TOOLS CATALOGUE 2017



www.mgftools.com www.nebulizzare.com

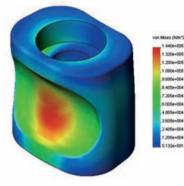


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MGF Engineering System





We believe that the focus is man. **Thus the plumber is the pivot in our engineering process**. We want to understand his needs, conscious that the building site works it is hard and difficult.

Only after that we start an integrated development cycle to transform plumbers problems into solutions, and solutions into working tools.

For these reasons the engineering process is all internal. Our customer service starts here.

Mechanical Engineering

We dedicate a particular attention to the mechanical engineering of our tools.

We perfectly know that in the building site each tool is stressed at its limits, and that every plumber desires a **robust tool** first of all.

Thus we study the mechanical strains in each component, to reinforce it only where it's necessary and to keep it **light and strong**.

In the picture at left you see the study of the slide frame strain test in a bending tool during a multilayer pipe bending.

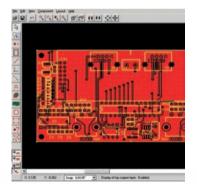
Electronic Engineering

"Power is nothing without control".

MGFTools designs also electronic circuits driving the best performing tools. In our tools electronic control is the way to produce simpler, smarter and intelligent machines.

Our control systems are tailor made on plumber needs, nothing coming from other applications adapted with a cosmetic make-up.

On this left image, the electronic control circuit of our concrete heating device **MGF** Vulcano.



PCB Design

PCB design is also strategic for our customer service mission.

Putting the plumber in the middle of our engineering process, we know that one of the most requested feature is the **compact size**, specially for the control devices.

In this image at left an engineering phase for a new prototype of a maintenance tool.



Design for Assembling

Last but not least is "put everything together".

Every component has a specific function, as in the human body, and everyone is functional to the common objective.

Assembling is the final step, when **customer demand** finally becomes a **smart solution**.

Above all, we know that in the hard life of the construction site, the **easiest maintenance** is fundamental: also in this case the assembly design meets the most demanding plumber.



MGF Manufacturing System

We design mechanical and electronic components of our machines and tools, i.e. the concrete screed heater **MGF** Vulcano, or the plumber multimeter **MGF** Amico, the drain clearing pumps, the flushing pumps.

We make, in North italy, Parma located facilities, all our plastic and metal components.

We assemble and test the machines in all the final step, as well as we build the control circuits.

All these competences are strategic to be flexible and fast in the technology development and in the product improvement.



The most important aspect is the speed of the continuous improvement we deserve to our products, to satisfy the most demanding professional plumbers.

Last but not least, we invest and we still invest in our facilities in Italy, when all our competitors are bringing the manufacturing plants outside Europe: **we proudly sustain the made in Italy**



www.mgftools.com

MGF : quality management and services



Quality Checks along the whole process

During the **production process**, we perform repeatability checks on machine tools (automatic probes too), and non-compliant parts are discarded immediately.

Within the departments checklists are prepared to guide our technicians in accurate and detailed testing.

At the end of the production process, in the assembly lines, we carry out a simulation of the functionality of the machine, using electronic automated systems to perform accurate and detailed datalogging and prevent human errors.

Only at the end of this process, we proudly brand our innovative products with $\ensuremath{\mathsf{MGF}}$ logo.

And in the unlikely event that a problem should emerge after the sale, we offer a fast and efficient technical assistance.

Only through collaboration with customers we can get the best from our products.

For this we take care of the **technical service**, either as an added value for our customers, and as a tool for analysis and continuous product improvement.

MGF sales network: a winning team at your service

The **MGF** sales network employs a team of professionals commercially and technically motivated and guided by a lean organization able to identify customer needs and to suggest the best solution to satisfy them.

Each **MGF** agency works with a team of sales managers who perfectly know every product and are equipped to demonstrate the products on the field.

For these reasons our sales network offers to the market an high value-added service package that our customers acknowledge and appreciate.

MGF official distributors: transparent and long lasting win2win partnerships

MOF works with several retailers, distributors and purchasing groups in Italy and Europe and always offers new strategies and commercial incentives.

A clear trade policy, consistent and respectful of partners, even to the detriment of turnover, has always distinguished us.

Together with the commercial services offered, the commercial partnership with our group is certainly successful and has several advantages and added values.

The sales-technical **MGF** training courses, qualifying and useful

MGF organizes free training courses on various levels, for plumbers, sales people, agents, service centers.

The revamped headquarters now includes two multimedia equipped meeting rooms, and a permanent showroom where products not only can be touched, but can also be tested.

In addition to the extensive documentation available on www.mgftools.com site, we offer specific training documentation.



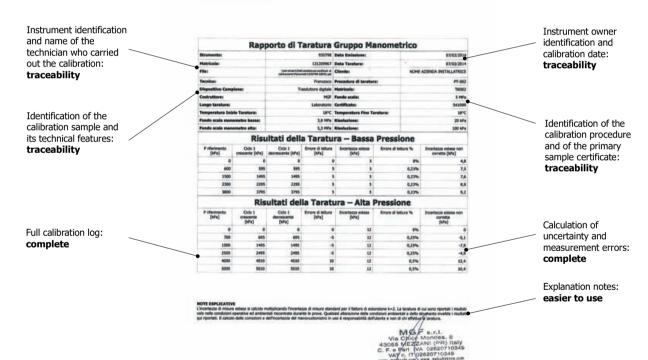
MGF calibration service for your peace of mind

MGF Metrological Laboratory offers a calibration service with the following features:

- The calibration procedure for each instrument is the same procedure suggested by LAT, italian commitee, to ensure the quality of the service offered. All this has a cost, but it provides the certainty of "sleep soundly"
- The measuring samples have a certified traceability. In practice, our samples are traceable to the universally recognized primary measurement standards.
- The calibration laboratory is air-conditioned throughout the year: it is known that changes in temperature affect the measured value. What sense does calibrating a pressure gauge reading a wrong value?
- The tool under calibration is in fact stabilizing according to the times and in the manner required by the procedure. For example, for a refrigerant gas scale remains equalizing for 12 hours before the calibration. How to calibrate seriously in an hour, as others do?
- We compare ourselves with certification authorities to be sure that the reports provided comply with the strictest specifications required regulations.

Features and Benefits





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Calibrations Certificates

Comparative Tests

Mitutoyo

		-	
Art.	Description	Art.	Description
RT_BIL	Scale Calibration Certificate	PC_BIL	Scale Comparative Test
RT_CER	Leak Detector Calibration Certificate	PC_CER	Refrigerant Leak Detector Compartive Test
RT_DIN	Torque Wrench Calibration Certificate	PC_DIN	Torque Wrench Comparative Test
RT_MAN	Pressure Gauge Calibration Certificate	PC_MAN	Pressure Gauge Comparative Test
RT_TER	Termometer Calibration Certificate	PC_TER	Termometer Comparative Test
RT_REN	Calibration Certificate Editing	PC_REN	Comparative Test Editing

Massimo Rossi 0-125 1 Lite **2011 Italian Champion** PANIZ 2016 World Champion 250 2016 World Champion 350 MCF www.nebulizzare.com NAME 24 MOF

Ivan Copelli – 3° WORLD placed – 350 class

MGF Racing Team uses MGF Tools

Benders

"One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man."

Elbert Green Hubbard (1856-1915)

CM Benders

For copper and multilayer pipes up to 26mm



Art.	Bender in a case with a set of formers
902300	10, 12, 14, 16, 18, 20, 22 mm
902500	16, 20, 26 mm
902399	12, 15, 18, 22 mm
903100	3/8", 1/2", 5/8", 3/4", 7/8"
9023XX-PM	Bender (machine only, no case)

Coated copper Multilayer Steel

Weight Dimensions Packing Ø 10-22 mm (s \leq 1) Ø 3/8"-7/8" Ø 10-22 mm (s \leq 1) Ø 3/8"-7/8" Ø 10-18 mm (s \leq 1) Ø 14-26 mm

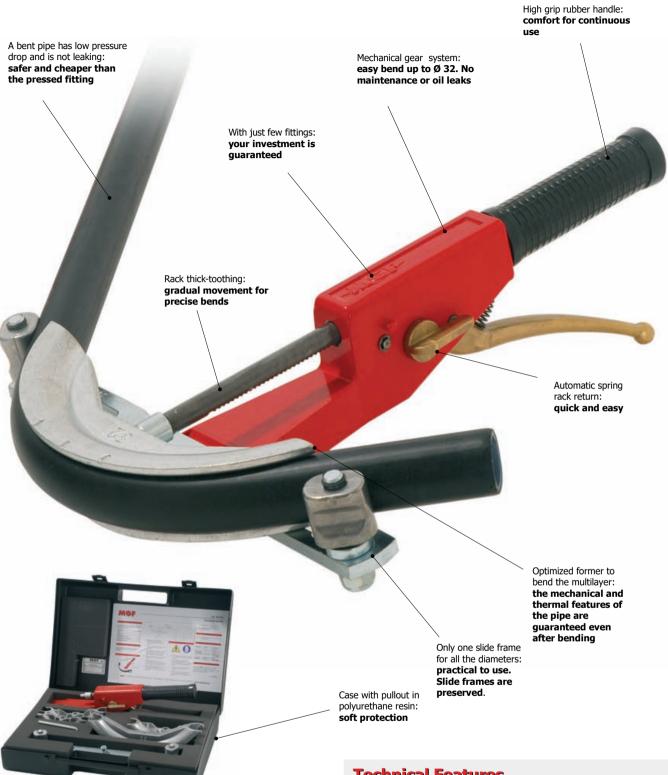
1,8 Kg 390 x 318 x 1114 mm PVC molded case





ALPEM

Manual bender for multilayer pipes up 32mm



Art.	Bending set with formers and PVC molded case
902904	16, 20, 26 mm
902900	16, 20, 26, 32 mm
902902	16, 20, 25, 26, 32 mm
902910	16, 18, 20, 25, 32 mm
9029XX-PM	ALPEM bender (only machine, without case)

Technical Features

Annealed copper
Covered copper
Multilayer Steel
Weight Dimensions

Packing

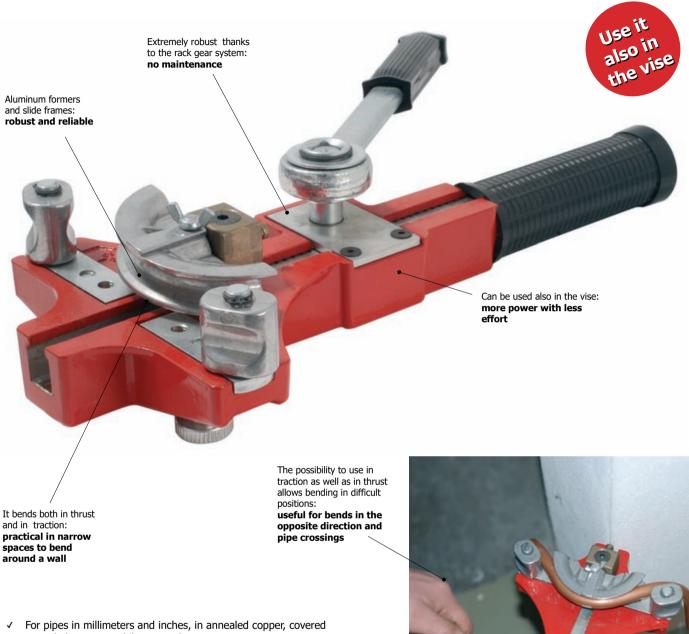
Ø 10-22 mm (s ≤ 1) Ø 3/8"-7/8" Ø 10-22 mm (s \leq 1) Ø 3/8"-7/8" Ø 10-18 mm (s \leq 1) Ø 14-32 mm

1,8 Kg 430 x 310 x 110 mm PVC molded case



MASTER Benders

Bender for steel, copper and aluminium, also with insulation, up to 22mm



- For pipes in millimeters and inches, in annealed copper, covered annealed copper, multilayer, steel.
- \checkmark It reduces installation expenses and costs for fitting storage.
- A non-jointed line is safer, has fewer pressure drops and breaking points and is less expensive.
- ✓ Quick and professional execution thanks to the calculation system of bend geometry.
- ✓ Wide range of formers compatible with all the **MGF** range.
- Patented former to bend pipes with soft covering, also for conditioning.

