

BRAZING AND WELDING EQUIPMENT BY GREGGERSEN

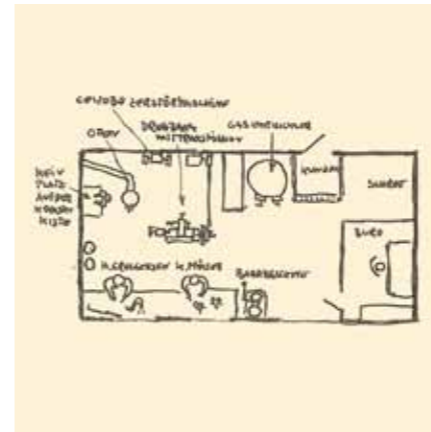


CATALOG



Bound by tradition

GREGGERSEN WELDING EQUIPMENT



1924
The company was established by Hans Greggersen as a repair shop for welding tools.

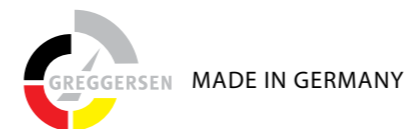
The first company address until 1944 is Schanzenstraße 64-66 in Hamburg.



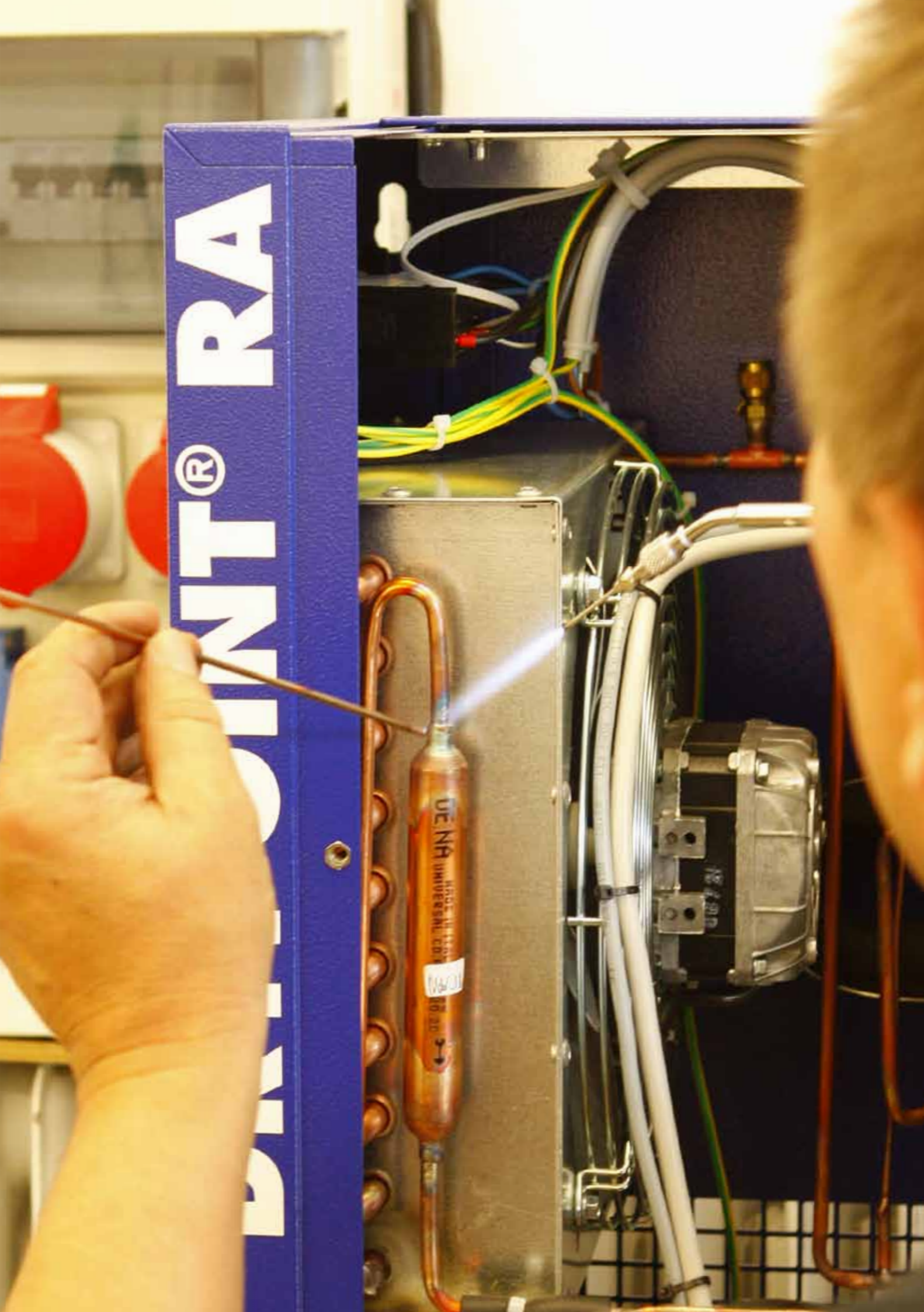
1983
Since 1983 Greggersen develops and manufactures systems and components for Medical Technology, CEGA Systems and

