Noga Cooling Systems

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Innovation is the beneficial utilization of knowledge and creativity,
in order to discover and realize what does not yet exist. Erik Keldmann

Noga is innovation

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Noga Head Office

NOGA ENGINEERING & TECHNOLOGY (2008) LTD

Noga Engineering and Technology was established in 1980. Over the years the company has grown to become the world leader in the manufacturing of three main lines:

Deburring Systems **Holding Systems** **Cutting Fluid Applicators**

Noga's strongest points are product design and development, quality and service. Our products are sold in more than 60 countries either through our own companies or a network of exclusive agents.

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All NOGA products meet the strict requirements of ISO 9001 and ISO 14001.

We invite you to visit our web site: www.noga.com for further information.

NOGA reserves the right to make changes in any of its products without prior notice.

WARNINGS

- Blades are sharp and can cut.
- Blades can break causing flying shards.
- Sharp edges and flying shards can cause injury.
- Wear safety googles (both user and bystanders).
- Do not pry or bend blades.
- Keep away from children.
- Do not regrind blades.

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Cooling Systems

CUTTING FLUID APPLICATORS

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Cooling Systems CUTTING FLUID APPLICATORS

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Contents

NOGA Cutting Fluid Applicators were designed to answer various needs for cooling during machining, turning, drilling tapping etc. They are made in four different designs:

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MiniCool

NOGA MINICOOL uses the VENTURI principle to spray an air and liquid mixture. It consists of the following basic parts:

A control valve, spray unit, air line, syphon line and a powerful on/off Popeye magnet, which has a "V" form base, making it possible to mount on non-flat surfaces.

The MINICOOL enables the user to easily control both the air flow rate and liquid rate.

Stainless steel armoured syphon hose and air hose are made in a standard one meter length (special lengths available upon request).

The spray unit comes in three standard lengths: 264, 334, 479 mm (special lengths available upon request).

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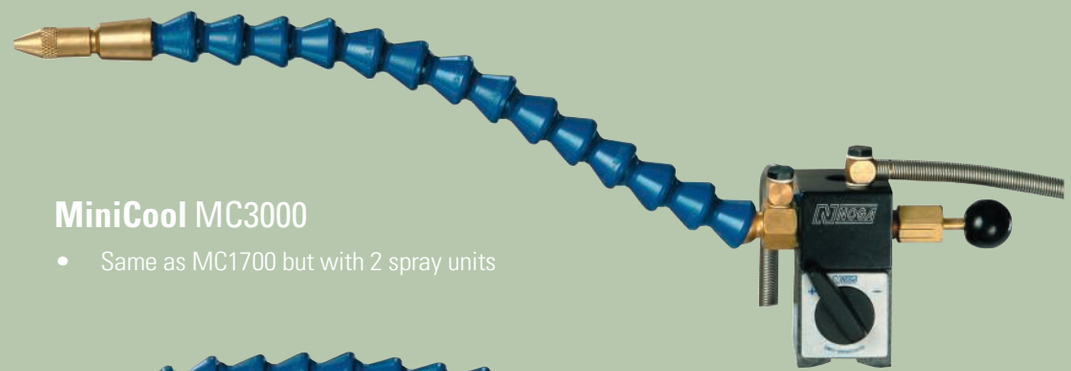
MiniCool

MiniCool MC1700

For Maximum heat dissipation and extended tool life

- Strong magnetic base
- Separate on/off air and fluid controls
- Stainless steel armoured syphon hose and air hose
- Nozzle connected via Loc-Line® flexible hose
- Simple, inexpensive, rugged
- Single spray unit



MiniCool MC3000

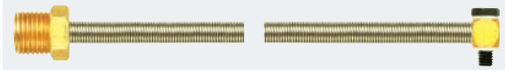
- Same as MC1700 but with 2 spray units

order no.

