

French manufacturer
since 1964

www.gys.fr



POWERDUCTION

Induction-Heating Systems

INDUCTION

Safe heating process

Induction heating is a particularly efficient process for heating a metal's core in only a fraction of a second. Ideal for mechanical engineering, car bodywork or general maintenance work; this method of instantly and precisely transferring heat only works on ferrous materials and has no effect on rubber or plastics. This heating process is completely localised and is considerably safer for the workplace since there is no gas or flames involved.

Releasing, unseizing or removing stuck parts could not be easier. GYS' POWERDUCTION range is based on this very principal and consists of eight products with different power levels depending on the task at hand.



MECHANICS AND MAINTENANCE

- releasing or disassembling:
 - steering rods
 - steering ball joint
 - brake discs
 - brake hoses
 - exhaust manifold flanges
 - exhaust pipes
 - shock absorber nuts
 - thread-locked screws
- heating longerons (except HLE steels)
- releasing bolts



CAR-BODY REPAIR

- removing steel or aluminium parts
- straightening bent chassis (except HLE steel)



INDUSTRY

- annealing metal parts
- heating to bend
- brazing
- pre-heating



Precise

Only the area near the inductor is heated. Targeting a localised area becomes very simple.



Instantaneous

This heat is diffused from the metal's core in only a few seconds. The action happens very quickly.



Secure

This flameless machine allows users to work near heat-sensitive or flammable areas without causing damage. This process is a much safer alternative to the traditional induction-heating torch.





POWERDUCTION RANGE

EIGHT LEADING INDUCTION-HEATING MACHINES

Designed and manufactured entirely in France, the POWERDUCTION range includes eight separate products, each designed to carry out multiple tasks. The POWERDUCTION 10R, 37LG, 39LG, 50LG, COMBI 50LG, 110LG, 160LG and 220LG offer distinctly different levels of performance and ergonomics and are ideal for automotive work, HGVs, construction work, car bodywork, general maintenance and industrial workshops. This range of induction-heating machines is designed to solve technical issues faced by professionals and allow them to perform more complex repairs.



POWERDUCTION 37LG, THE PERFECT COMBINATION OF POWER AND MOBILITY

Its uses:

- General repairs
- Maintenance work
- Automotive workshops
- Car-body repair

Its advantages:

- Compact and portable (15 kg)
- Power: **3,700 W that can be set in increments of 250 W**
- Duty cycle at max. power : 7 min
- Delivered with an S90 inductor (ref. 058927)
- **Liquid-cooled** power source (1.5 L)



Optional Extras
UNIVERSAL 800 trolley
051331

Weighing in at only 15 kg and powered by single-phase, 230 V power supply, the POWERDUCTION 37LG represents the perfect blend of power and portability. With 3,700 W of power, it is highly recommended for use in general repairs as well as automotive and maintenance workshops.

POWERDUCTION 10R, THE MULTI-APPLICATION SPIRAL INDUCTOR

Its uses:

- Automotive workshops
- Maintenance work
- Locksmithing
- Steel construction

Its advantages:

- Compact and very **lightweight (3.5 kg)**
- Easy to transport, it can be carried over the shoulder
- Plugs into any **single-phase** socket
- Quick start: quick to plug in and use
- **1,200 W** of power
- Delivered in its own carry case and supplied with five different inductors, spiral inductors, braided and flexible wires.



Optional Extras
Sticker-removal inductor
066601

An induction-heating appliance equipped with a spiral inductor; the POWERDUCTION 10R is the ideal decoupling tool. With 1,200 W of power it is still both compact and lightweight (3.5 kg) and it comes with a practical strap so that it can be carried over the shoulder. Easy and quick to start up on a single-phase socket, this power source is the perfect tool for all on-site operations.

	Spiral Ø 18 mm 054806		Spiral Ø 24 mm 054790		Spiral Ø 30 mm 055469
	Spoolable braided wire 80 cm 054813		Straight wire for coiled inductor 80 cm 054868		



POWDERDUCTION 39LG, THE PERFECT COMPANION FOR CAR WORKSHOPS

Its uses:

-  Automotive workshops
-  Truck workshops
-  Maintenance work
-  Car-body repair

Its advantages:

- Compact and easy to **move around the workshop**
- Power: 3,700 W that can be set in increments of 250 W
- Duty cycle at max. power : 15 min
- Power supply equipped with **PROTEC 400** and **PFC technology**
- Inductor cable: 3 m (and the length of the machine's arm)
- Delivered with complete C20/B1 inductor (ref. 056862)
- Maximum power on a **230 V socket with 16 A fuse**
- Liquid-cooled power source (7 L)

It also boasts 3,700 W of power alongside a 7-litre coolant tank. Thanks to this feature, it can be used at full power for 15 minutes without stopping. To make it easier to move around the workshop, the POWDERDUCTION 39LG is mounted on castor wheels and has an built-in bracket to support its 3 m arm.



