	6	4	40	0,2
S2-3,0/6-5-40	3,0	6	5	40	0,2
S2-4,0/6-5-40	4,0	6	5	40	0,2



3D / V grooving tools

for plastics/wood/MDF. Solide carbide core, 5mm thick. Very stable. Extremely long life.

Art.no. V grooving	V	d	D	ℓ	L
3D-32/8-60°	60°	32	8	28	72
3D-16/6-90°	90°	16	6	8	55
3D-16/8-90°	90°	16	8	8	55
3D-32/8-90°	90°	32	8	16	65
3D-32/12-90°	90°	32	12	16	65
3D-32/8-120°	120°	32	8	10	58
3D-32/8-150°	150°	32	8	5	58



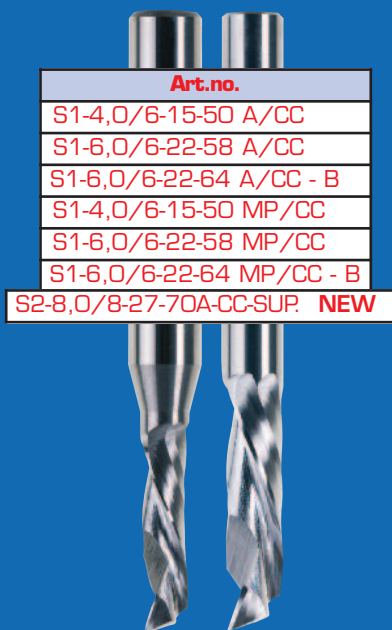
NEW: PCD routing tools developed for mineral core ACM:

AMAZING RESULTS in
DIBOND[®]FR
ALUCOBOND[®]A2
ALUCOBOND[®]PLUS



Compression cutters.

Combined up/down spiral for use on materials where the finish is important on the top and bottom face. This would include plywood and veneers.



Solid carbide, 2 flute routing tools with negative radius for rounded corners. Excellent for acrylic, plastics and wood.



Art.no.	d	D	L	r	X
NR2 10,0/6	10	6	50	4,1	1,8
NR2 10,0/10	10	10	50	4,1	1,8



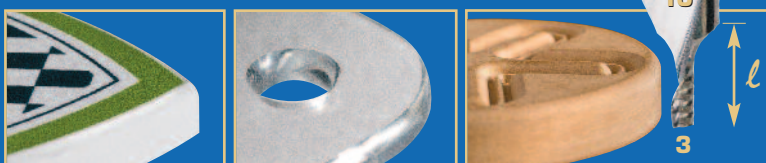
"ROUND & ROUT"

ℓ 5,2 - 10,2 - 13,0mm
 Balanced for 60.000 RPM



NEW CUTTING LENGTHS
 Matched to 5mm, 10mm and 1/2" (12,7mm) thicknesses

Art.no. "Round & Rout"	d	D	ℓ	L	r
NR1 3,0-10/6 - 5,2 - 52	3,0-10	6	5,2	52	3,5
NR1 3,0-10/6 - 10,2 - 56	3,0-10	6	10,2	56	3,5
NR1 3,0-10/6 - 13,0 - 60	3,0-10	6	13,0	60	3,5



NO. 1 FOR STAINLESS/HARDENED STEEL!

"THE NANO GRAVER"

Excellent for fine engraving in steel.
(Only for rigid machines with high frequency spindles.)



"THE MICRO GRAVER"

for high frequency-
and belt-driven spindles.
Also excellent for brass and aluminium.



"THE NANO GRAVER"

D	L
3,0mmx38mm	(7) HR-SE(30°)
4,0mmx38mm	(7) HR-SE(30°)
4,0mmx38mm	(9 + 9) HR-DE(30°)
4,0mmx45mm	(10 + 10) HR-DE(30°)

D: Shank diameter
L: Total length
(): Length of flat
HR: Half round
QR: Quarter round
SE: Single end
DE: Double end
= balanced
(): Cutting angle
BL: Blanks

SUPERIOR QUALITY TUNGSTEN CARBIDE
WITH SUPER THIN COATING, ONLY 0,5µ THICK.
HIGHER QUALITY ENGRAVING WITH
LESS RESHARPENING!

"THE MICRO GRAVER"

D	L
3,0mmx38mm	(7) HR-SE(30°)
3,0mmx38mm	(7/5) QR-SE(30°)
4,0mmx38mm	(8) HR-SE(15°, 30°, 45°)
4,0mmx38mm	(8/6) QR-SE(30°)
4,0mmx38mm	(9+9) HR-DE(30°)
4,0mmx45mm	(10 + 10) HR-DE(30°)
6,0mmx45mm	(12) HR-SE(15°, 30°, 45°)
6,0mmx45mm	(12/10) QR-SE(30°)
6,0mmx50mm	(12 + 12) HR-DE(30°)
4,365mmx165mm	(13) HR(30°)
4,365mmx165mm	(13/11) QR(30°)

"An unbeatable team: LANG milling- and engraving machines and tools from Crown Norge!"

Joachim Steidel, Sales Manager, Graphics & Mint Industry, LANG GmbH & Co. KG



Drag diamonds:
90° and 120°
3,175 x 28mm
3,175 x 114mm
4,365 x 165mm

Rotating diamonds:
3,175 x 127mm
4,365 x 178mm



Tip size:
0,125mm
0,25mm
0,38mm
0,51mm
0,64mm
0,76mm
1,02mm

Economy Line

Tolerances:
-0.000 mm
+0.010mm

(sold only in 10-packs)

BLANKS:

Half round:

4,0mmx38mm(11)HR-SE-BL-E
4,0mmx38mm(9+9)HR-DE-BL-E
4,365mmx165mm(13)HR-BL-E

6,0mmx50mm(13)HR-SE-BL-E
6,0mmx50mm(13+13)HR-DE-BL-E

Quarter round:

4,0mmx38mm(11/9)QR-SE-BL-E
4,365mmx165mm(13/11)QR-BL-E
6,0mmx50mm(13/11)QR-SE-BL-E



SHARPENED TO 0,00mm. COATING 1 - 2,5µ

3,0mmx38mm(7)HR-SE-E (30°)
3,0mmx38mm(7/5)QR-SE-E (30°)

4,0mmx38mm(8)HR-SE-E (30°, 45°)
4,0mmx38mm(8/6)QR-SE-E (30°)
4,0mmx38mm(9+9)HR-DE-E (30°)

6,0mmx50mm(13)HR-SE-E (30°, 45°)
6,0mmx50mm(13/11)QR-SE-E (30°)
6,0mmx50mm(13+13)HR-DE-E (30°)

4,365mmx165mm(13)HR-E (30°)
4,365mmx165mm(13/11)QR-E (30°)



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