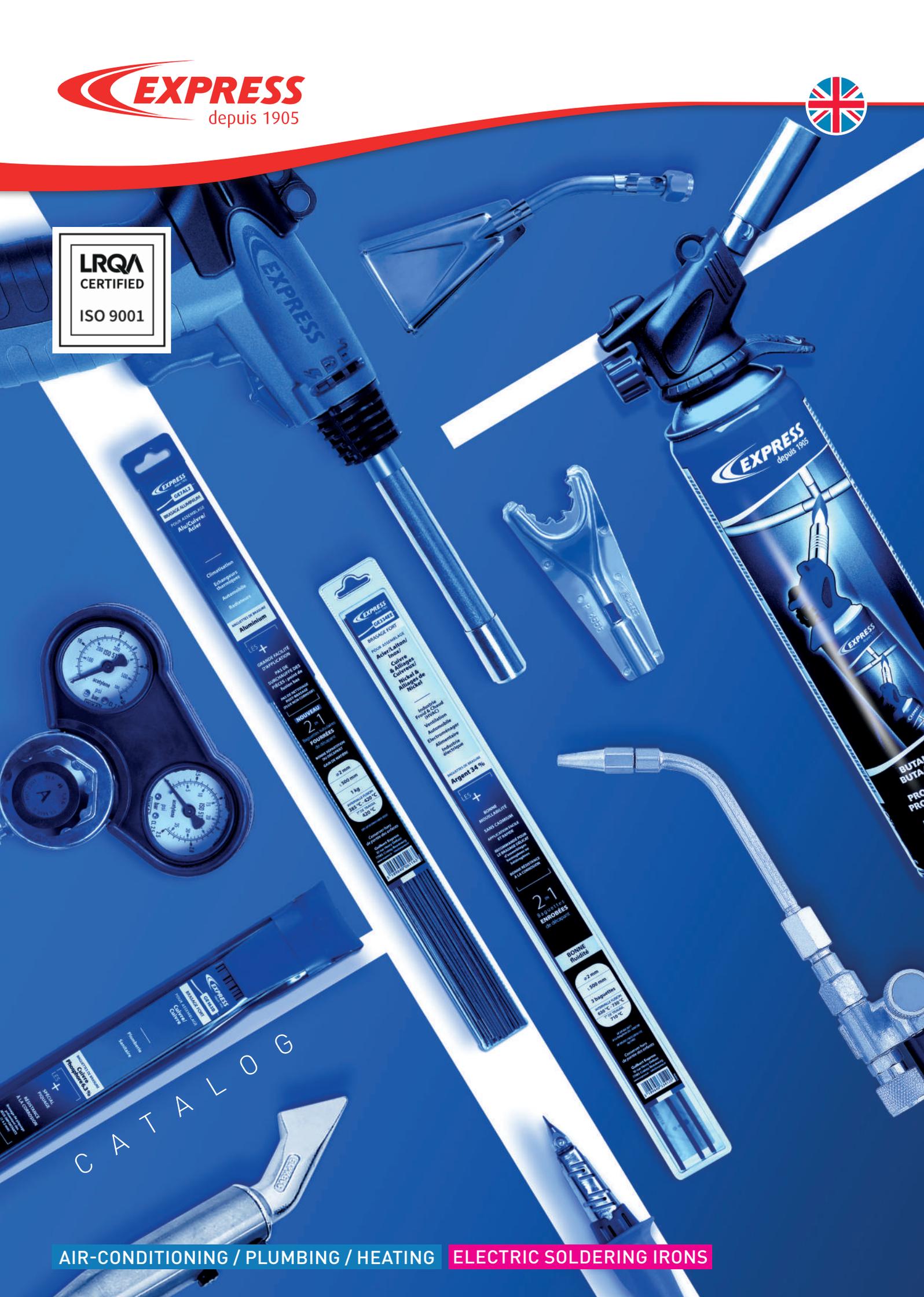




LRQA
CERTIFIED
ISO 9001



CATALOG

CONTENTS

BRAZING TOOLS FOR AIR-CONDITIONING / PLUMBING / HEATING



AIR CONDITIONING

Vulcane Express torches	6
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PLUMBING / HEATING

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SOLDERING TOOLS - ELECTRIC SOLDERING IRONS



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NEW

GUILBERT EXPRESS

EXPERTISE
AND SERVICE
« MADE IN FRANCE »

AT THE HEART OF THE EASTERN PARIS INDUSTRIAL ZONE

With a strong attachment to the Île-de-France region since its creation, the company Guilbert Express has made the strategic choice to locate all of its business and production units here. This choice has been decisive in producing the synergy between the various units that enables us to offer our customers uncompromising quality.



THE RESEARCH & DEVELOPMENT OFFICE

Working closely with the factory, our engineers design the products of tomorrow using latest-generation tools (such as 3D simulation and full-scale prototypes).

More than 50 patents have been filed, some of which have become essential products, including the Cercoflam, the autonomous roofing iron the Vulcane Express torch and its revolutionary self-maintenance system.

THE TEST CENTER

Express products are sent to our testing unit in order to ensure the highest level of quality for users.

A GLOBAL REACH

Distributed across the five continents, Express products are available from importers, agents and distributors.

THE LOGISTICS CENTRE

Located on the same industrial site, the logistics centre has over 5,000 m² of storage space and 5 unloading bays to ensure rapid delivery worldwide.

THE CSR APPROACH

Reducing the tonnage of materials used to manufacture our products means savings of more than 2,000 tonnes a year.

The use of recyclable cardboard packaging instead of plastic blister packs is also a promise for the future. And our new head office, which meets RT 2020 standards, also highlights the progress we still need to make.





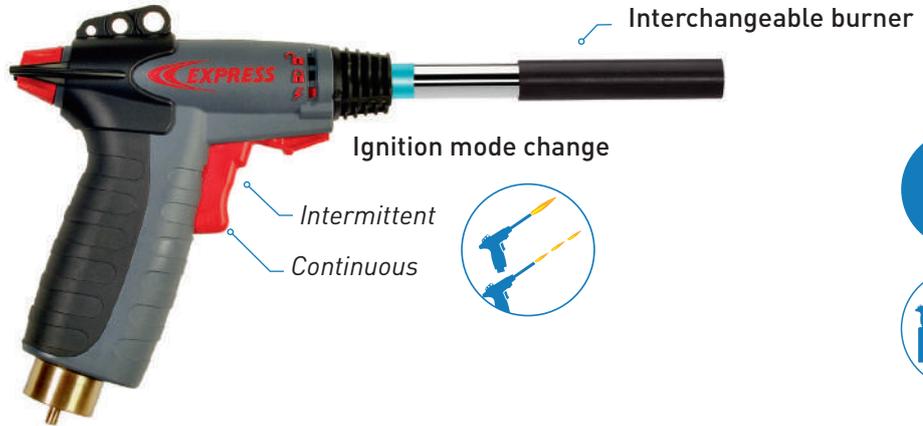
**AIR
CONDITIONING
PLUMBING
HEATING**

VULCANE EXPRESS TORCH

AIR-CONDITIONING TORCHES



APPLICATIONS
Brazing for air-conditioning



TECHNICAL INFO

Enveloping turbo flame

Cartridge operating time: 2 hr

Flame adjustment using the knob

Removable stabilizer stand



SELF-MAINTENANCE

No tools required to change the nozzle and trigger/piezo



USE

3 positions

Change burner

End of use (Safety: trigger locked for storage)

Ignition

Cat. No.		Solo 480	Multi 481	Nomad 486
 Cat. No. 4735	Torch with copper pipe brazing burner Cat. No. 4735	✓	✓	✓
 Cat. No. 4714	Copper pipe brazing burner Cat. No. 4714	-	✓	-
 Cat. No. 2400	Gas cartridge Cat. No. 2400	✓ x 1	✓ x 2	✓ x 1
 Cat. No. 4701	Spare piezo Cat. No. 4701	-	✓	✓
 Cat. No. 4770	1.50 m - 4.92 ft extension hose Cat. No. 4770	-	-	✓

Cat. No. 480



Cat. No. 481



Cat. No. 486



FIND OUT MORE

Gas cartridge p. 19

Thermal protection p. 26



SANITARY PLUMBING TORCHES



APPLICATIONS

Soldering and brazing for plumbing and heating, heat stripping, unjamming, burning, defrosting

Cat. No.		Solo 470	Multi 471	Nomad 476
	Torch with copper pipe brazing burner Cat. No. 4722	✓	✓	✓
	Copper pipe brazing burner Cat. No. 4714	-	✓	-
	Copper pipe brazing burner Cat. No. 4728	-	✓	-
	Gas cartridge Cat. No. 2400	✓ x 1	✓ x 2	✓ x 1
	Spare piezo Cat. No. 4701	-	✓	✓
	1 spare nozzle Cat. No. 47022	-	✓	-
	1.50 m - 4.92 ft extension hose Cat. No. 4770	-	-	✓

