EU

EXHAUST EXTRACTION

FILCAR

LINEA MILITARY



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Exhaust extraction Systems for military workshops and military bases.

For over 25 years Filcar has been designing vehicle exhaust extraction systems for military workshops, hangars, NATO bases and armoured-fleet maintenance centres. The 2026 Military Line gathers the most-requested LEV (Local Exhaust Ventilation) solutions: hose reels, articulated arms, sliding rails, dedicated nozzles and MONO workbenches.

Every product is sized to handle diesel engine exhaust under load - CO, NOx, fine particulates - up to 1000°C in HT variants. Materials and geometries are engineered for tracked vehicles, APCs, armoured fleets and gas turbines such as those on the M1 Abrams.





Exhaust Gas Extraction Systems for Military Vehicles: Heavy-Duty Spring-Driven Hose Reels

Heavy-duty mechanical hose reel for exhaust gas extraction from tanks, APCs, and industrial vehicles. Zero electronics, minimal maintenance, and automatic spring-driven hose return. Ceiling or wall mounting

PERFECT FOR

Centralized systems or stand-alone extraction stations within heavy-duty workshops, logistics bases, tracked vehicle depots, and military maintenance centers. The system meets every operational requirement thanks to its thermal flexibility: it can be configured with standard hoses up to 200°C (392°F) for daily maintenance on industrial vehicles and APCs, or in the HT version up to 1000°C (1832°F), specifically engineered to withstand the extreme exhaust gas temperatures of main battle tanks

KEY FEATURE

- Available pipe diameters: from 125 mm to 200 mm
- Available pipe lengths: from 10 to 17 metres
- Standard versions up to 200°C and HT versions up to 1000°C
- Version with or without extractor fan
- 100% mechanical technology: maximum operational efficiency with minimal maintenance requirements





AC–MAXI | AC–MAXI–HT

Heavy-duty hose reel with mechanical spring-return mechanism for exhaust gas extraction. Specifically designed for heavy military vehicles, tanks, tracked vehicles, lorries and vans.

TECHNICAL DATA

Hose diameter	from 125 to 200 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HT	1000°C
Hose actuator	manual



ACA–MAXI | ACA–MAXI–HT

Heavy-duty hose reel with mechanical spring-loaded rewind and a directly coupled extraction unit. Ideal for stand-alone installations, specifically designed for the extraction of exhaust fumes from heavy military vehicles, tanks, tracked vehicles, lorries and vans.

TECHNICAL DATA

Hose diameter	from 125 to 200 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HT	1000°C
Hose actuator	manual
Fan	from 1,5 HP to 3 HP 1,1 Kw to 2,2 Kw

Exhaust Gas Extraction Systems for Military Vehicles: Motorised Reels

Heavy-duty motorized hose reel for exhaust gas extraction from tanks, APCs, and industrial vehicles. Features electric operation via pendant or radio remote control with an integrated electronic limit switch. Completely eliminates manual operator effort, ensuring maximum efficiency. Ceiling or wall mounting.

PERFECT FOR

Centralized systems or stand-alone extraction stations within heavy-duty workshops, logistics bases, tracked vehicle depots, and military maintenance centers. Thanks to its motorized remote operation, it is the ideal solution for high-ceiling installations and large hangars, where it facilitates work and optimizes operator ergonomics on the vehicles. The system can be configured with standard hoses up to 200°C for daily operations on industrial vehicles, or in the HT version up to 1000°C, specifically engineered to withstand the extreme exhaust gas temperatures of main battle tanks.

KEY FEATURES

- Available pipe diameters: from 125 mm to 250 mm
- Available pipe lengths: from 10 to 17 metres
- Standard versions up to 200°C and HT versions up to 1000°C
- Version with or without extractor fan
- Electric-assisted handling: maximum safety at work and no physical strain when handling heavy pipes



AM–MAXI | AM–MAXI–HT



Heavy-duty reel with motorised rewind mechanism for exhaust gas extraction, fitted with a control panel.

TECHNICAL DATA

Hose diameter	from 125 to 250 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HTM	1000°C
Hose actuator	motorized

AMA–MAXI | AMA–MAXI–HT



Heavy-duty hose reel with motorised rewind and a directly coupled extraction unit. Fitted with a control panel. Ideal for stand-alone installations.

TECHNICAL DATA

Hose diameter	from 125 to 250 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HTM	1000°C
Hose actuator	motorized

AMT–MAXI | AMT–MAXI–HT



Heavy-duty reel with motorised rewind mechanism for exhaust gas extraction, complete with remote control.

TECHNICAL DATA

Hose diameter	from 125 to 250 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HTM	1000°C
Hose actuator	motorized

AMTA–MAXI | AMTA–MAXI–HT



Heavy-duty hose reel with motorised rewind and a directly coupled extraction unit. Equipped with a remote control. Ideal for stand-alone installations.

TECHNICAL DATA

Hose diameter	from 125 to 250 mm
Hose length	from 10 to 17 m
Maximum temperature (standard version)	200°C
Maximum temperature HTM	1000°C
Hose actuator	motorized

Versatile extraction systems with wide operating range

Two complementary solutions designed for optimal space management and enhanced workshop ergonomics, free from the constraints of traditional fixed systems.

