



**Innovative
cutting tools
for the professional!**

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

Solid carbide • Balanced



**New geometry
for more precise bending!**

90° - 120° - 135°



*Balanced tools for
better performance*



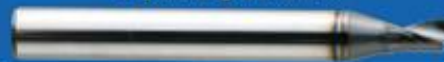
**The best selection
of single flute
spiral tools available**



**NEW!
Compression
cutters**



"MULTI-PURPOSE"
ROUTER BITS with DLC coating for
dry cutting aluminium



NEW!
Also available in balanced versions

**All our tools are made from
superior quality tungsten carbide.**
Exceptions are the 3D/V grooving tools
(steel with solid carbide insert) and the diamond tools.

"ACRYLIC" SINGLE FLUTE ROUTER BITS. Razor sharp, polished for acrylic, plastics, foam, wood.

UP-CUT

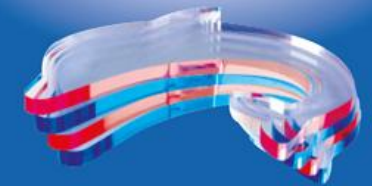
Art.no. UP-CUT	d	D	ℓ	L
S1-1,0/3-4-30 A	1,0	3	4	30
S1-1,5/3-6-30 A	1,5	3	6	30
S1-2,0/3-6-30 A	2,0	3	6	30
S1-2,0/3-8-30 A	2,0	3	8	30
S1-2,0/3-11-38 A	2,0	3	11	38
S1-2,5/3-6-30 A	2,5	3	6	30
S1-2,5/3-11-38 A	2,5	3	11	38
S1-3,0/3-6-30 A	3,0	3	6	30
S1-3,0/3-11-38 A	3,0	3	11	38
S1-3,0/3-22-50 A	3,0	3	22	50
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
S1-3,0/6-22-60 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
S1-8,0/8-12-50 A-DC	8,0	8	12	50
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 router bit
 d = Cutting diameter
 D = Shank diameter
 ℓ = Length of cut
 L = Total length
 A = Acrylic
 DC = Down-cut

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



The best BALANCED single flute tools available

RESULT:

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

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



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

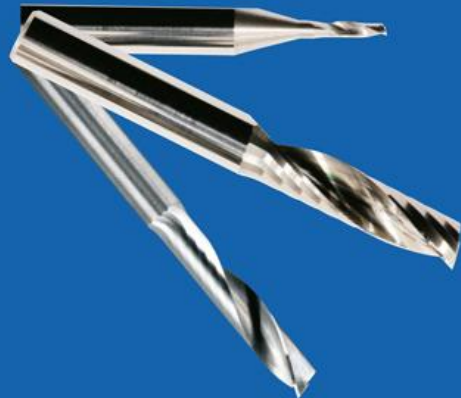
The balancing flute also improves the chip flow.

Same cutting geometry as on our standard "Acrylic" router bits



"MULTI-PURPOSE" SINGLE FLUTE ROUTER BITS

for aluminium, ACM,
brass, plastics, MDF



Size doesn't matter for Crown Norge.
Our tools can handle the most!



Tyne Bridge, Newcastle



Manufacturer:
www.sign-master.co.uk

The largest metal Olympic Rings manufactured for the London Games 2012.
25 metres long. 12 metres high.

Material: 2,5mm aluminium - Tool used: 4mm "Multi-Purpose" single fluted router bit from Crown Norge AS

UP-CUT

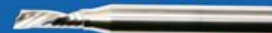
Art.no. UP-CUT	d	D	ℓ	L
S1-1,0/3-4-38 MP	1,0	3	4	38
S1-1,5/3-6-38 MP	1,5	3	6	38
S1-2,0/3-6-38 MP	2,0	3	6	38
S1-2,5/3-6-38 MP	2,5	3	6	38
S1-3,0/3-6-38 MP	3,0	3	6	38
S1-3,0/3-11-38 MP	3,0	3	11	38
S1-2,0/4-6-50 MP	2,0	4	6	50
S1-2,5/4-6-50 MP	2,5	4	6	50
S1-3,0/4-6-50 MP	3,0	4	6	50
S1-3,0/4-11-50 MP	3,0	4	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
S1-2,0/6-6-50 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
S1-3,5/6-12-50 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 router bit
d = Cutting diameter
D = Shank diameter
ℓ = Length of cut
L = Total length
MP= Multi-Purpose
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
S1-4,0/4-8-50 MP-DC	4,0	4	8	50
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
S1-6,0/6-32-70 MP-DC	6,0	6	32	70
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