Cat. No. 470



Cat. No. 471



Cat. No. 476



BURNERS

	Cat. No.	Copper pipe Ø	g/hr - lb/hr	Power
	4735	Ø 35 mm - 1.38 in	407 g/hr - 0.90 lb/hr	5.5 kW at 1.4 bar 18767 BTU/hr at 20 psi
	4714	Ø 14 mm - 0.55 in	168 g/hr - 0.37 lb/hr	2.3 kW at 1.4 bar 7848 BTU/hr at 20 psi
	4722	Ø 22 mm - 0.87 in	214 g/hr - 0.47 lb/hr	2.9 kW at 1.4 bar 9895 BTU/hr at 20 psi
	4728	Ø 28 mm - 1.10 in	272 g/hr - 0.60 lb/hr	3.7 kW at 1.4 bar 12625 BTU/hr at 20 psi
	4750	Ø 50 mm - 1.97 in	204 g/hr - 0.45 lb/hr	2.7 kW at 1.4 bar 9213 BTU/hr at 20 psi

CARTRIDGE BLOWTORCHES



TECHNICAL INFO

Operating time:
2 hr

Cartridge with
removable valve,
with no loss of gas



APPLICATIONS

- Soldering
- Heat stripping
- Unjamming
- Burning
- Defrosting



BENEFITS

- Grip for improved handling
- Hanging ring
- Accurate gas flow control
- Adjustable stabilizer stand

Cat. No. 342

Lamp'Express « Classic Piezo »



APPLICATIONS

Soft soldering, hard soldering, unjamming rusted metal objects, lighting barbecues and fires



Cartridge
Cat. No. 555



Soldering copper pipes up to Ø 14 mm - 0.55 in

Cat. No. 343

Lamp'Express « Premium »



APPLICATIONS

Hard soldering, unjamming rusted metal objects, lighting barbecues and fires



Cartridge
Cat. No. 2015



Soldering copper pipes up to Ø 18 mm - 0.71 in

Cat. No. 351

Lamp'Express « Pro »



Cartridge
Cat. No. 2015



Soldering copper pipes up to Ø 22 mm - 0.87 in

Cat. No. 511

Lamp'Express « Classic »



APPLICATIONS

For routine work on copper pipes:
soft soldering, hard soldering, thawing frozen pipes, unjamming rusted metal objects, lighting barbecues and fires



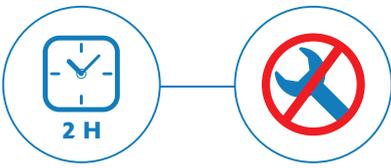
Cartridge
Cat. No. 555



INCLUDED :

Sharp-tip-flame burner
Cat. No. 3542
for soldering
Ø 14 mm - 0.55 in
copper pipes

Soldering copper pipes up to Ø 14 mm - 0.55 in



Cat. No. 525

Lamp'Express « For Plumbing »



APPLICATIONS

For routine work on copper pipes: hard soldering copper in less than a minute, high-temperature steel soldering, defrosting, unjamming rusted metal objects



Cartridge
Cat. No. 2015



INCLUDED :

- 1 sharp-tip-flame burner Cat. No. 3542 for soldering Ø 18 mm - 0.71 in copper pipes
- 1 Cercoflam burner with enveloping flame Cat. No. 3555 for soldering Ø 20 mm - 0.79 in copper pipes

Cat. No. 531

Lamp'Express « Multifonction »



APPLICATIONS

For routine work on copper pipes: hard soldering copper, defrosting, unjamming rusted metal objects, stripping paint on wood and metal, disinfection



Cartridge
Cat. No. 555



INCLUDED :

- 1 sharp-tip-flame burner Cat. No. 3542 for the soldering Ø 14 mm - 0.55 in copper pipes
- 1 Cercoflam enveloping-flame burner Cat. No. 3555 for soldering copper pipes Ø 16 mm - 0.63 in
- 1 flat-flame burner Cat. No. 3550

Cat. No. G460

1 fixed burner & neck tube set to braze copper tubes up to 22 mm / 0.86 in



Ignition mode change

Intermittent

Continuous

100% propylene gas



TECHNICAL INFO

204 g/h - 0.45 lb/h
2.7 kW at 1.4 bar
9200 BTU/h at 14 PSI
Ø 22 mm - 0.86 in
< 400 g - 0.88 lb

**VULCANE
EXPRESS
ONE**

SHARP-TIP FLAME

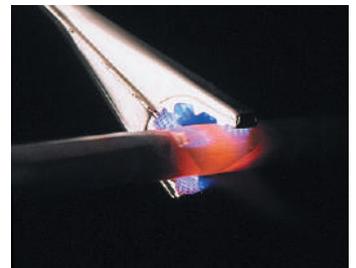
This is the most adjustable flame, in terms of both temperature and power. Very high temperature at the tip of the cone.

Temp. = 1850°C - 3362 °F



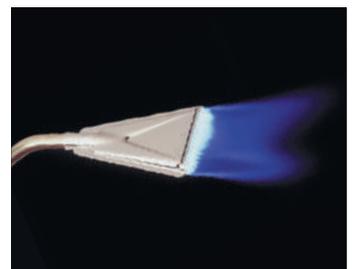
CERCOFLAM ENVELOPING FLAME

Exceptional output equivalent to 2400°C - 4352 °F. This is the best use of the heat produced. Enables the use of economical brazing alloys.



FLAT FLAME

To "sweep" the desired surface with a very low flow rate, for treatment, disinfection or stripping.



BLOWLAMPS



TECHNICAL INFO

110 g/h at 1.5 bar
0.24 g/h at 22 bar

1.60 kW - 5459 BTU/hr

Flame temperature
approximately
1850°C - 3362 °F

Soldering of copper
pipes Ø 14 mm -
0.55 in

Steel cartridge
casing

Brass burner

Gas opening
and flow rate
adjustment knob

Cartridge
protection plate



APPLICATIONS

For all routine
repair jobs
and sanitary
installations

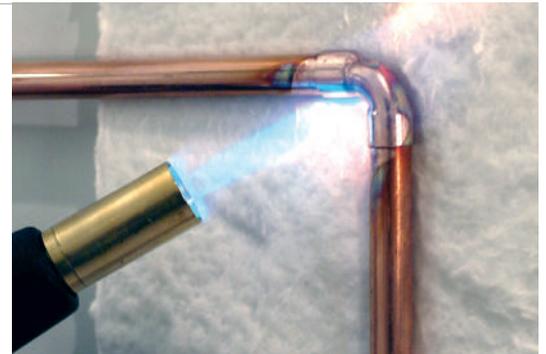


BENEFIT

Easy to handle /
Lightweight

Cat. No. 8700

Blowlamp «Classic»



SANITARY WORK

Cat. No. 8800

Blowlamp «Premium»



THAWING FROZEN PIPES

Cat. No. 8900

Blowlamp «Pro»



UNJAMMING RUSTED METAL OBJECTS

Cat. No. 8191



1¼ hr operating
time at full output



Cat. No. 8800

FLAMBÉING OF DESSERTS / LIGHTING FIRES



TORCHES AND PORTABLE HOT AIR GUN

STANDARD TORCHES



TECHNICAL INFO

1.50 m - 4.92 ft hose

Butane gas (without regulator)



APPLICATIONS

- DIY plumbing
- Heating
- Deburring
- Defrosting
- Heat stripping



TECHNICAL INFO

Propane gas



APPLICATIONS

- Tin soldering
- Brazing



TECHNICAL INFO

Operates up to -8°C / 17.6 °F

Adjustable temperature to suit distances:
190 - 900 °C
374 - 1652 °F



APPLICATIONS

- Shaping
- Welding
- Stripping
- Drying
- Defrosting

Cat. No. 5100

Sharp-tip-flame burner for soldering Ø 18 mm - 0.71 in copper pipes

Cat. No. 5200



Cat. No. 5300

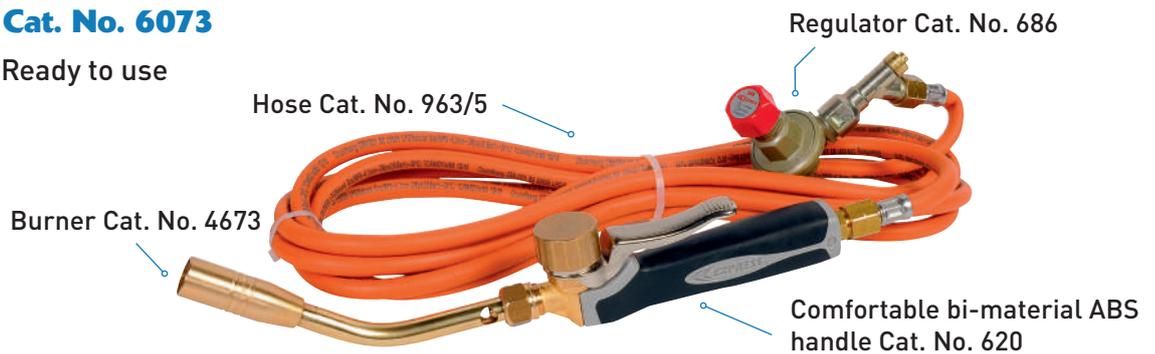


TECHNICAL INFO
1000 g/hr - 2.20 lb/hr
13.8 kW at 1.5 bar
47087 BTU/hr at 22 psi

TURBO BURNER TORCH

Cat. No. 6073

Ready to use



PORTABLE HOT AIR GUN

Cat. No. 4600

Portable gun



INCLUDED :

	Cartridge Cat. No. 445
	Deflector nozzle Cat. No. 11255
	Flat nozzle Cat. No. 11965
	Protective cover Cat. No. 39193