The **ACCA** mobile extraction unit guarantees maximum operational flexibility. This plug & play system features a lightweight yet heavy-duty aluminum structure, a practical steering handle for maneuvering heavy hoses, and a built-in high-efficiency centrifugal fan. Ready to use, it allows exhaust gases to be captured and expelled outdoors from any point in the facility. The **ECOBP-GAS** articulated arm is the wall-mounted solution engineered for centralized stations. Thanks to its double-lever design, it offers an exceptional operating range (8–9 meters), allowing operators to work at a great distance from walls and columns while completely eliminating hose clutter on the shop floor.

PERFECT FOR

Mechanical workshops and military hangars where floor space management and logistical flexibility are critical requirements. The mobile extraction unit is the ideal ally for emergency interventions, temporary maintenance stations, or for use in isolated areas of the workshop not covered by the main system. Conversely, the wall-mounted articulated arm is the perfect solution for continuous and intensive maintenance lines on heavy and tracked vehicles: its wide aerial operating range allows the extraction nozzle to be positioned at a great distance from walls or columns, keeping the floor completely free of obstructions and ensuring maximum safety for both vehicle transit and personnel.

KEY FEATURES ACCA

- Pipe, 150 mm in diameter
- Maximum hose length: 10 metres
- Maximum temperature 200°C for the ACCA
- Power of the on-board extractor fan: 1.5 HP, 1.1 kW
- 4 swivel castors and a carrying handle
- Aluminium frame

KEY FEATURES ECOBP

- Total arm length 6 metres with central joint
- Pipe diameter from 125 to 200 mm
- Maximum hose length: 5 metres
- Maximum temperature from 200°C to 1000°C
- Version with and without pipe support bracket



ACCA

Plug & play mobile extractor with aluminum structure and hose-handling steering bar. Equipped with a directly coupled fan and 4 pivoting wheels for maximum maneuverability

TECHNICAL DATA

Hose diameter	150 mm
Hose length	Max 10 meters
Vacuum cleaner	1.5hp; 1.1kW
Handling	4 swivel castors (2 of which have brakes)





ECOBP

Heavy-duty hose reel with mechanical spring-return mechanism for exhaust gas extraction. Specifically designed for heavy military vehicles, tanks, tracked vehicles, lorries and vans.

TECHNICAL DATA

Hose diameter	from 125 to 200 mm
Hose length	Max 5 meters
Arm lenght	6 meters



| Sliding exhaust gas extraction systems on track profiles for military workshops.

A modular extruded aluminum infrastructure engineered for exhaust gas extraction on continuous work lines, hangars with moving vehicles, and multi-station depots. The system adapts to specific workshop requirements thanks to sliding elements running along the entire track, available in two configurations: with a mechanical or motorized hose reel for full hose recovery, or with a sliding hose-carrier trolley for a lighter, more straightforward solution.

PERFECT FOR

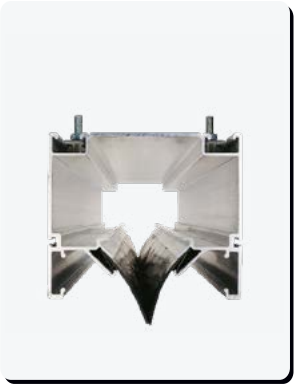
Intensive maintenance and inspection lines where vehicles move in sequence (assembly lines) or military hangars with multi-station layouts. It is the ideal choice for covering long distances with a minimum number of active extraction points, optimizing the investment. The configuration with a mechanical or motorized hose reel is ideal for long-term testing and when total clearance of the overhead space is required after use; the hose-carrier trolley variant is perfect for quick, dynamic interventions along the entire assembly or diagnostics line.

KEY FEATURES

- Highly durable extruded aluminium channel
- Modular lengths: 2, 3, 4 or 6 metres
- Can be mounted on the ceiling or wall.
- Available in two different configurations: with a hose trolley and a hose reel.







XTK

Extruded aluminium channel

TECHNICAL DATA

Module lenght	2-3-4-6
Maximum temperature (standard version)	200°C



ACXT – AMXT

Sliding cable reel on a track, designed for standard cables with a temperature rating of 200°C.

TECHNICAL DATA

Hose diameter	from 125 to 200 mm
Hose lenght	from 7 to 13 mt
Maximum temperature (standard version)	200°C
Hose rewind	motorised or spring-driven



CSXTK

Sliding hose trolley.

TECHINCAL DATA

Hose diameter	from 125 to 200 mm
Hose length	from 5 to 13 mt
Maximum temperature (standard version)	700°C
Barbell	available





Special extraction nozzles for military and heavy-duty

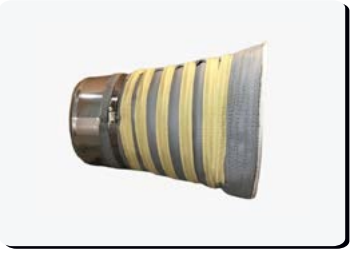
The crucial link between the extraction system and the vehicle. Filcar designs and develops customized, hi-gh-engineered solutions tailored to fit the unique and complex exhaust geometries of armored vehicles (both tracked and wheeled). Manufactured from materials featuring extreme thermal and mechanical resistance, these extraction nozzles integrate quick and secure clamping systems (magnetic, clamp, or sleeve connections), ensuring an optimal seal during routine engine tests and maintenance operations in the workshop.