welding equipment in Bodestraße 27-29 in Hamburg.

2015
Greggersen is a leading international company, operating in the core areas of welding equipment, medical technology and CEGA systems. The family business, in its 4th generation, offers outstanding quality –“made in Germany”; and has received several design awards from Europe and the US.



BOUND BY TRADITION



Micromax

THE FINEST FOR SOLDERING, BRAZING & WELDING

SCOPE

The product is ideal to use anywhere where small parts need be processed with a sharp defined flame, especially in the jewelry industry, dental laboratories, in the model making area and the electrical industry. The Micromax is, of course, also suitable for many other applications. Creativity knows no bounds with Greggersen products.

For welding or soldering/brazing work on material thicknesses between 0.05 and 2 mm the Micromax is the right partner! Wherever quality and reliability are required, you can count on him.

The Micromax can bring high heat into small areas of the working pieces and get the finest welding and soldering/brazing out of it. With its needle valve spindles you can regulate the gases with absolute precision!

The base of the Micromax is a small handle which fits all fuel gases - it's suitable for acetylene, propane, natural gas and all common fuel gas mixtures in combination with oxygen. The shank size is 12.5 mm.

HANDLE

The Micromax handle is designed very light and handy. In addition, it is already equipped with a highly flexible hose unit (2 m). The extra-light „miniature hose“ (DN 3.2 mm x 1.8 mm) is suitable for all the here specified fuel gases.

INSERTS AND NOZZLES

The Micro insert has a quick-change system that allows a fast change of welding or soldering/brazing tips. The Micromax nozzles for propane, natural gas and hydrogen are available in four different sizes.

The special copper nozzles for acetylene / oxygen are coming in three different sizes. The working range, depending on the insert, is from 0.05 mm to 2 mm.

The Micromax operates with an oxygen pressure of 1 bar. The flame can be adjusted very fine by the needle valves in the handle.

The various inserts or tips are easy to change without any tool. For even more performance our inserts from the Ergomax program are also compatible with the Micromax handle.



MICROMAX-ERGOMAX COMPATIBILITY



All Ergomax inserts can be used for the Micromax system aswell (and vice versa)!

Micromax

SYSTEM, COMPONENTS, ACCESSORIES



SYSTEM

Micromax propane/oxygen in box 702310

Device for propane/oxygen,
consisting of: handle & 2 m hose,
Insert with quick change system,
4 nozzles for propane size 1-4

Micromax acetylene/oxygen in box 702311

Device for acetylene/oxygen,
consisting of: handle & 2 m hose,
Insert with quick change system,
3 copper nozzles for acetylene size 1-3

Micromax propane+acetylene/oxygen in box 702312

Device for propane & acetylene/oxygen,
consisting of: handle & 2 m hose,
Insert with quick change system,
2 nozzles for propane size 1-2, 2 copper nozzles for acetylene size 1-2



MICROMAX FOR REFRIGERATION TECHNOLOGY

Get brazing joints at capillary pipes done easily.