OXYACETYLENE RANGE



TECHNICAL INFO

Brazing of copper pipes:
 Ø 8 to 14 mm
 Ø 0.31 to 0.55 in

Welding steel:
 up to 3 mm - 0.118 in thick

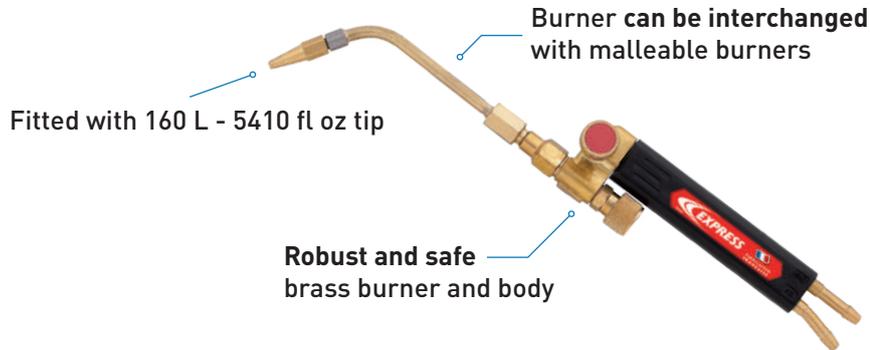
Weight:
 370 g - 0.81 lb

Temperature :
 3000 °C / 5432 °F

KORO TORCH

Cat. No. 290

NF EN ISO 5172



Cat. No. 2905

Koro welder's kit

Torch
 Cat. No. 290

Flashback arrestors for
 hoses Cat. No. 2921

Oxygen (Cat. No. 2930) and
 acetylene (Cat. No. 2931)
 regulators
 Compact size and rear
 regulator-cylinder attachment,
 to reduce knocks during use

Twin hoses
 ISO 3821-compliant,
 5 m - 16.4 ft



INCLUDED :

6-tip star: 63 L/2130 fl oz - 100 L/3381 fl oz - 160 L/5410 fl oz -
 200 L/6763 fl oz - 250 L/8453 fl oz - 315 L/10651 fl oz Cat. No. 2910

Safety goggles

Ignitor Cat. No. 5460



APPLICATIONS

- Plumbing
- Heating
- Air conditioning
- Bodywork
- Locksmithing
- Boilermaking



OXY-GAS SETS



APPLICATIONS

Cat. No. 2907:
Soldering copper
pipes up to
42 mm - 1.65 in

Welding steel up to
4 mm - 0.16 in thick

Cat. No. 2907

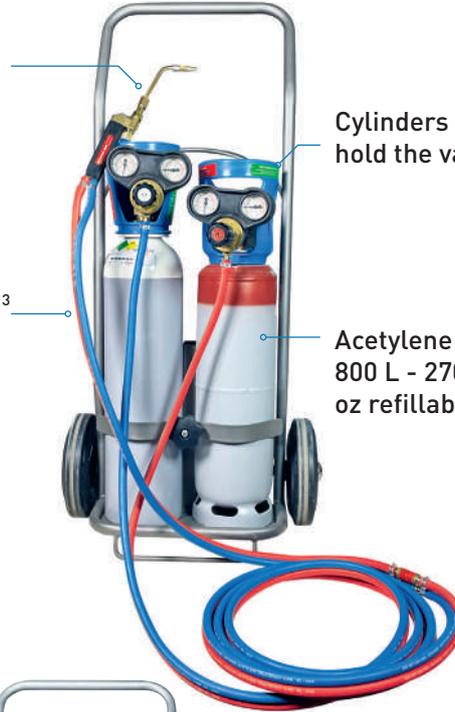
Koro set

Approximately 8 hr
continuous operation
with 100 L - 3381 fl
oz tip

Oxygen: 1 m³
refillable

Cylinders with a "tulip cap" to
hold the valves

Acetylene:
800 L - 27051 fl
oz refillable



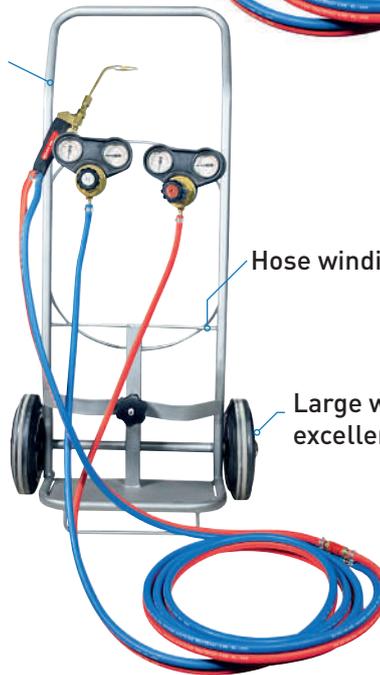
Cat. No. 2909

Practical and easy
to handle trolley

29.5 kg
65 lb

Hose winding system

Large wheels providing
excellent mobility



Cat. No.

Koro welder's kit
Cat. No. 2905

1 m³ oxygen (Cat. No. 523) and 800 L
acetylene (Cat. No. 524) cylinders

Trolley
Cat. No. 2950

2907



2909



-



OXYACETYLENE RANGE



TECHNICAL INFO

Temperature :
3000 °C / 5432 °F



TECHNICAL INFO

Cat. No. G2903 :
Sharp-tip flame
with pilot light.
Flame temp.:
2850°C - 5162 °F

Operating time:
Oxygen : 30 min
Gas : 10 hr

Weight : 3,9 kg -
8.6 lb



BENEFITS

Cat. No. G2903 :
Ideal for quick jobs
on work sites



APPLICATIONS

Cat. No. G2903 :
Welding up to 3 mm
- 0.12 in steel sheet
metal

Braze welding
4 mm - 0.16 in steel
sheet metal

Hard soldering
Ø 12 to 38 mm -
0.47 to 1.5 in copper
pipes

KORO TIPS



Cat. No.	2910	2911	2912	2913	2914	2915
	63 L / 2130 fl.oz - 100 L / 3381 fl.oz - 160 L / 5410 fl.oz	160 L 5410 fl.oz	200 L 6763 fl.oz	250 L 8453 fl.oz	315 L 10651 fl.oz	25 L 845 fl.oz
Tip flow rate	200 L / 6763 fl.oz - 250 L / 8453 fl.oz - 315 L / 10651 fl.oz					
Copper pipe Ø	up to 42 mm - 1.65 in	10 to 14 mm 0.39 to 0.55 in	14 to 18 mm 0.55 to 0.71 in	18 to 22 mm 0.71 to 0.87 in	22 to 42 mm 0.87 to 1.65 in	2 to 4 mm 0.08 to 0.16 in
Steel welding (thickness)	up to 4 mm up to 0.16 in	1 to 2 mm 0.04 to 0.08 in	2 to 2.5 mm 0.08 to 0.10 in	3 mm 0.118 in	3 to 4 mm 0.12 to 0.16 in	0.2 to 0.4 mm 0.008 to 0.016 in

Special lead

MALLEABLE BURNERS

Hard access



Cat. No.	2916	2917	2918	2919
Burner flow rate	160 L - 5410 fl.oz	200 L - 6763 fl.oz	250 L - 8453 fl.oz	315 L - 10651 fl.oz
Copper pipe Ø	10 to 14 mm 0.39 to 0.55 in	14 to 18 mm 0.55 to 0.71 in	18 to 22 mm 0.71 to 0.87 in	22 to 42 mm 0.87 to 1.65 in
Steel welding (thickness)	1 to 2 mm 0.04 to 0.08 in	2 to 2.5 mm 0.08 to 0.10 in	3 mm 0.118 in	3 to 4 mm 0.12 to 0.16 in

KORO ACCESSORIES



Cat. No.	2930	2931	2920	2924	2922	2921	2932
				NF EN 561	NF EN 561	NF EN 730-1	NF EN 730-1
	Oxygen regulator for Koro set	Acetylene regulator for Koro set	20 m - 66 ft coil of twin hose	Quick-release male couplings for O/A hoses + 2 ear clamps	Quick-release female couplings for O/A hoses + 2 ear clamps	Flashback arrester for O/A hoses + 4 ear clamps	Flashback arrester for O/A regulators + 4 ear clamps

OXY-GAS SET

Cat. No. G2903

Oxygen pressure regulator with integrated non-return valve

Oxygen cylinder (disposable)
110 L - 3872 fl.oz
Cat. No. 522

INCLUDED :
Pair of glasses



Cartridge
Cat. No. 555

2 x 1.50 m - 3.29 ft hoses



Gas valve with integrated non-return valve

0.9 nozzle, equivalent to 300 l/min with 4 bar/58 psi oxygen pressure reducer

Fine control valves

Blow-back protection inside the handle



HANDLES / SETS



TECHNICAL INFO

Double seal for the connection with burners: nitrile seal and metal-on-metal cone

Inlet with 3/8" left-hand thread

M18 x 1 male burner connection thread



MATERIALS

Plastic

Brass



BENEFIT

These handles feature a thumbwheel valve

Cat. No. 620

Gas-saving handle with trigger, comfortable bi-material ABS



Ergonomic handle

Swivel connector to avoid tangling the hose

Cat. No. 600



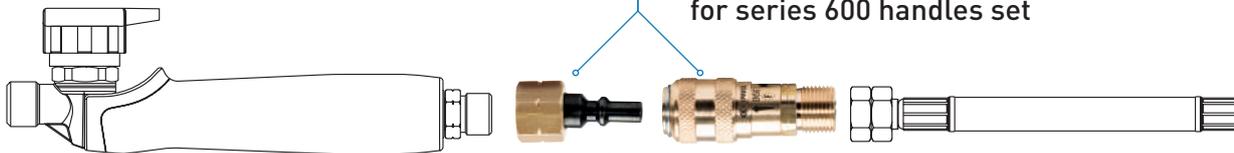
Cat. No. 602



Swivel connector to avoid tangling the hose

Cat. No. 911

Quick-release connector + nipple for series 600 handles set



Cat. No. 912
Nipple

click!