PERFECT FOR

Exhaust gas extraction across any type of military fleet. The various geometric configurations and special clamping systems are developed both to couple with the complex exhaust systems of combat vehicles and main battle tanks (Leopard, Abrams, Dardo, Ariete, Centauro), and to fit perfectly onto the standard exhausts of logistics trucks, cargo transport vehicles, light tactical vehicles, and military vans. The ideal solution for multi-purpose hangars and military depots that require maximum versatility and the total absence of harmful fumes during diagnostics, maintenance, and repair operations for the entire vehicle fleet.







BHT–280

Aluminised glass fibre vent for large-diameter exhausts.

TECHNICAL DATA

Available temperatures	400-700°-1000°C
Inlet diameter	200-280mm
Pipe connection diameter	125-150-200mm



BO–T–HT

Steel air nozzle on a height- and angle-adjustable arm, suitable for multiple fleets, available with or without floor-mounted magnetic clamps

TECHNICAL DATA

Available temperatures	1000°C
Inlet diameter	340x180
Pipe connection diameter	150-200mm



BOC. LEOPARD

A specific exhaust tip designed for Leopard exhaust systems.

TECHNICAL DATA

Available temperatures	1000°C
Inlet diameter	Specifically for Leopard
Pipe connection diameter	200mm



BOC. MAGNETI

Universal steel nozzle for various tanks, with magnets and a quick-connect fitting.

TECHNICAL DATA

Available temperatures	1000°C
Inlet diameter	260x260mm
Pipe connection diameter	200mm

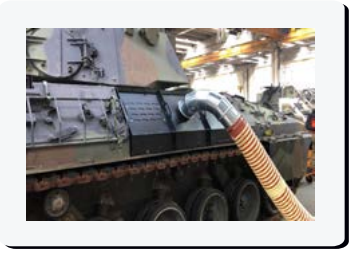


BOC. ABRAMS

Steel mounting system specifically designed for the M1 Abrams

TECHNICAL DATA

Available temperatures	1000°C
Inlet diameter	Specifically for Abrams
Pipe connection diameter	200mm



BOC. DARDO

Steel mounting system designed specifically for DARDO

TECHNICAL DATA

Available temperatures	1000°C
Inlet diameter	Specifically for Dardo
Pipe connection diameter	200mm

| MONO: The modular workbench for workshops and professional spaces

MONO is a modular, customisable workbench that transforms a standard workshop worktop into a personalised professional workstation. Thanks to its smart, compact design, it adapts easily to the environment and production requirements, offering functionality and performance in a compact footprint. The workbench forms the basis of the system.

PERFECT FOR

Outfitting field workshops, mobile shelters, workshop containers, and military maintenance departments where space optimization is vital. The MONO bench is the ideal choice for creating autonomous, “plug & play” workstations, ready for immediate use without requiring fixed ducting or centralized overhead systems. It is perfect for any work area where a heavy-duty surface is essential for executing a wide range of mechanical tasks or component servicing. By seamlessly integrating onboard energy utilities and reels (compressed air, electricity, etc.), it consolidates everything the operator needs into a single, self-contained unit, completely eliminating floor clutter and trailing cables.

KEY FEATURES

- Available in three widths: 100, 150 and 200 cm
- Versions with adjustable and fixed-height legs:
- 3 mm thick steel top with safety edges or standard open edges
- Top coverings available in sheet metal or rubber to withstand stress and wear.
- The self-supporting wall-mounted structure and rear closure make it perfect for free-standing installation in any space.
- Wide range of accessories available, such as perforated panels, recessed electrical sockets, doors and drawers.





ELCOMP001–BASIC

Entry-level MONO bench with containment-edge top and single-drawer module.
The essential heavy-duty station, ready to grow.

TECHNICAL DATA

Dimensions	1500x700x1473
Hose lenght	Fixed
Storage unit	1 Drawer



ELCOMP003

2-metre MONO bench with containment-edge top and full fit-out: 3-drawer unit, door module and door-drawer module.

TECHNICAL DATA

Dimensions	2000x700x1473
Hose lenght	Fixed
Storage unit	3-drawer chest + door unit + door-and-drawer unit



ELCOMP005

Top-of-range MONO bench with height-adjustable top and full fit-out: 3-drawer unit, door, door-drawer module, wall cabinet, shelves and LED lighting kit.

TECHNICAL DATA

Dimensions	2000 x 700 x 2030-2405 mm
Hose lenght	Adjustable
Storage unit	3-drawer chest + door unit + door-and-drawer unit



ELCOMP007

MONO bench with height-adjustable top, standard open top and single-drawer module. Free access on all sides for large workpieces.

TECHNICAL DATA

Dimensions	1500 x 700 x 705-1080 mm
Hose lenght	Adjustable
Storage unit	1 Drawer

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