Art.	Bender in a case with a range of formers
902000	10, 12, 14, 16, 18, 20, 22 mm
902000-PM	MASTER bender (machine only, no tools or jack)
916200	1/2" ratchet for MASTER

Technical Features

Annealed copper

Coated copper

Multilayer

Steel

Weight Dimensions Packing \emptyset 8-22 mm (s \le 1) \emptyset 3/8"-7/8" \emptyset 8-22 mm (s \le 1) \emptyset 3/8"-7/8" \emptyset 8-18 mm (s \le 1) \emptyset 14-22 mm

2,2 Kg 390 x 300 x 100 mm PVC molded case

Formers for all MGF Benders

Compatible with CM, M373/P373, ALPEM, MASTER

Die-cast aluminum formers, can be used on copper just annealed: are everlasting and do not wear out

Wing screw for fixing the former: more efficient and safe working Interchangeable and compatible with the CM, ALPEM and MASTER benders: reduces the cost of the investment



Perfect for HVAC piping: bends pre-insulated copper pipes, without bottlenecks

Millimeter Size Formers

Art.	Ext. Diameter	Radius	Art.	Ext. Diameter	Radius	Art.	Ext. Diameter	Radius
281298	8 mm (only Master)	28 mm	281307	17 mm	60 mm	281310	26 mm	91 mm
281299	10 mm	35 mm	281303	18 mm	69 mm	281315	32 mm	132 mm
281300	12 mm	40 mm	281304	20 mm	76 mm	281313	40 mm	182 mm
281301	14 mm	48 mm	281305	22 mm	88 mm	281314	50 mm	230 mm
281306	15 mm	50 mm	281308	24 / 22 mm insul.	88 mm	281311	M373 (10-16 insul.)	70 mm
281302	16 mm	58 mm	281312	25 mm	91 mm			

Inch Size Formers

Art.	Ext. Diameter	Radius	Art.	Ext. Diameter	Radius
281350	3/8″	35 mm	281352	5/8″	58 mm
281351	1/2″	48 mm	281353	3/4″	69 mm

Art.	Ext. Diameter	Radius
281354	7/8″	88 mm
281320	P373 (3/8''-7/8'' insul.)	69 mm

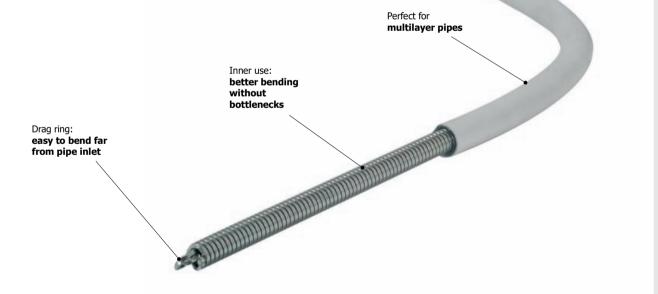


Spring Benders – Outer Use For annealed copper pipes



Art.	External Diam.	Lenght	Weight	Art.	External Diam.	Lenght	Weight	Art.	External Diam.	Lenght	Weight
903301	8 mm, 5/16″	250 mm	0,06 Kg	903306	16 mm, 5/8″	290 mm	0,22 Kg	903307	1/4″	250 mm	0,06 Kg
903302	10 mm	290 mm	0,08 Kg	903311	18 mm	290 mm	0,30 Kg	903308	3/8″	285 mm	0,08 Kg
903303	12 mm	290 mm	0,12 Kg	903323	20 mm	290 mm	0,35 Kg	903309	7/16″	260 mm	0,12 Kg
903304	14 mm	290 mm	0,20 Kg	903312	22 mm	290 mm	0,45 Kg	903310	1/2″	290 mm	0,20 Kg
903305	15 mm	270 mm	0,20 Kg					903313	3/4″	250 mm	0,35 Kg

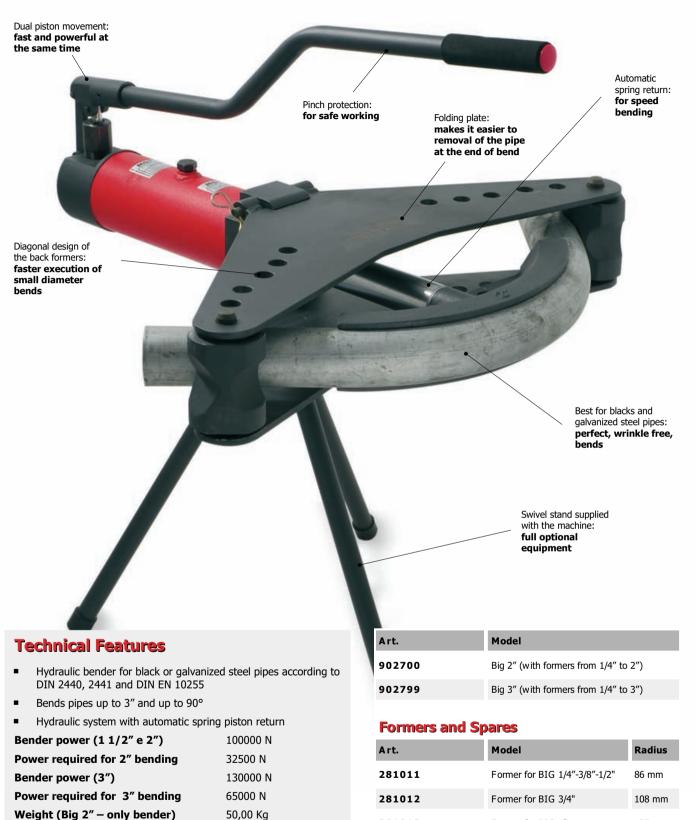
Spring Benders – Inner Use For multilayer pipes



Art.	Inner Diam.	Spring Lenght	Pipe 14x2	Pipe 16x2	Pipe16x2,2	Pipe 18x2	Pipe 20x2	Pipe 20x2,5	Pipe 26x3	Pipe 32x3	Weight
903332	10mm	500mm	•		•						0,35 kg
903333	12mm	500mm		•		•					0,35 kg
903334	14mm	500mm						•			0,40 Kg
903335	16mm	500mm					•				0,40 Kg
903336	20mm	500mm							•		0,40 Kg
903337	26mm	500mm								•	0,40 Kg

BG

Bender for steel and galvanized steel pipes up to 3"



281013

281014

281015

281016

281017

790030

Former for BIG 1"

Former for BIG 1 1/4"

Former for BIG 1 1/2"

Former for BIG 2"

Former for BIG 3"

Hydraulic Oil (1 L)

Professional Plumbing Tools

135 mm

170 mm

193 mm

242 mm

358 mm

Weight (Big 3" - only bender)

Bender size (Big 2")

Bender size (Big 3")

Box weight (2")

Box weight (3")

Oil type

Box

60,00 Kg

75 Kg

120 Kg

Wooden box complete with formers and slide frames

hydraulic

500 x 130 x 130 mm

560 x 140 x 140 mm

FIBERGLASS Bend To bend up to 180°		-	
 For pipes in soft copper, aluminum and soft steel Perfect for: HVAC, plumbing and hydraulic piping installation Bender made in composite material, resistant and light Thanks to the extreme resistance of this composite material, it is possible to bend with extremely small bending radius even steel pipes up to 10 mm. Weight 0,36 Kg 250 x 60 x 100 mm 	Composite, extra sliding material: bending radius is minimum internet of the state of the stat	Bends 7 diff universal	rerent diameters:
Art. Model	Bending radius	Weight	Dimensions

15 mm (diam 4-6) – 25 mm (diam 8-10)

0,365 Kg

CLASSIC Benders

Fiberglass bender (4, 6, 8, 10, 1/4", 5/16", 3/8")

To bend up to 180° and 16 mm (5/8")

Technical Features

902800

- For pipes in soft copper, aluminum . and soft steel
- Aluminum bender, robust and lightweight -
- Movable hook for the pipe, to make
- bending operations easier
- Possibility to use in vise

Weight	According to model
Dimensions	According to model

Former with goniometer 0/180°: accurate bend without calculation

> Movable hook: easier bends

Bends up to 180°: the former allows very close and complex bends

250 x 60 x 100 mm

	easier	benus		complex bends
Art.	Model	Bending radius	Weight	Dimensions
903299	Classic Bender 6 mm	18 mm	0,508 Kg	300 x 70 x 30 mm
903298	Classic Bender 8 mm (5/16")	24 mm	0,600 Kg	350 x 70 x 30 mm
903297	Classic Bender 10 mm	30 mm	0,905 Kg	490 x 170 x 40 mm
903296	Classic Bender 12 mm	36 mm	0,901 Kg	350 x 120 x 30 mm
903295	Classic Bender 14 mm	47 mm	1,115 Kg	430 x 120 x 40 mm
903294	Classic Bender 15 mm	54 mm	1,100 Kg	440 x 120 x 40 mm
903293	Classic Bender 16 mm (5/8")	58 mm	1,100 Kg	490 x 120 x 50 mm
903292	Classic Bender 1/4"	18 mm	0,480 Kg	300 x 70 x 30 mm
903291	Classic Bender 3/8"	30 mm	0,867 Kg	320 x 90 x 40 mm
903290	Classic Bender 1/2"	42 mm	1,300 Kg	430 x 150 x 40 mm

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Benders



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Pressfitting Tools

"If I had my life to live over again, I'd be a plumber."

Albert Einstein (1879-1955)

iPress MINI

Battery powered pressing tool



Pressing with 18V/1,3 Ah battery with constant thrust force for nominal diameters depending on the system up to 32 mm

- ✓ Quick pressing thanks to short pressing cycle of 3-4 seconds
- ✓ Extremely short charging time of just 15 minutes
- \checkmark Time saved when multiple pressing by means of automatic piston return
- ✓ Very high safety factor based on "Quickstop" function
- ✓ Precise pressing force thanks to HPC pressure monitoring with audible signal
- ✓ Long battery and tool service life thanks to "Autostop" after the pressing operation

Technical Features

Thrust force	Linear thrust of approx. 15 kN
Battery	Makita 1,3 Ah Li-Ion high efficiency
Jaw holding head	Approx. 350° rotating
Charging time	15 minutes
Pressing battery charge	approximately 150 (for DN20)
Machine weight	1,7 Kg – 2,5 Kg (with jaw)
Dimensions	377 x 75 x 116 mm (Lenght x Width x Height)



iPress MINI

Battery powered pressing tool





AUTO



iPress MINI To work in reduced spaces







The pressing machine you can use wherever you want

Models and Accessories

Art.	Model	Weight
900997	iPress MINI battery powered pressing tool	1,7 Kg
730009	Mains adapter 230V-18VDC	0,6 Kg
730000	iPress by Makita battery charger	1,0 Kg
730001	iPress MINI-AX 18V-1,3Ah battery	0,4 Kg

Applications

Stainless steel, steel	max.
Copper, copper alloys	max.
Multi-layer composite pipe	max.
PEX pipes	max.

* These values are pressfitting system related. Please contact your fitting supplier for binding information.

Safe and controlled pressing: Hydraulic Pressure Check

Hydraulic Pressure Check, HPC for short, monitors the oil pressure in the tool's hydraulic circuit, hence ensuring a continuous, consistent press quality. During each pressing cycle, the achieved pressing pressure is determined by a pressure sensor and compared to the required minimum value. An optical and audible warning signal indicates if the achieved pressure differs from the specified working pressure.

The user will know immediately that the corresponding pressing location must be checked and repressed or replaced as required.

If three consecutive pressing occur outside the required pressure range, the tools switch off automatically and must be sent in for service. This additional safety function has been requested by our customer and system partners, offering more safety as you work.



DN22* (DN28 upon request)

DN28* DN32* DN32*

Jaws for i-Press MINI

- Compatible with all the pressing tools homologated by the system supplier
 - High corrosion protection through special finish
- Optimum safety thanks to the machining of tool steel for high stress
- Easy distinction between the profiles for reasons of system using different surfaces colors

Profiles marking: proof of the used jaw

Minimal wear: induction hardening on the point that wear **Easy pairing**: diameter and profile on the jaw

Discover all the jaws and Dies for iPress MINI from 20 page or on MGF website



MINI Jaw for iPress MINI pressing machine

Interchangeables Dies for Universal MINI jaws



Universal MINI jaw for interchangeable Dies



MINI Jaws, Universal MINI Jaws and Dies

for iPress MINI MGF Tools by Klauke





MINI Jaws Profiles: TH, M, V, H e U

Why **MGF** is the best buy:



Universal MINI Jaws for Interchangeable Dies Several profiles with only one Jaw





Interchangeable Dies Profiles suitable for MINI jaws with inserts

Jaws made with special tools steel, forged and hardened, to guarantee long lasting over time

- Thanks to additional induction hardening in points subject to wear and tear, the 7 insertion bevels and profile geometry, the quality of the Klauke jaws has become legendary
- Easy pairing of jaws and profiles thanks to the codes with nominal diameters, 7 profile and manufacturing data
- High corrosion protection through special coating 1
- Technical support performed directly from MGF 7

MINI KLAUKE JAWS

Technical Features

Fittings in Steel / Special Steel	max. DN22
Fittings in Copper / Copper Alloys	max. DN28
Fittings for Multilayer / PEX	max. DN32



MINI Jaw Available with profiles: TH, M, V, H and U

Diameter and profile on the jaw: easy matching

Used jaw proof: profiles are marked

Art.	Model
281650	MINI Jaw Klauke with profile TH 14
281651	MINI Jaw Klauke with profile TH 16
281652	MINI Jaw Klauke with profile TH 18
281653	MINI Jaw Klauke with profile TH 20
281654	MINI Jaw Klauke with profile TH 26
281655	MINI Jaw Klauke with profile TH 32
281660	MINI Jaw Klauke with profile M 12
281661	MINI Jaw Klauke with profile M 15
281662	MINI Jaw Klauke with profile M 18
281663	MINI Jaw Klauke with profile M 22
281664	MINI Jaw Klauke with profile M 28
281675	MINI Jaw Klauke with profile V 12
281676	MINI Jaw Klauke with profile V 14
281671	MINI Jaw Klauke with profile V 15
281677	MINI Jaw Klauke with profile V 16
281672	MINI Jaw Klauke with profile V 18
281673	MINI Jaw Klauke with profile V 22
281674	MINI Jaw Klauke with profile V 28
281656	MINI Jaw Klauke with profile H 16
281657	MINI Jaw Klauke with profile H 20
281658	MINI Jaw Klauke with profile H 26
281640	MINI Jaw Klauke with profile U 16
281641	MINI Jaw Klauke with profile U 20
281642	MINI Jaw Klauke with profile U 26
281643	MINI Jaw Klauke with profile U 32



KLAUKE MINI UNIVERSAL JAWS for Dies and Interchangeable Dies

	M . 1.1
Art.	Model
281796	Klauke MINI Universal Jaw for Inter. Dies
Art.	Model
281716	TH 14 Die for Klauke MINI Universal Jaw
281717	TH 16 Die for Klauke MINI Universal Jaw
281718	TH 18 Die for Klauke MINI Universal Jaw
281719	TH 20 Die for Klauke MINI Universal Jaw
281720	TH 26 Die for Klauke MINI Universal Jaw
281721	TH 32 Die for Klauke MINI Universal Jaw
281722	V 15 Die for Klauke MINI Universal Jaw
281723	V 18 Die for Klauke MINI Universal Jaw
281724	V 22 Die for Klauke MINI Universal Jaw
281725	V 28 Die for Klauke MINI Universal Jaw
281644	M 12 Die for Klauke MINI Universal Jaw
281645	M 15 Die for Klauke MINI Universal Jaw
281646	M 18 Die for Klauke MINI Universal Jaw
281647	M 22 Die for Klauke MINI Universal Jaw
281648	H 16 Die for Klauke MINI Universal Jaw
281649	H 20 Die for Klauke MINI Universal Jaw
281659	H 26 Die for Klauke MINI Universal Jaw
281665	U 16 Die for Klauke MINI Universal Jaw
281669	U 18 Die for Klauke MINI Universal Jaw
281666	U 20 Die for Klauke MINI Universal Jaw
281667	U 26 Die for Klauke MINI Universal Jaw
281668	U 32 Die for Klauke MINI Universal Jaw