One spray unit of length (mm)			Two spray units of length (mm)				
264	334	479	264	334	479	Air hose	Syphon hose
MC1700	MC1800	MC2000	MC3000	MC3100	MC3200	1 M	1 M
MC1730	MC1830	MC2030	MC3030	MC3130	MC3230	2 M	2 M

SPARE PARTS

order no.

MC0130		control valve with popeye magnet
MC0101 MC0102 MC0103		spray unit 270 mm spray unit 340 mm spray unit 485 mm
MC0380 MC0302		air line 1 m air line 2 m
MC0360 MC0311		suction line 1 m suction line 2 m
MC0204		valve stem
MC3637		filter
MC0001		nuzzle nut
MC0232		banjo screw & washer
MC0031		banjo fitting

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Fixed & Vari HP Cool Arms

NOGA is introducing its patent pending newest product to the Cooling Systems line.

The Fixed HP Cool Arm and Vari HP Cool arms deliver fluids or cooling liquids at high pressure, up to 1000 PSI, allowing a higher level of machining.
Easy and fast to set in position.
Can be fitted with different sizes of nozzles.

PATENT
PENDING

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Fixed & Vari HP Cool Arms

SPARE PARTS
for CA2000 and CA3000

HEX KEY CA1010
Hex. 5 mm

NOZZLE CA1002
Dia. 2 mm

NOZZLE CA1004
Dia. 4 mm - Standard

NOZZLE CA1006
Dia. 6 mm

ADAPTOR AD1001
Ext. NPT 1/4" - Ext. NPT 1/4"

more adaptors are availble upon request.

FIXED HP COOL ARM CA2000
Single arm with 2 end ball joints so the nozzles can move on wide curve for positioning.

Dimensions:
Length: 164 mm
Thread: Int. NPT 1/4"

VARI HP COOL ARM CA3000
Long articulated arms provide full axis rotation.
Sturdy tightening fixtures for total stability.

Dimensions:
Length: 206 mm
Thread: Int. NPT 1/4"

Both CA2000 and CA3000 are provided with:
CA1010 Hex Key
CA1004 Nozzle
AD1001 Adaptor

MINI VARI HP COOL ARM CA3500
Same as CA3000 but with shortened articulated arms.

Dimensions:
Length: 84 mm
Thread: Int. M 6

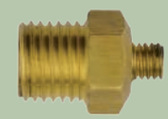
The CA3500 is provided with:
CA1010 Hex Key
CA1007 Nozzle
CA1008 Adaptor

SPARE PARTS
for CA3500

HEX KEY CA1010
Hex. 5 mm

NOZZLE CA1007
Dia. 3 mm

ADAPTOR CA1008
Ext. M6 - Ext. NPT 1/4"



NogaCool

NOGACOOL consists of a manifold & Loc-Line® flexible hose with a nozzle on top and a valve at the bottom, assembled on the powerful on/off Popeye magnet.

The plug attached can be replaced by a second Loc-Line® flexible hose.

NOGACOOL is supplied with a set of three nozzles: 1/16", 1/8" and 1/4".

Working conditions are as follows:

- Pressure: 2-3.4 Bar (30-50 Psi)
- Flow rate: 940 l/hour (250 gal/hour)
- Max. working temp. 170°C

Also available with magnet and manifold only (order no. MC0161).

