

# FLEXLITE GF

## Grip on safety

The **Flexlite GF product series** consists of several MIG/MAG welding guns with a fume-extraction function. The efficient vacuum system extracts the welding fumes directly from the gun nozzle without disturbing the shielding gas flow, thus providing a safer and cleaner working environment for the welder as well as for others sharing the working environment.

The Flexlite GF is available in water- and gas-cooled versions, both featuring excellent ergonomics provided by the detachable pistol grip handle. The design and the shape of the grip handle make it a delight to hold. All Flexlite GF models enjoy the Flexlite features for user comfort, welding efficiency and extended consumable part life.



Visit website:

> [kemp.cc/flexlite/gf](https://kemp.cc/flexlite/gf)





## Flexlite GF provides a safer working environment

When working with the Flexlite GF, a primary protection is ensured for the entire working environment, including both people and fume-sensitive devices. Comprehensive testing has proved that the welding properties are not compromised when using fume extraction.

Moreover, the Flexlite GF has been tested against the ISO 21904-3 standard. This ensures a standardized way to prove the capture efficiency of the gun. The standardized welding gun is a safe and reliable tool for a welder's day-to-day work.



### PROTECTION AT ITS BEST

Welding fumes are removed directly from the contaminant source, which means high-class protection not only for the welder, but to everyone around them.



### WELDING OUTPERFORMED

Safety adds up to excellent welding properties and reduced spatter.



### HAPPY TO HOLD

Excellent ergonomics makes welding with the Flexlite GF a pleasure, and results in increased work quality and efficiency.



**Welding fume** is composed of elements dangerous to human health.



**One single** welding operator can produce up to 40 g of air-borne fume and particulate per hour.

# 4000

Typically, we breath 4000 litres of air per 8-hour work shift.



**Fume extraction** improves safety of all people who work in same environment.



**Occupational lung diseases** are preventable by proper fume extraction



**If unprotected**, tiny fume particles can pass deep into the lung structure.



**Extraction efficiency** has been measured according to new standard.



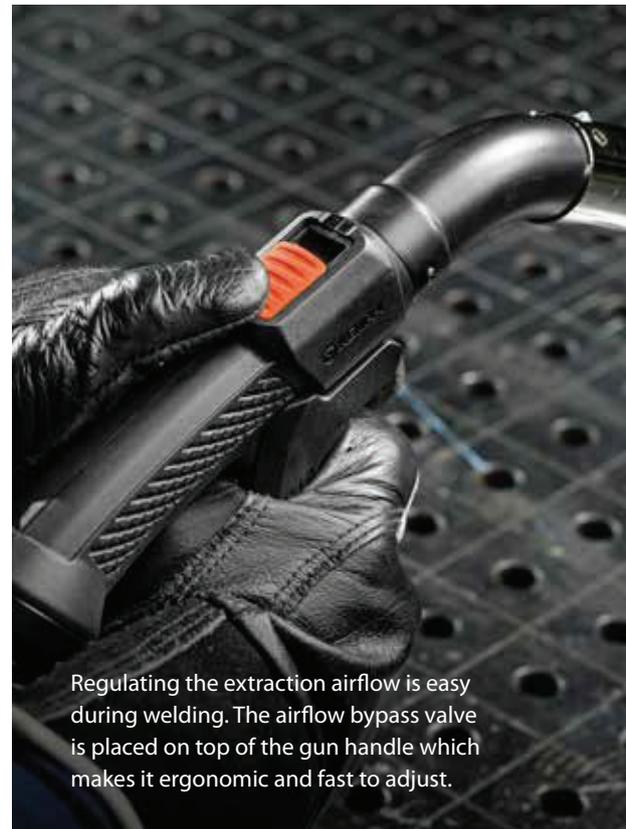
**If exposed** for lengthy periods, may result in long term health issues, including cancer.

# The most efficient fume-extraction method

All welding processes produce smoke that contains harmful metal fumes and gases which are invisible to the eye. One single welding operator can produce up to 40 grams of airborne fumes and particles per hour. These welding fumes are composed of elements that are dangerous to human health. Exposure to airborne contamination for lengthy periods may result in long-term health issues, including cancer.

The fume-extraction gun enables the extraction of welding fumes in challenging locations where it is difficult to arrange localized ventilation. An efficient fume-extraction gun, such as the Flexlite GF, collects up to 95 % of welding fumes directly as they are generated, and long before they reach the welder's breathing zone. All Kemppi's welding fume extraction gun models and their extraction efficiency has been measured according to new standard ISO 21904-3.

Fume-extraction guns are not the only option for removing airborne welding fumes and particles, but in many cases, they are the best. Fume-extraction guns are the only solution that removes the welding fumes directly at source.