Manufactured with special steel forged and hardened: legendary robustness

Additional induction hardening in points subject to wear: an investment that lasts



Universal MINI Jaw for Interchangeable Dies One Jaw, Many Profiles to Press

Changing the only Die, it's possible to press several different profiles: save money

Wear protection thanks to the special surface finish: long lasting investment





interchangeable adapter to be applied on the universal jaws Available with pressing profiles TH, V, M, H and U

Composite material: light, handy and non corrosive Adjusts the pipe Deburring, chamfering and diameter and calibrating in the same rounds it up: operation: fast and excellent professional without pressfitting gaskets damaging connection Composite material: light, handy and non corrosive Adjusts the pipe diameter and rounds it up: Each set is including 2 tools with a wide excellent working range: pressfitting connection complete for all sizes Pressfitting Calibrating Tools Set

Pressfitting Deburring and Calibrating Tools

Deburring and Calibrating Tools

Cutting edge made in special hardened steel, black finished with fiberglass handle. Sizes are laser marked on the single steps Patented ratchet system (optional)

Art.	Model
900954	Deburrer Calibrator 16x2 - 20x2 - 26x3 - 32x3
900955	Deburrer Calibrator 16x2 - 20x2,5 - 26x3 - 32x3
900957	Deburrer Calibrator 16x2,25 - 20x2,5 - 26x3 - 32x3
900953	Ratchet Deburrer Calibrator 16x2 - 20x2 - 26x3 - 32x3
900958	Ratchet Deburrer Calib. 16x2,25 - 20x2,5 - 26x3 - 32x3
900956	Ratchet Deburrer Calib. 16x2 - 20x2,5 - 26x3 - 32x3

Calibrating Tools Set with 2 different working ranges:

- 14x2 16x2 18x2 20x2 26x3 32x3 1 16x2,25 - 20x2,5 - 25x2,5 - 32x3 - 0x3,5 √
- Art. Model

900952

iPress MEDIUM

Battery Powered Pressing Tool





iPress MEDIUM Battery Pressing Tool



ZERTIFIKAT

Immediate stop in case of need and depending on the application

In unclear situations during a pressing operation, for example when incorrect fitting or an incorrect pressing jaw are used, the immediate "**Quickstop**" function enables rapid reaction.

As soon as the push button is released, the tools comes to an immediate standstill without even the slightest follow-up movement. So that the user can make the necessary corrections without delay.

The "Autostop" after pressing tells the user that the pressing operation has finished.

This function also reduces tool wear and prolongs battery life.

Electronic control for optimum benefit

The generation of these tools is equipped with a robust, construction site standard electronic system.

This system provides the user with all important information on machine status, pressing result and battery power.

The information is output via a light diode or an audible signal:

- When 20% battery power remains: Visual LED signal
- Service notification: Visual LED signal
- Pressure deviation: Audible signal, buzzer

Key data such as the tool's year of manufacture, serial number, revision status of the integrated machine parts, number of pressing cycles and the last or next service are also evident for our Service Center, hence guaranteeing the best possible service result.



Pro-environmental high-quality synthetic oils for optimum functionality

Not only the technology and electronics have been revised, but closer attention has been paid also to environmental issues: MGF uses exclusively synthetic hydraulic oils in its new tools. These oils are highly bio-degradable and harmless to water. Furthermore, these hydraulic oils are tested to the most stringent standards available worldwide.







Models and Spare Parts

Art. Model Weight 900996 iPress MEDIUM battery pressing tool 3,5 Kg 640006 PVC molded case f/ iPress Medium 3,7 Kg 730000 iPress battery charger 1,0 Kg 730002 iPress MEDIUM battery 0,6 Kg 730009 Mains adapter 230V-18VDC 0,6 Kg

Working Range

Special steel, steel	max. DN54*
Copper, Copper alloys	max. DN54/108/4"*
Multilayer pipes	max. DN75/110*
PEX pipes	max. DN75*

* Supplied data depend on the used system. Please contact your system supplier for binding information



- ✓ High safety factor based on "**Quickstop**" function
- ✓ Easy to use with only one hand, also thanks to its reduced weight to work without effort
- ✓ 230 VAC supply with power cord
- Flexible and convenient thanks to standard interchangeable jaws
- Thrust ForceApproximately 32 kN linearJawholderApproximately 350° rotatingSupply230VAC mainsPressing Time5 secondsPressing Tool Weight3,5 KgDimensions350 x 81 x 260 mm
(Length x Width x Height)



Klauke MEDIUM

Electric Pressing Tool



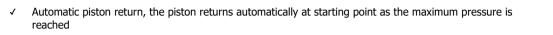
Lighting fast pressing: only 5 seconds, we know that your time is money.

Technical Features



350°





- In unclear situations during a pressing operation, for example when incorrect fitting or an incorrect pressing jaw are used, the immediate "Quickstop" function enables rapid reaction. As soon as the push button is released, the tools comes to an immediate stand still without even the slightest follow-up movement. So that the user can make the necessary corrections without delay
- ✓ Flexible and convenient thanks to interchangeable jaws (*look at page 26* MGF Plumbing Tools Catalogue)
- With Klauke MEDIUM pressing machine it is possible to work with only one hand thanks to its design and reduced weight
- ✓ Electric pressing tool 230 V power supply. The tool allows to work without stops for charging the battery
- Comfortable to use everywhere with strong steel case with foam insert to protect it from impacts and uncomfortable environments
- For further technical infos you can download the manual from the following website www.mgftools.com/it/downloads-mgftools

Applications

- Stainless steel, steel: max. DN54*
- Copper, copper alloys: max. DN54/108/4"*
- Multi-layer pipe: max. DN75/110*
- **PEX pipe**: max. DN75*
- * These values are system-related.

Please contact your system supplier for binding information



230V Power Supply Without stops for recharging the tool



Klauke MEDIUM pressing tool for copper pressfitting system



Klauke MEDIUM pressing tool for stainless steel press fitting systems

- Flexible and convenient: thanks to standard interchangeable jaws
- Work without efforts: thanks to its reduced weight
- ✓ You can use it with only one hand: easy to use
- ✓ **Power Supply**: 230 VAC with power cord

Model and spares

Art.	Model	Weight
900995	Klauke MEDIUM Electric Pressing Tool	3,5 Kg
640007	Steel Case with Foam Insert	8,0 Kg

Working Range

Stainless steel, steel	max. DN54*
Copper, copper alloys	max. DN54/108/4''*
Multi-layer pipes	max. DN75/110*
PEX pipes	max. DN75*

* These values are system-related.

Please contact your system supplier for binding information

MGF Jaws for Press Fitting Systems

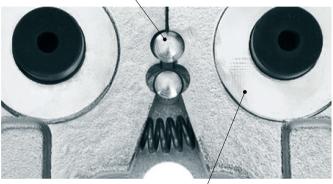
Full Range, Interchangeable with all Tools. Discover the Advantages of the Perfect Jaw

MGF jaws are manufactured with advanced technologies, to ensure:

- Best pressing precision: to ensure fittings without leaks and pressing in compliance with manufacturers specifications
- Plumber safety: working without risk of injury its our first objective, and it shall be avoided to mistake the profile
- Investment return: because any work tool has to stay for many years in the plumber's toolbox, endure hardship of the construction site and be cheap!

The quality of our jaws is pointed out by many features: long life is guaranteed by the ruggedness of the design, materials and workmanship. Making our products easy to use, we avoid mistakes and we make the presssing experience simpler. Using the best materials and special steels we increase the value of your investment.

Jaw synchronization system: maximum precision coupling, for perfect pressing



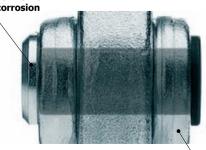
3D coordinate measuring tests performed on each profile: **best precision**, **compliance to stricter system manufacturer specifications**

Double induction hardening: **long lasting profile dimensions**



All the components are made in special forged steel: **robust and safe**

All components are galvanized: **best** resistance in time against corrosion



Constant cross section pivot: **no weak points**

Best Precision Pressing

Thanks to the **jaw syncronization system**, the perfect coupling of the jaws ensured the best dimensional quality in the pressing process.

Pressing profiles are machines with **high precision CNC machines**, and they are tested by **3D coordinate measuring machines**, to ensure the compliance to the stricter specifications by the best system manufacturers in the world.

Each profile is **double induction hardened**, to ensure the best wear resistance and, most important, to keep the profile dimensions over the time.

Plumber safety first: to work without injury risks

All components are first made with **special forged steels**, unlike the competition that sometimes uses molded parts, or more cheap and weak machined components.

The jaws then face a **double induction hardening process** only in the points subject to wear, which ensures an optimum distribution of stresses within the jaw, avoiding breaking risks and ensuring more compact and light parts, to work easier in narrow spaces.

Each jaw is also equipped with **clear and indelible mark** to identify the profile without possibility of error.

Investment value: competitive prices and durability

Each jaw is protected with a **silver gray galvanizing** against the corrosion in the construction site, to make it more resistant and long lasting.

The **jaw pivot** does not have weak points, being of constant section and therefore will last longer.

The **synchronization mechanism** and the double induction hardening ensures an incredibly long pressing profile duration.



MINI Jaws

MGF MINI Jaws are compatible with all the pressfitting tools, excluding REMS, KLAUKE and CBC.

281559	MINI Jaws with profile M 15		Double induction hardening:
281560	MINI Jaws with profile M 18	MINI Jaw	best duration / and precision
281561	MINI Jaws with profile M 22		
281562	MINI Jaws with profile M 28		
281563	MINI Jaws with profile V 15	All the components are made in special forged steel:	
281564	MINI Jaws with profile V 18	best power and safety in	
281565	MINI Jaws with profile V 22	class	
281566	MINI Jaws with profile V 28		
281551	MINI Jaws with profile TH 16	X A	
281552	MINI Jaws with profile TH 20		
281553	MINI Jaws with profile TH 26		
281554	MINI Jaws with profile TH 32		
281555	MINI Jaws with profile U 16	Constant section pivot:	<u>Universal</u> STANDARD Jaw for interchangeable dies
281556	MINI Jaws with profile U 20	no weak points	/
281557	MINI Jaws with profile U 25	points	
281558	MINI Jaws with profile U 32		A

MINI and STANDARD Universal Jaws for Dies

MGF Universal MINI Jaws are compatible with all the pressfitting tools, excluding REMS, KLAUKE and CBC. **MGF** Universal Standard Jaws are compatible with all the pressing tools.

281799	STANDARD Universal Jaw for Interchangeable Dies
281798	MINI Universal Jaw for Interchangeable Dies

Universal Jaws Dies

281726	Universal Jaw Die with profile TH 14
281700	Universal Jaw Die with profile TH 16
281701	Universal Jaw Die with profile TH 20
281702	Universal Jaw Die with profile TH 26
281703	Universal Jaw Die with profile TH 32
281704	Universal Jaw Die with profile M 15
281705	Universal Jaw Die with profile M 18
281706	Universal Jaw Die with profile M 22
281707	Universal Jaw Die with profile M 28
281708	Universal Jaw Die with profile U 16
281709	Universal Jaw Die with profile U 20
281710	Universal Jaw Die with profile U 25
281711	Universal Jaw Die with profile U 32
281727	Universal Jaw Die with profile V 12
281728	Universal Jaw Die with profile V 14
281712	Universal Jaw Die with profile V 15
281729	Universal Jaw Die with profile V 16
281713	Universal Jaw Die with profile V 18
281714	Universal Jaw Die with profile V 22
281715	Universal Jaw Die with profile V 28

www.mgftools.com

Jaw synchronization system: best precision coupling in the market, best pressing quality MINI Universal Jaw for interchangeable dies All parts are galvanized: long lasting against corrosion Universal Jaws DIES 3D coordinate measurement checks: best profile dimensions, best quality

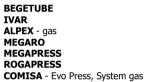
Pressfitting

MGF Pressfitting Jaws

Full Range and Best Prices!



Standard Jaw With 2 moving parts





S Type Jaw With 3 pressing parts (2 mobile + 1 fixed)

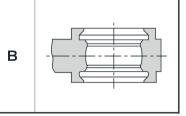


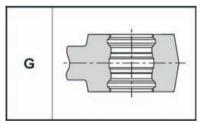
4G Type Jaw With 2 moving parallel segments

281401	Jaw	B 16
281403	Jaw	B 20
281404	Jaw	B 26
281405	Jaw	B 32
281420	Jaw	G 16
281421	Jaw	G 20
281422	Jaw	G 26
281423	Jaw	G 32
281428	Jaw	H 12
281429	Jaw	H 14
281430	Jaw	H 16
281432	Jaw	H 18
281433	Jaw	H 20
281434	Jaw	H 25
281435	Jaw	H 26
281436	Jaw	H 32
281437	Jaw	H 40 (4G)
281439	Jaw	H 12 A
281440	Jaw	H 14 A
281441	Jaw	H 16 A
281444	Jaw	H 20 A
281446	Jaw	H 26 A
281447	Jaw	H 32 A
281448	Jaw	H 40 A (4G)



1





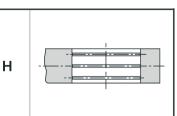
HAKA PRESS

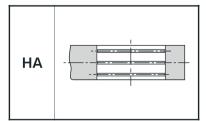
GEBERIT - Mepla

PRANDELLI VALSIR – Pexal, Pexal gas BARBI - Easypress (IndustrialBlansol) BRASSTECH - Aluplast Brasspress COMISA - Evo Press, System, System gas FAR RUBINETTERIE – Pressfar