THE MICROMAX IN HIS ENVIRONMENT

Well-stocked goldsmiths have to have a Micromax! The unit is ideal for fine applications in the jewelery creation and -makeover.

COMPONENTS

Micromax handle 702350

With needle valve spindles to regulate the gases with absolute precision,
highly flexible hose unit (2 m),
DN 3.2 mm x 1.8 mm

INSERT

insert with quick change system 702340

NOZZLES

nozzle for propane size 1 (0,8 mm) 702320

nozzle for propane size 2 (1,0 mm) 702321

nozzle for propane size 3 (1,2 mm) 702322

nozzle for propane size 4 (1,5 mm) 702323

copper nozzle for acetylene size 1 702330

copper nozzle for acetylene size 2 702331

copper nozzle for acetylene size 3 702332

ACCESSORIES

Micro-hose unit DN 3,2 (extra light and flexible), per meter 702345

pressure regulator for oxygen, adjustable from 0,2 to 1 bar 701767

Micromax and gassaver as a team on request

ideal for serial production with frequently interruptions,
consisting of:

- gassaver 702667 with valve and pilot flame
- Micromax with Micro-hose unit (2 m)
- insert with quick change system
- nozzles or copper nozzles



&





Ergomax

BRAZING, CUTTING & WELDING THE ERGONOMIC WAY

SCOPE

If convenient handling is required our Ergomax is the perfect partner. You can find the device everywhere in the industrial production, the automotive industry and the installation area. It is also frequently used in education and training centers.

The unit is supplied in a full metal construction. It is a robust and high-quality professional unit, light like no other. The Ergomax combi device contains the Ergomax handle with hose connections, control valves as well as the welding and cutting inserts.

HANDLE

The handle has a universal design and can be used for all normal fuel gases, such as acetylene, hydrogen, propane, and city gas. The adjustment of the fuel gas is given by our special cutting, welding and soldering inserts. Therefore place the desired gas type in your order. A use of inserts for different gases is not possible due to different ignition speeds and the therefore varying hole diameters.

The only 400 grams light handle with precision valves can be supplemented with a variety of inserts:

- 8 inflexible inserts
- 4 flexible inserts
- 2 spray head inserts
- Fork insert for simultaneous heating from two sides
- Cutting insert with nozzles
- Various special inserts

The shank size is 12,5 mm. The accessories in many different sizes can be found on the following pages. Despite the robust design, the Ergomax system is very handy and well suited for continuous operation in practice.



MICROMAX-ERGOMAX COMPATIBILITY



All Ergomax inserts can be used for the Micromax system aswell (and vice versa)!

Ergomax for acetylene/oxygen

SYSTEM, COMPONENTS



SYSTEM

Ergomax acetylene/oxygen in box with cutting insert 703180

Device for acetylene/oxygen, consisting of: handle, cutting insert with nozzles, 5 welding inserts from 0,5–9 mm, wrench

Ergomax acetylene/oxygen in box without cutting insert 703181

Device for acetylene/oxygen, consisting of: handle, 5 welding inserts from 0,5–9 mm, wrench



COMPONENTS

Ergomax handle 703185



INSERTS

insert acetylene/oxygen	0,2–0,5 mm	703140
insert acetylene/oxygen	0,5–1 mm	703141
insert acetylene/oxygen	1–2 mm	703142
insert acetylene/oxygen	2–4 mm	703143
insert acetylene/oxygen	4–6 mm	703144
insert acetylene/oxygen	6–9 mm	703145
insert acetylene/oxygen	9–14 mm	703146



FRONT PARTS

front part acetylene/oxygen	0,2–0,5 mm	703110
front part acetylene/oxygen	0,5–1 mm	703111
front part acetylene/oxygen	1–2 mm	703112
front part acetylene/oxygen	2–4 mm	703113
front part acetylene/oxygen	4–6 mm	703114
front part acetylene/oxygen	6–9 mm	703115