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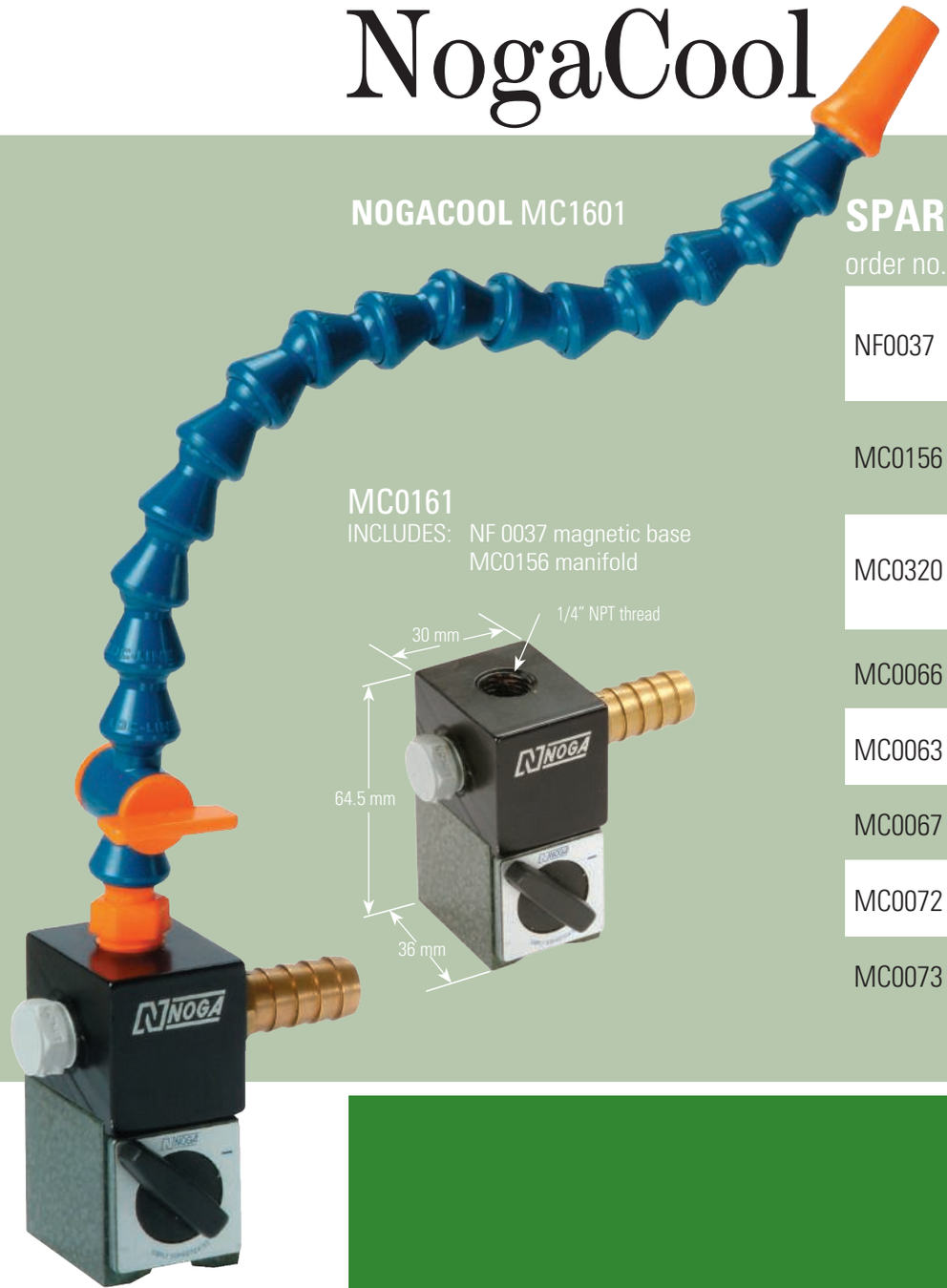
NogaCool

NOGACOOL MC1601



MC0161
INCLUDES: NF 0037 magnetic base
MC0156 manifold

SPARE PARTS

order no.		
NF0037		320N popeye magnet top thread M5
MC0156		manifold
MC0320		324 mm flexible Loc-Line® hose Other dimensions available upon request.
MC0066		Ø1.6 mm plastic nozzle (1/16")
MC0063		Ø3.2 mm plastic nozzle (1/8")
MC0067		Ø6.3 mm plastic nozzle (1/4")
MC0072		Wide plastic nozzle 16 holes Ø1 mm
MC0073		Wide plastic nozzle 16 holes Ø1.5 mm

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Cobra

COBRA 's drop ejector is designed to accurately shoot small quantities of liquid to distinct targets. An air actuated piston shoots the drops through a flexible hose onto the target.