POWDERDUCTION 50LG, QUIET POWER

Its uses:

-  Automotive workshops
-  Truck workshops
-  Agricultural & construction workshops
-  Maintenance work

Its advantages:

- Power: **5,200 W of continuous** power (5,200 W at 100%)
- **Single-phase power** supply with **PROTEC 400** and **PFC technology**
- Power cable: 8 m
- Inductor cable: 3 m (and the length of the machine's arm)
- Delivered with complete C20/B1 inductor (ref. 056862)
- Power lead for **use with a 16 A plug**
- Liquid-cooled power source (7 L)

Capable of continuous, full power heating, the POWDERDUCTION 50LG is the most efficient in the single-phase range. Ideal for heavy-duty applications, this device's high power levels also make it well suited for straightening metal structures. Like the 39LG, it is equipped with a PFC (Power Factor Correction) and PROTEC 400 technology. These technologies offer four major advantages; they can be used on 185 - 265 V electrical networks, they are protected against overvoltages up to 400 V, boast energy savings of 30% and can be used on a 25 A / 230 V socket.





COMBIDUCTION AUTO 50LG, 2-IN-1 INDUCTION-HEATING APPLIANCE

Its uses:

-  Automotive workshops
-  Agricultural workshops
-  Car-body repair
-  Maintenance work

Its advantages:

- Power: **5,200 W of continuous** power (5,200 W at 100%)
- **Single-phase power** supply with **PROTEC 400** and **PFC technology**
- Power lead for **use with a 16 A plug**
- Power cable: 8 m
- Inductor cable: 3 m (and the length of the machine's arm)
- Delivered with complete C20/B1 inductor (ref. 056862)
- Delivered with a glass inductor and a glue inductor (ref. 053339 & ref. 053373)
- Liquid-cooled power source (7 L)
- Pneumatic foot pedal



Includes
Glue inductor
Ref. 053339



Includes
Glass inductor
Ref. 053373



Optional Extras
Spiral inductor
Ref. 054783



Optional Extras
Dent-Removal Inductor
Ref. 054776

The COMBIDUCTION AUTO 50LG provides immediate heating power for all kinds of steel and aluminium work. Equipped with two mechanical arms, this versatile machine combines both bodywork and mechanical inductors. This induction unit is the ideal tool for garages and body shops.



POWERDUCTION 110LG, CONDENSED-DOWN EFFICIENCY

Its uses:

-  HGV, agricultural & construction workshops
-  Maintenance work
-  Shipyards & railways
-  Industry

Its advantages:

- Power: **11 kW of continuous power (max power)**
- Works on **16 A / 400 V or 35 A / 230 V three-phase power outlets**
- Power cable: 5 m
- Inductor cable: 4 m (and the length of the machine's arm)
- Easy to transport and use with its removable handle
- Comes with a **pneumatic-control pedal**
- Delivered with an L90 inductor (ref. 059788)
- Liquid-cooled power source (7 L)



Optional Extras
POWERDUCTION Heat Controller
061644

The POWERDUCTION 110LG is a three-phase, 400 V induction-heating machine that provides a mighty 11 kW of power in a small and practical package. True power condensed into one machine; this device has proven itself to be effective in numerous situations including HGV workshops and industrial production facilities. For even more comfort, it comes supplied with a pneumatic-control pedal.