FLEXIBLE FRONT PARTS, FLEXIBLE INSERTS

flexible front part acetylene/oxygen	1–2 mm	703120
flexible front part acetylene/oxygen	2–4 mm	703121
flexible front part acetylene/oxygen	4–6 mm	703123
flexible front part acetylene/oxygen	6–9 mm	703124
flexible insert acetylene/oxygen	1–2 mm	703150
flexible insert acetylene/oxygen	2–4 mm	703151
flexible insert acetylene/oxygen	4–6 mm	703152
flexible insert acetylene/oxygen	6–9 mm	703153

PREHEATING INSERTS

preheating insert with spray head for acetylene/oxygen 4–6 mm 703148

preheating insert with spray head for acetylene/oxygen 6–9 mm 703149

MELTING INSERT

melting insert for acetylene/oxygen 703154

SPECIAL PREHEATING INSERTS

special preheating insert for acetylene/oxygen on request

FORK INSERT

fork insert for acetylene/oxygen 703156

CUTTING INSERT

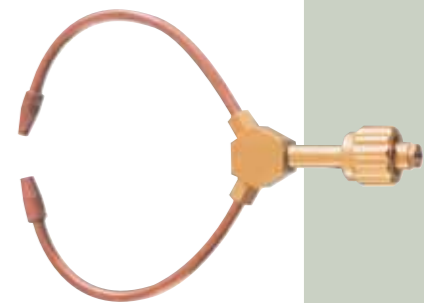
cutting insert for acetylene/oxygen incl. nozzles 703190

NOZZLES

cutting nozzle for acetylene 3–10 mm 703131

cutting nozzle for acetylene 10–30 mm 703132

heating nozzle for acetylene 3–100 mm 703670



Ergomax for propane/oxygen

SYSTEM, COMPONENTS



SYSTEM

Ergomax propane/oxygen in box with cutting insert	703280
Device for propane/oxygen, consisting of: handle, cutting insert with nozzles, 5 welding inserts from 0,5–9 mm, wrench	

Ergomax propane/oxygen in box without cutting insert	703281
Device for propane/oxygen, consisting of: handle, 5 welding inserts from 0,5–9 mm, wrench	



COMPONENTS

handle Ergomax	703185
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INSERTS

insert propane/oxygen	0,2–0,5 mm	703240
insert propane/oxygen	0,5–1 mm	703241
insert propane/oxygen	1–2 mm	703242
insert propane/oxygen	2–4 mm	703243
insert propane/oxygen	4–6 mm	703244
insert propane/oxygen	6–9 mm	703245
insert propane/oxygen	9–14 mm	703246



FRONT PARTS

front part propane/oxygen	0,2–0,5 mm	703210
front part propane/oxygen	0,5–1 mm	703211
front part propane/oxygen	1–2 mm	703212
front part propane/oxygen	2–4 mm	703213
front part propane/oxygen	4–6 mm	703214
front part propane/oxygen	6–9 mm	703215



FLEXIBLE FRONT PARTS, FLEXIBLE INSERTS

flexible front part propane/oxygen	1–2 mm	703220
flexible front part propane/oxygen	2–4 mm	703221
flexible front part propane/oxygen	4–6 mm	703222
flexible front part propane/oxygen	6–9 mm	703224
flexible insert propane/oxygen	1–2 mm	703250
flexible insert propane/oxygen	2–4 mm	703251
flexible insert propane/oxygen	4–6 mm	703252
flexible insert propane/oxygen	6–9 mm	703253

PREHEATING INSERTS

preheating insert with spray head for propane/oxygen	4–6 mm	703248
preheating insert with spray head for propane/oxygen	6–9 mm	703249

MELTING INSERT

melting insert for propane/oxygen	703255
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RING MELTING INSERT FOR MELTING OF VARIOUS MATERIALS

ring melting insert for propane/oxygen	703260
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FORK INSERT

fork insert for propane/oxygen	703256
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CUTTING INSERT