The drop shots can be automatically timed or manually determined by the user, the amount of liquid in each shot can also be adjusted by a tuning screw at the back of the COBRA all according to the user's needs.

The COBRA is operated by clean air, pressure 3-9 bar. Most liquids and solvents up to 250 cst viscosity can be applied.

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Cobra

COBRA CB2000

INCLUDES:
Basic Cobra only

COBRA SET CB2100

INCLUDES:
Basic Cobra CB2000
Small container CB0146
Mechanical valve SH1000
Magnet DG0036
Arm DG60013
Adaptor DG0129
Nylon tube RM8050

See drawing on page 123

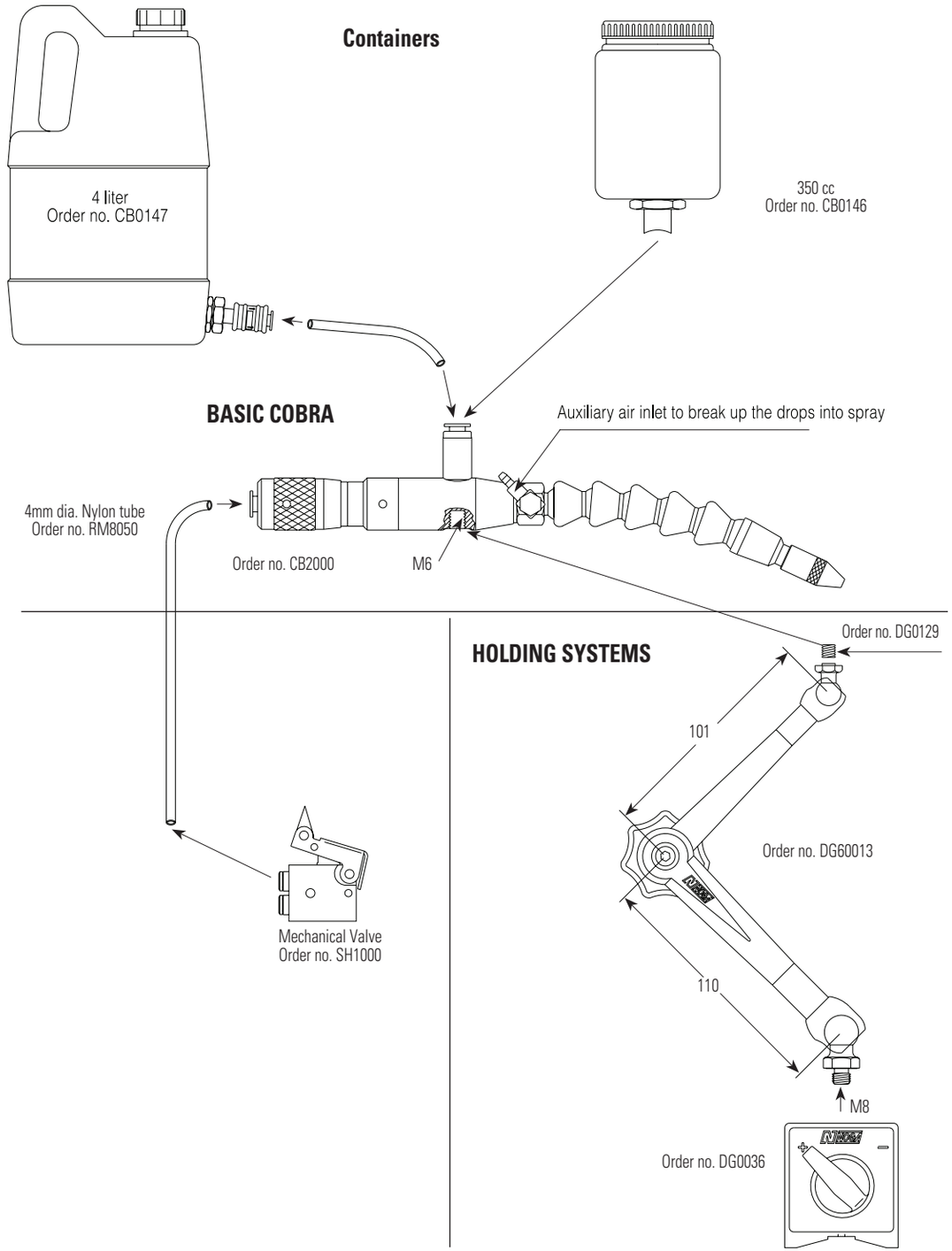
SPARE PARTS

order no.