POWERDUCTION 160LG, HIGH PERFORMANCE

Its uses:

-  HGV, agricultural & construction workshops
-  Maintenance work
-  Shipyards & railways
-  Industry

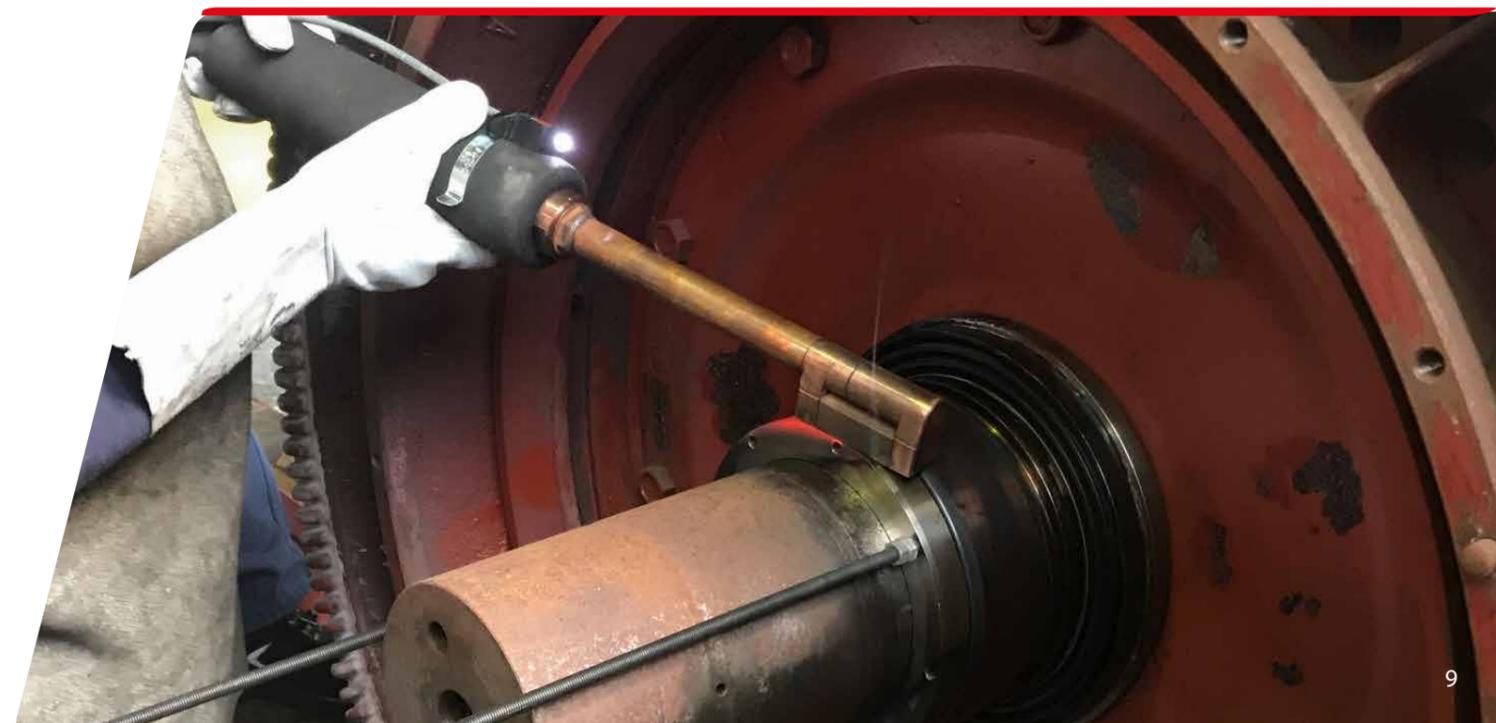
Its advantages:

- **16 kW of continuous** power (16 kW at max. power)
- Works on a **32 A / 400 V or 45 A / 230 V three-phase power outlet**
- Liquid-cooled power source (30 L)
- Power cable: 4 m
- Inductor cable: 6 m (and the length of the machine's motorised arm)
- Easy to transport and use with its removable handle
- Comes with a **pneumatic-control pedal**
- Delivered with an L90 inductor (ref. 059788)



Optional Extras
POWERDUCTION Heat Controller
061644

Powered by a 400 V, three-phase supply, the POWERDUCTION 160LG achieves a power of 16 kW. The power output combined with its 30-litre tank and on-board technology ensure an unparalleled performance in industrial environments or during demanding operations. Its sophisticated, user-friendly design includes a motorised arm to support the 6 metres of inductor cable, 4 metres of power cable and a pneumatic-control foot pedal as well as four wheels for perfect stability.