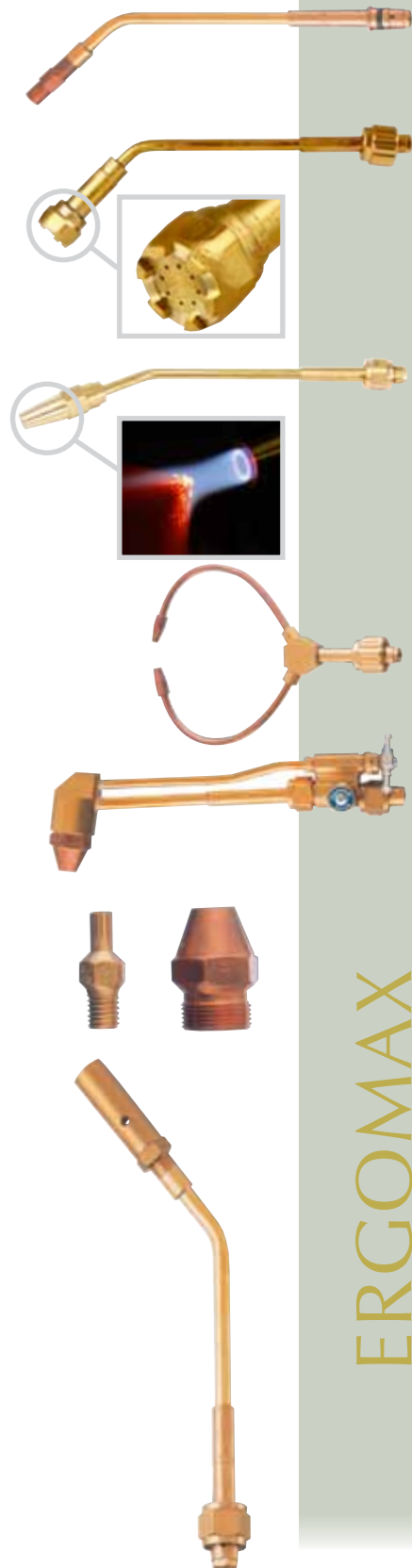
cutting insert for propane/oxygen incl. nozzles	703290
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NOZZLES

cutting nozzle for propane	3–10 mm	703231
cutting nozzle for propane	10–30 mm	703232
heating nozzle for propane	3–100 mm	703230

INSERT PROPANE / CIRCULATING AIR

insert for propane/circulating air under use of soft solder up to 400 °C	703247
(suitable for copper pipes to the diameter of 28mm)	



When using the insert for propane / circulating air, the oxygen supply is interrupted automatically.



Mobile Devices

FLEXIBILITY BECAUSE OF MOBILITY

MOBILE DEVICES BY GREGGERSEN

allowing the user any type of assembling work executed promptly and anywhere on site. Greggersen is building mobile devices for over more than 30 years. In addition to mobile devices for cutting and welding, we offer a very large selection of soldering systems.

From the gas supply through the torch our units build a compact and reliable plant.

Brazing has gained in importance in recent years because the piping material changed and the solder has improved. In addition, fittings and connectors are now to procure extremely inexpensive.

Further advantages for use of propane / oxygen are:

- Cheaper bottle prices
- Lower weight
- lower ignition speed (hence almost complete suppression of flashbacks)

THE ADVANTAGES OF GREGGERSEN DEVICES

We will illustrate the mentioned safety and economic benefits of our devices on each unit in this catalog.

We will introduce on the following pages these devices in detail. Our mobile devices are particularly easy to transport and easy to store. The racks are designed for a fixed and safe position of the bottles and the fittings are well protected. The handling with 50-liter bottles and extra long hoses is expired. This leads to a significant reduction of human resources and associated costs!

CUTTING WITH PROPANE

cutting with propane / oxygen is not a problem and represents an interesting alternative for cutting with acetylene / oxygen ...