Flexlite GF

# Safety comes first

The Flexlite GF offers primary protection not only for the welder but also for others sharing the same working environment. The efficient and adjustable vacuum flow removes 95 % of airborne fumes and particles before they reach breathing zones.

When you have highly sensitive equipment and devices in your working environment, top-class protection is required. Removing fumes directly from the contaminant source with a fume-extraction gun is the most reliable and economic solution available in the market.

## HIGH-QUALITY TOOLS FOR HIGH-QUALITY WELDS

The Flexlite GF combines powerful fume extraction and comprehensive shielding gas coverage. As well as maximum protection, this also results in premium welding work. With the help of a high-performance gun, the power source capacity is used efficiently, and the spatters are minimized.

Kemppi's comprehensive testing ensures that the use of fume extraction does not compromise welding abilities. With the Flexlite GF, the welding performance can reach a new level in terms of safety and welding capability. The Flexlite GF is compatible with standard Flexlite GX consumables. The original consumables boast a long lifecycle and durability.





In several cases, welding happens in difficult positions which may cause excessive fatigue, and even occupational injuries. The excellent ergonomics of lightweight Flexlite GF reduces injury risks and allows a welder to weld longer periods of time and more efficiently.

# Combined safety and usability

In the Flexlite GF, safety has found its match in usability. The excellent ergonomics are one of the distinguishing features of our Flexlite product family and provide the welder with a comfort beyond comparison.

The Flexlite design lessens the welder fatigue, which leads to increased work quality and efficiency. An average welder spends around 20% of the working day holding a welding gun. The detachable pistol grip handle and a well-balanced gun shape make the work smoother and the gun so light that you do not have to worry about it. The flexible cable set goes up to 5 meters, and the ball-jointed cable protection offers additional comfort – you will be happy to hold the Flexlite GF.



The removable pistol grip handle makes welding position more natural and ergonomic. The pistol grip handle is included in the standard delivery specification.



Fume extraction unit connector has a flexible vacuum outlet which rotates freely 360°.

# Risk minimized,

## ERGONOMIC HANDLE DESIGN

An anatomically shaped handle with a firm grip. A modular trigger with few parts and simple wiring. The handle cover and trigger are quick and easy to change.

## LESS PARTS, LOWER COSTS

The number of changeable parts has been reduced by improving cross-matching across corresponding models, and by combining the functions of some of the consumables. This lowers inventory costs and makes the Flexlite perfect for workshop cost management.

## ADJUSTABLE VACUUM NOZZLE POSITION

The vacuum nozzle can be adjusted to three set positions to regulate the fume extraction airflow. Always optimized fume extraction for your welding job.

## CONTACT TIP ADAPTER

The combined contact tip adapter and gas diffuser offer an improved gas shield with smooth laminar flow. The combination results in need for fewer consumables.

## CONTACT TIP M10

Improved heat transfer helps with cooling. The contact tip bore is made by drilling, as a drilled hole is more concentric and accurate, and enables better fillets. Contact tips are marked according to the filler wire diameter, bore clearance class, and contact tip material type.

## PISTOL GRIP HANDLE

The detachable pistol grip handle is available for all the models. It allows a natural wrist position, which makes working easier and more effortless, especially when doing long welds. It is quick to install without tools.



# welding outperformed



## ADJUSTABLE VACUUM FLOW

The airflow bypass valve allows quick and easy adjustment of the extraction airflow during welding. The valve is ergonomically placed at the gun handle.



## SUPERB FUME EXTRACTION UNIT CONNECTOR

The connector has a flexible vacuum outlet which rotates freely 360°. This enables an easy connectivity to the fume extraction unit regardless of its placement. A leather cover for the vacuum hose is included as factory-installed in the package. A leather cover can also be supplied as a spare part with a Velcro-type fastener for easy installation. Flexible hoses increase ergonomics.

Flexlite GF

# Consumables

 GF303G35, GF303G5

 GF303W35, GF303W5



<b>A. Gas nozzle</b>	<b>Ø 22</b>
W014452	Thread, L57 / OD22 / D14

<b>E. Contact tip adapter</b>	
W013203	M10, insulated



<b>B. Vacuum nozzle</b>	
SP020810	VACUUM NOZZLE GF 22 MM



<b>F. Gun neck</b>	
SP021213	G303
SP020926	W303



<b>C. Vacuum Tube</b>	
SP020077	VACUUM TUBE GF 45 DEG



<b>Wire liners</b>	
W013628	0.9-1.2 Fe/3.5 m Ø 4.6 steel
W013632	0.9-1.2 Fe/5.0 m Ø 4.6 steel



<b>D. Contact tip</b>	
CT10C1SD001	1.0 C1 STD M10



<b>Wire guide tube</b>	
SP016214	End cap 4.9 mm, sealed, G
SP014606	End cap 4.9 mm, W