POWERDUCTION 220LG, THE MOST POWERFUL INDUCTION MACHINE

Its uses:

- HGV, agricultural & construction workshops
- Shipyards & railways
- Maintenance work
- Industry

Its advantages:

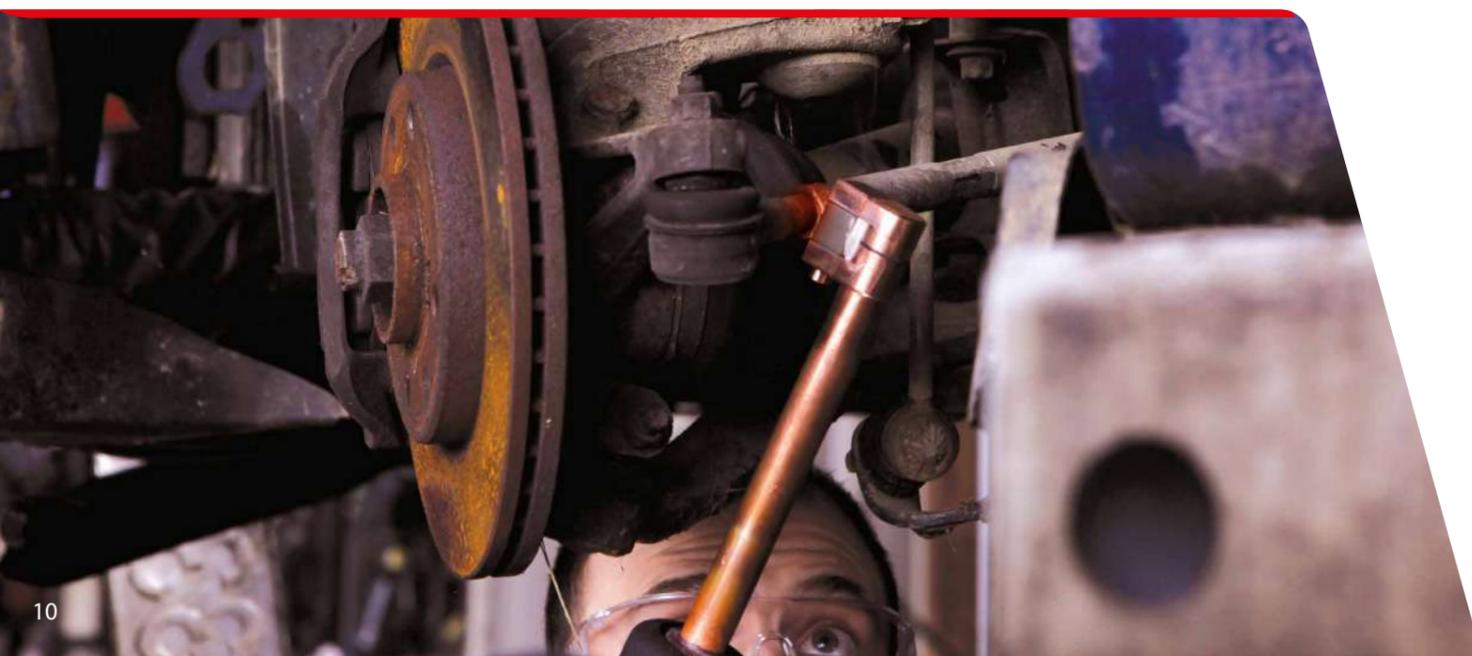
- **22 kW of continuous** power (22 kW at max. power)
- Works on a **32 A / 400 V three-phase power outlet**
- Liquid-cooled power source (30 L)
- Power cable: 4 m
- Inductor cable: 6 m (and the length of the machine's motorised arm)
- Easy to transport and use with its removable handle
- Comes with a **pneumatic-control pedal**
- Delivered with a L20/B4 inductor (ref. 067882)