Cat. No. 6015



Cat. No. 6025



Cat. No. 6066



Ergonomic handle

Cat. No.	Handle Cat. No. 600	Handle Cat. No. 620	Handle Cat. No. 602	4.75 m - 13 ft hose Cat. No. 963/5	2 bar - 29 psi regulator Cat. No. 682	2 to 4 bar 29 to 58 psi regulator Cat. No. 686
6015	✓	-	-	✓	✓	-
6025	-	-	✓	✓	✓	-
6066	-	✓	-	✓	-	✓

BURNER & NECK TUBE SETS



TECHNICAL INFO

Flame temp. corresponding:
± 2 400 °C
± 4352 °F



APPLICATIONS

Hard soldering copper and brass pipes

CERCOFLAM BURNERS - ENVELOPING FLAME



Cat. No.	4655	4656
Internal Ø	24 mm 0.94 in	44 mm 1.73 in
g/hr at 3 bar lb/hr at 43 psi	383 0.84	588 1.30
kW at 3 bar BTU/h at 43 psi	5.29 18050	8.11 27672
Cu or steel pipe Ø	24 mm 0.94 in	44 mm 1.73 in



TECHNICAL INFO

Butane or propane gas

Total versatility with regulator
Cat. No. 686 or
Cat. No. 694



APPLICATIONS

Soft and hard soldering

PVC heating, shrinking and shaping



BENEFITS

Very fine adjustment

Temperature from 1200 to 1850°C
2192 to 3362 °F, according to adjustment of air inlet ring

BRAZING BURNERS - SHARP-TIP FLAME



Cat. No.	4641	4642	4643	4651
Internal Ø	11.5 mm 0.45 in	13 mm 0.51 in	17 mm 0.67 in	19 mm 0.75 in
g/hr at 3 bar lb/hr at 43 psi	31 0.07	170 0.37	383 0.84	588 1.30
kW at 3 bar BTU/h at 43 psi	0.4 1467	2.3 8019	5.3 18050	8.1 27672
Cu pipe Ø	6 mm 0.27 in	14 mm 0.55 in	23 mm 0.91 in	32 mm 1.26 in
Steel pipe Ø	6 mm 0.27 in	13 mm 0.51 in	17 mm 0.67 in	34 mm 1.34 in



TURBO BURNERS - TURBO FLAME



TECHNICAL INFO

Butane or propane gas

1.5 to 3 bar
21.8 to 43.5 psi



APPLICATIONS

Hard soldering
Specially designed for pipes



MATERIALS

Brass
Steel

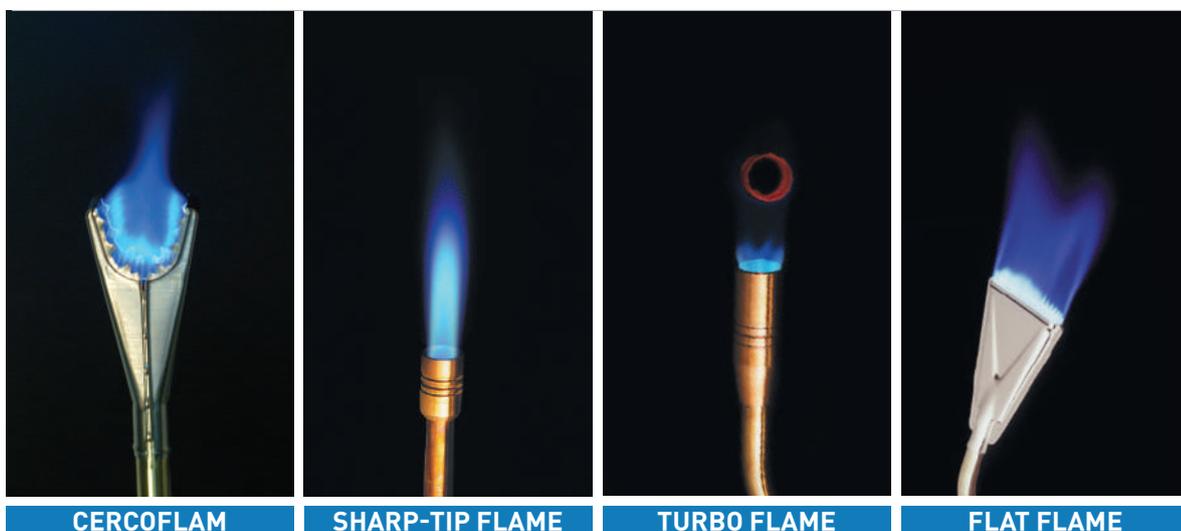


Cat. No.	4672	4673	4674
Internal Ø	14 mm 0.55 in	18 mm 0.71 in	24 mm 0.94 in
g/hr at 3 bar lb/hr at 43 psi	170 0.37	383 0.84	588 1.30
kW at 3 bar BTU/h at 43 psi	2.35 8019	5.29 18 050	8.11 27672
Cu pipe Ø	22 mm 0.87 in	28 mm 1.10 in	40 mm 1.57 in
Steel pipe Ø	28 mm 1.10 in	34 mm 1.34 in	40 mm 1.57 in

PAINT STRIPPER BURNER - FLAT FLAME



Cat. No.	4650
g/hr at 3 bar lb/hr at 43 psi	383 0.84
kW at 3 bar BTU/h at 43 psi	5.29 18 050



CERCOFLAM

SHARP-TIP FLAME

TURBO FLAME

FLAT FLAME

HOSES, REGULATORS AND ACCESSORIES



BENEFITS

Standard
NF EN ISO 3821

Safe handle-
regulator
connection thanks
to the 3/8" left-
hand-thread
crimped hose (for
Cat. No. 963/5,
963/10, 963/20S)



TECHNICAL INFO

Inlet:
wing nut Ø 21.8
x 1.814 left-hand
thread

Outlet:
3/8" left-hand
thread



BENEFIT

5-year guarantee

HOSES



APPLICATIONS
For propane and butane gas torches



Cat. No.	963/2	963/5	963/10	963/20	963/20S	963/20SP
int. Ø	6.3 mm 0.25 in	6.3 mm 0.25 in	6.3 mm 0.25 in	6.3 mm 0.25 in	6.3 mm 0.25 in	6.3 mm - 0.25 in
Length	1.50 m/4.9 ft	4.75 m/13 ft	10 m/33 ft	20 m/65.6 ft	20 m/65.6 ft	20 m/65.6 ft with spring reinforcement
Inlet / Outlet	3/8" left- hand-thread crimped female connectors	3/8" left- hand-thread crimped female connectors	3/8" left- hand-thread crimped female connectors	Bare	3/8" left-hand- thread crimped female connectors	3/8" left- hand-thread crimped female connectors

REGULATORS



Cat. No.	682	686	694
Fixed or variable	Fixed	Variable	Variable
Pressure	2 bar / 29 psi	2 - 4 bar / 29 - 58 psi	2 - 4 bar / 29 - 58 psi
Safety	-	Safety	Pressure gauge and safety system
Outlet	3/8" L	3/8" L	3/8"G

ACCESSORIES



Cat. No.	963C	5460	5498	963R
	Ear clamps for 6.3 mm - 0.25 in Ø hoses	Ignitor + 5 spare flints	Box of 5 spare flints	Kit of 2 connectors/ nipples for hose Ø 6.3 mm - 0.25 in + 2 ear clamps for 963/20
Cat. No.	18980	18987	963B	
	Direct pressure adapter tap for Twiny, Malice and Elfi with 20 mm - 0.79 in valve - French cylinder male outlet	Direct pressure Butagaz Cube cylinder connector with 27 mm - 1.06 in valve - French cylinder male outlet	Direct connector for butane cylinder, 3/8" left-hand thread male outlet	



GAS CARTRIDGES AND CYLINDERS

Cat. No. 2015

326 g - 0.72 lb propylene (36%) + butane + propane gas cartridge for Cat. No. 351, 343 and 525



European standard screw valve

Cat. No. 555

340 g - 0.745 lb butane + propane cartridge, for blowtorches Cat. No. 342, 511 and 531, and sets Cat. No. 2901 and 2902



Cat. No. 2400

XPRESS Gas 400 g - 0.88 lb 100% propylene for "Vulcane Express" torches



American standard screw valve

Cat. No. 522

Oxygen bottle 110 L - 3719 fl oz disposable



Cat. No. 8191

"Stop Gas System" secure cartridge version EN 417/2012, 190 g - 0.42 lb, type 200, butane for "Multifunction" blowlamps Cat. No. 8700, 8800, 8900



