



Gas Control Equipment



## COMPLETE TORCH SYSTEM

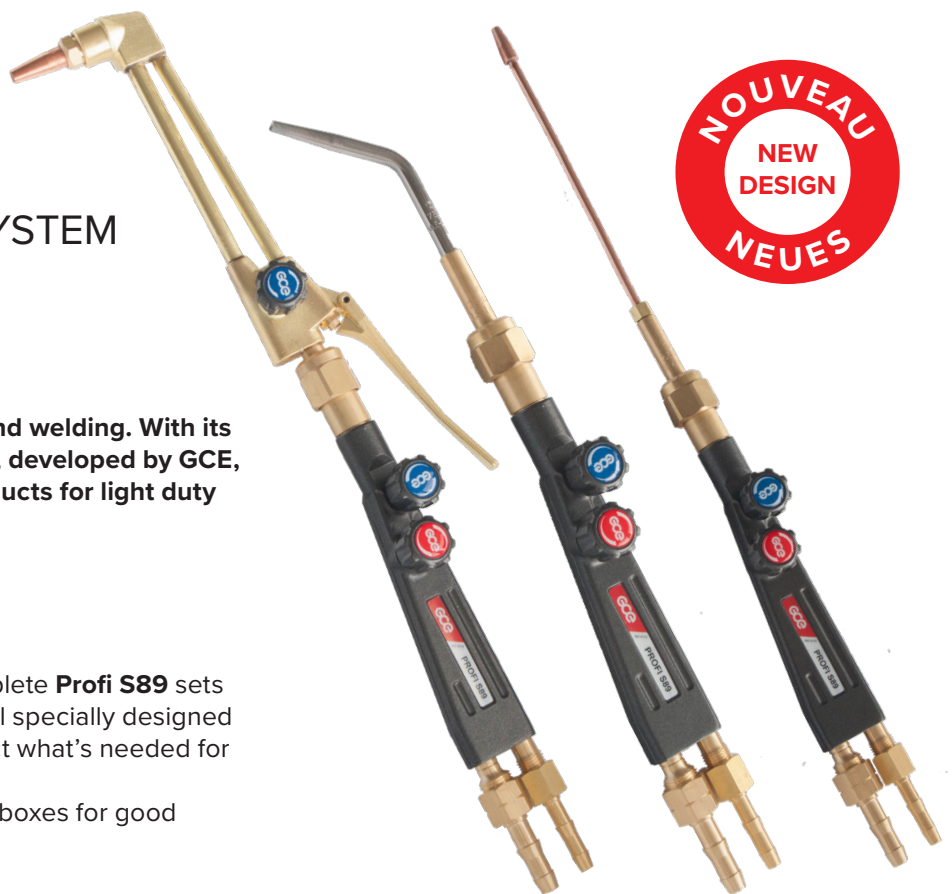
# PROFI S89

Profi S89 is a system for cutting and welding. With its ergonomic design and wide range, developed by GCE, it's one of the most attractive products for light duty applications on the market.

## COMPLETE SETS

GCE offer a selected range of complete **Profi S89** sets for various applications. They are all specially designed to make it easy for the user to select what's needed for the work to be done.

The equipment is packed in robust boxes for good protection and easy transportation.



## PROFI S89

### TECHNICAL INFORMATION

**Profi S89** is a complete system comprising everything you likely need for general welding, heating, brazing or cutting applications.

#### WELDING ATTACHMENTS

The single flame, backfire safe, welding heads come in a flow range from 40 l/h up to 1250 l/h and easy exchange of tips. The welding heads are made of chrome-plated copper for efficient heat dissipation and are fully swaged to give a perfect flame.

Flexible welding heads, heating attachments up to 2500 l/h, and soldering heads are also available.

#### EFFICIENT CUTTING NOZZLES

A wide range of nozzles for a better cutting performance is available in the **Profi S89** system. The solid cutting nozzle with flat seat sealing for the acetylene injector attachment, the two-piece nozzle for the propane attachment, as well as the three-seat nozzle for nozzle mix of the preheating gases, provide a complete and efficient assortment of nozzles.

### FURTHER ADVANTAGES

- The new trim valve designs are easy to adjust and control to set whatever flame required.
- Chrome plated welding tips with good heat radiation and resistance against steel particals during welding process.
- Light weight system with slim design makes it easy to get access to all working areas.
- Tool free exchange of cutting and welding attachments.
- **Profi S89** fully meets the requirements of EN ISO 5172 and is manufactured according to the Quality Management System ISO 9001

### SHANK **PROFI S89**

Article number	Inlet connection	Outlet connection
G0767673	G1/4 × G3/8" LH	M21,5 × 1,5



### WELDING ATTACHMENT



Article number	Size	Welding range ( mm)
14081108	1	0,5 – 1
14081109	2	1 – 2
14081110	3	2 – 4
14081107	-	3 – 5
14081111	4	4 – 6
1408112P	5	6 – 9
14081113	6	9 – 14

