



ENGMAR

Innovative extraction solutions
for the protection of welders

240 MIG/MAG FUME EXTRACTION TORCH ERGOFLOW



BOOST PRODUCTIVITY AND ACCESSIBILITY WITH A MORE FLEXIBLE, LIGHTWEIGHT TORCH

Especially suited for complex welding environments (metalwork - reinforcement)

ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

OPTIMAL FUME EXTRACTION

Ideal position
of the extraction nozzle

ENHANCED ACCESSIBILITY

Compact torch head parts

MECHANICAL TRIGGER

More robust
than a microswitch

GRIP

SWIVEL CONNECTOR

Durable steel construction
for improved torch handling

LESS BULKY CABLE ASSEMBLY WITH LEATHER PROTECTION

CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974



PRODUCT BENEFITS

- **More flexible and compact** cable assembly for better accessibility in complex welding environments (e.g. metalwork, rebar fabrication).
- **Ultra-ergonomic and easy-to-handle** torch.
- Excellent fume extraction capacity: **up to 98% of fumes captured.**
- **Optimal accessibility** thanks to the recessed extraction nozzle and the slim gas nozzle.





PRODUCT DESCRIPTION



Welding generates fumes and gases that are harmful to the health of welders as well as to the air quality in the workshop. The fume extraction torch is the most effective solution for capturing welding fumes directly at their source, thus preventing their dispersion in the work environment.

The MIG/MAG 240 fume extraction torch, specifically designed for metalworking applications, stands out due to its reduced-diameter hose compared to other models in the **ERGOFLOW** range. This ergonomic design provides the welder with enhanced handling, allowing easy access to complex welding configurations. Ideal for small series parts, this torch is perfectly suited for operations requiring high precision. Thanks to its innovative design, it meets the demands of professionals seeking a reliable and high-performance tool.

ENGMAR is committed to meeting your specific needs by offering a wide range of customizable options for its fume extraction torches. These options are available on request to ensure a solution perfectly tailored to your activity.

Torch model available exclusively in air-cooled version.



TECHNICAL DATA OF THE EXTRACTION TORCH

	AIR COOLED
CO ₂ CAPACITY	220 A
AR/CO ₂ CAPACITY	180 A
DUTY CYCLE	60%
RECOMMENDED WIRE DIAMETER	0.8 - 1.2 mm
EXTRACTION HOSE DIAMETER	30 mm
MINIMUM FLOW RATE AT NOZZLE [NM ³ /H]	81
REQUIRED VACUUM (SEA LEVEL) [PA]	17 900
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)	117



PRODUCT FEATURES

- Thanks to its reduced-diameter hose and lightweight design, the 240 torch offers excellent handling and accessibility.
- Ideal for applications requiring high precision, such as metalworking or rebar fabrication.
- Numerous additional options available (air valve, control button, leather cover, head parts).



PRODUCT REFERENCES

	AIR COOLED
	50° Model
3 m	FLS243035
4 m	FLS244035
5 m	FLS245035



ENGMAR SAS

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Innovative extraction solutions
for the protection of welders

EXTRACTION TORCH MIG/MAG 250 ERGOFLOW



CUSTOMIZE YOUR TORCH TO YOUR NEEDS AND CAPTURE WELDING
FUMES EFFICIENTLY

ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

OPTIMUM EXTRACTION

Ideal position of
the extraction nozzle



MECHANICAL TRIGGER

More robust than
a microswitch

GRIP

Better grip

SWIVEL CONNECTION

Made from durable steel for
easy torch handling

LEATHER PROTECTION

Length 1.4 m on the front of
the torch.



CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974



PRODUCT BENEFITS

- **Excellent** extraction capacity: **up to 98% of fumes extracted.**
- **Ultra-ergonomic**, easy-to-handle torch.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.

PRODUCT DESCRIPTION



Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

ENGMAR's **ERGOFLOW** MIG/MAG 250 extraction torch captures up to 98% of welding fumes. Various extraction nozzles enable the welding torch to be adapted to the volume of fumes to be extracted and the size of the part to be welded. The lightweight and flexibility of the MIG/MAG 250 extraction torch allow the operator to work in the best possible conditions, making it a real production tool that is efficient and very comfortable.