FLASHBACK ARRESTORS for fuel gases are included in all Greggersen mobile devices!



Mobile devices

PROPANE/OXYGEN DEVICES

ERGOMAX PLUS

The Ergomax plus is one of our smallest complete soldering systems, but at least as efficient as its „big brothers“. The unit is housed in a stable steel case. It weighs in the standard version only 17 kg and is easy to store anywhere. The integration of the gas cylinders in the steel case allows the device always to be ready for use on site.

Ergomax plus in case 702511

box contents:

- 2-l oxygen bottle (empty)
- 425-gr. propane bottle (empty)
- pressure reducer for oxygen & propane
- filler for oxygen & propane
- wrench
- hose unit, 4,5 m, with fittings
- Ergomax handle
- 2 flexible inserts (1–2 mm, 2–4 mm)
- Ergomax steel case
- manual
- flashback arrestor

Ergomax plus in case „Big Box“ 702510

box contents:

- 2-l oxygen bottle (empty)
- 425-gr. propane bottle (empty)
- pressure reducer for oxygen & propane
- filler for oxygen & propane
- wrench
- hose unit, 4,5 m, with fittings
- Ergomax handle
- 4 inflexible inserts (0,5–1 mm, 1–2 mm, 2–4 mm, 4–6 mm)
- Ergomax steel case
- manual
- flashback arrestor

Ergomax plus, cartridge-versions upon request



SOLDERING TIME WITH THE ERGOMAX PLUS

The amount of gas is sufficient for normal installation services on the entire working day, since the actual soldering time represents only a small proportion of the whole installation. For the exact time frame take a look at the chart below.

If the bottle trough extensive work runs empty, a refilling with the filler in the box is completely unproblematic and easy.

Please follow the instructions booklet for filling!

By regularly filling in the end of the day the device is ready to use for the next day. The 425-gr-propane-filling lasts for approximately 2½ oxygen fillings.

SOLDERING TIME CHART

insert size	mm	0,5–1	1–2	2–4	4–6	6–9
soldering time	h	4	2	1	¾	½



AVAILABLE NOW!

Device equipped with solid shoulder-belt.
Transportation of the Ergomax plus gets way easier!



BUNDLE ERGOMAX SHOULDER-BELT

1x shoulder-belt, 2x mounting-ring, mounting-material

700100

Mobile devices

PROPANE/OXYGEN DEVICES

DEVICES IN STEEL FRAMES

Our devices in steel frames are all characterized by their robust, lightweight construction. The supporting frames have been designed for the easy and convenient handling with the devices, but also to protect all the fittings from damage. The pressure reducers, valves, fittings, etc. are protected so that damage by falling over, rough handling, etc. are virtually excluded. The bottles are well secured by straps, so slipping is not possible. The size of the gas bottles also allows larger installations. The bottles can be easily refilled by hand (MANUAL for filling instructions) with our filler. So the devices are back in use again fast. The contents of the devices can be adapted to individual needs.



The Ergomax Go is our newest portable device. His bottle holder is designed for all common disposable cartridges, but you can also place refillable 2-liter bottles in the simple but effective system, that guarantees a safe stand.

Ergomax Go (cartridge version) 702543

consisting of:

- pressure reducer for oxygen & propane
- Ergomax handle
- insert (1-2)
- hose unit, 2,5 m, with fittings
- oxygen cartridge
- MAPP gas cartridge
- flashback arrestor for fuel gas



Ergomax Go (2-l bottle version) 702544

consisting of:

- pressure reducer for oxygen & propane
- Ergomax handle
- insert (1-2)
- hose unit, 2,5 m, with fittings
- 2-l oxygen (empty)
- 425 g propane bottle (empty)
- flashback arrestor for fuel gas



PS88 for propane/oxygen 702532

consisting of:

- 5-l-oxygen bottle (empty)
- 425-gr. propane bottle (empty)
- pressure reducer for oxygen & propane
- hose unit, 4,5 m, with fittings
- Ergomax handle
- 2 flexible inserts (1-2 mm, 2-4 mm)
- steel frame
- flashback arrestor for fuel gas



SOLDERING/BRAZING TIME WITH THE PS 88

We picked this very bottle sizes (ratio 1 : 5) to correspond to the actual consumption. The two bottles are empty at the same time, this facilitates the regular refilling.

