

V grooving ACM
30m/min!
 Solid carbide • Balanced



New geometry. Rounded tip
 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 aluminum



NEW!

Also available in balanced versions

All our tools are made from
 superior quality tungsten carbide.

Exceptions are the 30/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

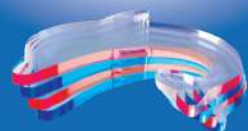
Art.no. UP-CUT	d	D	L	L
S1-1.0/3-30 A	1.0	3	4	30
S1-1.5/3-30 A	1.5	3	6	30
S1-2.0/3-30 A	2.0	3	6	30
S1-3.0/3-30 A	3.0	3	6	30
S1-4.0/3-11.38 A	3.0	3	11	38
S1-5.5/3-6-50 A	2.5	3	8	30
S1-5.5/3-11.38 A	2.5	3	11	38
S1-3.0/3-6-50 A	3.0	3	6	30
S1-3.0/3-11.38 A	3.0	3	11	38
S1-3.0/3-22.50 A	3.0	3	22	50
S1-3.0/4-6-50 A	3.0	4	6	50
S1-3.0/4-11.30 A	3.0	4	11	30
S1-4.0/4-6-50 A	4.0	4	6	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
S1-4.0/6-32.64 A	4.0	6	32	64
S1-3.0/6-8-50 A	3.0	6	8	50
S1-3.0/6-11.30 A	3.0	6	11	30
S1-4.0/6-14.50 A	4.0	6	14	50
S1-3.0/6-22.50 A	3.0	6	22	50
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
S1-6.0/6-16.50 A	6.0	6	16	50
S1-3.0/6-22.50 A	3.0	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
S1-8.0/6-22.64 A	8.0	6	22	64
S1-8.0/6-32.64 A	8.0	6	32	64
S1-8.0/6-42.76 A	8.0	6	42	76
S1-8.0/6-42.100 A	8.0	6	42	100
S1-8.0/6-55.100 A	8.0	6	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
S1-3.0/3-11.38 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
S1-5.0/6-16.50 A DC	5.0	6	16	50
S1-5.0/6-22.50 A DC	5.0	6	22	50
S1-6.0/6-12.50 A DC	6.0	6	12	50
S1-6.0/6-22.50 A DC	6.0	6	22	50
S1-6.0/6-32.64 A DC	6.0	6	32	64
S1-8.0/6-32.76 A DC	8.0	6	32	76
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
- B = Balanced
- 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
S1-6.0/6-22.50 A B	6.0	6	22	50
S1-6.0/6-12.50 A B	6.0	6	12	50
S1-6.0/6-22.50 A B	6.0	6	22	50
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
S1-8.0/6-22.64 A B	8.0	6	22	64
S1-8.0/6-32.64 A B	8.0	6	32	64
S1-8.0/6-42.76 A B	8.0	6	42	76
S1-8.0/6-55.100 A B	8.0	6	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.

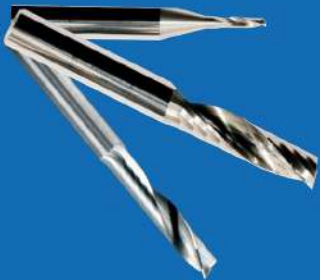


Same cutting geometry as on our standard "Acrylic" router bits



"MULTI-PURPOSE" SINGLE FLUTE ROUTER BITS

for aluminium, ACM,
brass, plastics, MDF



UP-CUT

Art.no.	UP-CUT	d	D	ℓ	L
S1-1.0/3-4-38 MP	1.0	3	4	38	
S1-1.6/3-6-38 MP	1.6	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	
S1-3.0/3-11-50 MP	3.0	3	11	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	
S1-3.0/4-12-50 MP	3.0	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	
S1-4.0/6-14-50 MP	4.0	6	14	50	
S1-4.0/6-22-50 MP	4.0	6	22	50	
S1-4.0/6-12-50 MP	4.0	6	12	50	
S1-3.0/6-14-50 MP	3.0	6	14	50	
S1-3.0/6-18-50 MP	3.0	6	18	50	
S1-3.0/6-12-50 MP	3.0	6	12	50	
S1-4.0/6-6-50 MP	4.0	6	6	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	
S1-4.0/6-12-50 MP	4.0	6	12	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	
S1-8.0/6-22-64 MP	8.0	6	22	64	
S1-8.0/6-32-64 MP	8.0	6	32	64	
S1-8.0/6-42-76 MP	8.0	6	42	76	
S1-8.0/6-42-100 MP	8.0	6	42	100	
S1-10.0/6-22-64 MP	10.0	10	22	64	
S1-10.0/6-32-76 MP	10.0	10	32	76	
S1-10.0/6-42-76 MP	10.0	10	42	76	
S1-10.0/6-55-100 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
 E = Estimated
 BC = Down-cut