Torch model available in air-cooled and water-cooled version

TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED	WATER COOLED
POWER WITH CO ₂	220 A	240 A
POWER WITH AR/CO ₂	180 A	200 A
DUTY CYCLE	60%	100%
RECOMMENDATION WELDING WIRE	0.8 - 1.2 mm	
EXTRACTION HOSE DIAMETER	40 mm	40 - 50 mm
MIN. NOZZLE FLOW RATE [NM ³ /H]	75	
REQUIRED PRESSURE (SEA LEVEL) [KPA]	77.5	77
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)	22.2	13

PRODUCT FEATURES

- Torch equipped with the optimum fume shroud for the most efficient extraction
- Light flexible polyurethane tube on the front of the torch / Shape memory flexible tube on the back of the torch, resisting to clogging and abrasion
- The torch is delivered with its liner and Euro connector
- Induced speed at the point of emission greater than 0.25 m/s as recommended by ISO 21904-1 (combined with an ENGMAR extraction unit).

PRODUCT REFERENCES

	AIR COOLED		WATER COOLED	
	45° Model	50° Model	45° Model	50° Model
3 m	FLG253040-45	FLG253040	FRMG253050-45	FRMG253050
4 m	FLG254040-45	FLG254040	FRMG254050-45	FRMG254050
5 m	FLG255040-45	FLG255040	FRMG255050-45	FRMG255050



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for the protection of welders

EXTRACTION TORCH MIG/MAG 250 LIGHT ERGOFLOW



INCREASE PRODUCTIVITY AND ACCESSIBILITY WITH A LIGHTER, MORE FLEXIBLE TORCH

Particularly well-suited for complex welding environments (metalwork - reinforcement)

ERGONOMICS & FLEXIBILITY

Ergonomic handle

Handle with valve

Handle with button(s)

Several options
available

OPTIMUM EXTRACTION

Ideal position
of the extraction nozzle

VARIOUS MOUNTING OPTIONS

MECHANICAL TRIGGER

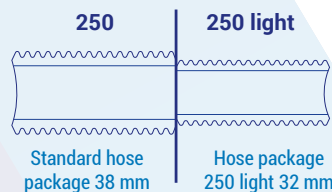
More robust
than a microswitch

GRIP

SWIVEL CONNECTION

Made from durable steel
for easy torch handling

SLIMMER HOSE PACKAGE WITH LEATHER PROTECTION



CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974



PRODUCT BENEFITS

- More flexible, **less bulky hose package** for better **access in complex welding environments** (e.g. metalwork, fittings).
- **Ultra-ergonomic**, easy-to-handle torch.
- **Excellent** extraction capacity: **up to 98% of fumes extracted**.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.



PRODUCT DESCRIPTION



Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

The 250 LIGHT MIG/MAG welding torch for light metalwork has a hose package with a smaller diameter than the standard **ERGOFLOW** range. This product design makes it easier for welders to handle the torch, giving them better access to more complex welding configurations. Designed for small production runs, the torch is ideal for precision welding.

ENGMAR adapts to your needs and offers a wide range of torch options, available on request.

Torch model only available in air-cooled version.



TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED
POWER WITH CO ₂	220 A
POWER WITH AR/CO ₂	180 A
Duty cycle	60%
RECOMMENDATION WELDING WIRE	0.8 - 1.2 mm
EXTRACTION HOSE DIAMETER	30 mm
MIN. NOZZLE FLOW RATE [NM ³ /H]	75
REQUIRED PRESSURE (SEA LEVEL) [KPA]	13
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)	35



PRODUCT FEATURES

- Flexibility and accessibility optimised.
- Easy access even in complex configurations.
- Numerous additional options available (valve, control button, leather, head pieces).