FRABO – Frabopress OVENTROP – Cofit P

POLYTHERM POLYFIX SYSTERM WIRSBO





281461	Jaw M 12			
281462	Jaw M 14			CHIBRO
281463	Jaw M 15			GEBERIT - Mapress
281464	Jaw M 16			KISAN
281465	Jaw M 18	м		CIMBERIO SPA – Cimpress,
281466	Jaw M 22			Cimpress gas EFFEBI - Presstige
281467	Jaw M 28		Ι	EUROTUBI
281468	Jaw M 35			GIACOMINI OTERACCORDI – Oter Tecno, Oter
281469	Jaw M 42 (4G)			Tecno gas
281470	Jaw M 54 (4G)			
				Press, Still Press
281489	Jaw TH 10			
281491	Jaw TH 12			
281492	Jaw TH 14			COMAP - SKINPress Visu-Control
281493	Jaw TH 15			DALPEX - Laser Multi Dalpex
281495	Jaw TH 16			GIACOMINI – Giacoflex, Giacoterm TIEMME - Cobrapress
		ТН		APE - Raccordi a pressare
281495	Jaw TH 17	'''		BAMPI - Balpex (MP) BRASSTECH – Aluplast. Brasspress
281496	Jaw TH 18			BUCCHI - tech (MP)
281497	Jaw TH 20			COMISA - Evo Press, System, System gas EFFEBI – Tof Multipinza
281498	Jaw TH 25			FAR - Rubinetterie Pressfar
281500	Jaw TH 26			FRABO – Frabopress
281501	Jaw TH 32			RBM – Titafix RUBINETTERIE BRESCIANE
281502	Jaw TH 40			
281503	Jaw TH 50 (S)			
281504	Jaw TH 63 (S)			
281505	Jaw U 14			
281506	Jaw U 16			UPONOR - Unipipe
281507	Jaw U 18			CO.E.S Klima
281508	Jaw U 20			NUPIGECO - Multinupi APE - Raccordi a pressare
281509	Jaw U 25	U		BRASSTECH – Aluplast, Brasspress
281510	Jaw U 32			FAR - Rubinetterie Pressfar FRABO - Frabopress
281511	Jaw U 40			OVENTROP – Cofit P
281512	Jaw U 50			WAVIN
281513	Jaw U 63 (S)			1
281514	Jaw U 75 (S)			
201314	5dw 075(5)			
281521	Jaw V 12			
	Jaw V 12 Jaw V 14			
281522				1
281523	Jaw V 15			VIEGA FRABO – Frabopress, Solarpress
281524	Jaw V 16			CIMBERIO SPA - Cimpress
281525	Jaw V 18			COMAP - Sudopress Cu, Visu-Control
281526	Jaw V 22	V		EFFEBI - Presstige F.B.Q. BARONIO - BQ press Carbon
281527	Jaw V 28			steel
281528	Jaw V 35			SANHA
281529	Jaw V 42			J
281530	Jaw V 54			
281534	Jaw VP 14			
281535	Jaw VP 16			
281536	Jaw VP 20			
281537	Jaw VP 25	<u> </u>		-
281538	Jaw VP 32			NUSSBAUM VIEGA
281539	Jaw VUS 1 1/2"			
281540	Jaw VUS 11/4"	VP		
281541	Jaw VUS 1"			
281542	Jaw VUS 1/2"			
281543	Jaw VUS 2"			
281544	Jaw VUS 3/4"			1
281550	Jaw VUS 3/8"			
201000	544 ¥ 05 5/0			

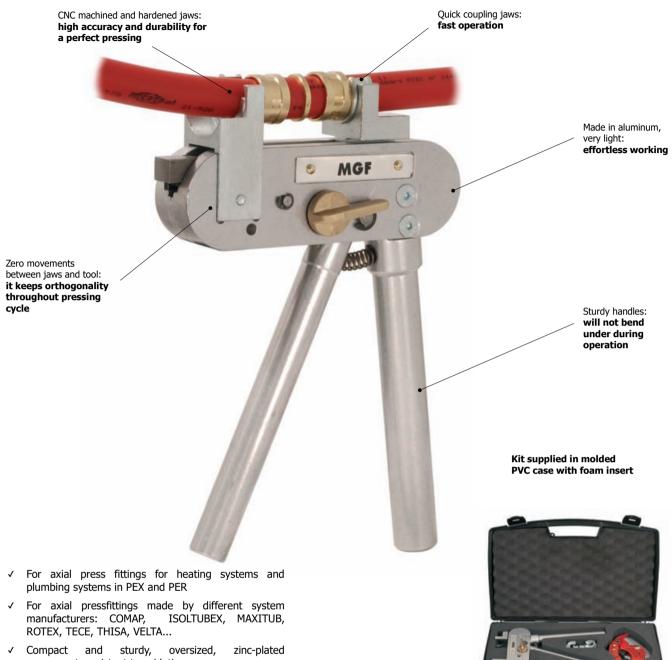
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1

Pressfitting

PressAx

Axial Press Tool for Fittings from 12 to 26 mm



- components resistant to oxidation
- ✓ Lightweight and easy to handle, made with aluminum alloys
- ✓ Quick coupling system for fast jaws replacement

Art.	Description
900990	PressAx Box with adapters
9009XX-PM	PressA x (only machine)
430052	Ø12 mm Die for PressAx
430053	Ø16 mm Die for PressAx
430054	Ø20 mm Die for PressAx
430055	Elbow adapter for PressAx
430056	Tee adapter for PressAx
922699	CLASSIC 42 cutting tool

Technical Features

Weight
Size
Box
Thrust Power

1,5 Kg 390 x 318 x 1114 mm Plastic case with foam insert 2700 N

Box Content

- Pressing Tool
- Full Dies Range: Ø12mm, Ø16mm, Ø20mm, Elbow adapter, TEE adapter
- Service Allen Key
- Classic Shear 42mm
- Molded PVC case with foam insert



Maintenance

"One day the machines will be able to solve all the problems, but none of them will pose one."

Albert Einstein (1879-1955)

BLITZ Unclogging Air Compressor The Plumber Drain Clearing Compressor

Pressure regulator: adjust the unclogging power from soft to strong

> Technology without oil: **no maintenance**

Max pressure 8 bar, suitable for most operations: pressure testing, expansion tank inflating, air blow cleaning, painting...

> Provided with additional adapters: unclog drains from Ø21 mm to Ø170 mm

- ✓ It unclogs drains from Ø 21 mm to Ø 170 mm
- ✓ It can test for pressure leaks up to 8 bar any kind of pipeline or vessel, without introducing oil (oilless compressor)
- ✓ It fills expansion tanks and membrane tanks in general
- ✓ It cleans through air blow
- Thanks to the pressure control it is suitable for tyre inflation, spray painting with paint spraygun, use of small pneumatic tools

Air Blow Gun

with quick connection pipe

Aluminum air blow gun with hose for compressed air. The rubber pipe is fitted with quick coupling and can reach up to 18bar at 20 ° C

> Length 3 meters: wide radius of action

Technical Features

Weight Dimensions Max pressure Air connection Tank Air Suction Supply Power Protection 15 Kg 185 x 420 x 480 mm 8 bar 1/4" 4,2 L 205 L/min 230 V ~ 50 Hz 1100 W IP23

	Art.	Model
/	904500	BLITZ Unclogging Air Compressor
	904540	Air Blow Gun with quick connection pipe



205 Umin:

Professional Unclogging Pump

Multifunctional to Unclog Drains, Test, Inflate...



- Pressure test with only air up to 8 bar √
- Test water systems without filling them 1
- Inflates expansion tanks and membrane tanks as well √
- Perfect for tyre inflation as well ~
- Full optional supply with air pipe and adapters √

Available Models

1

Art.	Model	Optionals Included
904100	Unclogging Pump	A dapters Ø 65, 100, 170 mm + hose
904101	Unclogging Pump LT	A dapter Ø 65 mm + hose
904105	Unclogging Pump XLT	A dapter Ø 65 mm

Weight
Dimensions
Max Pressure
Max Air Flow
Air Connection Adapter
Tank Capacity

8 Kg 260 x 120 x 570 mm 8 bar 125 cc/stroke 1/4″ 3,1 L

Spare Parts

Art.	Model	Use
251134	Plug Ø170	WC Unclogging
251135	Plug Ø100	Drains Unclogging
301484	Hose with quick connector and 1/4" fitting	Testing or Inflating



Multifunction Portable Water Jetter

Made in

Italy

Carry-on system: light and handy

Maintenance

Water jet pressure regulation: suitable for heat exchanger and radiators cleaning

Hot water pumping up to 60°C: deeper cleaning

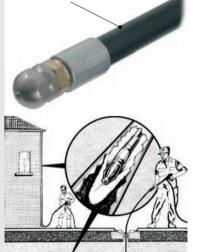
Full Optional Standard Equipment (art.905300)

Lance with jet regulator: smooth pressure cleaner for heat exchanger



Professional piston pumping: top in class pressure (120 bar) and flow rate (420 l/h)

Unclogging water jetter with extra flexible hose: overstep 45° and 90° elhows





Art. 970053

Lance pressure regulation

Drain Unclogging Water Jetter with 10m hose: powerful portable unclogging

Chemical Kit: deep cleaning with chemicals and water jet

More than cleaning...

1. Unclogging

Drain unclogging water jetter with powerful front and back water jets allows clean and ecological drain unclogging: CleanMatic is a professional portable water jetter for plumbers.

2. Clean with Chemicals

On all models is possible to dose chemicals directly on the lance by the red knob. Differently from other machines with chemical inlet on the pump, it's possible to use acids without damaging the pump internally.

3. Smooth Cleaning

The water jet power can be continuously adjusted accordingly to the needs, avoiding any damage, from 0 to 120 bar. All the power you need, only when you need it. This function is perfect for heat exchanger cleaning.

Starting from left to right::

- Chemical Kit (970053)
- Pressure regulating on the top of the lance

Technical Features

Weight	12,8 Kg
Dimensions	200 x 440 x 320 mm
Max Pressure	90 bar (120 max)
Max Temperature	60°C
Max Flow	7 L/min (420 l/h)
Lance Hose Length	7 m
Unclogging Water Jetter Hose	10 m
Power	1750 W
Voltage	230 VAC ~ 50 Hz
Service Class	S1
Insulation Category	IPX5
Tank Capacity	4,2 L

Art.	Model
905300	C leanmatic Multifunction Portable Water Jetter (with 10m water jetter, chemical kit, high pressure gun and lance with extension)
905400	Cleanmatic LT Multifunction Portable Pressure Cleaner (with chemical kit, high pressure gun and lance with extension)
970061	Water jetter with 10 m flexible hose
970053	Chemical Kit
970500	Lance 400 mm
970506	Lance Extension 300 mm
970501	High Pressure Gun with 7m hose
970582	Water Jetter Nozzle 1/8"F spare



CLEANPOWER

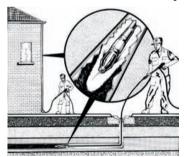
Professional Water Jetter - Unclogging Machine



Example of the unclogging water jetter pipe in action. Thanks to the front and rear jets on the nozzle, the pipe moves along the drain.









Art.	Model	Capacity	Max Press.	rpm	Power	Tension	Phases	Pipe	Weight
905350	CleanPower 10/170	10 L/min	170 bar	2800	2,65 KW	230V~	Monophase	30m	34,0 Kg
905351	CleanPower 15/260	15 L/min	260 bar	2800	5 KW	400V~	Threephase	50m	44,5 Kg

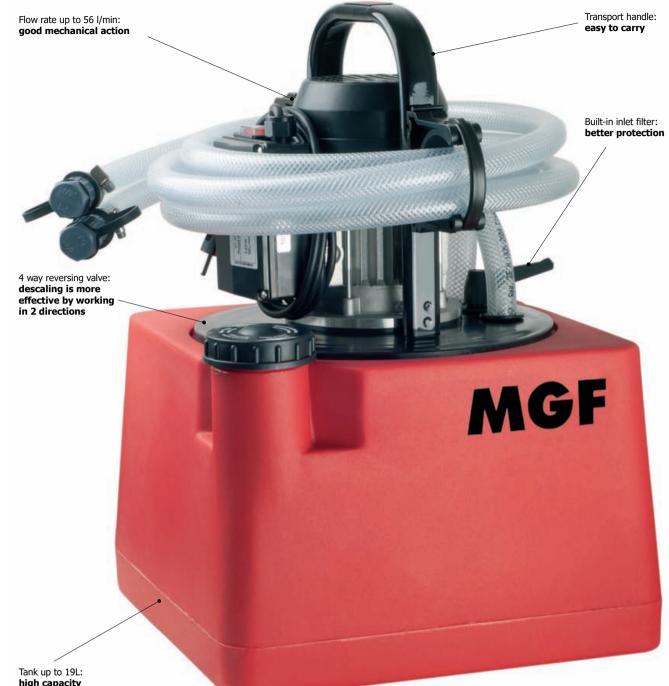
Product Advantages

- Pump with ceramic pistons, crankshafts mechanism and brass head, for maximum duration and resistance
- Wheeled machine with chemical products tank, easy to carry
- Low-pressure position for gentle water jet (i.e. heat exchangers cleaning), perfect for all plumbing tasks
- Washing gun lance and adjustable water jet, full optional
- Unclogging water jetter pipe diameter 3/8", it can move along 90° elbows in pipes from 1/2" size

Spare Parts

Art.	Model
970134	Hose Reel (included)
970135	Lance + Cleaning gun + 8m pipe included in 10/170
970136	Lance + Cleaning gun + 8m pipe included in 15/260
970582	Nozzle for unclogging water jetter pipe $1/8"$ F (standard)
790051	O il for MGF pump in tank 5L

Maxi Descaling Pump



high capacity

- Limescale descaling pump for cleaning boilers, circuits, water √ heaters, instantaneous coils, water heaters ...
- Equipped with a large tank, easy to clean and perfect for descaling √ big heating systems
- Product with special impeller pump suitable for acid media √
- Professional Plumbing Tool 1

Art.	Model	Box
939990	Maxi descaling pump	1
939996	Concentrated Descaling Acid (10 Kg Tank)	1
939997	Non Fuming Descaling Acid (10 Kg Tank)	1

Technical Features

Wainht	0. Ка
Weight	9 Kg
Dimensions	350 x 350 x 500 mm
Max flow	56 L/min
Power	220 W
Max head – Pump pressure	10 m – 1 bar
Tank capacity	19 L
Connections	1/2″ F
Power Supply	230 V ~ 50 Hz
Current	1 A
Sound pressure	70dBA
Max functioning temperature	35 °C
Category	S1
Insulation category	IP55



Mini Descaling Pump



It weighs only 3,5 Kg: **very light** 1/2" with 90° elbows connections: easier access to boilers

- Descaling pump to eliminate effectively the limestone deposits inside boilers, heat exchangers, pipes....
- ✓ Membrane pump: higher head and resistance to dirty fluids
- ✓ Professional descaling machine