Performs better.
Lasts longer!

DOWN-CUT



Art.no.	DOWN-CUT	d	D	ℓ	L
S1-1.0/3-3-38 MP-DC	1.0	3	3	38	
S1-1.5/3-3-38 MP-DC	1.5	3	3	38	
S1-2.0/3-3-38 MP-DC	2.0	3	3	38	
S1-3.0/3-3-38 MP-DC	3.0	3	3	38	
S1-3.0/3-11-50 MP-DC	3.0	3	11	50	
S1-4.0/4-3-38 MP-DC	4.0	4	3	38	
S1-4.0/4-6-50 MP-DC	4.0	4	6	50	
S1-4.0/4-12-50 MP-DC	4.0	4	12	50	
S1-4.0/6-4-50 MP-DC	4.0	6	4	50	
S1-4.0/6-6-50 MP-DC	4.0	6	6	50	
S1-4.0/6-11-50 MP-DC	4.0	6	11	50	
S1-4.0/6-8-50 MP-DC	4.0	6	8	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	
S1-5.0/6-22-50 MP-DC	5.0	6	22	50	
S1-6.0/6-12-50 MP-DC	6.0	6	12	50	
S1-6.0/6-22-50 MP-DC	6.0	6	22	50	
S1-6.0/6-32-64 MP-DC	6.0	6	32	64	
S1-6.0/6-32-100 MP-DC	6.0	6	32	100	
S1-8.0/6-22-64 MP-DC	8.0	6	22	64	
S1-8.0/6-32-76 MP-DC	8.0	6	32	76	
S1-8.0/6-42-76 MP-DC	8.0	6	42	76	
S1-10.0/6-22-64 MP-DC	10.0	10	22	64	
S1-10.0/6-32-76 MP-DC	10.0	10	32	76	
S1-10.0/6-55-100 MP-DC	10.0	10	55	100	

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



BALANCED single flute router bits

RESULT:

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

"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-DLCB *
S1-6.0/6-22-50 MP-DLC
S1-6.0/6-22-50 MP-DLCB *
S1-6.0/6-22-50 MP-DLCB *
S1-6.0/6-22-50 MP-DLCB *

NEW!
NEW!
NEW!



* B = Balanced

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



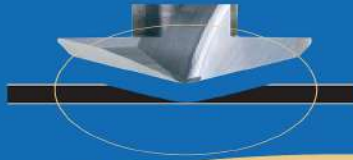
Art.no.	UP-CUT	d	D	ℓ	L
S1-5.0/6-12-50 MP-B	5.0	6	12	50	
S1-5.0/6-22-50 MP-B	5.0	6	22	50	
S1-6.0/6-12-50 MP-B	6.0	6	12	50	
S1-6.0/6-22-50 MP-B	6.0	6	22	50	
S1-6.0/6-32-64 MP-B	6.0	6	32	64	
S1-8.0/6-22-64 MP-B	8.0	6	22	64	
S1-8.0/6-32-64 MP-B	8.0	6	32	64	
S1-8.0/6-42-76 MP-B	8.0	6	42	76	
S1-10.0/6-22-64 MP-B	10.0	10	22	64	
S1-10.0/6-32-76 MP-B	10.0	10	32	76	
S1-10.0/6-42-76 MP-B	10.0	10	42	76	
S1-10.0/6-55-100 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!

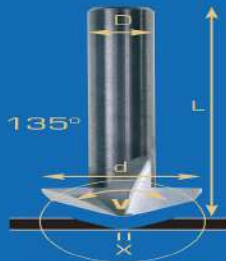
90° - 120° - 135°



Flat tip



Also excellent for acrylic, plastics and wood!