Cat. No. 668

Bottle-carrier trolley 13 kg - 28.66 lb



BENEFITS

Cat. No. 8191:
Can be used from 0°C - 32 °F

Operating time
1¼ hr at full output



TECHNICAL INFO

Cat. No. 7796:
Refillable using a standard 13 kg - 28.66 lb cylinder

Cylinder marking corresponds to the year of inspection

Compliant with European directive 84/527/CEE. EN 442

Cat. No. 7796

Propane storage:
1.6 kg - 3.53 lb
Empty:
4 kg - 8.82 lb



Gas tap with safety valve

Cat. No. 7795

Fixed refill connector



Cat. No. 7795S

Flexible refill connector



Cat. No. 18970

Double connection kit for propane cylinder



1 T-connection
+ 1 U-shaped high-pressure hose 0.35 mm - 0.014 in

ASSEMBLY COMBINATIONS

BURNER & NECK TUBE SETS

BRAZING BURNERS

Cat. No. 4641



Cat. No. 4642



Cat. No. 4643



Cat. No. 4651



TURBO BURNERS

Cat. No. 4672



Cat. No. 4673



Cat. No. 4674



CERCOFLAM BURNERS

Cat. No. 4655



Cat. No. 4656



PAINT STRIPPER BURNER

Cat. No. 4650



HANDLES

Cat. No. 602



Cat. No. 600



Cat. No. 620



CONNECTORS

Cat. No. 911

Quick-release coupling + nipple



Cat. No. 912

Nipple for quick-release coupling 911

HOSES

Cat. No. 963/20



Cat. No. 963R

Connection kit
(2 nipples + 2 nuts + 2 hose clamps
with 3/8" left-hand thread)



Cat. No. 963/20S



Cat. No. 963/20SP



NEW

Cat. No. 963/10



Cat. No. 963/5



REGULATORS

Cat. No. 694

2 at 4 bar - 29 at 58 psi
RECOMMENDED



Cat. No. 686

2 at 4 bar - 29 at 58 psi
RECOMMENDED



Cat. No. 682

2 bar - 29 psi



CONNECTORS

Cat. No. 963/B

2 bar - 29 psi



CYLINDERS

Cat. No. 18980

Twiny, Elfi
(PROPANE)



Cat. No. 18987

Cube
(PROPANE)