Art.	Model	Box
939991	Mini Descaling Pump	1
939996	Concentrated Descaling Acid (10 Kg tank)	1
939997	Non Fuming Descaling Acid (10 Kg tank)	1

Technical Features

Weight
Size Max flow rate
Pump head
Tank capacity
Connections
Power Supply Current
Power
Sound pressure
Protection

3,5 Kg 350 x 270 x 170 mm 8 L/min 34 m 3,5 L 1/2"F with 90° elbow 230 V ~ 50 Hz 1 A 250 W 70 dBA IP55

www.mgftools.com

Maintenance

MDM 150

Spring Drain Cleaning and Unclogging Machine



it allows to operate quickly and easily, transmitting high torque to the augers

Art.	Description
904199	MDM150 (Machine with augers, cables and all spares)
904199.M	MDM150 (Only machine)
300012	Protection pipe for MDM 1,5 m (not included)
209000	Spring 6pz. x 2,5m Ø16mm with drum
209002	Spring 3pz. x 5m Ø22mm with drum
209004	Spring 1pz. x 6m Ø8mm without drum
925950	Work gloves
295009	Spanner

	Weight: Dimensions:	16 Kg (42,2 Kg with tools) 195 x 370 x 380 mm
<u>Engine</u>		
	Input Power: Rotate Speed: Voltage: Protection Class:	230VAC / 50Hz
<u>Working</u>	<u>i scope</u>	
	Pipes: Max length:	Ø 20 – 150 mm 30 m
Provide	<u>d</u>	
	Springs:	Ø 8 mm (<i>209004</i>), Ø 16 mm (<i>209000</i>) and Ø 22 mm (<i>209002</i>)
	Augers:	5 spirals (<i>295000, 295001, 295002, 295003, 295004</i>), 3 lances (<i>295005, 295006, 295007</i>)
	Tools Included:	gloves (<i>925950</i>) and spanners (<i>295009</i>)



MDM 100

Spring Drain Clearing and Unclogging Machine



- Can be used to clean and unclog drains and pipes in general through the mechanical action of the augers tools provided
- The complete range of augers tools allows to solve any problem of drain clogging
- Light and handy, thanks to the quick connection of the augers, it allows quick and clean way unclogging, while transmitting high torque to the auger

Art.	Description
904198	MDM100 (Machine with augers, spirals, tools)
904198.M	MDM 100 (Only machine)
300012	Protection pipe for MDM 1,5 m (not included)
209000	Spring 6pz. x 2,5m Ø16mm with drum
925950	Work gloves
295009	Spanner

Technical Features

Machine

	Weight Dimensions
<u>Engine</u>	

Power Rotation Tension

Working scope

Pipes Max length

Provided

Springs Augers

Tools Included

12 Kg (22 Kg with tools) 195 x 360 x 340 mm

250 W 400 RPM 230 VAC / 50 Hz

Ø 32 - 100 mm 30 m

Ø 16 mm (<i>209000</i>)
2 spirals (<i>295000, 295004</i>) and 2 lances (<i>295005, 295008</i>)
L (025050 L

gloves (*925950*) and spanner (*295009*)

Maintenance

Drains Cleaning Augers and Cutters



Maintenance











Straight Drain Cleaning Auger Ø16mm

Used to realize the clogging media, through the extraction of obstructing material.

Diameter	16 mm	
Length	135 mm	
Art.	Description	Weight
295000	Straight Drain Cleaning Auger Ø16 mm	0,075 Kg

Straight Auger with Hook Ø 22 mm

Used to hook fibrous clogging materials (tissues, clothes etc.) and extract them from the drain.

Diameter	22 mm	
Length	190 mm	
Art.	Description	Weight

Funnel-shaped Auger Ø 22 mm

Its conical shape allows to eliminate soft ground clogging, tissues or paper. Also useful to retrieve augers lost in pipes.

Diameter	22 mm	
Length	140 mm	
Art.	Description	Weight
295002	Funnel-shaped Auger Ø 22 mm	0,165 Kg

Dual Bulb Unclogging Auger Ø16mm

Used to unclog narrow or curved pipes			
Diameter	16 mm		
Length	130 mm		
Art.	Description	Weight	
295003	Dual Bulb Unclogging Auger Ø 16 mm	0,095 Kg	

Strainght Auger with Hook 16 mm

Used to hook fibrous residues (textile, tissues... etc...) and extract them from the drain.

Diameter	16 mm
Length	135 mm

Art.	Description	Weight
295004	Straight Auger with Hook Ø 16 mm	0,055 Kg

4 Blade Spade Cutter Ø 16 mm

Ideal for muddy clogging or wastes with similar consistency.			
16 mm			
35 mm			
Description	Weight		
	16 mm 35 mm		

295005 4 Blade Spade Cutter Ø 16 mm





Drains Unclogging Augers and Cutters

Weight

0,100 Kg

Drain Cleaning Spade Cutter Ø 22 mm

Ideal for muddy clogging or r	materials of similar consistency.
Diameter	22 mm
Length	57 mm

Art.	Description	Weight
295006	Drain Cleaning Spade Cutter Ø 22 mm	0,060 Kg

22 mm

65 mm

4 Blades Spade Cutter Ø 22 mm Ideal for muddy clogging or similar consistency materials.

Diameter

Length

295007

Art.





Drain Unclogging Spade Cutter Ø 16 mm

Ideal for muddy clogging or similar consistency materials.

4 Blades Spade Cutter Ø 22 mm

Diameter	16 mm
Length	37 mm

Description

Art. Description		Weight	
295008	Drain Unclogging Spade Cutter Ø 16 mm	0,025 Kg	



Cables & Spirals Springs for Unclogging Machines

Technical Features

- Cables and Spiral Springs made in high quality steel
- Each cable is protected by a particular anti corrosion treatment
- Quick connection system, to mount the auger and to extend the cable
- The cable connection system ensures an high efficiency torque transmission
- Each drain cleaning cable is supplied on a drum, suitable for cleaning and carrying

Art.	Description	Pack	Weight
209004	Ø8mm Drain Cleaning Cable 6m	1 x 6 m	0,5 Kg
209000	Ø16mm Cable with Drum	6 x 2,5 m	7,7 Kg
209001	Ø16mm Drain Cleaning Cable 2,5m	1 x 2,5 m	1,2 Kg
209002	Ø22mm Cable with Drum	3 x 5 m	10,0 Kg
209003	Ø22mm Drain Cleaning Cable 5m	1 x 2,5 m	2,0 Kg



MDM 50B

Battery Sink Machine

Ergonomic handle: easy to use

Equipped with a 8mm cable 10,7m long: best in class



Aluminum spindle with automatic feed: advances & retrieves cable with push of a button



Supplied with a sturdy steel box epoxy painted: clean and robust

With a spare battery included: extra value and time saving

- Excellent for small line cleaning. Opens clogged lavatory, sinks, urinals and tub or shower drains from Ø20 to Ø65mm
- √ Equipped with 8mm cable with core for a better torque transmission
- Plastic drum, light and easy to clean 1
- Adjustable speed up to 600 rpm ~
- Auto feeding system, advances and retrieves the cable at high √ speed, up to 5m/min
- Powerful 14,4VDC battery motor, with 20Nm torque power
- Standard Equipment: J
 - Battery Sink Machine √
 - 2 Rechargeable batteries with fast charger √

\checkmark	Epoxy painted metal box	

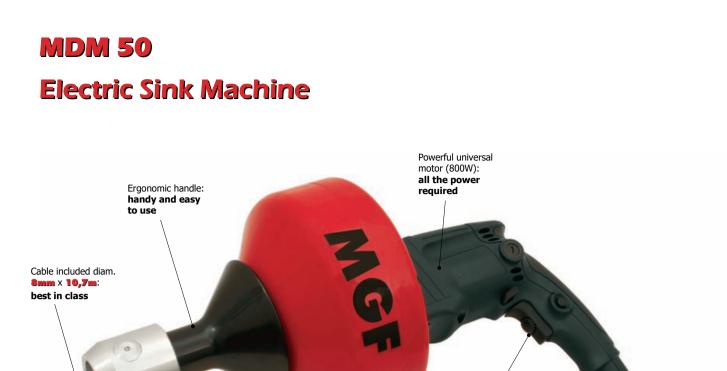
Art.	Description	Weight
904192	MDM 50B – Battery Sink Machine	9,6 kg

Technical Features

Cable Diameter Cable Length Motor Voltage Max Torque Speed **Pipe Diameter Cable Feeding Speed Quick Battery Charger** Battery **Spare Battery** Box Size

8 mm 10,7 m 14,4 VDC 20 Nm adjustable up to 600 rpm from Ø20 to Ø65mm up to 5m/min included 1,3 Ah included Epoxy painted steel 560 x 270 x 290 mm





Aluminum spindle with automatic feed: advances and retrieves the cable by pressing a button Electronic speed control: from 0 to 600 rpm and from 0 to 5m/min (cable feeding)

Painted steel carrying case: easy to transport



- ✓ Professional tool for unclogging drains in WC, lavatories, showers...
- ✓ 8mm cable, 10.7m long, the best in class
- ✓ Spring with reinforced core, for a better torque transmission.
- ✓ Working range: inner diameter pipe 20-65mm
- ✓ Useful metal carrying box included
- ✓ Powerful universal motor with electronic speed control
- ✓ Supplied with:
 - Electric sink machine
 - Carrying case

Art.	Model	Weight
904191	MDM 50 Electric Sink Machine	9,6 Kg

Technical Features

Cable Diameter Cable Length Power Supply Motor Power Spindle Speed Feeding Speed Size Weight Carrying Case 8 mm 10,7 m 230V - 50Hz 800 W 0-600 rpm 0-5 m/min 560 x 270 x 290 mm 9,6 Kg painted steel, included

PUSH-UP Drain Cleaning Pump



Supplied with 3 sleeves long short and drain sucker: **excellent for every drain**

PUSH-UP Drain Cleaning Pump

- Unclogs obstructions in basin, shower, tub and toilet drains etc... using water pressure
- Special piston with a push-pull system for easier unblocking
- Made in composite material, strong and easy to clean
- Supplied with 3 sleeves, **best in class**, for basins, WC and drain sucker sleeve
- Suction and pressure unclogging technique

Art.	Model	Weight
904150	PUSH-UP Drain Cleaning Pump	1,7 Kg
904150T	PUSH-UP 3 Sleeves Set	0,5 Kg

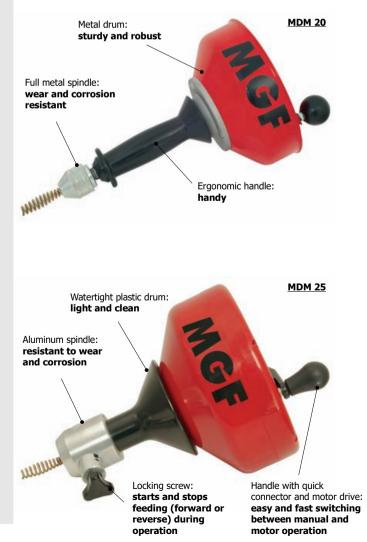
Drain sucker sleeve example



Long sleeve example



MDM 20 and MDM 25 Hand Spinners



MDM20 and MDM25 Hand Spinners

- Cheap unclogging device for basin, showers, tub drains...
- Can be used with a power drill by hexagonal connector on the drum (only MDM 25)
- MDM25: 8mm cable 10.7m long, best in class
- MDM 20: 8mm cable x 7,5m long, with metal drum and spindle
- Pipe diameter 20-65mm

Art.	Model	Weight
904180	MDM 20 Hand Spinner for Unclogging	3,5 Kg
904190	MDM 25 Hand Spinner for Unclogging	6 Kg
904190M	MDM 25 Cable with Auger	1 Kg
904180M	MDM 20 Cable with Auger	1 Kg

Shower drain cleaning example

Basin unclogging example







Solar Express

Electric Filling and Flushing Pump



Big filter withstanding to high temperatures (as all other parts): details often distinguish a professional product from the "misleading advertising"

Easy to reach switch:

handy



Technical Features

Dimensions Max Flow Max Pressure Pump Head Tank Capacit Water Conne Power Suppl Current Power Sound Presse Insulation Cl	y cction y ure	1000x450 40 L/min 4 bar 40 m 50 L 3/4" 230V - 50 2,6 A 250W 70 dBA IP44	
Art.	Model		Weight
905149	Solar Express		21 kg
305150	SOLAR 3m 10bar 80°C P	ipe (Black)	1,2 kg

Solar System

Multifunction Flushing and Filling Machine









Size Max Flow Rate Max Pressure Max Pump Hear Tank Capacity Pipe Fittings Power Supply Power Current Sound pressure Protection Rati		1000 x 450 x 5 50 L/min 5,2 bar 52 m 50 L 3/4"F 230V - 50 Hz 500W 3,7A 70 dBA IP55	00 mm
Art.	Model	1.55	Weight
905150	Solar System		23 kg
305150	SOLAR 3m 10bar 80%	C Pipe (Black)	1,2 Kg



Technical Advantages







Mixing calculations ruler and level indicator: **mix the chemicals in the desired concentration and without calculations**



Art.	Model
905175	12 bar Pressure Gauge for Solar and Tsunami Flushing Pump
810074	Filter for SOLAR and TSUNAMI Flushing Pump
810075	Valve + Gasket Kit for SOLAR and TSUNAMI Flushing Pumps

5 reasons MGF why is the best choice:

1) **CAD engineered frame with FEM method** (Finite Element Method) numeric technique adopted in aerospace and motors engineering to optimize forces and loads. Thanks to this method, the frame is reinforced only where necessary, thus MGF pumps are the lighter pumps in the market, ensuring the higher loading capacity.

2) Pneumatic wheels improve the handling capacity in building sites, yards and over stairs against small wheels. Nowadays the pneumatic wheels are a standard for best machines in the market.

 Quick connectors and ergonomy: because time is money, every flushing shall be as fast as we can, and without mistakes.

4) **Out of the box high temperature compliance.** All the parts in MGF pumps are made to withstand high temperatures: <u>pipes</u>, <u>pumps</u>, <u>filters</u>, <u>tank</u>... Avoid spilling chemicals with cheap pumps inadequate for high temperatures!

5) Mixing calculations ruler and level indicator. Thanks to this simple system you can mix the chemicals in the desired concentration and without calculations or account for the amount of liquid filled in the circuit.