The chart below gives an overview for the exact soldering time used in different inserts.

When using the spray head inserts the consumption is of course higher, but the heating time for larger and thicker pipes is considerably reduced.

SOLDERING/BRAZING TIME CHART

insert size	mm	0,5-1	1-2	2-4	4-6	6-9
soldering time	h	10	5	2 1/2	1 3/4	1 1/4

Model 85 + box, for propane / oxygen 702530

fits for 5-l oxygen and 5-kg propane bottle (without bottles)

consisting of:

- pressure reducer for oxygen & propane
- hose unit, 4,5 m, with fittings
- Ergomax in box:
 - 5 inserts (0,5-9 mm)
 - Ergomax handle
 - wrench
- steel frame
- flashback arrestor for fuel gas

Modell 85 + 2 inserts, for propane / oxygen 702531

fits for 5-l oxygen and 5-kg propane bottle (without bottles)

consisting of:

- pressure reducer for oxygen & propane
- hose unit, 4,5 m, with fittings
- Ergomax handle
- 2 flexible inserts (2-4, 4-6 mm)
- flashback arrestor for fuel gas

ACCESSORIES FOR MODELL 85

5-l oxygen bottle (empty) 702554

5-kg propane bottle (empty) 702550





Mobile devices

PROPANE/OXYGEN DEVICES

SOLDERING/BRAZING DEVICE ON BOTTLE TROLLEY

The largest of our mobile devices can be handled very easily. The 260-mm tires from the trolley allowing good mobility on uneven paths. Even the transport up stairs can be done alone. The slight tilting of the wheels immediately creates mobility. In the staircase area, the cart can be pulled easily, without the possibility to damage the bottles. Long reach for one-man operations!

The stable and compact construction is completed by an excellent support for the bottles, which prevents sliding during loading or in transit. The hose holder are also handles, you can use to load the trolley easily in a vehicle. The handle bar also protects the regulator from damage during operation or transport.

WEIGHT

without bottles: 12 kg
 with bottles: 37 kg

MEASUREMENTS

high: 1000 mm
 width: 400 mm
 depth: 400 mm

soldering device on bottle trolley 702540

fits for 10-l oxygen bottle and 5-kg propane bottle (without bottles)

consisting of:

- pressure reducer for oxygen & propane
- Ergomax handle
- 2 flexible inserts (1-2, 2-4)
- hose unit, 4,5 m, with fittings
- bottle trolley

ACCESSORIES FOR SOLDERING DEVICE ON BOTTLE TROLLEY

10-l oxygen bottle (empty) 702552
 5-kg propane bottle (empty) 702550

Spare Parts for Propane / Oxygene Devices

GENUINE GREGGERSEN

PARTS & ACCESSORIES

We guarantee long time availability of our spare parts. After years of use you will still be able to get spare parts from Greggersen.

Below you find a small selection of accessories.

Due to complexity of the devices we do not show spare parts in catalogs anymore.

Please do not hesitate to contact our customer service if you need spare parts or if you have any other queries.



ZUBEHÖR/ERSATZTEILE

Hose-Unit propane/oxygen, 4,5 m	702801
2-l-Cylinder oxygen, empty	702802
425-g-Propane Cylinder, empty	702803
425-g-Propane Cylinder with bottom stand, empty	100561
Pressure Reducer oxygen with short handle	702804
Propane regulator fixed, 1,5 bar, connection 3/8" lh	100544
Propane regulator fixed, 1,5 bar, with combi-connection	702806
Filler for propane	100540
Filler for oxygene	702808
Filler bow oxygene	702809
Wrench	703345
Propane-Valve for cartridge (no image)	700040
Propane-Cartridge 330 gr. / 600 ml (no image)	104909
Flashback arrestor for fuel gas G 3/8" LH EN 730-1 (ISO 5175)	103195
Flashback arrestor oxygen G 1/4"RH EN 730-1 (ISO 5175)	104410