13 kg - 28.66 lb
propane
35 kg - 79.37 lb
propane



Refill connectors

Cat. No. 7795

Fixed



OR

Cat. No. 7795S

Flexible



Cat. No. 7796



13 kg - 28.66 lb
propane

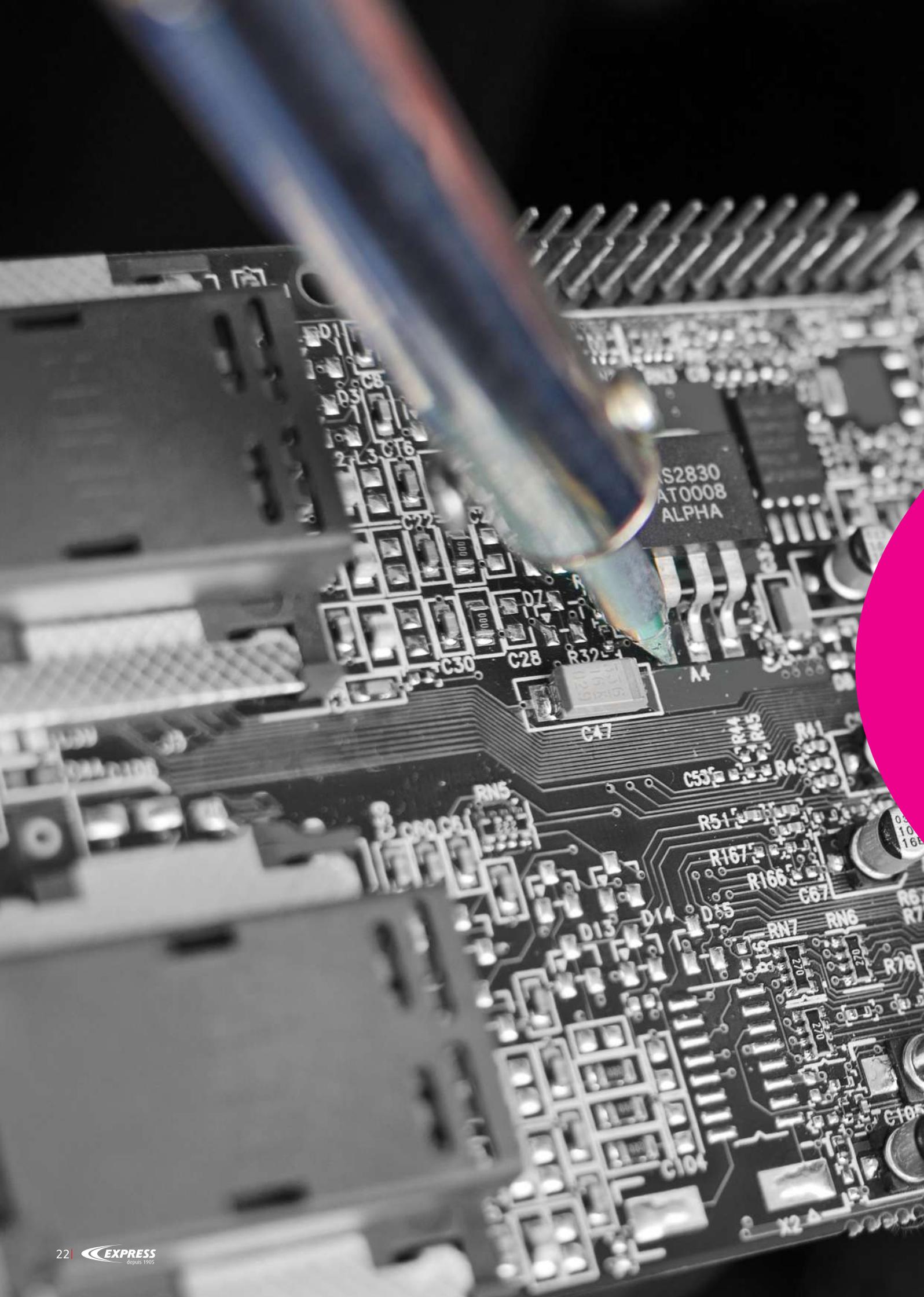
Cat. No. 668

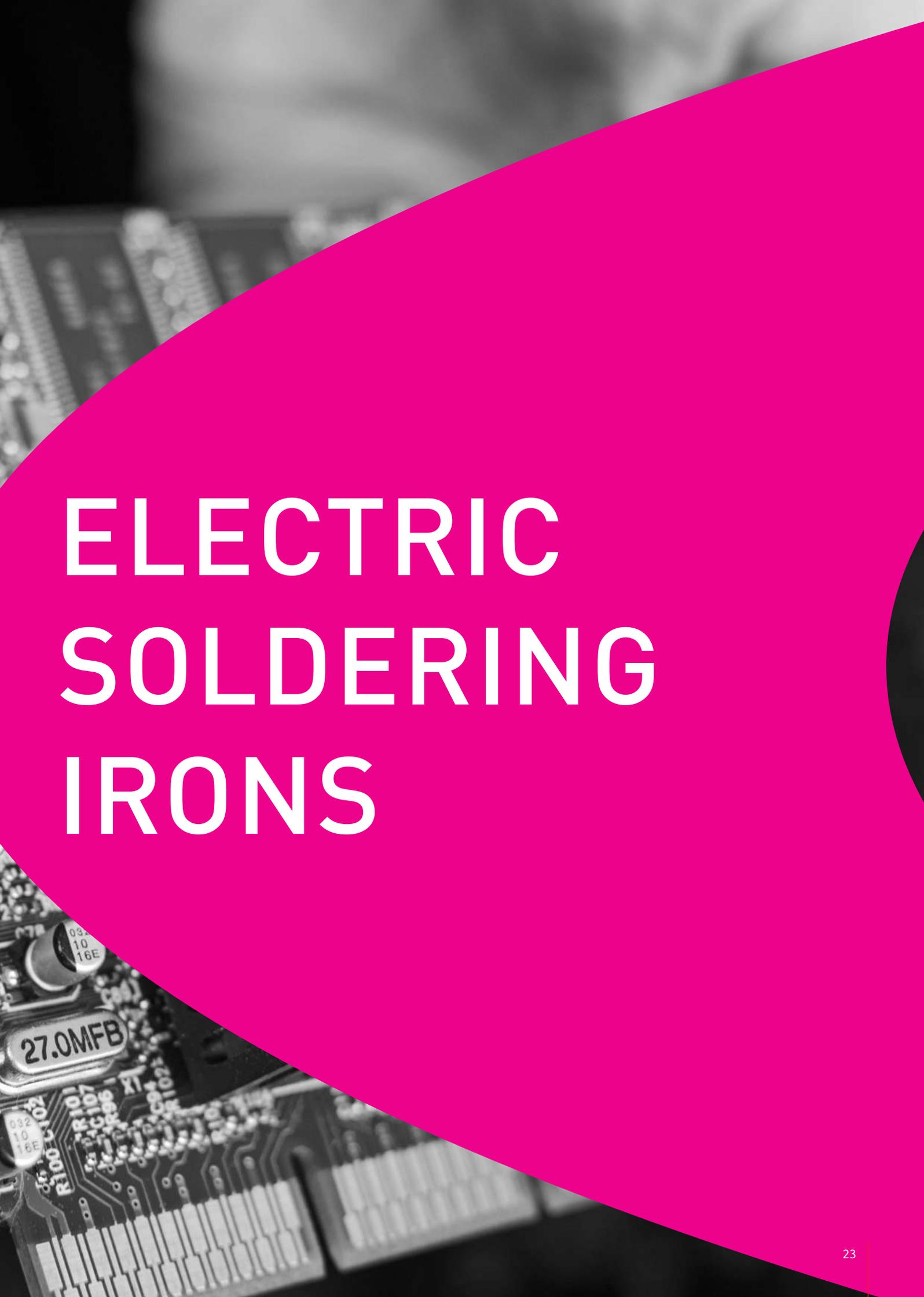


Bottle-carrier
trolley
13 kg - 28.66 lb

Hose internal Ø
6.3 mm - 0.25 in

Hose alone	20 m - 65.6 ft	Cat. No. 963/20
	5 m - 16.4 ft	Cat. No. 963/5
Fitted hose	10 m - 33 ft	Cat. No. 963/10
	20 m - 65.5 ft	Cat. No. 963/20S - 963/20SP
Connection parts	Cylinder connector	Cat. No. 963B
	Regulator connector (3/8" left-hand thread)	Cat. No. 963R (2 sides)
	Ear clamps	Cat. No. 963C (x10)





ELECTRIC SOLDERING IRONS

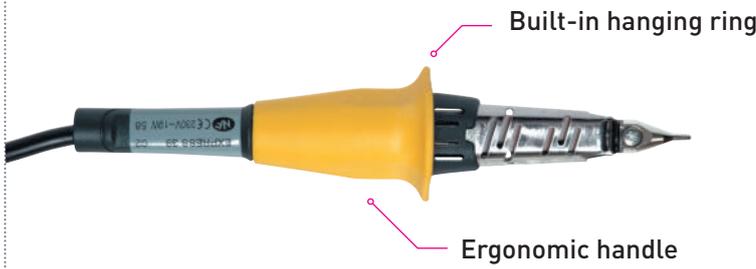
SOLDERING IRONS



BENEFITS

- Ideal for quick jobs
- Ready in 1 minute
- 2-year guarantee
- Ergonomic handle

TEMPO SOLDERING IRONS



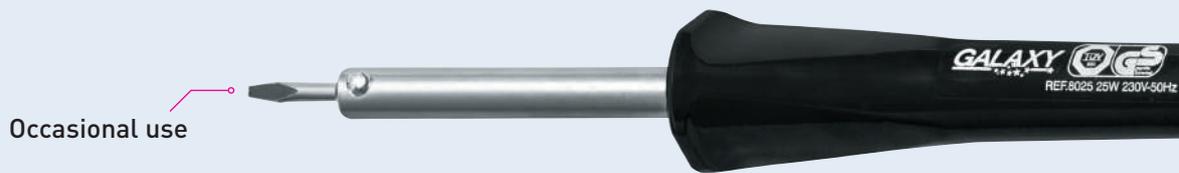
	Cat. No. 29	49	393	593
Heating power	25 W 85.3 BTU/h	45 W 153.5 BTU/h	35 W 119.4 BTU/h	55 W 187.7 BTU/h
Consumed power	19 W 64.8 BTU/h	23 W 78.5 BTU/h	19 W 64.8 BTU/h	23 W 78.5 BTU/h
Wire soldering	Ø 0.7 mm Ø 0.027 in	Ø 2 mm Ø 0.079 mm	Ø 0.7 to 1 mm Ø 0.027 to 0.039 in	Ø 1 to 2.8 mm Ø 0.039 to 0.11 in
End-of-tip dimension	Pointed tip Ø 1 mm - 0.039 in	Screwdriver tip 2.5 mm x 1 mm 0.098 in x 0.039 in	Pointed tip Ø 1 mm - 0.039 in + Round tip Ø 2 mm - 0.079 mm + Screwdriver tip 2.5 mm x 1 mm 0.098 in x 0.039 in	Round tip Ø 2 mm - 0.079 mm + Screwdriver tip 2.5 mm x 1 mm 0.098 in x 0.039 in + Screwdriver tip 4 mm x 1.5 mm 0.157 in x 0.059 in



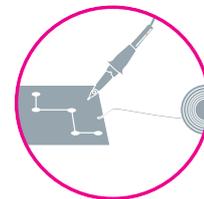
BENEFITS

- Stand included

GALAXY SOLDERING IRONS RANGE



	Cat. No. 8025	8060	8100
Heating power	25 W 85.3 BTU/h	60 W 204.7 BTU/h	100 W 341.2 BTU/h
Wire soldering	Ø 0.5 mm - 0.019 in	Ø 1 mm - 0.039 in	Ø 1.5 mm - 0.059 in



HIGH THERMAL OUTPUT SOLDERING IRONS

i TECHNICAL INFO
Intensive use, stand included, designed to standard NF EN 60335-2-45



Cat. No.	109	159	209	309	409
Heating power	100 W 341.2 BTU/h	150 W 511.8 BTU/h	200 W 682.4 BTU/h	300 W 1023.6 BTU/h	400 W 1364.9 BTU/h
Consumed power	75 W 255.9 BTU/h	100 W 341.2 BTU/h	125 W 426.5 BTU/h	200 W 682.4 BTU/h	250 W 853 BTU/h
	Wire Ø 7 mm Ø 0.27 in	Wire Ø 9 mm Ø 0.35 in	Wire Ø 12 mm Ø 0.47 in	Wire Ø 13 mm Ø 0.51 in	Wire Ø 15 mm Ø 0.59 in
Soldering	Sheet metal, thickness 0.7 mm - 0.027 in	Sheet metal, thickness 1.2 mm - 0.047 in	Sheet metal thickness 1.5 mm - 0.059 in	Sheet metal thickness 2.2 mm - 0.087 in	Sheet metal thickness 3 mm - 0.118 in
End-of-tip dimension	2 x 16 mm 0.079 x 0.63 in	3 x 26 mm 0.12 x 1.02 in	3 x 26 mm 0.12 x 1.02 in	3.5 x 35 mm 0.12 x 1.38 in	3 x 40 mm 0.12 x 1.57 in

Cat. No. 8110

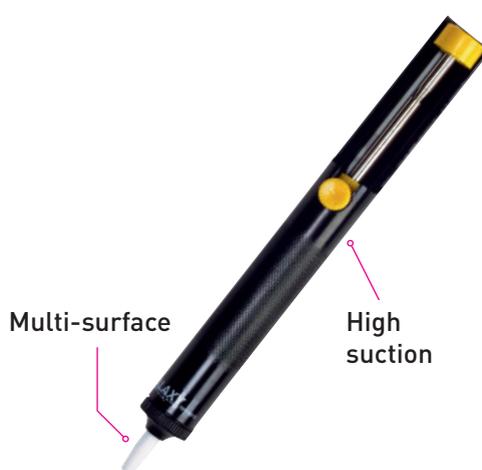
Instant soldering iron

i TECHNICAL INFO
Power:
100 W - 341.2 BTU/h
Wire soldering:
Ø 1.5 mm - 0.059 in



Cat. No. 8010

Desoldering pump



THERMAL PROTECTION



APPLICATIONS

Soldering

Brazing

Cat. No. 5450

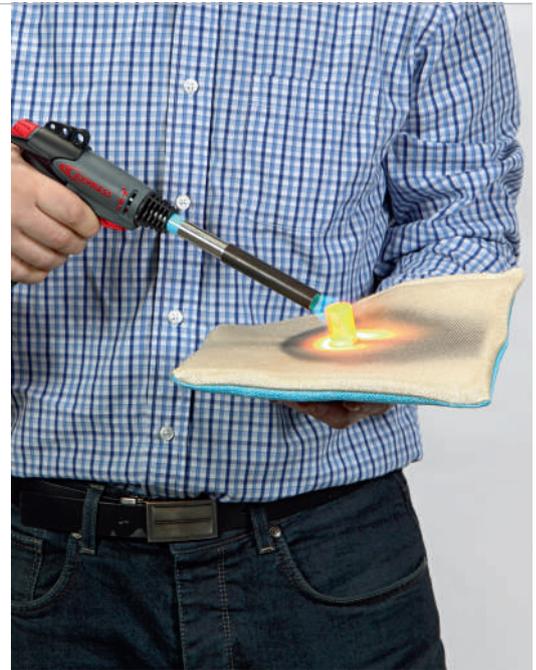
STOP'FLAM

TECHNICAL INFO
 Thickness: 13 mm - 0.51 in
 Format: 20 x 25 cm - 7.87 x 9.84 in
 Cover made of pure woven silica



Very high level of protection and very long-wearing

Very flexible, stands up to repeated folding and high level of user comfort



Cat. No. 5451

PROTECT'FLAM

TECHNICAL INFO
 Thickness: 10 mm - 0.39 in
 Format: A4
 Fleece-lined silica fibres