Each pump is supplied equipped with 2 pipes 3m long, resistant to 10 bar and 80°C (H.T.), in accordance with ISO R1307: avoid spilling chemicals with cheap pipes inadequate for high temperatures!

Syphon in the tank return inlet: avoid foam generation









Art. 905175

Art. 810074

Art. 810075

www.mgftools.com

TSUNAMI – Flushing Pump Best in class Flushing Power

THE PHYSICS BEHIND AN EXCELLENT FLUSHING

The **turbulent flow** of the flushing solution in the pipe exerts a mechanical action and accelerates the chemical reactions by mixing.

To reach the speed necessary to generate fluid turbulence is thus fundamental a **high flow rate**, for a small installation recommend at least 40L / min, preferable 60 L / min or more.

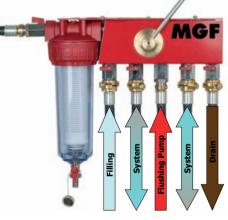
In case of bottlenecks generated by sludge to be flushed it is important to **reverse the flow direction** and especially **higher pressure** to contrast the pressure drop.

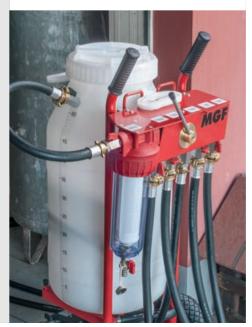
Each pump is supplied equipped with 2 pipes 3m long, resistant to 10 bar and 80°C (H.T.), in accordance with ISO R1307: **avoid spilling chemicals with cheap pipes inadequate for high temperatures!**





Brass backflow valve for deeper flushing





TORNADO & TSUNAMI is the best flushing system in the world. With black pipes included!

- Operating the valves only, without disconnecting pipes, you can perform all of the flushing tasks: 1) Drain the system sludge 2) Mix chemicals
- 3) Effectively flush with the flow inverter
- 4) Self-clean the 9" filter
- 5) Rinse pipes with the pump
- 6) Rinse pipes without the pump7) Fill the system with water or chemicals
- 8) Purge air from the circuit

MGF TECHNOLOGY ADVANTAGES

- No more fluids on the floor
- Uninterrupted flushing
- Never again clogged filters
- No more cavitating pumps
- No aluminum flow inverter oxidized or blocked
- No more uncomfortable trolleys

Excellent resistance to solutions with pH>6,5 and pH<9: **best working range on the market**

Technical Features

Dimensio	mensions (mm) 1000 x 450 x 500			500
Flow Rate (L/min)		60	70	95
Max Pressure (bar)		7	8	9
Max Pum	ip Head (m)	70	80	90
Power (K	(W)	0,75	1,1	1,5
Tank Cap	acity	50 L		
Pipe Fitti	ngs	3/4″F		
Power Su	ıpply	230V - !	50 Hz	
Pressure	Level	70 dBA		
Protection Rating IP55				
FIOLECLIO	in Rating	11 55		
Art.	Model	11 55		Peso
	-		ıp	Peso 25,0 Kg
Art.	Model	ushing Pum		
Art. 905153	Model TSUNAMI 60/7 Flu	ushing Pum ushing Pum	ıp	25,0 Kg
Art. 905153 905151	Model TSUNAMI 60/7 Flu TSUNAMI 60/7 Flu	ushing Pum ushing Pum ushing Pum	ıp	25,0 Kg 30,0 Kg



45

40

-35

30

-25

-20

-15

-10

5

MG

Large opening (210mm): easy to fill and clean, the top on the market!

with reinforcements: will not strain when it is full of hot liquid

Round section tank

with pneumatic wheels: born for the building site, the most imitated



1. Flushing Chemicals for Central Heating

Flushing Chemical for NEW SYSTEMS

Flushing chemical to be used before starting up the new central heatings. Prevents corrosion, keeps high efficiency and reduces energy consumption during time.

Ph 8 / 8,5 **Recommended Dilution** from 1% to 2%

Use Circulate at maximum flow rate with a MGF pump, inverting flow direction, for at least one hour. At the

end, rinse the system until water is perfectly clean.

Flushing Chemical for SLUDGES

Dissolves sludge, metal oxides and suspends limestone. It also exerts an anti corrosive action and prevents the subsequent deposits formation.

Ph $10,5 \pm 0,5$

Recommended Dilution from 2% to 3%

With central heating circulation pump for 15-20 days. At the Use end, flush and rinse the system using a **MGF** pump at maximum flow rate with clean water.

Flushing Chemical with SANITIZER and BIOCIDE

It removes algae, bacteria and viruses from heating and cooling systems circuit. Wide spectrum biocide.

Ph $3,2 \pm 0,05$

Recommended Dilution from 1% to 1,5%

Use Circulate at maximum flow rate with a MGF pump, inverting flow direction, for at least one hour. At the end, rinse the system until water is perfectly clean.



Art. 791012

Art. 939950

Art.	939955

Maintenance

Art.	Model	Kg	Pack
791011	Flushing Chemical for NEW SYSTEMS 1L	0,80	12
791012	Flushing Chemical for NEW SYSTEMS 5L	4,80	4
939950.1	Flushing Chemical for SLUDGES 1L	1,21	12
939950	Flushing Chemical for SLUDGES 5L	5,57	4
939955.1	Flushing Chemical w/SANITIZER and BIOCIDE 1L	1,23	12
939955	Flushing Chemical w/SANITIZER and BIOCIDE 5L	5,00	4

2. Chemicals for Central Heating Protection

ANTIFREEZE Heat Transfer Liquid

Top quality permanent antifreeze based on MonoPropylene Glycol, not harmful for humans. Recommended for solar panels. Ph 9.7

Recommended Dilution from 12% to 50%

Use Circulate at maximum flow rate with MGF pumps until air inside the system is completely purged.

CORROSION INHIBITOR

Corrosion inhibitor for heating and cooling circuits, to be used in case of insufficient passivation on the metal parts, thus there is a real risk of corrosion.

Recommended Dilution from 3% to 5%

Use Circulate with MGF pump in addition to the glycol, to the maximum flow rate, so that the induced turbulence can homogenize the solution obtained.



Art. 939951

Art.	Model	Weight	Pack
939951	ANTIFREEZE Heat Transfer Liquid 10L	10,05 Kg	1
791028.1	CORROSION INHIBITOR 1L	1,0 Kg	12
791028	CORROSION INHIBITOR 5L	5,2 Kg	4



Art. 939954



Art. 939956

Inhibitor against LIMESCALE and CORROSION

It produces a thin film on the walls of the tubes, preventing chemical reactions between metals and eliminating thermal and gas strains. **Ph** 12,5

Recommended Dilution from 1% to 2%

Use After system flushing, mix with top quality antifreeze products (monopropylene glycol). Mix and fill the system with a MGF high performance pump.

Preventing BIOCIDE

Ph

It prevents the formation of bacteria and algae in air conditioning and central heating circuits.

7

Recommended Dilution 2,5%

Use After system flushing, mix with top quality antifreeze products (monopropylene glycol). Mix and fill the system with a **M@F** high performance pump.

Art.	Model	Weight	Pack
939954	Inhibitor agains LIMESCALE and CORROSION 5L	5,2 Kg	4
939954.1	Inhibitor agains LIMESCALE and CORROSION 1L	1,0 Kg	12
939956	Preventing BIOCIDE 5L	5,0 Kg	4

Leaks Detection and Sealing



Art. 938073 - 938074



Art. 939956

Liquid LEAKS DETECTOR for Gas Systems

A small amount of liquid detects the leak by forming bubbles, even at low pressures.

Equipped with straw for reaching difficult points. **Can** 400 mL

Foam LEAKS DETECTOR for Gas Systems

Persistent foam that detects the leak by forming bubbles, even at low pressures.

Equipped with straw for reaching difficult points.
Can 400 mL

Central Heating SEALANT

Leaks sealant to eliminate leaks from central heating systems, with different codes according to the maximum leak sealable.

Tank 1L - 5L

Art.	Model	Kg	Pack
938074	Liquid LEAKS DETECTOR 400mL	0,50	12
938073	Foam LEAKS DETECTOR 400mL	0,50	12
791045	Central Heating LEAKS SEALANT up to 10L/day (1L)	1,00	6
791046	Cent. Heat. LEAKS SEALANT from 10 to 30L/day (1L)	1,00	6
791047	Centr. Heat. LEAKS SEALANT from 30 to 400L/day (5L)	5,00	4
791048	Centr. Heat. LEAKS SEALANT from 400 to 1000L/day (5L)	5,00	4



Combustion Chamber Cleaner

Combustion Chamber CLEANER

Removes soot and deposits from boilers combustion chambers (flue gas side). It improves the efficiency of the boiler. To remove residuals is necessary restarting the boiler.

Recommended Dilution undiluted

Ph $12,0 \pm 0,2$

Art.	Model	Weight	Pack
791022	Combustion Chambers Cleaner 5Kg	5 Kg	4
791023	Combustion Chamber Cleaner 10Kg	10 Kg	1



Art. 791022 and Art. 791023

Descaling Acids – Only for Descaling Pumps

Non Fuming Descaling Acid

Dissolves limestone, oxides and does not corrode the metal pipe. Inhibited against corrosion, with a change in color. It does not generate fumes.

Recomm	nended Dilution	from 10% to 30%
Color		red (orange when ineffective)
Ph at 19	%	1,6 / 1,9
Use	Circulate with MIN	or MAXI MGF descaling pump, wearing
	appropriate protect	ive equipment. After treatment it is

appropriate protective equipment. After treat recommended to neutralize with acid neutralizer.

Concentrated Acid Descaler

Dissolves limestone, oxides and does not corrode the metal pipe. Inhibited against corrosion, with a change in color.

Recommended Dilution from 10% to 30% Color red (orange when ineffective) Ph at 1%

1,65 / 1,95

Use Circulate with MINI or MAXI MGF descaling pump, wearing appropriate protective equipment. After treatment it is recommended to neutralize with acid neutralizer.

Water Soluble Descaler

Dissolves limestone, oxides and concrete. Easy to carry. Inhibited against corrosion. After treatment it is recommended to neutralize with acid neutralizer.

Recommended Dilution	max 250 g/L
Color	white/pink (yellow when lose effectiveness)
Ph @ 250g/L	1,6
Solubility	250 g/L (at 25°C)

Acids Neutralizer Liquid

Liquid supplied with litmus test for the measurement of the residual acidity. Recommended Dilution from 2% to 10%

Ph		

 $13 \pm 0,5$



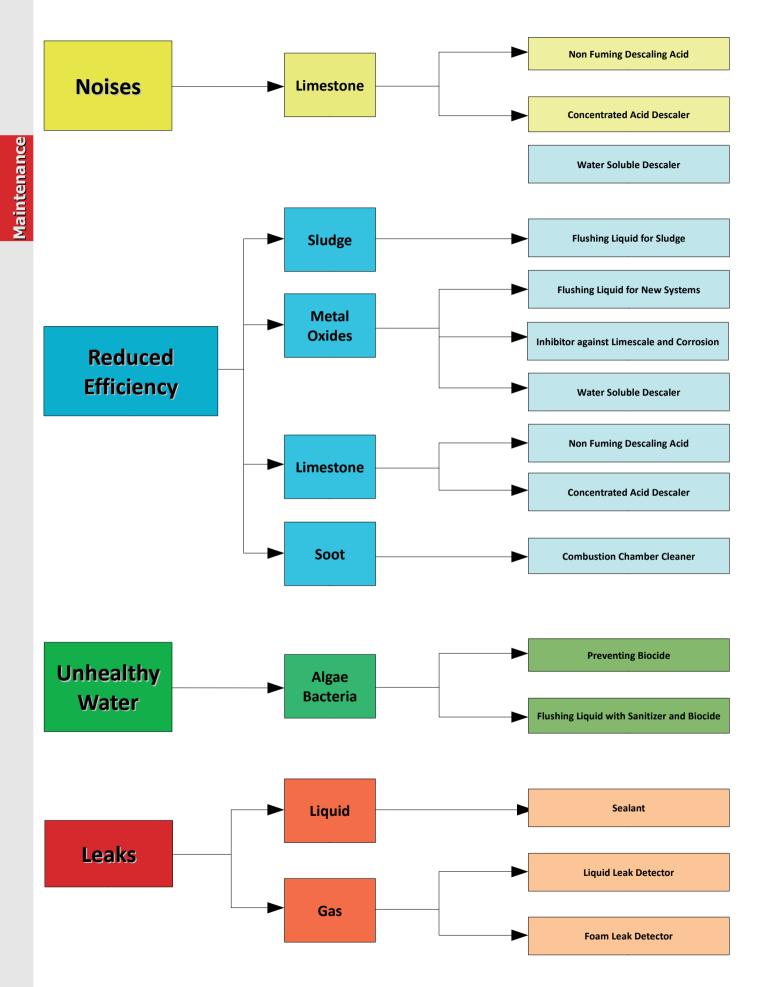
Art. 939996 and Art. 939997



Art. 791027

Art.	Model	Weight	Pack
939992	Non Fuming Descaling Acid 1L	1 Kg	12
939995	Concentrated Descaler Acid 1L	1 Kg	12
939997	Non Fuming Descaling Acid 10L	10 Kg	1
939996	Concentrated Descaler A cid 10L	10 Kg	1
791013	Water Soluble Descaler Powder 1Kg	1 Kg	12
791014	Water Soluble Descaler Powder 5Kg	5 Kg	4
791027	A cids Neutralizer	7Kg	4

Mini Guide: Choosing the Right Chemical







"To find fault is easy; to do better may be difficult."