### WELDING ATTACHMENT FLEXIBLE



Article number	Size	Welding range ( mm)
14081114	2	1 – 2
14081115	3	2 – 4
14081119	-	3 – 5
14081116	4	4 – 6
14081117	5	6 – 9

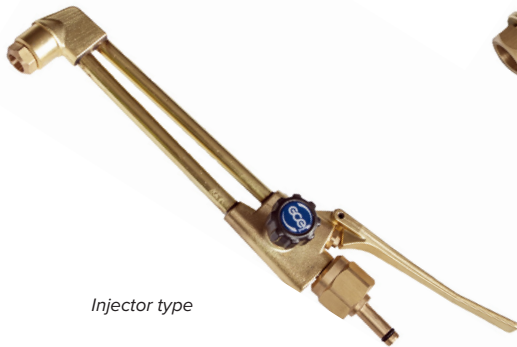
# PROFI S89

## CUTTING ATTACHMENT

Two types of cutting attachments are available. One injector style for acetylene and a nozzle mix design suitable for both acetylene and propane. With the Profi S89 cutting attachment it is possible to cut up to 100 mm thickness.

Article number	Type	Gas	Version	Nozzle type
0767547	injector	A	Lever	HA 411 (B10)
0766166	nozzle mix	A/P	Lever	AGN, PNME

*Cutting attachments for thickness of material max. 100 mm*



## WELDING TIP

The single flame, backfire safe, welding heads come in a flow range from 80 l/h up to 1250 l/h The welding heads are made of chrome-plated copper for efficient heat dissipation and are fully swaged to give a perfect flame.



Article number	Size	Range (mm)	Acetylen consumption [m³/h]	Oxygen consumption [m³/h]
14081221	1	0,5 - 1	0,075	0,08
14081222	2	1 - 2	0,15	0,16
14081223	3	2 - 4	0,3	0,315
14081220	-	3 - 5	0,4	0,42
14081224	4	4 - 6	0,475	0,5
14081225	5	6 - 9	0,75	0,8
9389870	6	9 - 14	1,15	1,25

*Thread size 1-5 = W5/16"×32 Gg, thread size 6 = M9×1.  
Most common setting for all welding and heating attachment:  
oxygen 2,5bar  
acetylene 0,5 bar*

## WELDING TIP FLEXIBLE

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Article number	Size	Welding range (mm)
14081162	2	1 - 2
14081163	3	2 - 4
14081166	-	3 - 5
14081164	4	4 - 6
14081165	5	6 - 9

*Most common setting for all welding and heating attachment:  
oxygen 2,5bar  
acetylene 0,5 bar*

## PROFI S89

### HEATING ATTACHMENT

Two sizes of heating attachments.



Article number	Size	Acetylen consumption [m³/h]	Oxygen consumption [m³/h]
14081120	4	0,5	0,52
14081121	6	1	1,1

Thread size 1-5 = W5/16"×32 Gg, thread size 6 = M9×1

### COMPLETE SETS

Art. Nr.	Description	Cutting attachment	Welding attachment	Nozzles	Other equipment
G14081411	CW SET PROFI S89 MAXI 0,5 - 9 MM	PROFI S89 P 190 ACE 90° L	5 WA 0,5-1/1-2/2-4/4-6/6-9 2 Flexi WA 2-4, 4-6	HA411 - No 1, No 2, No 3	hose connections + nuts, cutting guide twin wheel, cleaning needles
G14081049	CW SET PROFI S89 0,5 - 4 MM	-	3 WA 0,5-1/1-2/2-4/4-6, 2 Flexi WA 2-4, 4-6	-	hose connections + nuts
G0766304	CW SET PROFI S89 0,5 - 14 MM	PROFI S89 P 190 M 90° L	7 WA 0,5-1/1-2/3-5/2-4/4-6/ 6-9/9-14	AGN 3-10, 10-25, 25-40	hose connections + nuts, cutting guide, cleaning needles, goggle, lighter gun
G14081231	CW SET PROFI S89 2-9 MM	PROFI S89 P 190 ACE 90° L	3 WA 2-4/4-6/6-9/ 2 Flexi WA 2-4/4-6	HA411 - No 3	hose connections + nuts

Each product in the box is available as an individual product as well.





## PROFI S89 - COMPLEMENTARY CUTTING NOZZLES

### ACETYLENE NOZZLES

#### HA 411 NOZZLES

Injector type suitable for cutting attachment 0767547.



Article number	Range (mm)	Oxygen pressure (bar)	Acetylene pressure (bar)	Consumption of the oxygen (m <sup>3</sup> /h)	Consumption of the acetylene (m <sup>3</sup> /h)
0768826	1,5 - 3	1,5	0,2 - 0,8	0,2 - 0,3	0,1 - 0,2
0768827	3 - 8	1,5 - 0,2	0,2 - 0,8	0,5 - 0,6	0,1 - 0,2
0768828	8 - 20	3,0 - 4,0	0,2 - 0,8	1,6 - 2,0	0,3
0768829	20 - 50	4,0 - 4,5	0,2 - 0,8	3,8 - 4,2	0,3
0768830	50 - 100	3,0 - 6,5	0,2 - 0,8	5,0 - 9,8	0,3 - 0,5

### AGN NOZZLES

Nozzle mix type type suitable for cutting attachment 0766166.