High level of protection and long-wearing

Adapts to all situations, without flaking

Cat. No. 5453

PARE'FLAM
 Pack of 3

TECHNICAL INFO
 Thickness: 10 mm - 0.39 in
 Format: 20 x 25 cm - 7.87 x 9.84 in



Cat. No. 5457

Roll of flame shield blanket

TECHNICAL INFO
 Dimensions: 1.12 m x 0.50 m - 3.67 ft x 1.64 ft



Cat. No. 5459

PARE'FLAM
 Pack of 1

TECHNICAL INFO
 Thickness: 10 mm - 0.39 in
 Format: 20 x 25 cm - 7.87 x 9.84 in



DESOLDERING BRAIDS, FLUXES, SALMIAK STONE



DESOLDERING BRAIDS

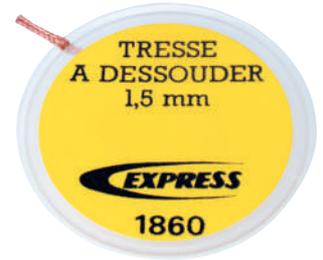
Cat. No. 1850

For radio-engineering
Width:
3 mm - 0.118 in



Cat. No. 1860

For electronics
Width:
1.5 mm - 0.059 in



TINNING PASTE

Cat. No. 852

Tinning paste



2-in-1 paste: cleans and tins High Thermal Output electric soldering iron tips

No toxic fumes



SOLDERING FLUID AND FLUXES STRIPPER

ON QUOTATION ONLY

NEW



Cat. No.	1840	GE6GFA-50	GE6GFA-200	GE6PFA-200
Product	Soldering fluid	Paste fluxes stripper 100D	Paste fluxes stripper 100D	Powder fluxes stripper
Bottle	30 ml - 1.01 fl oz	52 g - 0.11 lb	200 g - 0.44 lb	200 g - 0.44 lb
Application	For tin soldering of steel, with a flame torch, and sheets of metal (zinc, copper, sheet metal) with a soldering iron	For brazing Gas-certified assembly: Brass/copper & copper alloys Non-gas certified assembly: Steel/stainless steel/nickel & nickel alloys		For brazing Copper & copper alloys/brass/stainless steel/nickel & nickel alloys

SOLDERING / BRAZING ALLOYS **ON QUOTATION ONLY**

NEW

SOLDERS WITH INTEGRATED FLUX

HARD SOLDERING

EXCLUSIVE EXPRESS



Fluidity level



Basic



Standard



Good



High



Very high



SOLDERS WITH INTEGRATED FLUX
Exclusive Express



BENEFITS

Cadmium-free



COATED SOLDERS



BENEFITS

Cadmium-free



Cat. No. GE334TE

34 % SILVER
Fluxes stripper : Integrated
Packaging : 3 solders



BENEFITS

Recommended for brazing with large clearances, good wettability

Working T° 710 °C / 1310° F	Melting interval 630 - 730 °C / 1166 - 1346 °F	Mechanical resistance 50 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE356TE

56 % SILVER
Fluxes stripper : Integrated
Packaging : 3 solders



BENEFITS

Recommended for difficult and detailed soldering that may require a low melting point, good mechanical strength

Working T° 650 °C / 1202° F	Melting interval 620 - 655 °C / 1148 - 1211 °F	Mechanical resistance 47 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE7AL2

ALUMINIUM
Fluxes stripper : Integrated
Packaging : 1 kg / 2.20 lb



BENEFITS

Great ease of application, no overheating of parts: low melting point, no post-brazing cleaning

Working T° 420 °C - 788 °F	Melting interval 385 - 420 °C / 725 - 788 °F	Mechanical resistance 10,4 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity --

COATED SOLDERS

HARD SOLDERING



Cat. No. GE334EE

34 % SILVER
Fluxes stripper : Coating (blue)
Packaging : 3 solders



BENEFITS

Recommended for delicate brazing of homogeneous or heterogeneous assemblies, good flux distribution, easy and quick application

Working T° 710 °C / 1310° F	Melting interval 630 - 730 °C / 1166 - 1346 °F	Mechanical resistance 50 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE340EE

40 % SILVER
Fluxes stripper : Coating (white)
Packaging : 3 solders



BENEFITS

Recommended for delicate brazing of homogeneous or heterogeneous assemblies, reduction of heat input, excellent wettability

Working T° 690 °C / 1274 °F	Melting interval 650 - 710 °C / 1202- 1310 °F	Mechanical resistance 50 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE356EE

56 % SILVER
Fluxes stripper : Coating (pink)
Packaging : 3 solders



BENEFITS

Good wettability, good mechanical resistance

Working T° 650 °C / 1202° F	Melting interval 620 - 655 °C / 1148 - 1211 °F	Mechanical resistance 47 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

ON QUOTATION ONLY



GAS-CERTIFIED

HARD SOLDERING



Cat. No. GE206GC

6 % SILVER
Fluxes stripper : GE6GFA-50 or GE6GFA-200
Packaging : 500 g / 1.10 lb



BENEFITS
Good capillarity, cadmium-free

Working T° 690 °C / 1274 °F	Melting interval 645 - 725 °C / 1193 - 1337 °F	Mechanical resistance 45 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE206GB & GE206GE

6 % SILVER
Fluxes stripper : GE6GFA-50 or GE6GFA-200
Packaging : GE206GB : 1 kg / 2.20 lb - GE206GE : 5 solders



BENEFITS
Good capillarity, cadmium-free

Working T° 690 °C / 1274 °F	Melting interval 645 - 725 °C / 1193 - 1337 °F	Mechanical resistance 45 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE334GE

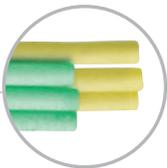
34 % SILVER
Fluxes stripper : GE6GFA-50 or GE6GFA-200
Packaging : 3 solders



BENEFITS
Good wettability, cadmium-free, recommended for delicate soldering of assemblies with low to medium clearances

Working T° 690 °C / 1274 °F	Melting interval 630 - 730 °C / 1166 - 1346 °F	Mechanical resistance 50 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

WELDING & AUTOGENEOUS WELDING



WELDING-BRAZING



Cat. No. GE4CEB3 & GE4CEZ3

BRASS
Fluxes stripper : Coating (green)
Packaging : GE4CEB3 : 1 kg / 2.20 lb - GE4CEZ3 : 5 solders



BENEFITS
High mechanical resistance, ease of application, material savings

Working T° 900 °C / 1652 °F	Melting interval 870 - 900 °C / 1598 - 1652 °F	Mechanical resistance 50 daN/mm ²
ø 3 mm - 0.12 in	L 500 mm - 19.7 in	Fluidity --

Cat. No. GE41CEB3

BRASS- 1% SILVER
Fluxes stripper : Coating (yellow)
Packaging : 1 kg / 2.20 lb



BENEFITS
Good capillarity for carrying out delicate work, high mechanical resistance

Working T° 890 °C / 1634 °F	Melting interval 850 - 870 °C / 1562 - 1598 °F	Mechanical resistance 48 daN/mm ²
ø 3 mm - 0.12 in	L 500 mm - 19.7 in	Fluidity --

Cat. No. GE7AL2

COPPER-PLATED STEEL
Fluxes stripper : Bare
Packaging : 5 kg / 11 lb



BENEFITS
Edge to edge assembly, can be used without stripper

Working T° >1400 °C / 2552 °F	Melting interval --	Mechanical resistance 42 daN/mm ²
ø 3 mm - 0.12 in	L 1000 mm - 39.4 in	Fluidity --

SOLDERING / BRAZING ALLOYS

ON QUOTATION ONLY

NEW

CLASSIC SOLDERS

HARD SOLDERING



CLASSIC SOLDERS



BENEFITS

Cadmium-free



Cat. No. GE163B
6,3 % PHOSPHORE
 Fluxes stripper : GE6GFA - GE6PFA
 Packaging : 1 kg / 2.20 lb



BENEFITS
 Ideal for soldering taps with significant clearances (1 to 2 mm / 0.04 to 0.08 in)

Special stitching

Working T° 760 °C / 1400 °F	Melting interval 710 - 845 °C / 1310 - 1553 °F	Mechanical resistance 55 daN/mm ²
Square □2 x 2 mm	L 500 mm - 19.7 in	Fluidity

Cat. No. GE168B
6,8 % PHOSPHORE
 Fluxes stripper : GE6GFA - GE6PFA
 Packaging : 1 kg / 2.20 lb



BENEFITS
 Assembly soldering of standard sets (0,05 to 0,1 mm / 0,002 to 0,004 in)

Working T° 730 °C / 1346 °F	Melting interval 710 - 815 °C / 1310 - 1499 °F	Mechanical resistance 45 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE170A & GE170B
7 % PHOSPHORE
 Fluxes stripper : GE6GFA - GE6PFA
 Packaging : GE170A : 5 kg / 11 lb - GE170B : 1 kg / 2.20 lb



BENEFITS
 Assembly soldering of standard sets (0,05 to 0,1 mm / 0,002 to 0,004 in)

Working T° 730 °C / 1346 °F	Melting interval 710 - 805 °C / 1310 - 1481 °F	Mechanical resistance 45 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE180B
8 % PHOSPHORE
 Fluxes stripper : GE6GFA - GE6PFA
 Packaging : 1 kg / 2.20 lb