Art.no. ACM router bits

Art.no. ACM router bits	V	d	D	L	X
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 20.5/6-50-135°	135°	20.5	6	50	1.8
B2-ACM 20.5/12-50-135°	135°	20.5	12	50	1.8

B = Ball nose
2 = 2 flute

For maximum material thickness

	FLAT TIP	ROUNDED TIP	3mm	4mm	5mm	6mm
ACM 6.0/6-50-92°	•		•			
ACM 10.0/6-50-90° ★	•		•	•		
ACM 10.0/10-50-90° ★	•		•	•		
B2-ACM 10.0/6-50-90°	•	•	•	•		
B2-ACM 10.0/10-50-90°	•	•	•	•		
B2-ACM 13.0/6-50-90°	•	•	•	•	•	
B2-ACM 13.0/8-50-90°	•	•	•	•	•	•
B2-ACM 11.5/6-50-120°	•	•	•	•		
B2-ACM 11.5/8-50-120°	•	•	•	•		
B2-ACM 15.0/6-50-120°	•	•	•	•		
B2-ACM 15.0/8-50-120°	•	•	•	•		
B2-ACM 15.5/6-50-135°	•	•	•	•		
B2-ACM 15.5/8-50-135°	•	•	•	•		
B2-ACM 20.5/6-50-135°	•	•	•	•		
B2-ACM 20.5/12-50-135°	•	•	•	•		

ACM = Aluminium Composite Material
★ = Also in stock with DLC coating

Engraving cutters for acrylic, plastics



Acrylic

Polished and balanced

- A-GR-3,0/60 (0,3)
- A-GR-6,0/40 (0,3)
- A-GR-6,0/60 (0,4)
- A-GR-6,0/92 (0,2)

★ Also excellent for V grooving 3mm ACM!

"Acrylic" router bits



+



=

MONOCRYSTALLINE 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.

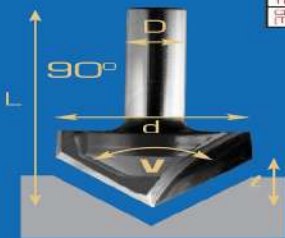
All BALANCED for 60.000 RPM

- S1 - Single flute router bit
- d - Cutting diameter
- D - Shank diameter
- ℓ - Length of cut
- L - Total length
- L3 - Reach 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
b1-6,0/6-12-60-A	6,0	6	12	60
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. Solids 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

2-fluted, coated router bits for stainless/hardened steel.

r = radius

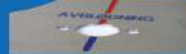
Art.no. 2 FLUTE	d	D	ℓ	L	r
S2-1,0/3-2-35	1,0	3	2	35	0,1
S2-1,5/3-3-35	1,5	3	3	35	0,2
S2-2,0/3-4-35	2,0	3	4	35	0,2
S2-3,0/3-5-35	3,0	3	5	35	0,2
S2-1,0/6-2-40	1,0	6	2	40	0,1
S2-1,5/6-3-40	1,5	6	3	40	0,2
S2-2,0/6-4-40	2,0	6	4	40	0,2
S2-3,0/6-5-40	3,0	6	5	40	0,2
S2-4,0/6-5-40	4,0	6	5	40	0,2



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

Advanced carbide for longer life!



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 (2) HR-SE(30)
- 3,0mmx38mm (7/5) QR-SE(30)
- 4,0mmx38mm (8) HR-SE(15, 30, 45)
- 4,0mmx38mm (8/5) 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)

- 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-BLE
- 4,0mmx38mm(9+9)HR-DE-BLE

- 4,365mmx165mm(13)HR-BLE

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

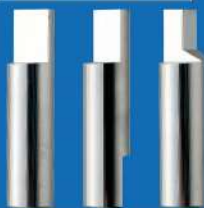
Quarter round:

- 4,0mmx38mm(11/9)QR-SE-BLE

- 4,365mmx165mm(13/11)QR-BLE

- 6,0mmx50mm(13/11)QR-SE-BLE

Tolerances:
-0.000 mm
+0.0010 mm



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



Diamond Adaptor

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



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(8/5)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)

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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