PRODUCT REFERENCES

	AIR COOLED	
	45° Model	50° Model
3 m	FLG253035-45	FLG253035
4 m	FLG254035-45	FLG254035
5 m	FLG255035-45	FLG255035



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EXTRACTION TORCH MIG/MAG 350

ERGOFLOW



ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

OPTIMUM EXTRACTION

Ideal position of
the extraction nozzle

CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974

MECHANICAL TRIGGER

More robust than
a microswitch

GRIP

Better grip

SWIVEL CONNECTION

Made from durable steel
for easy torch handling

LEATHER PROTECTION

Length 1.4 m on the front of
the torch



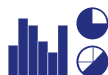
PRODUCT BENEFITS

- **Excellent** extraction capacity: **up to 98% of fumes extracted.**
- **Ultra-ergonomic**, easy-to-handle torch.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.

Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

ENGMAR's **ERGOFLOW** MIG/MAG 350 extraction torch captures up to 98% of welding fumes. Various extraction nozzles enable the welding torch to be adapted to the volume of fumes to be extracted and the size of the part to be welded. The lightweight and flexibility of the MIG/MAG 350 extraction torch allow the operator to work in the best possible conditions, making it a real production tool that is efficient and very comfortable.

Torch model available in air-cooled and water-cooled version.



TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED	WATER COOLED
POWER WITH CO ₂	340 A	350 A
POWER WITH AR/CO ₂	300 A	
DUTY CYCLE	60%	100%
RECOMMENDATION WELDING WIRE	1.0 - 1.6 mm	
EXTRACTION HOSE DIAMETER	40 - 50 mm	
MIN. NOZZLE FLOW RATE [NM ³ /H]	92	
REQUIRED PRESSURE (SEA LEVEL) [KPA]	126	142.5
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)	22.3	21.3



PRODUCT FEATURES

- Torch equipped with the optimum fume shroud for the most efficient extraction
- Light flexible polyurethane tube on the front of the torch / Shape memory flexible tube on the back of the torch, resisting to clogging and abrasion
- The torch is delivered with its liner and Euro connector
- Induced speed at the point of emission greater than 0.35 m/s as recommended by ISO 21904-1 (combined with an ENGMAR extraction unit).



PRODUCT REFERENCES

	AIR COOLED		WATER COOLED	
	45° Model	50° Model	45° Model	50° Model
3 m	FLE353040-45	FLE353040	FRME353050-45	FRME353050
4 m	FLE354040-45	FLE354040	FRME354050-45	FRME354050
5 m	FLE355040-45	FLE355040	FRME355050-45	FRME355050



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EXTRACTION TORCH MIG/MAG 360

ERGOFLOW



OPTIMUM EXTRACTION

Ideal position of
the extraction nozzle

CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974

ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

MECHANICAL TRIGGER

More robust than
a microswitch

GRIP

Better grip

SWIVEL CONNECTION

Made from durable steel
for easy torch handling



LEATHER PROTECTION

Length 1.4 m on the front of
the torch

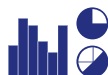


PRODUCT BENEFITS

- **Excellent** extraction capacity: **up to 98% of fumes extracted.**
- **Ultra-ergonomic**, easy-to-handle torch.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.

Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

ENGMAR's **ERGOFLOW** MIG/MAG 350 extraction torch captures up to 98% of welding fumes. Various extraction nozzles enable the welding torch to be adapted to the volume of fumes to be extracted and the size of the part to be welded. The lightweight and flexibility of the MIG/MAG 350 extraction torch allow the operator to work in the best possible conditions, making it a real production tool that is efficient and very comfortable. This new torch has been designed to ensure excellent cooling.



TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED
POWER WITH CO ₂	340 A
POWER WITH AR/CO ₂	300 A
DUTY CYCLE	60%
RECOMMENDATION WELDING WIRE	1.0 - 1.6 mm
EXTRACTION HOSE DIAMETER	40 mm
MIN. NOZZLE FLOW RATE [NM ³ /H]	85
REQUIRED PRESSURE (SEA LEVEL) [KPA]	126
DÉBIT AU TÉ [NM ³ /H]	127,7



PRODUCT FEATURES

- Torch equipped with the optimum fume shroud for the most efficient extraction
- Light flexible polyurethane tube on the front of the torch / Shape memory flexible tube on the back of the torch, resisting to clogging and abrasion
- The torch is delivered with its liner and Euro connector
- Induced speed at the point of emission greater than 0.35 m/s as recommended by ISO 21904-1 (combined with an ENGMAR extraction unit).