BENEFITS
 Delicate soldering of assembly with low clearances (<0.05 mm / 0,002 in)

Working T° 720 °C / 1328 °F	Melting interval 710 - 750 °C / 1310 - 1382 °F	Mechanical resistance 45 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE202B, GE202C & GE202E
2 % SILVER
 Fluxes stripper : GE6GFA
 Packaging : GE202B : 1 kg / 2.20 lb - GE202C : 0.5 kg / 1.10 lb - GE202E : 5 solders



BENEFITS
 Corrosion resistance

Working T° 740 °C / 1364 °F	Melting interval 645 - 825 °C / 1193 - 1517 °F	Mechanical resistance 55 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE205C & GE205E
5 % SILVER
 Fluxes stripper : GE6GFA - GE6PFA
 Packaging : GE205C : 0.5 kg / 1.10 lb - GE205E : 5 solders



BENEFITS
 Recommended for difficult brazing of copper tubes in installations subject to vibration

Working T° 710 °C / 1310 °F	Melting interval 645 - 813 °C / 1193 - 1495.4 °F	Mechanical resistance 60 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

Cat. No. GE215D & GE215E
15 % SILVER
 Fluxes stripper : GE6GFA
 Packaging : GE215D : 0.25 kg / 0.55 lb - GE215E : 5 solders



BENEFITS
 Very good electrical conductivity

Working T° 700 °C / 1292 °F	Melting interval 645 - 800 °C / 1193 - 1472 °F	Mechanical resistance 53 daN/mm ²
ø 2 mm - 0.08 in	L 500 mm - 19.7 in	Fluidity

FIND OUT MORE

Thermal protection p. 26

Fluxes stripper p. 27



LEAD-FREE TIN SOLDER

TIN SOLDER FOR ELECTRICAL AND ELECTRONIC COMPONENTS



TECHNICAL INFO

99.3% Tin
0.7% Copper

Integrated flux

Joining of copper, tinned copper and nickel-gold
Ø 1 mm - 0.039 in

Cat. No. 11964
40 g - 0.088 lb



Cat. No. 11961
80 g - 0.176 lb



Cat. No. 12960
200 g - 0.44 lb



TIN SOLDER FOR WATER PIPES



TECHNICAL INFO

97% Tin
3% Copper

Integrated flux

Joining of copper and brass
Ø 2 mm - 0.078 in

Cat. No. 11894
40 g - 0.088 lb



Cat. No. 11898
80 g - 0.176 lb



Cat. No. 5880
Without integrated flux
500 g - 1.10 lb

Cat. No. 12890
200 g - 0.44 lb



Cat. No. 5890
500 g - 1.10 lb



MULTIPURPOSE TIN SOLDER



TECHNICAL INFO

96.5% Tin
3.5% Silver

Integrated flux

Joining of copper, brass, bronze, steel, zinc and stainless steel
Ø 2 mm - 0.078 in

Cat. No. 11945
40 g - 0.088 lb



Cat. No. 11941
80 g - 0.176 lb



Cat. No. 12940
200 g - 0.44 lb



Cat. No. 5940
500 g - 1.10 lb



SOLDERING

There are a number of techniques that can be used to join metal parts.

The soldering of metals is a joining process that creates a metal bond between the parts. Unlike welding, there is no fusion of the joined edges.

In order to perform soldering, a strong heat is applied to the base metals. The filler metal is then placed in contact with the heated parts. It is instantly melted by the heat of the base metals and is then completely drawn

into the joint by capillary action.

Soldering is known as 'soft soldering' or 'tin soldering' when the melting temperature of the filler metal (usually tin wire) is below 450°C - 842°F.

'Hard soldering' is done using sticks of copper/phosphorus, with or without silver. It requires higher temperatures than soft soldering, between 600°C - 1112°F and 850°C - 1562°F.

Braze welding is a process used to join two metal parts, of the same or of a different nature. It is performed using a brass-based filler metal, which has a melting point that is lower (850 to 920°C - 1562 to 1688°F) than that of the two parts to be joined. This involves no capillary action, as in soldering, and no melting of the base metal.

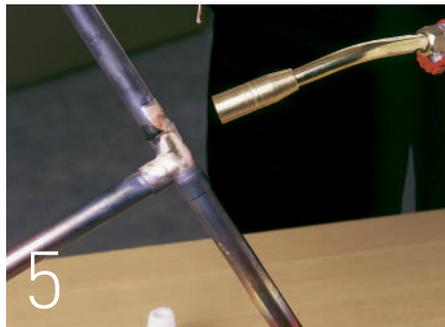
The filler metal attaches firmly to the base metals through diffusion or infiltration into the upper layers of the metal to be joined.

AUTOGENOUS WELDING

Autogenous welding is a process used to join two parts of the same nature (steel or iron) by melting them at a very high temperature (> 1400°C - 2552°F) so that they fuse together. It is used for very many applications, ranging from central heating systems to ironwork, metalwork and even certain types of furniture production. With practice, it is possible to produce a quality weld that is smooth, straight and even. There will, however, often be slight excess thickness at the point where the parts meet.

HOW TO PERFORM AUTOGENOUS WELDING

1. Firmly attach the parts to be welded in order to ensure their stability during the process.
2. Clean them carefully before heating them to the required temperature.
3. As soon as the parts begin to melt, they will join together. However, because dripping at the point where they meet can weaken the joint, it is advisable to use some filler metal to strengthen it. This filler metal must be of the same nature as the parts to be joined or very similar. This is why it is known as 'autogenous' welding.



SOLDERING TIPS

1. Choose the appropriate soldering tool, filler metal and flux for the type of joining to be performed.
2. Cut the pipe and deburr it, in order to remove any remaining imperfections that prevent diffusion of the filler metal. Use a deburring pen to smooth the inside of the tube.
Clean the parts to be joined using an emery cloth, in order to remove any oxidation, until the pipe shines.
The filler metal will be able to form an even layer, which will avoid leaks. The aim is to allow the filler metal to spread by capillary action.
3. Apply flux (or flux gel) on the parts to be joined, in order to protect them from oxidation.
4. Place the ends of the parts to be joined as close together as possible.
5. Heat the parts to be joined (not the filler metal) with the tool.
6. Remove the soldering tool. Apply the filler metal to the joint, where it will melt in contact with the heated parts to be joined

PERFORMING SOFT SOLDERING

Go round with the tin wire one or several times, according to the size of the joint. It will spread over the heated parts by capillary action. Once it has cooled down, either naturally or by dipping the joint in water, the work is complete.

PERFORMING HARD SOLDERING

Spread the flux directly on the stick of solder. Place a drop of the filler metal where the parts to be joined meet. When it liquefies and spreads, this means that the parts have reached the correct temperature. Apply the stick of solder around the joint and then reheat it to make sure that an even material is formed.

7. Before moving the parts, wait for the filler metal to solidify and the parts to cool down.
8. Clean the joined parts with a damp cloth in order to remove any remaining flux.

COMPATIBILITY BY TYPE OF BASE METAL

Base metals	STEEL	ALUMINIUM	COPPER	FONTTE	INOX	BRASS	GALVANIZED STEEL	NICKEL
GE4CEB3 (E: green)	GE7AL2 (F)	GE168B GE170B - GE170A GE180B	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE340EE (E: white) GE340EE (E: white)	GE340EE (E: blue) GE334TE (F) GE340EE (E: white)	GE4CEB3 (E: green)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)
GE4CEB3 (E: green)	GE7AL2 (F)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)	GE340EE (E: blue) GE334TE (F) GE340EE (E: white)	GE4CEB3 (E: green)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)			
GE4CEB3 (E: green)	GE7AL2 (F)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)	GE340EE (E: blue) GE334TE (F) GE340EE (E: white)	GE4CEB3 (E: green)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)
GE4CEB3 (E: green)	GE7AL2 (F)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)	GE340EE (E: blue) GE334TE (F) GE340EE (E: white)	GE4CEB3 (E: green)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)
GE4CEB3 (E: green)	GE7AL2 (F)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE4CEB3 (E: green) GE340EE (E: white)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)	GE340EE (E: blue) GE334TE (F) GE340EE (E: white)	GE4CEB3 (E: green)	GE340EE (E: white) GE356EE (E: pink) GE356TE (F)

Captions

GE 1 68
 Range code % of component

GE 7 AL
 Range code Component

E = coated solder (colors)
 F = solder with integrated flux

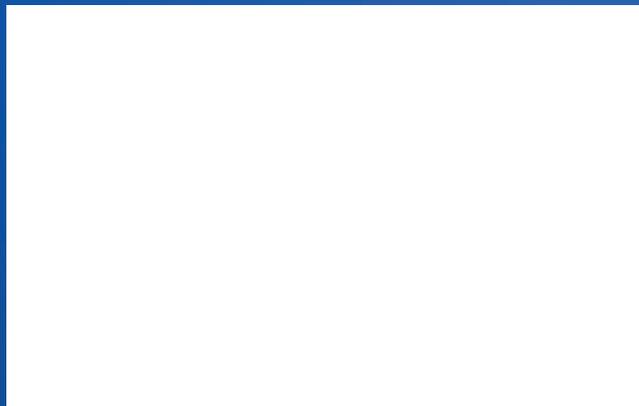


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