Plutarco (46-120)

MGF Vulcano C-Plus

MGE

ARM

Thermal **Concrete Screed Heater – Mobile Heating Central**

The only with 5 heating programs:

- Automatic Manual
- Thermal shock
- Delta
- temperature **Pressure Test**

Innovative heat exchanger with resistors protection system: durable, reliable and safe

Swiveling connections: for a cleaner and safer workspace

Main Technological Advantages

- Heat exchanger protected against limestone, robust, reliable and efficient, unlike other electric heat exchangers.
- Possibility to save reports to prove the test and concrete screed heating process, as required by the regulations, directly on the included SD Card
- Backlight Display, excellent for the building site
- Graphic Color Display, to see all the required informations
- Real Time Clock, to print start and end time (only with optional battery)
- ARM Microcontroller running at 32bit for reliable and accurate testings.
- **USB Socket** for easy, fast and free firmware updates. Download them from www.mgftools.com

Expansion tank: to connect directly to the system without adding anything else

USB socket: free and fast firmware upgrade

SD Card slot: each report can be saved, as required by the regulations

10 KW

Additional inlet with quick connector for filling or emptying the underfloor heating system: fast operation

> Pipes and transport hooks: rational transportation

CERTIFIE

Technical Features

Weight Size **Three-Phase Power** Single-Phase Power Frequency Current SD Card **Max Working Pressure Max Sensor Pressure** Water Temperature Sensor **Swiveling Connectors Pipes Included Additional Inlet Circulation Pump** Flow Rate Pump Head **Expansion Tank**

400 x 500 x 1100 mm 10 KW (400VAC 3PH+N+E) 3KW, 3,3 KW or 6,7KW (opt.adapter) 50 - 60 Hz 14,5 A Max microSD 2Gb Included 8 bar 50 bar (resolution: 10 mbar) -20°C /+120°C (resolution: 0,1°C) 3/4"M with valve 2 x 2,5m x 3/4"F with rotating nut "Gardena" or 1/2"F 3 speeds (1300,1800,2200 rpm) 5÷53 L/min (0,3÷3,2 m³/h) 1÷5 m 2L, loaded at 3,5 bar

3LCD

25,8 Kg

Model 906152

MGF Vulcano C-PLUS

25,8 Kg

Weight

3 speeds circulation pump: plug and play

> Off road pneumatic wheel: excellent on the building site



Art.

MGF Vulcano PRINT

Concrete Screed Drying and Testing with Reporting



MGF Vulcano

Mobile Concrete Screed Heater and Pressure Tester



Swiveling Connectors Included Pipes

31,5 Kg

31 60 10,5 Kg 300 x 100 x 400 mm 10 KW (400VAC 3PH+N+E) 3,0 KW, 3,3 KW or 6,7KW (230VAC with opt. adapter) 50 - 60 Hz

Very light and

compact (only 10 Kg):

Icons graphic display: contemporary and intuitive GUI

eratura Acqua Pressione Acqua

Tempo Ciclo

emperatura Prog

lelta Temperatura

1.03 bar

02:11:27 gom

40 0

10 0

easy to carry even on stairs

14,5 A Max microSD 2Gb included 8 bar 50 bar (resolution: 10 mbar) -20°C /+120°C (resolution: 0,1°C) 3/4"M with valve 1 x 2,5m x 3/4"F rotating nut



906161

MGF Vulcano + Solar Express Kit

MGF Vulcano Technology

Discover the advantages, compare, and choose

MGF Vulcano electric boiler and concrete screed heater offer a set of exclusive advantages

We recommend, before buying, to read, compare and only then choose the best investment.

Easy to Use

- Sturdy, reliable and 98% efficiency heat exchanger, unlike other . electric mobile heaters.
- Backlight, waterproof keyboard, excellent for building sites.
- Graphic LCD color display, to show all the informations with all uncompromised clarity and style.
- Perpetual real time clock, to print reports with date and time (battery not included).
- New generation 32bit ARM microcontroller for accurate tests and top class performance
- USB Socket for easy, fast and free firmware upgrades. Look for the last update on the website: www.mgftools.com

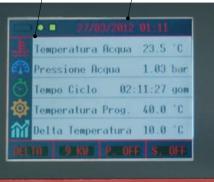
Light and Handy

- 4 different working programs for heating, drying and testing
- Sturdy, reliable and 98% efficiency heat exchanger, unlike other electric mobile heaters.
- The new heat exchanger reduces the overall weight up to 25%
- With pneumatic wheels, excellent for the construction sites and stairs.
- Transport handle for transporting over ladders or scaffolds
- **Transport hooks** for safe transport on trucks and vans

All the parameters in one page: simple and clear нмі

Select all the functions in one page: fast and easy

Backlight, dustproof and waterproof keyboard: sturdy and robust









- Sturdy, reliable and 98% efficiency heat exchanger, unlike other electric mobile heaters.
- Cannot be damaged by limestone and the maintenance is much easier
- Not equipped with armored heating elements
- Automatic parameters saving and restart in case of blackout, to keep the concrete hot
- Pressure sensor, to test the system and to avoid dry runs
- Temperature sensor, to control the screed heating cycle phases
- The LCD is double protected from dust, water, scratches and shocks.

100% Compliant to Regulations

UNI 1264-4 par 4.4: Startup of the Heating System

"This operation must be performed at least 21 days after the laying of the concrete backing layer or in accordance with the instructions of the manufacturer and in any case after at least 7 days in the case of support layers of dioxide. The initial heating begins at a supply temperature of between 20 and 25 ° C, which must be maintained for at least 3 days. Subsequently, it is necessary to set the maximum design temperature, which must be maintained for at least 4 more days. The startup process of the heating system shall be documented."

Vulcano whole range performs an automatic cycle as required, makes a pressure test with a digital sensor, and reports the evidence of the process on SD Card or on printed receipt (only Vulcano PRINT models)

www.mgftools.com



Vulcano vvv.mgftools.com 34FF1[483346383325858443 RELENDERPOR ESECUTRICES moldraulica Russi Blanchi, 123

12345 Norinondu MI 1234567898122456789 DATI PROVE

DATH TEST: 82/83/2814 NATRICOLA: 14038201 CLIENTE/IMPIANTE: ROSSI MARIA Via Repubblica, 2 12345 Turbinate 01 Interno 22 conducio Cliente 010 123456 in m



Fressione di collaudo: 4.22 bar

4.22 bar Trapo protai 25 4.22 bar 4.21 bar 4.21 bar 4.21 bar Caduta di acessionet 8.81 bar

Vulcano www.mgftonls.com 24ff1(48334-636337-858443 AZTENDA/POR ESECUTATOR! Ternoidraulica Rossi Via Rianchi. 123 12345 Morimondo MI 123456/899123456/89

DATI PROVA DRIN TEST: 82/83/2814 TATWICELR: 14838281

CLIENTE/INFIRMTU: RDSSI MARIA Via Kepubblica. 2 12345 Turbinate MI Interno 22 ronduals Eliente MIM 123456

UNI 1264/4

T sandatk fase 1: 25 C Teress press fase 1: 72k T sandata fase 2: 42 C Teress pross fase 2: 56k

MGF Vulcano Kits and Optionals

MGF Vulcano Power 20 KW Kit

It provides the best heating power on the market. Including: MGF Vulcano and MGF Vulcano C-Plus. It's therefore possible to use the two mobile heaters separately to simultaneously dry the screed or to heat two separate systems, unlike any other expansions available, or together to achieve the maximum heating power.

Weight	36,3 Kg
Threephase Power	20 KW (400VAC 3ph+N+E)
Monophase Power	13,5 KW (230VAC w/ opt. adapters)
Frequency	50 – 60 Hz
Current	14,5 A max per unit
SD Card	2 microSD (2Gb) included
Max Working Pressure	8 bar max
Pressure Sensors	50 bar (Resolution: 10 mbar)
Water Temperature Sensor	-20°C /+120°C (Resolution: 0,1°C)
System Connections	3/4"M with valve and swiveling nut
Connection Pipes	2 x 2,5m with 3/4"F swiveling nut
Filling Aux Connector	"Gardena" or 1/2"F
Circulation Pump	3 speeds (1300,1800,2200 rpm)
Flow Rate	5÷53 L/min (0,3÷3,2 m³/h)
Pump Head	1÷5 m
Expansion Tank	2L, loaded at 3,5 bar



MGF, only professional plumbing tools

906162 Kit MGF Vulcano Power 20KW

Model

MONOPHASE Adapters

- Nothing else to add (resistors, thermostats, modules...)
- Power setting is performed from front panel
- Temperature control is from front, panel everything is integrated in the machine

Industrial Monophase Adapter - 6,7 KW

Excellent to heat up to 6.7 KW the circuit using a single phase. The BLUE plug is rated 32A, because the current required is 26A.

We recommend using this adapter only if you can not get a three-phase power supply. Refer to the electrician on site or contact us for any further information.

Schuko Plug Monophase Adapter - 3,3 KW

Excellent to heat up to 3,3 KW the circuit using a single phase. The SCHUCKO plug is rated 16A, because the current required is 13A.

We recommend using this adapter only if you can not get a more powerful power supply, as this power level allows heating only of small surfaces. Refer to the electrician on site or contact us for any further information.

Art.	Model
816150	Industrial Adapter 400V-230V for Vulcano
816151	Schuko Adapter 400V-230V for Vulcano
306151	Connection Pipe 10 bar / 80°C – 3/4"F x 2,5m
306152	Connection Pipe 10 bar / 80° C – $3/4''$ F x 0,6m



6,7KW and a monophase power supply



Excellent to heat using max 3,3KW and a monophase power supply





Art.

PRESS Testing Pump Pressure Tester and Water Jetter







- Excellent for pressure testing, for pouring and filling on water √ systems and for drain cleaning with the water jetter pipe.
- Multipurpose, it can pump many non-acid liquids, such as antifreeze 1 fluids.
- Adjustable, high pressure system with safety bypass valve. 1
- √ Strong construction: oversized motor and special anticorrosive materials for long lasting operation.
- Supplied with: 1/2" high pressure pipe and inlet pipe with joint √ and filter.

Technical Features

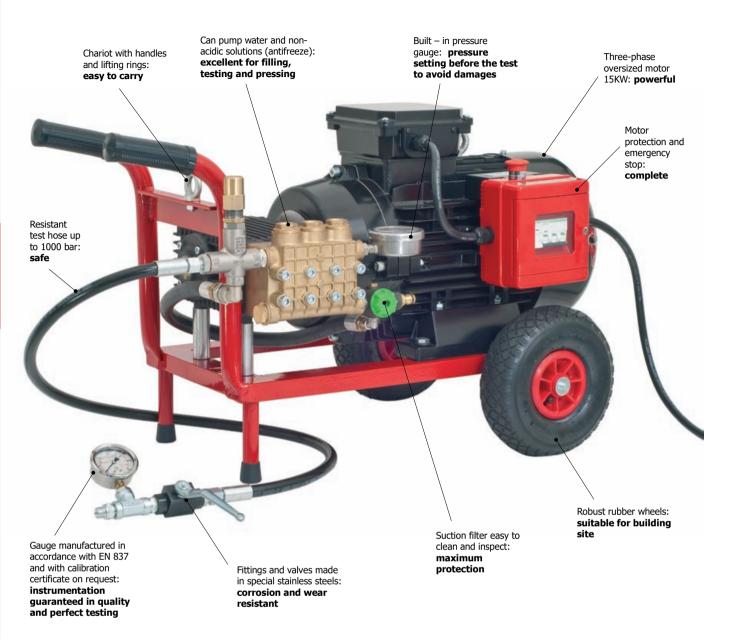
300020

Weight Size Output Pressure Flow Rate High-pressure pipe Power Power Power Supply Category Insulation Category	,	14,6 Kg 200 x 440 x 320 mm 0 - 60 bar (adjustable) 7 L/min 1,5m x 1/2"F swiveling nut 1750 W 230V ~ 50Hz / 110V ~ 60Hz S1 IPX5
Art.	Model	
905200	Press 60bar 230V	(full optional)
905250	Press 60bar 110V	(full optional)

Unclogging pipe

High Pressure 500 bar Electric Test Pump

Best in Class Performance



- ✓ Ideal for filling, pressurizing, testing of water, steam and chemical systems in the industry, shipyards...
- Robust transport cart with rubber wheels, and hooks for lifting the machine with straps
- \checkmark Control panel with motor protection and emergency stop button
- \checkmark Stainless steel inlet filter easy to clean and inspect, with 50um mesh
- ✓ Quick connection for water supply, the pump can be supplied also from a tank
- ✓ Handles on chariot for easy handling
- Possibility to set the pressure before the test, to avoid dangerous pressures in the system to be tested
- \checkmark Upon request we provide calibration certificate for the gauge

Technical Features

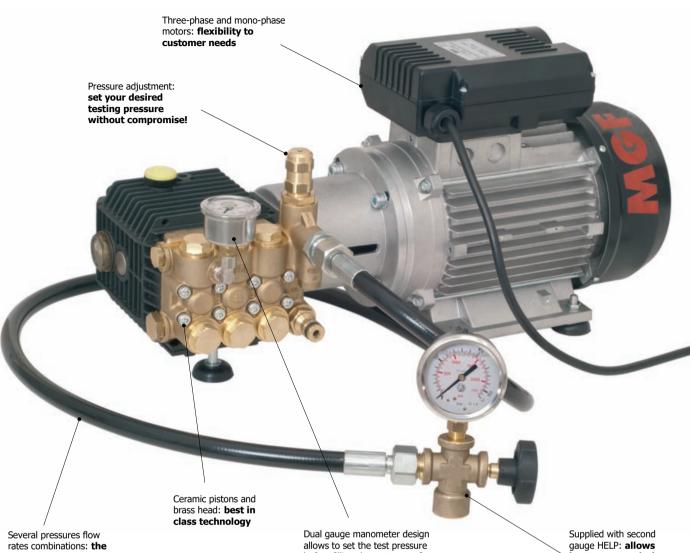
Size	975
Weight	132
Weight with Wood Box	140
Working Pressure	fro
Flow Rate	7-1
Water Supply	wa
Minimum Pressure	1 b
Max Water Temperature	609
Power Supply	400
Current	29/
Service Class	S1

975x570x600(h) mm
132 Kg
140 Kg
from 0 up to 500 bar
7-15 L/min
water, min 20L/min
1 bar
60°C
400V~ 50Hz - three-phase
29A - 15KW
S1 - cosfi=0,8 - class F

Art.	Model	Pack
905650	500bar Test Pump 15L Threephase 400V/15KW	1
790051	Oil pump MGF Tank 5 L	2
790050	O il pump MGF Bottle 0,5 L	15