NEW



Optional Extras
POWERDUCTION Heat Controller
061644

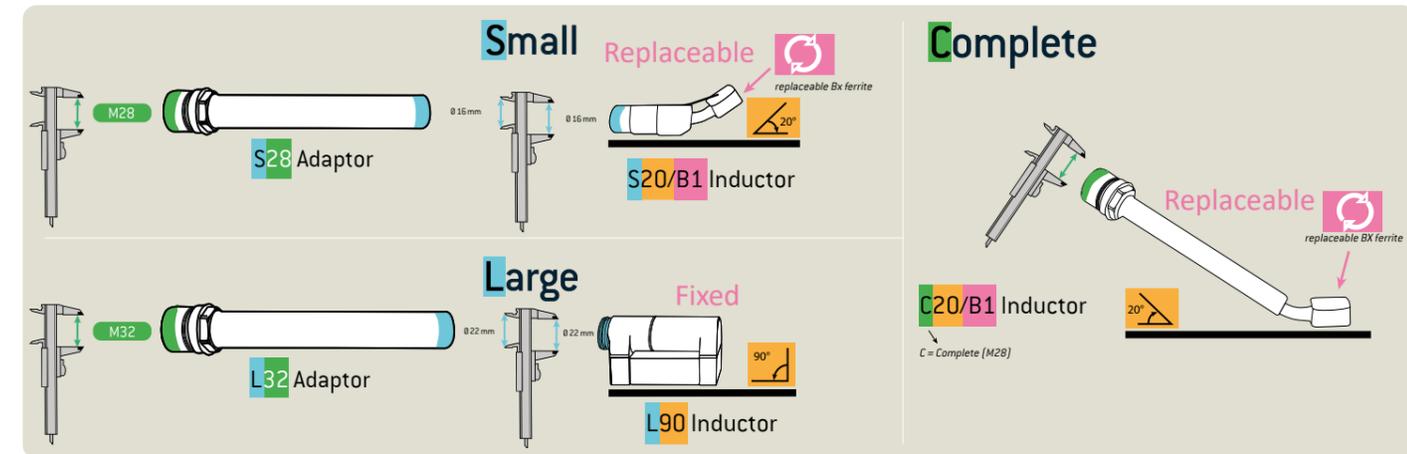
Powerduction 200LG supplies instant heat to unseize, and to heat up, steel or aluminium. Its flameless heating is precise, immediate and completely safe for working environments. Thanks to its liquid cooling, it can work continuously at its maximum power of 22kW. Designed for intensive use on 32 A three-phase socket, its productivity and heating quality make it an indispensable tool for all industrial environments.



A RANGE OF ADJUSTABLE INDUCTORS

The POWERDUCTION range boasts a wide range of inductors especially designed for the various different induction applications. The three inductor ranges offered (small, large and complete) can be tailored to the various shapes of the workpieces making it easier to reach difficult areas. Our selection offers multiple inductor combinations giving the user even more ways to meet their induction-heating needs.

Getting to grips with the POWERDUCTION range



Power-supply / adaptor / inductor compatibility

Supplied as standard

37 LG



39LG / 50LG



110LG / 160LG / 220LG



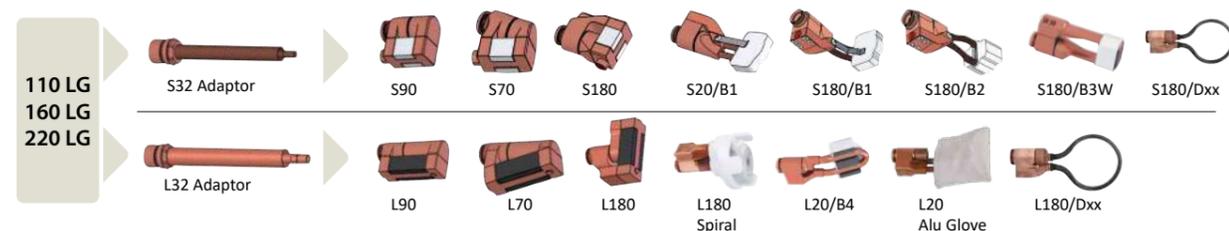
COMPLETE INDUCTORS



ADAPTORS



INDUCTORS (DEPENDING ON THE ADAPTOR)