PRODUCT REFERENCES

	AIR COOLED	
	45° Model	50° Model
3 m	FLS363040-45	FLS363040
4 m	FLS364040-45	FLS364040
5 m	FLS365040-45	FLS365040



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for the protection of welders

EXTRACTION TORCH MIG/MAG 380 ERGOFLOW



ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

OPTIMUM EXTRACTION

Ideal position of
the extraction nozzle

CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974

MECHANICAL TRIGGER

More robust than
a microswitch

GRIP

Better grip

SWIVEL CONNECTION

Made from durable steel for
easy torch handling

LEATHER PROTECTION

Length 1.4 m on the front of
the torch



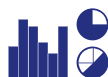
PRODUCT BENEFITS

- **Excellent** extraction capacity: **up to 98% of fumes extracted.**
- **Ultra-ergonomic**, easy-to-handle torch.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.

Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

ENGMAR's **ERGOFLOW** MIG/MAG 380 extraction torch captures up to 98% of welding fumes. Various extraction nozzles enable the welding torch to be adapted to the volume of fumes to be extracted and the size of the part to be welded. The lightweight and flexibility of the MIG/MAG 380 extraction torch allow the operator to work in the best possible conditions, making it a real production tool that is efficient and very comfortable.

Torch model available in air-cooled and water-cooled version



TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED	WATER COOLED
POWER WITH CO ₂		400 A
POWER WITH AR/CO ₂		340 A
DUTY CYCLE	60%	100%
RECOMMENDATION WELDING WIRE		1.2 - 1.6 mm
EXTRACTION HOSE DIAMETER		40 - 50 mm
MIN. NOZZLE FLOW RATE [NM ³ /H]		92
REQUIRED PRESSURE (SEA LEVEL) [KPA]	134,5	142
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)	23,4	21,3



PRODUCT FEATURES

- Torch equipped with the optimum fume shroud for the most efficient extraction
- Light flexible polyurethane tube on the front of the torch / Shape memory flexible tube on the back of the torch, resisting to clogging and abrasion
- The torch is delivered with its liner and Euro connector
- Induced speed at the point of emission greater than 0.35 m/s as recommended by ISO 21904-1 (combined with an ENGMAR extraction unit).



PRODUCT REFERENCES

	AIR COOLED		WATER COOLED	
	45° Model	50° Model	45° Model	50° Model
3 m	FLE383050-45	FLE383050	FRME383050-45	FRME383050
4 m	FLE384050-45	FLE384050	FRME384050-45	FRME384050
5 m	FLE385050-45	FLE385050	FRME385050-45	FRME385050



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EXTRACTION TORCH MIG/MAG 400

ERGOFLOW



OPTIMUM EXTRACTION

Ideal position of
the extraction nozzle

ERGONOMICS & FLEXIBILITY

Ergonomic handle



Several options
available

CE EUROPEAN STANDARDS

- EN 21904-1
- EN 21904-4
- EN 60974

MECHANICAL TRIGGER

More robust than
a microswitch

GRIP

Better grip

SWIVEL CONNECTION

Made from durable steel for
easy torch handling

LEATHER PROTECTION

Length 1.4 m on the front of
the torch



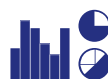
PRODUCT BENEFITS

- **Excellent** extraction capacity: **up to 98% of fumes extracted.**
- **Ultra-ergonomic**, easy-to-handle torch.
- **Optimum accessibility** thanks to the nozzle situated behind the gas nozzle and the nozzle's slim design.
- Torch head can be **customised** to suit your needs.

Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

ENGMAR's **ERGOFLOW** MIG/MAG 400 extraction torch captures up to 98% of welding fumes. Various extraction nozzles enable the welding torch to be adapted to the volume of fumes to be extracted and the size of the part to be welded. The lightweight and flexibility of the MIG/MAG 400 extraction torch allow the operator to work in the best possible conditions, making it a real production tool that is efficient and very comfortable.

