

Innovative cutting tools

The professional's first choice







ACM

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, tolerances and longevity as the last.

High speed routing.

The SUPERIOR range of tooling has been extended to include new tool dimensions. The revolutionary coating on these tools allow for super fast dry routing of aluminium, ACM (DIBOND®), ACM mineral core (ALUCOBOND® A2), TRESPA® (HPL) ++. No need for coolant or oil as the coating provides a 60% reduction in friction compared to standard DLC coated tools. In addition, the hardened coating prolongs the cutting edge, thus dramatically increasing tool longevity. The SUPERIOR range of tools provides an exceptional finish.







B1-ACM 10,0/10-10-50 MP-SUP-B

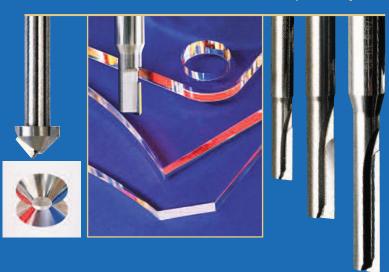
The best selection of single fluted router tools.

With the machine operator in mind and a keen focus on optimisation of the tooling performance, Crown Norge has an exceptional range.

The new ACRYLIC GENERATION 2 (A GEN2) acrylic range of tools provides a near polished edge on clear acrylic in a single pass. The dedicated, wider range of "ACRYLIC" (A) tools provides additional sharpness compared to the MP range for a higher gloss finish on Acrylic. The "Multi-Purpose" (MP) range covers a wider cross section of materials.

Polished acrylic

with high quality MCD, MCVD 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 coated)

Single flute routing tools with revolutionary coating for dry or wet cutting of aluminium, ACM, ACM mineral core, TRESPA $^{\otimes}$ (HPL) ++. With 60% less friction and exceptional longevity, the tools perform perfectly in hard and difficult materials.

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-SUPB		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-SUPB		6.0	6	22	58
S1-8,0/8-22-64 MP-SUPB		8.0	8	22	64
S1-8,0/8-32-76 MP-SUPB	NEW	8.0	8	32	76
S1-8,0/8-42-76 MP-SUPB	NEW	8.0	8	42	76
S1-10,0/10-22-64 MP-SUPB		10.0	10	22	64
S1-10,0/10-32-76 MP-SUPB		10.0	10	32	76
S1-10,0/10-42-76 MP-SUPB	NEW	10.0	10	42	76
S1-10,0/10-55-100 MP-SUPB	NEW	10.0	10	55	100

B=Balanced



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

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



D = Shank diameter

L = Total length
MP= Multi-Purpose

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

Calvin Klein

Produced by:

www.flexiform.no

UP-CUT

Art.no. UP-CUT d D \(\ell \) L

Speaker monitor used

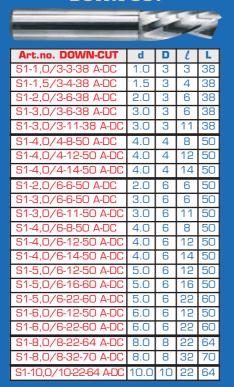
Produced by: plexx.no

opido

at 6 Nobel Peace

Prize concerts

DOWN-CUT



S1 = Single flute routing tools

d = Cutting diameter

D = Shank diameter

A = Acrylic



ACRYLIC SINGLE FLUTE ROUTING TOOLS GENERATION 2 (GEN2)

In 1996 Crown Norge introduced the "Multi-Purpose" single flute routing tools. These tools exceeded all expectations and achieved great success. Our customers experienced significant improvements in both surface finish and efficiency in production.



We are now proud to introduce the "ACRYLIC" GEN 2" range of tools. After a long period of development and testing in several countries, Crown Norge can now offer eight dimensions which are designed to match the material thicknesses most commonly used. These new tools give a polished and clear surface finish, close to what is achieved when using diamond polishing tools on clear acrylic. The new ACRYLIC" GEN 2" range have been tested on many different machine types with spindle speeds ranging from 18,000 to 60,000 RPM.



"ACRYLIC UP-CUT" GEN2

		L	1
3.0	6	7	50
3.0	6	11	50
4.0	6	8	50
4.0	6	12	50
6.0	6	12	50
6.0	6	12	50
6.0	6	22	50
6.0	6	22	58
	3.0 4.0 4.0 6.0 6.0	3.0 6 4.0 6 4.0 6 6.0 6 6.0 6 6.0 6	3.0 6 11 4.0 6 8 4.0 6 12 6.0 6 12 6.0 6 12 6.0 6 22

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





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

Balanced routing tools should always be used in high frequency spindles. In all spindles, tools Ø 8.0 mm and larger should be balanced.

"MULTI-PURPOSE" SINGLE FLUTE ROUTING TOOLS

UP-CUT

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



Performs better. rasts louder



1	Single	flute	routing	tools

From small to large scale manufacturing, the Crown Norge range of tools perform perfectly









BALANCED single flute routing tools

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.

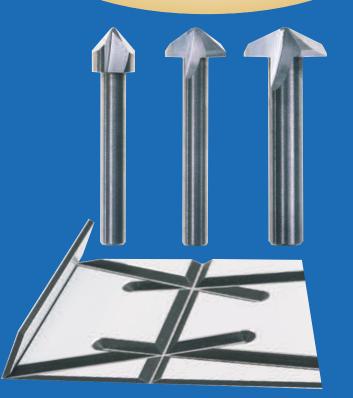


V grooving ACM **30** m/min!

SOLID CARBIDE • BALANCED

Rounded tip for more precise bending.