# Consumables

 GF403G35, GF403G5

 GF403W35, GF403W5, GF403WCS5



<b>A. Gas nozzle</b>	<b>Ø 25</b>
W011478	Thread, L57 / OD25 / D15



<b>B. Vacuum nozzle</b>	
SP020253	VACUUM NOZZLE GF 25MM



<b>Vacuum nozzle + gas nozzle assembly (For GF403WCS5)</b>	
SP021260	VACUUM/GAS NOZZLE GF403WCS5



<b>C. Vacuum Tube</b>	
SP020077	VACUUM TUBE GF 45 DEG
SP020746	VACUUM TUBE GF 30 DEG



<b>D. Contact tip</b>	
CT10C1SD001	1.0 C1 STD M10
CT12C1SD001	1.2 C1 STD M10

<b>E. Contact tip adapter</b>	
W013203	M10, insulated



<b>F. Gun neck</b>	
SP021316	G403
SP020159	W403
SP020159	W403CS



<b>Wire liners</b>	
W013628	0.9-1.2 Fe/3.5 m Ø 4.6 steel
W013632	0.9-1.2 Fe/5.0 m Ø 4.6 steel



<b>Wire guide tube</b>	
SP016214	End cap 4.9 mm, sealed, G
SP014606	End cap 4.9 mm, W



# Factory-installed consumables

## GAS-COOLED FLEXLITE GF WELDING GUNS

Flexlite GF

	CONTACT TIP 1.0 C1 STD M10	CONTACT TIP 1.2 C1 STD M10	CONTACT TIP ADAPTER, INSULATED	GAS NOZZLE, THREAD, L57 / OD25 / D15	WIRE LINER 0.9-1.2 FE / 3.5 M Ø 4.6 STEEL	WIRE LINER 0.9-1.2 FE / 5.0 M Ø 4.6 STEEL	END CAP 4.9 MM SEALED
	CT10C1SD001	CT12C1SD001	W013203	W011478	W013628	W013632	SP016214
GF303G35	●		●	●	●		●
GF303G5	●		●	●		●	●
GF403G35		●	●	●	●		●
GF403G5		●	●	●		●	●

## WATER-COOLED FLEXLITE GF WELDING GUNS

	CONTACT TIP 1.0 C1 STD M10	CONTACT TIP 1.2 C1 STD M10	CONTACT TIP ADAPTER, INSULATED	GAS NOZZLE, THREAD, L57 / OD22 / D14	GAS NOZZLE, THREAD, L57 / OD25 / D15	GAS/VACUUM NOZZLE	WIRE LINER 0.9-1.2 FE / 3.5 M Ø 4.6 STEEL	WIRE LINER 0.9-1.2 FE / 5.0 M Ø 4.6 STEEL	END CAP 4.9 MM
	CT10C1SD001	CT12C1SD001	W013203	W014452	W011478	SP021260	W013628	W013632	SP014606
GF303W35	●		●	●			●		●
GF303W5	●		●	●				●	●
GF403W35	●		●		●		●		●
GF403W5	●		●		●			●	●
GF403WCS5		●	●			●		●	●

# Technical data and ordering codes

## SERIES 3

Flexlite GF		303G	403G	303W	403W
Welding process		MIG/MAG	MIG/MAG	MIG/MAG	MIG/MAG
Contact tip		M10	M10	M10	M10
Type of cooling		Gas	Gas	Water	Water
Type of connection		Euro	Euro	Euro	Euro
Wire diameters (mm)		0.8–1.2	0.8–1.6	0.8–1.6	0.8–1.6
Load capacity (IEC 60974-7)					
35% / Ar + 18% CO <sub>2</sub>		300 A	400 A		
100% / Ar + 18% CO <sub>2</sub>				300 A	400 A
Capture efficiency (ISO 21904-3)					
Minimum extraction flow (m <sup>3</sup> /h)					
Pressure difference (Pa)					
Pistol grip handle		Yes	Yes	Yes	Yes
Remote control option		No	No	No	No
LED option		No	No	No	No
Rotating neck		No	No	No	No
Changeable neck		No	No	No	No
Ordering codes	3.5 m	GF303G35	GF403G35	GF303W35	GF403W35
	5 m	GF303G5	GF403G5	GF303W5	GF403W5 GF403WCS5

## FLEXLITE GF MODELS

Series 3	page
<b>Flexlite GF 303G</b> Load capacity: 300A/35% Cooling: gas Length: 3.5 m / 5 m	 54
<b>Flexlite GF 403G</b> Load capacity: 400A/35% Cooling: gas Length: 3.5 m / 5 m	 55
<b>Flexlite GF 303W</b> Load capacity: 300A/100% Cooling: water Length: 3.5 m / 5 m	 54
<b>Flexlite GF 403W</b> Load capacity: 400A/100% Cooling: water Length: 3.5 m / 5 m	 55

### The name of a Flexlite welding gun tells its properties and use