POWERDUCTION SELECTION GUIDE



		10 R ref. 062504	37 LG ref. 056992	39 LG ref. 058583	50 LG ref. 055599	COMBI 50 LG ref. 065901	110 LG ref. 065246 ref. 058590		160 LG ref. 065253 ref. 057814		220 LG ref. 066861
TECHNICAL DATA											
Power supply (50/60 Hz)		230V, 1~	230V, 1~	230V, 1~	230V, 1~	230V, 1~	230V, 3~	400V, 3~	230V, 3~	400V, 3~	400V, 3~
Fuse		16 A	16 A	16 A	25 A	25 A	35 A	16 A	45 A	32 A	32 A
Power		1.2 kW	3.7 k.	3.7 k.	5.2 kW	5.2 kW	11 kW		16 kW		22 kW
Frequency		45 → 100 kHz	15 → 30 kHz	20 → 60 kHz	20 → 60 kHz	20 → 80 kHz	20 → 60 kHz		20 → 60 kHz		20 → 60 kHz
Power Factor Correction (PFC)		—	—	■	■	■	—	—	—	—	—
PROTEC 400 (P400)		—	—	■	■	■	—	—	—	—	—
Coolant		Air	1.5 L	7 L	7 L	7 L	7 L	30 L	30 L	30 L	30 L
Power Supply Cable		2 m	2 m	2 m	8 m & 16 A extension	8 m & 16 A extension	5 m	4 m	4 m	4 m	4 m
Inductor Cable		1 m	2 m	3 m	3 m	3 m	4 m	6 m	6 m	6 m	6 m
Dimensions		23 x 14 x 10 cm	45 x 28.5 x 25 cm	53 x 70 x 37 cm	59 x 88 x 59 cm	59 x 88 x 59 cm	59 x 90 x 59 cm	78 x 118 x 58 cm	78 x 118 x 58 cm	78 x 118 x 58 cm	78 x 118 x 58 cm
Weight		3 kg	15 kg	50 kg	70 kg	70 kg	80 kg	150 kg	150 kg	150 kg	150 kg
HEATING CAPACITIES											
Duty Cycle	35 °C / 100%	2 min	7 min	15 min	continuous	continuous	continuous	continuous	continuous	continuous	continuous
Nut Size		—	M10 → 1 s	M12 → 1 s	M14 → 1 s	M14 → 1 s	M18 → 1 s	M20 → 1 s	M45 → 2 s	M45 → 2 s	M45 → 2 s
Sheet Thickness		—	2 mm → 5 s	2 mm → 5 s	2 mm → 3 s 4 mm → 5 s	2 mm → 3 s 4 mm → 5 s	2 mm → 2 s 4 mm → 4 s	2 mm → 2 s 4 mm → 4 s	2 mm → 1 s 4 mm → 3 s	2 mm → 1 s 4 mm → 3 s	2 mm → 1 s 4 mm → 3 s
Metal Rod Diameter		∅ 8 → 10 s	∅ 10 → 15 s	∅ 10 → 15 s	∅ 10 → 10 s	∅ 10 → 10 s	∅ 10 → 7 s	∅ 10 → 5 s	∅ 10 → 4 s	∅ 10 → 4 s	∅ 10 → 4 s
RECOMMENDATIONS FOR USE											
Mechanics	Car-Body Repair										
	HGVs										
	Agriculture										
	Construction										
General Maintenance											
Industry											

On-Board Technologies

It is challenging to control the heating process and precise induction temperatures. The POWERDUCTION range offers the technology needed for this type of control, for perfect results every time.

NEW



Temperature control

The POWERDUCTION 110LG, 160LG and 220LG can be fitted with a 'POWERDUCTION Heat Controller' smart box. Connecting directly to the circuit board, along with thermal sensors, it can be programmed easily through the machine's user-friendly interface. This function allows a heating set point to be consistently maintained between 80 and 350°C. This is ideal for pre-heating welding workpieces, interference-fitting or paint stripping.

NEW



Timing control

The latest generation of POWERDUCTION machines (V4) come with a new «Timer» feature. This function means that the heating time can be precisely adjusted (from anywhere between 1 - 30 seconds) to achieve the right level of accuracy (excluding the 37 LG).



Induction heating specially tailored to your inductor and welding material

The POWERDUCTION range responds differently depending on the type of inductor being used and the material being heated. It provides an optimal heating power adapted specifically to each situation.