90° - 120° - 135°





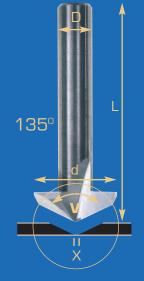


Also excellent for acrylic, plastics and wood.





For maximum material thickness



Art.no. ACM routing tools	V	d	D	L	Х	FLAT TIP	ROUNDED TIP	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 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 15.5/6-50-135°	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		•	•	•		

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 FOR ACRYLIC

Designed for clear cast or extruded acrylic, these tools give a superior polished surface finish when used with the correct machine. We recommend using a high end, rigid CNC router with a strong vacuum hold down and good extraction to avoid excessive vibration.



Art.no.	l	L	d		L3
MCD (3 - L50 - d3 - D6	3	50	3	6	11
MCD 44 - L50 - d4 - D6	4	50	4	6	13
MCD <i>t</i> 6 - L50 - d6 - D6	6	50	6	6	15
MCVD £7 - L50 - d6 - D6 NEV	7 7	50	6	6	17
MCVD <i>t</i> 8 - L50 - d6 - D6 NEW	8	50	6	6	17
MCVD ℓ11 - L50 - d6 - D6	11	50	6	6	23
MCVD £11 - L60 - d6 - D8	11	60	6	8	23
MCVD ℓ12 - L50 - d6 - D6 🔸 NEW	/ 12	50	6	6	23
MCVD ℓ12 - L60 - d6 - D8 🐈 NEW	/ 12	60	6	8	23
MCVD <i>t</i> 14 - L50 - d6 - D6 NEW	14	50	6	6	23
MCVD £14 - L60 - d6 - D8 NEW	14	60	6	8	27
MCVD ℓ17 - L60 - d8 - D8 🐈 NEW	17	60	8	8	27
MCVD <i>t</i> 22 - L60 - d8 - D8 NEW	22	60	8	8	34
MCVD £27,4 - L76 - d10 - D10 NEW	27.4	76	10	10	35
MCD Chamfering tool 45° (Total 90°)	6	50		6	
MCD Chamfering tool 45° (Total 90°)	6	60		8	
MCD Engraving tool 30° (Total 60°) Tip size 0,4mm	3	50		6	
MCD Chamfering-/engraving tool 45° (Total 90°) Tip size 0,4mm	6	50		6	

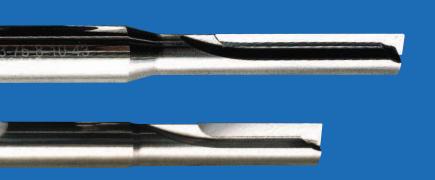
* Not in stock. Delivery time 4-6 weeks.

The MCD and MCVD tools achieve the same quality of polishing and tool life in clear acrylics.









PCD (Polycrystalline)

Art.no.	l	L	d	D	L3
PCD <i>t</i> 14 - L50 - d6 - D6	14	50	6	6	22
PCD <i>t</i> 22 - L60 - d8 - D8	22	60	8	8	33
PCD <i>t</i> 33 - L75 - d8 - D10	33	75	8	10	43

Lengths of cut PCD: 14-22-33 mm





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

Art.no. BALL NOSE	d	D	l	L
b1-2,0/3-8-50-A	2.0			
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

= Total length

= Acrylic

b = Ball nose









for plastics/wood/MDF. Solide carbide core, 5 mm 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



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

Art.no. 2 FLUTE				L	
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
	3.0				
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







Compression cutters. (CC)

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.



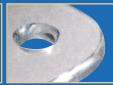
Art.no.	
S1-4,0/6-15-50 A/CC	
S1-6,0/6-22-58 A/CC	
S1-6,0/6-22-64 A/CC - B	
S1-4,0/6-15-50 MP/CC	
S1-6,0/6-22-58 MP/CC	
S1-6,0/6-22-64 MP/CC - B	
S2-8,0/8-27-70 A/CC-B-SUP	NEW
S2-10.0/10-33-76 A/CC-B-SUP	NEW



"ROUND & ROUT"

 ℓ 5.2 - 10.2 - 13.0 mm Balanced for 60,000 RPM









NEW CUTTING LENGTHS
Matched to 5 mm, 10 mm
and 12.7 mm (1/2") 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



FOR STAINLESS/HARDENED STEEL!

"THE **NANO** GRAVER"

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



"THE **WICRO** GRAVER"

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



3,0mmx38mm (7) HR-SE(30°)

Shank diameter

Total length

): Length of flat

HR: Half round QR: Quarter round Single end DE: Double end = balanced (): Cutting angle

Blanks Economy line

4,0mmx38mm (9 + 9) HR-DE(30°)

4,0mmx45mm (10 + 10) HR-DE(30°)

SUPERIOR QUALITY

TUNGSTEN CARBIDE WITH SUPER THIN COATING, ONLY 0.5 MICRON THICK.

Economy

Tolerances:

-0.000 mm

"An unbeatable team: LANG milling- and engraving

machines and tools from Crown Norge!"

4,0mmx38mm (8) HR-SE(15°,30°,45°)

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°)

Rotating diamonds: 3.175 x 127mm 4.365 x 178mm

Tip size:

0.125mm 0.25mm

0,51mm 0.64mm

1.02mm (Only in dimension



Drag diamonds:

90° and 120° 3.175 x 28mm 3.175 x 114mm 4.365 x 165mm



(sold only in 10-packs)

SHARPENED TO 0.00 mm. COATING 1-2.5 micron thick.

3,0mmx38mm(7)HR-SE-**E** (30°)

3,0mmx38mm(7/5)QR-SE-**E** (30°)

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°)







SCHWEIZERISCHER VERBAND DER GRAVEURE

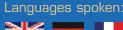


- Member of the engravers associations in Switzerland and Norway -





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