Torch model available in air-cooled and water-cooled version



TECHNICAL DATA FOR THE EXTRACTION TORCH

	AIR COOLED	WATER COOLED
POWER WITH CO ₂		500 A
POWER WITH AR/CO ₂		440 A
DUTY CYCLE		60%
RECOMMENDATION WELDING WIRE		1.2 - 1.6 mm
EXTRACTION HOSE DIAMETER		40 - 50 mm
MIN. NOZZLE FLOW RATE [NM ³ /H]		58
REQUIRED PRESSURE (SEA LEVEL) [KPA]	69	70
DIFFERENCE IN FLOW RATES BETWEEN THE HEAD AND THE T(NM ³ /H)		67.3



PRODUCT FEATURES

- Torch equipped with the optimum fume shroud for the most efficient extraction
- Light flexible polyurethane tube on the front of the torch / Shape memory flexible tube on the back of the torch, resisting to clogging and abrasion
- The torch is delivered with its liner and Euro connector
- Induced speed at the point of emission greater than 0.35 m/s as recommended by ISO 21904-1 (combined with an ENGMAR extraction unit).



PRODUCT REFERENCES

	AIR COOLED		WATER COOLED	
	45° Model	60° Model	45° Model	60° Model
3 m	FLC403050-45	FLC403050	FRMC403050-45	FRMC403050
4 m	FLC404050-45	FLC404050	FRMC404050-45	FRMC404050
5 m	FLC405050-45	FLC405050	FRMC405050-45	FRMC405050



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EXTRACTION TORCH MIG/MAG 420

ERGOFLOW



INCREASE PRODUCTIVITY BY WELDING CONTINUOUSLY AT HIGH INTENSITY

ERGONOMICS & ADAPTABILITY

Ergonomic handle



Several options
available

OPTIMUM EXTRACTION

Ideal position of the
nozzle



EUROPEAN NORMS

- EN 21904-1
- EN 21904-4
- EN 60974

Discover our product
video product by
flashing the QR-code



PRODUCT BENEFITS

- Up to **98% of fumes are extracted**
- **Reduced number of consumables**, simplified assembly
- **New cooling system** for minimum wear of parts
- **Excellent extraction capacity**
- Very **flexible** hose for better ergonomics

GRIP

Ensures better
handling

ROTATING CONNECTOR

Heavy-duty steel, for better
handling of the torch





PRODUCT DESCRIPTION



Welding generates fumes and gases that are hazardous to welders' health. An extraction torch is the most effective tool for removing welding fumes as close as possible to the source of emission, thus avoiding dilution of the fumes in the workshop.

The extraction torch **ERGOFLOW** 420A MIG/MAG is designed to weld while protecting the welder from the emitted fumes. This new torch is the most powerful of the range, allowing welding up to 380A thanks to its new cooling system. Mounted with a rotating connection at the handle exit to improve ergonomics, it allows welding in any position.

ENGMAR adapts to your needs and offers many torch options, available on request.



TECHNICAL DETAILS

	WATER COOLED	AIR COOLED
POWER WITH CO ₂		440A
POWER WITH AR/CO ₂		380A
DUTY CYCLE	100%	60%
RECOMMANDATION WELDING WIRE (MM)		0.8 - 1.6
MIN. FLOW RATE AT THE NOZZLE [NM ³ /H]		85
REQUIRED PRESSURE (SEA LEVEL) [KPA]		101.8
FLOW DIFFERENCE BETWEEN NOZZLE AND CONNECTOR (NM ³ /H)		22.2

In pulsed mode, capacities are reduced by 35%.



PRODUCT SPECIFICATIONS

- Slimmer torch with extraction nozzle located further back, allowing better accessibility
- 1.4 m long leather hose
- Light and flexible polyurethane hose on the front part, covered hose on the rear part of the torch
- European connector
- Torch supplied with wire guide



PRODUCT REFERENCES

NECK TORCH	HOSE	3 m	4 m	5 m
WATER COOLED				
NECK 45°	Ø50 mm	FRMS423050-45	FRMS424050-45	FRMS425050-45
NECK 50°	Ø50 mm	FRMS423050	FRMS424050	FRMS425050
AIR COOLED				
NECK 45°	Ø50 mm	FLS423050-45	FLS424050-45	FLS425050-45
NECK 50°	Ø50 mm	FLS423050	FLS424050	FLS425050

Other versions on request.



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Tax registration number: FR15 481 142602



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