Mobile Devices A/S

ACETYLENE/OXYGEN

MOBILE WELDING DEVICES

Our mobile welding devices are being powered by acetylene/oxygen. For welding steel parts, a temperature of 3000°C and higher is mandatory. For this application you need a gas mixture of acetylene and oxygen. It contains enough energy to reach that kind of temperatures.

Furthermore acetylene/oxygen is a very common and thus economic combination. The devices are either portable (2-x-5-Liter) or mounted on a trolley (2-x-10-Liter).

In addition to our standard product range, we offer custom made solutions upon request. E. g. the sled-frame-mounted devices for special operations such as civil protection and disaster control.

MOBILE CUTTING DEVICES

We offer mobile cutting devices as well. Because of the very high oxygen consumption this application on a mobile basis is very rare. It is only needed in rescue work / civil protection and disaster control.



INDIVIDUAL CONFIGURATION

As well the portable as the trolley based devices can be equipped with the Ergomax or Macromax-system. You are free to choose!



GAS CYLINDERS

Please consider, that all devices come without cylinders! Filled Gas cylinders are considered dangerous goods and the shipping would be too costly.

Portable cutting / welding device Mod. 85 acetylene/oxygen + case 702520

suitable for 5-l-oxygen- and 5-l-acetylene cylinder (cylinders not included)

Scope of delivery:

- Pressure reducer for acetylene and oxygen
- Hose-unit, 5 m, equipped with fittings
- Combination device Ergomax in a steel-case
 - Ergomax handle
 - Cutting insert, nozzles included
 - 5 welding inserts (0,5–9 mm)
- Flashback arrestors for acetylene/oxygen
- Rack, made of steel

Portable welding device Mod. 85 acetylene/oxygen with 2 inserts 702521

suitable for 5-l-oxygen- and 5-l-acetylene cylinder (cylinders not included)

Scope of delivery:

- Pressure reducer for acetylene and oxygen
- Hose-unit, 5 m, equipped with fittings
- Combination device Ergomax
 - Ergomax handle
 - 2 flexible welding inserts (2–4, 4–6 mm)
- Flashback arrestors for acetylene/oxygen
- Rack, made of steel

ACCESSORIES

5-l-oxygen cylinder, empty 702554

5-l-acetylene cylinder, empty 702555

Macromax on trolley, acetylene/oxygen 702526

suitable for 10-l-oxygen- and 10-l-acetylene cylinder (cylinders not included)

Scope of delivery:

- Pressure reducer for acetylene and oxygen
- Hose-unit, 10 m, equipped with fittings
- Combination device Ergomax
 - Ergomax handle
 - 6 welding inserts (0,5–14 mm)
 - Cutting insert, nozzles included
 - Guiding carriage
- Wrench, protection goggles, igniter and nozzle-cleaner
- Flashback arrestors for acetylene/oxygen
- Trolley, made of steel, with solid-rubber-wheels

Ergomax on trolley, acetylene/oxygen 702522

suitable for 10-l-oxygen- and 10-l-acetylene cylinder (cylinders not included)

Scope of delivery:

- Pressure reducer for acetylene and oxygen
- Hose-unit, 10 m, equipped with fittings
- Combination device Ergomax in a steel-case
 - Ergomax handle
 - 5 welding inserts (0,5–9 mm)
 - Cutting insert, nozzles included
 - Wrench, protection goggles, igniter and nozzle-cleaner
- Flashback arrestors for acetylene/oxygen
- Trolley, made of steel, with solid-rubber-wheels

ACCESSORIES

10-l-oxygen cylinder, empty 702552

10-l-acetylene cylinder, empty 702553



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Wir machen Ihnen
richtig Feuer!