MC0001		nuzzle nut
MC0232		banjo screw & washer
MC0031		banjo fitting
MC0030		washer

Cobra

Set-up and Accessories



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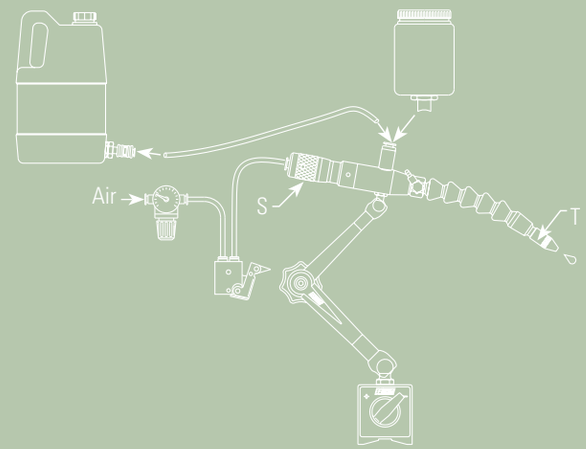
Operating Instructions

The fluid can supplied either by fitting the bowl (CB0146) directly onto the unit or by using the large container (CB0147) and connecting it to the unit by 4 mm hose. Set up the pneumatic circuit as shown in one of the drawings (a) or (b) or (c). All connections are to be made with 4 mm hose.

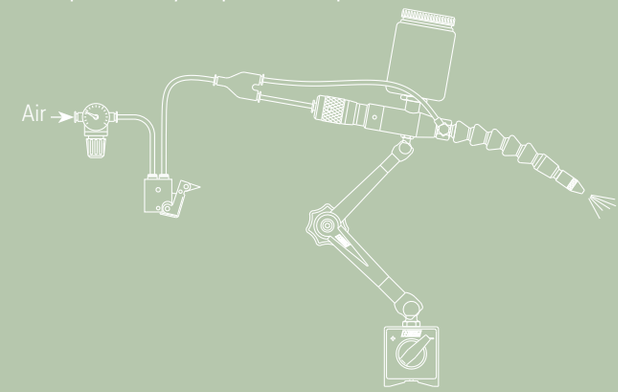
Open drop size control nut "S" to maximum drop size. Start pulsing the unit by pressing the actuating valve many times until drops emerge.

Adjust the drop size to your needs. If you have set up the circuit according to drawing (b), or (c), adjust the air flow with the nozzle nut "T".

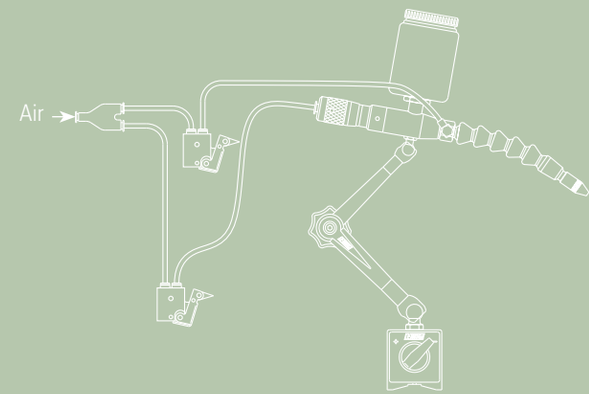
a. Setup for single drops using mechanical valve.



b. Setup for finely dispersed droplets.



c. Setup to supply drops and air jet independently.



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