Article number	Range (mm)	Oxygen pressure (bar)	Acetylene pressure (bar)	Consumption of the oxygen (m <sup>3</sup> /h)	Consumption of the acetylene (m <sup>3</sup> /h)
0768812	3 - 10	2,5 - 3,5	0,3	1,25 - 1,65	0,3
0768649	10 - 25	3,0 - 4,0	0,3	2,12 - 3,20	0,4
0768897	25 - 40	3,5 - 4,5	0,3	3,20 - 4,45	0,45
0768898	40 - 60	4,5 - 5,0	0,5	4,50 - 5,50	0,5
0768899	60 - 100	4,5 - 5,5	0,5	8,40 - 9,80	0,6
0769033	100 - 200	4,5 - 6,5	0,6	13,00 - 15,00	0,75

### AGN NOZZLES COOLEX®\*

Nozzle mix type type suitable for cutting attachment 0766166.



Article number	Range (mm)	Oxygen pressure (bar)	Propane pressure (bar)	Consumption of the oxygen (m <sup>3</sup> /h)	Consumption of the acetylene (m <sup>3</sup> /h)
0768692	10 - 25	3,0 - 4,0	0,3	2,12 - 3,20	0,4
0768693	25 - 40	3,5 - 4,5	0,3	3,20 - 4,45	0,45
0768694	40 - 60	4,5 - 5,0	0,5	4,50 - 5,50	0,5
0768695	60 - 100	4,5 - 5,5	0,5	8,40 - 9,80	0,6

### PROPANE NOZZLES

#### PNME NOZZLES

Nozzle mix type type suitable for cutting attachment 0766166.



Article number	Range (mm)	Oxygen pressure (bar)	Propane pressure (bar)	Consumption of the oxygen (m <sup>3</sup> /h)	Consumption of the propane (m <sup>3</sup> /h)
0769494	3 - 6	2,5 - 3,5	0,3	1,25 - 1,65	0,3
0769495	5 - 12	3,0 - 4,0	0,3	2,12 - 3,20	0,4
0769496	10 - 75	3,5 - 4,5	0,3	3,20 - 4,45	0,45
0769497	70 - 100	4,5 - 5,5	0,5	4,50 - 5,50	0,5
0769498	90 - 150	4,5 - 5,5	0,5	8,40 - 9,80	0,6
0769499	140 - 200	6 - 7,5	0,6	16,20 - 27,20	1,5

### PNME NOZZLES COOLEX®\*

Nozzle mix type type suitable for cutting attachment 0766166.



Article number	Range (mm)	Oxygen pressure (bar)	Propane pressure (bar)	Consumption of the oxygen (m <sup>3</sup> /h)	Consumption of the propane (m <sup>3</sup> /h)
0768652	3 - 10	2,5 - 3,5	0,3	1,25 - 1,65	0,3
0768653	10 - 25	3,0 - 4,0	0,3	2,12 - 3,20	0,4
0768696	25 - 40	3,5 - 4,5	0,3	3,20 - 4,45	0,45
0768697	40 - 60	4,5 - 5,5	0,5	4,50 - 5,50	0,5
0768654	60 - 150	4,5 - 5,5	0,5	8,40 - 9,80	0,6

\*COOLEX® is the generic name for GCE's 3-cone sealed cutting nozzles which are an innovative development based on conventional cutting nozzles. The COOLEX® nozzles have a cooling flow duct patented by GCE. In a conventional cutting nozzle, hot gas penetrates from the heating flame into the cutting duct, causing inappropriate heating of the cutting nozzle, often up to 500°. The COOLEX® nozzles with a cooling flow duct reduce the temperature of the nozzles and increase the operational function and the life time of the nozzle.

## PROFI S89

### CONNECTING NUT FOR SHANK



Article number	Type
14081002	M 21 × 1,5

### O-RINGS FOR ATTACHEMENTS



Article number	Type	Size	Pcs in package
14081019	O-ring	11 × 2	1
14081018P	O-ring	4,47 × 1,78	10

### CUTTING GUIDE - ATTACHMENT FOR TORCH HEAD, WITH ANGLED CUTTING OPTION



Article number	Range (mm)	Cutting torch
9414770*	twin wheel, Ø 19 mm.	injector type

\* new version F22310028 coming soon!

### CIRCLE CUTTING ATTACHEMENT WITH CENTER POINT, CIRCLE Ø UP TO 800 MM



Article number	Range
14008002	for cutting guide 9414770 (F22310028)

### CIRCLE CUTTING GUIDE



Article number	Range (mm)	Cutting torch
9430450	Ø 19 mm	nozzle mix type

### GLAND NUT FOR NOZZLE



Article number	Type	Cutting torch
9414740	M 14,5 × 1/26" (60°)	injector type
9431350	M 22 × 1,5	nozzle mix type