Compatibility

Accessories and Consumables



COMPLETE INDUCTOR KITS	(mm)	FERRITES	BOXES
<p>C20/B1 Complete Inductor Kit Ref. 056862</p>	37 x 13 x 250	<p>B1 Ferrite Inductor Ref. 053823</p>	<p>S28 / B Type W Ref. 072497</p> <p>Included: - S20/B1 Inductor (x1) S180/B1 (x1) S180/B3W (x1) - S28 Adaptor (x1) - B1 Ferrite Inductor (x1) B3 (x1) - O-Ring Seals (x10)</p>
<p>C180/B1 Complete Inductor Kit Ref. 056879</p>	37 x 39 x 235	<p>B1 Protective Ferrite Casing Ref. 056909</p>	
<p>C180/B2 Complete Inductor Kit Ref. 056886</p>	32 x 28 x 260	<p>B2 Ferrite Inductor Ref. 053458</p>	
		<p>B2 Protective Ferrite Casing Ref. 056916</p>	
ADAPTORS	INDUCTORS	(mm)	FERRITES
<p>S28 Adaptor Ref. 064485</p> <p>(mm) ∅ 18 x 155</p>	<p>S90 Inductor Ref. 058927</p>	38 x 20 x 35	<p>B1 Ferrite Inductor Ref. 053823</p>
	<p>S70 Inductor Ref. 061569</p>	38 x 20 x 40	
<p>S180 Inductor Ref. 059269</p>	<p>S180/B1 Inductor Ref. 064874</p>	38 x 20 x 44	<p>B2 Ferrite Inductor Ref. 053458</p>
	<p>S180/B2 Inductor Ref. 064928</p>	37 x 20 x 90	
<p>S32 Adaptor Ref. 064508</p> <p>(mm) ∅ 18 x 155</p>	<p>180/B1 Inductor Ref. 064881</p>	37 x 44 x 65	<p>B3 Ferrite Inductor Ref. 067875</p>
	<p>S180/B3W Inductor Ref. 067899</p>	33 x 29 x 90	
	<p>S180 Inductor / D20 Inductor Ref. 069985</p>		
	<p>D25 Inductor Ref. 069992</p>		
	<p>D30 Inductor Ref. 070592</p>		
	<p>D35 Inductor Ref. 070608</p>		
	<p>D40 Inductor Ref. 070615</p>		
	<p>D45 Inductor Ref. 070622</p>		
	<p>D50 Inductor Ref. 070639</p>		
	<p>D55 Inductor Ref. 070646</p>		

Compatibility

Accessories and Consumables



ADAPTORS	INDUCTORS	(mm)	FERRITES	BOXES
<p>L28 Adaptor Ref. 064492</p> <p>(mm) ∅ 24 x 180</p>	<p>L90 Inductor Ref. 059788</p>	81 x 31 x 46	<p>Protective Docking Station Ref. 069701</p>	<p>S32 / B Type W Ref. 072503</p> <p>Included: - S20/B1 Inductor (x1) S180/B1 (x1) S180/B3W (x1) - S32 Adaptor (x1) - B1 Ferrite Inductor (x1) B3 (x1) - O-Ring Seals (x10)</p>
	<p>L70 Inductor Ref. 059771</p>	81 x 31 x 55		
<p>L32 Adaptor Ref. 064515</p> <p>(mm) ∅ 24 x 180</p>	<p>L180 Inductor Ref. 059795</p>	81 x 31 x 66	<p>B4 Ferrite Ref. 053755</p>	<p>L Ref. 065796</p> <p>Included: - L70 Inductor (x1) L180 (x1) - O-Ring Seals (x13)</p>
	<p>L180 Spiral Inductor Ref. 065000</p>	∅ 80 x 102		
	<p>L20/B4 Inductor Ref. 067882</p>	120 x 57 x 26		
	<p>L20 Induction Glove for Aluminium Ref. 069114</p>	127 x 60 x 25		
	<p>L180 Inductor / D60 Inductor Ref. 069923</p>	160 x 80 x 25		
	<p>D70 Inductor Ref. 069930</p>	165 x 90 x 25		
	<p>D80 Inductor Ref. 069121</p>	170 x 100 x 25		
	<p>D90 Inductor Ref. 069947</p>	175 x 110 x 25		
	<p>D100 Inductor Ref. 069954</p>	180 x 120 x 25		
	<p>D110 Inductor Ref. 069961</p>	185 x 130 x 25		
	<p>D120 Inductor Ref. 069978</p>	190 x 140 x 25		
GLUE	COOLANT			
<p>Two-component Power-Epoxy adhesive 2 x 15 g Ref. 054851</p>	<p>Coolant Ref. 062511 (5L) Ref. 052246 (10L)</p>			



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Created in 1964, GYS is a French family group with 730 employees worldwide. With its research centre, GYS is a leading player in the design and manufacturing of welding, battery charging and car-body repair equipment.

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