"MULTI-PURPOSE"

ROUTER BITS with DLC coating for
dry cutting aluminium!

S1-2,0/6-6-50 MP-DLC
S1-3,0/6-6-50 MP-DLC
S1-4,0/6-6-50 MP-DLC
S1-4,0/6-12-50 MP-DLC
S1-5,0/6-12-50 MP-DLC
S1-6,0/6-12-50 MP-DLC
S1-6,0/6-12-50 MP-DLC-B ★
S1-6,0/6-22-50 MP-DLC
S1-6,0/6-22-58 MP-DLC-B ★
S1-8,0/8-22-64 MP-DLC-B ★

NEW!

NEW!

NEW!



★B = Balanced

BALANCED single flute router bits

RESULT:

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

Same cutting geometry as on our standard router bits "Multi-Purpose"

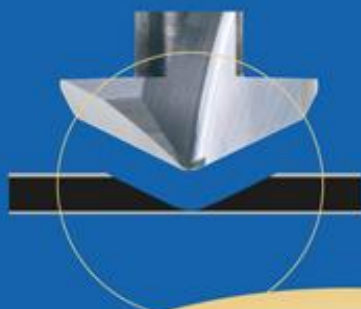
Art.no. UP-CUT	d	D	ℓ	L
S1-5,0/6-12-50 MP-B	5,0	6	12	50
S1-5,0/6-22-58 MP-B	5,0	6	22	58
S1-6,0/6-12-50 MP-B	6,0	6	12	50
S1-6,0/6-22-58 MP-B	6,0	6	22	58
S1-6,0/6-32-64 MP-B	6,0	6	32	64
S1-8,0/8-22-64 MP-B	8,0	8	22	64
S1-8,0/8-32-64 MP-B	8,0	8	32	64
S1-8,0/8-42-76 MP-B	8,0	8	42	76
S1-10,0/10-22-64 MP-B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



New geometry. Rounded tip for more precise bending!

90° - 120° - 135°



Flat tip

Also excellent for acrylic, plastics and wood!



Art.no. ACM router bits	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 10.0/6-50-90° *	90°	10.0	6	50	1.8	•		•	•		
ACM 10.0/10-50-90° *	90°	10.0	10	50	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

Engraving cutters for acrylic, plastics



Acrylic

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!

"Acrylic" router bits



Diamond polishing tool

Glass clear surface finish!

Generates no tension in the material



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

All balanced for 60.000 RPM

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
ℓ11 - L60 - d8 - D10	11	60	8	10	23
Chamfering tool 45°	6	60		8	

- S1 = Single flute router bit
- d = Cutting diameter
- D = Shank diameter
- ℓ = Length of cut
- L = Total length
- A = Acrylic
- B = Ball nose



Single flute **BALL NOSE** router bits 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



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-32/12-60°	60°	32	12	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

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



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

2-fluted, coated router bits 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

Advanced carbide for longer life!



Acrylic

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°)

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) GR-SE(30°)
4,0mmx38mm	(8) HR-SE(15°, 30°, 45°)
4,0mmx38mm	(8/6) DR-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) GR-SE(30°)
6,0mmx50mm	(12 + 12) HR-DE(30°)
4,365mmx165mm	(13) HR(30°)
4,365mmx165mm	(13/11) GR(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

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

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

NEW! Economy Line



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

Tolerances:
-0.000 mm
+0,010mm

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°)



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 (only in 4,365 x 178mm)



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