High Pressure Electric Testing Pump Easy Testing up to 250 bar



widest pressure testers range in the world

before filling the system: safer operation without mistakes

best accuracy during testing and long tests without leaving the pump on site

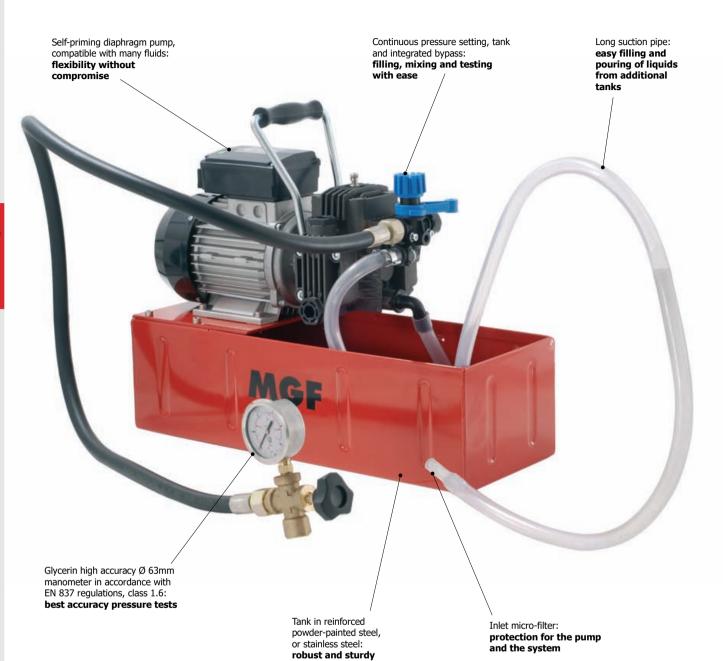
Example of testing system made on customer specifications with high flow rate/pressure. Weight of the model in the picture: 250Kg approximately



Technical Features

Size High-Pressure Pipe Insulation Class Service Class Testing Pressure		460 x 250 x 220 mm 1,5m x 1/2"F w/swiveling nut IPX5 S1 adjustable from 0 to max		
Art.	Pressure	Flow	Power Supply	Weight
905699	120 bar	4 L/min	230V ~ 50Hz – 1ph – 1,5KW	22,0 Kg
905698	120 bar	4 L/min	400V ~ 50Hz – 3ph – 1,5KW	22,0 Kg
905697	120 bar	8 L/min	230V ~ 50Hz – 1ph – 1,5KW	22,0 Kg
905696	120 bar	8 L/min	400V ~ 50Hz – 3ph – 1,5KW	22,0 Kg
905600	180 bar	13 L/min	400V ~ 50Hz – 3ph – 5,0KW	27,0 Kg
905820	250 bar	13 L/min	400V ~ 50Hz - 3ph – 6,35KW	30,0 Kg

Electric Diaphragm Test Pump Testing and Filling without Constraints



- Excellent for pressure testing and filling of water systems, for pouring and filling operations and for chemical mixing
- It's compatible with many fluids, even with suspended particles, thanks to the diaphragm pumping system
- Pump head made in anodized aluminum, is perfect for professional use
- ✓ Gauge calibration available upon request

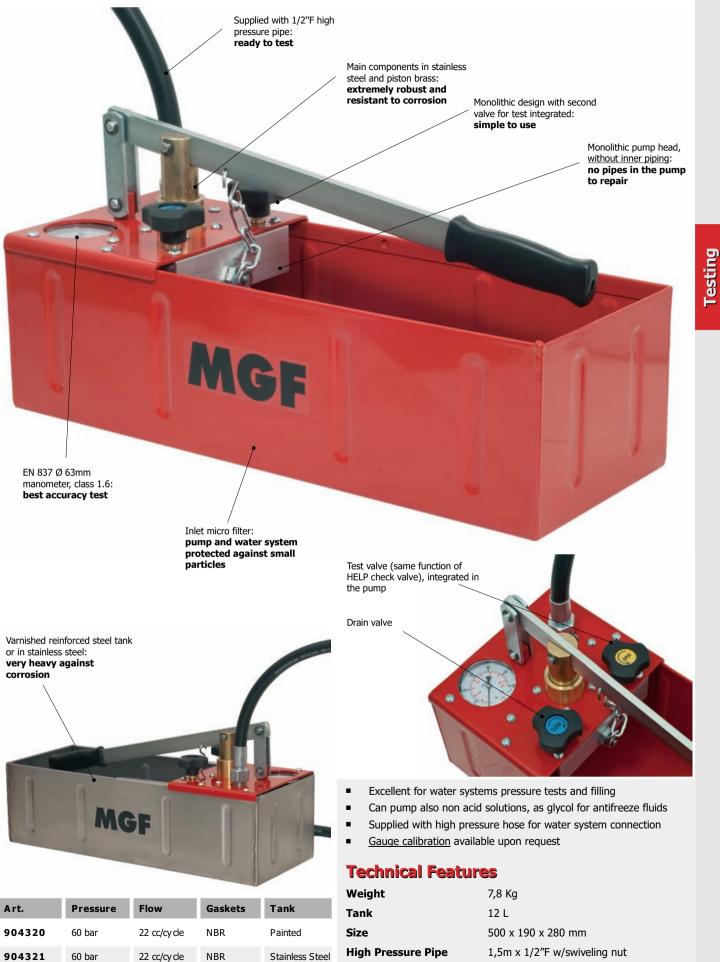
Art.	Diaphragm and Gaskets	Tank
905100	NBR	Painted Steel
905198	NBR	Stainless Steel

Technical Features

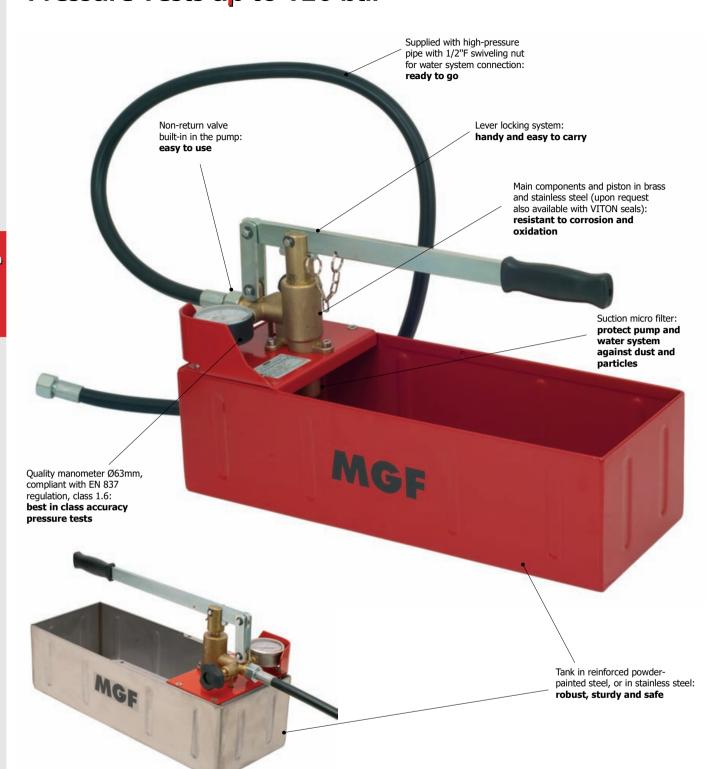
Weight	18 Kg
Size	250 x 530 x 410 mm
Working Pressure	0 - 20 bar (adjustable)
Flow Rate	14-17 L/min
High Pressure Pipe	1,5m x 1/2"F w/swiveling nut
Power	750 W
Power Supply	230 V ~ 50 Hz
Service Class	S1
Insulation Category	IP55



DUAL Pump Dual Valve Pressure Tester



MGF Pressure Testing Pump Pressure Tests up to 120 bar



Art.	Pressure	Flow	Gaskets	Tank
904300	60 bar	22 cc/cy cle	NBR	Painted
905900	60 bar	22 cc/cy cle	V iton	Painted
906000	60 bar	22 cc/cy cle	NBR	Stainless Steel
906099	60 bar	22 cc/cy cle	V iton	Stainless Steel
904600	120 bar	11 cc/cy cle	NBR	Painted
904699	120 bar	11 cc/cy cle	NBR	Stainless Steel

- Excellent for water systems pressure tests and filling
- Can pump also non acid solutions, as glycol for antifreeze fluids
 - Supplied with high pressure hose for water system connection
- Gauge calibration available upon request

Technical Features

Weight	7,7 Kg
Tank	12 L
Size	500 x 190 x 280 mm
High Pressure Pipe	1,5m x 1/2"F w/swiveling nut



MGF Testing Pump with Bucket Tank Pressure Tests up to 60 bar



Technical Features

Weight	11 Kg
Tank	12 L
Size	260 x 260 x 540 mm
Pipe	1,5 mm x 1/2"F w/swiveling nut

www.mgftools.com

Pressure

60 bar

60 bar

Flow

22 cc/cy cle

22 cc/cy cle

Gaskets

NBR

Viton

Tank

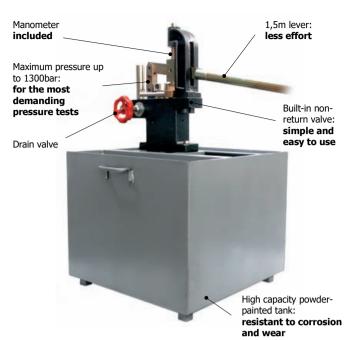
Painted

Painted

Art.

904200

High Pressure Testing Pump Pressure Testing up to 1300 bar



- ✓ Excellent for pressure testing systems, piping, vessels at very high pressure (i.e.shipyards, chemical industry, steam systems...)
- Gauge calibration available upon request

Technical Features

Weight	50 Kg
Size	500 x 500 x 400 mm
High Pressure Pipe	On demand

Art.	Pressure	Tank
904700	300 bar	100 L
904800	500 bar	100 L
904900	1000 bar	100 L
904930	1300 bar	100 L

HELP Testing Valve with Gauge



Better readings reduced full-scale gauge: more accurate pressure tests

Manometers from 12 to 150 bar, even in pulse free glycerin, with several units: **complete range**

Excellent for also air purging and system sectioning easier:

easier pressure tests on

Special designed for

and flexibility

high pressure testing: high resistance

complex systems

- Installed on the connection pipeline between the pump and the system, allows long time testing without the pump on site
- Fine and accurate reading with the proper pressure scale and unit
- Brass body, sturdy and robust, high pressure resistant
- Excellent with all MGF pressure testing pump

Art.	Bar	PSI	Мра	Туре
904400	12 bar	174 PSI	-	Dry
905700	25 bar	362 PSI	-	Gly cerin
905799	40 bar	580 PSI	-	Gly cerin
905800	60 bar	870 PSI	6 Мра	Gly cerin
905899	60 bar	870 PSI	-	Dry
905898	150 bar	2175 PSI	-	Gly cerin
RT_MAN	Pressure Gaug	e Calibration C	ertificate	

It prevents from theft: protect your investment

High Pressure Test Pipes

 High resistance and flexibility multilayer pipes and zinc plated swiveling nuts

- Compatible with all MGF testing pump
- Art. Model 300000 Test pipe 150bar-1500mm x 1/2"F w/swiveling nut 300002 Test pipe 80bar-1500mm x 1/2"F w/swiveling nut (NBR gasket) 300017 Test pipe 80bar-1500mm x 1/2"F w/swiveling nut (ny lon gasket) 300016 Test pipe 80bar-3000mm 1/2"F w/swiveling nut - 3/8"M 960004 Inlet hose 1500mm with filter Test pipe 330bar pipe-1500mm-3/8"F-1/2"F DN10 300023 Drain cleaning pipe with water jetter for PRESS Test Pump 300020 300024 Test pipe 700bar-1500mm-3/8"M





"One good reason why computers can do more work than people is that they do not have to answer phone calls.."

Arthur Bloch (1948-)

MGF Amico Multifunction Test Instrument for Plumbing and HVAC



Professional Plumbing Tools

Meets Plumbing and HVAC Needs

Gas Supply Network Testing and Validation according to European Regulations

MGF Amico firmware is constantly updated for the **UNI-EN 7129:2015**, **7130**, **11137:2012** and **11147** regulations about gas safety.

Test cycle is automatic and **the test report is printed**, ready for filing, with all the required informations (see below).

The reports are **saved automatically on the SD card** and can be conveniently backed up on a server PC even without the instrument.

Test cycle is guided by our online help, on each page, making the procedure easy and error free, even without training or reading the instruction manual.

HVAC Systems Test, Validation and Diagnosis

MGF Amico firmware includes many useful functions for the HVAC technician:

 High accuracy pressure test with nitrogen. Full scale measurement (50bar) with the best in class resolution of 1mbar

Working pressures test with saturation temperatures (digital multi refrigerant manifold). 1 mbar resolution over full scale range. Refrigerants leak detector with PPM measuring

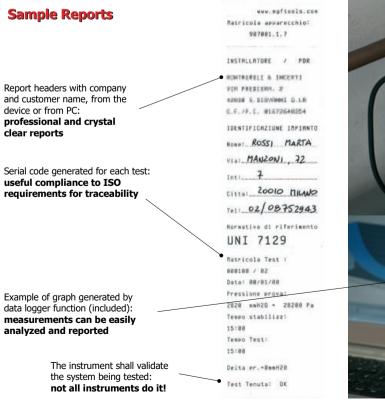
- Environmental analysis for thermo-hygrometric parameters:
 - ✓ Temperature
 - ✓ Humidity
 - ✓ Dew point calculation

Air Quality Monitoring

MGF Amico offers 3 different probes with sensors air quality measurements:

- probe for combustible gases (i.e. methane)
- probe for flue gases (i.e. carbon monoxide)
- probe for fluorinated refrigerants (CFC, HFC, HCFC)

In addition to the classic detectors buzzer leak alarm, **MGF** Amico displays the **gas concentration in parts per million** (PPM). **Backlight display** allows measuring even in areas with poor lighting.



MGF Amico



www.mgftools.com

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Technical Features and Standard Equipment



It is possible to work also with the instrument docked in the case Additional pipes for connection to several devices (gas boilers, gas meters...)

Art. 750107

Art. 750011

Art. 750103

```
Art. 938074
    938073
```

Technical Features

Battery Life Battery **Power Supply ADC Converters** Display Weight Real Time Clock **Acoustic Signaling**

up to 30 hours Lithium-ion, 2700 mAh Battery charger (included), 15 W 16 bit LCD Color 320x240 0,3 Kg Until year 2156 by buzzer

General Purpose Functions

Battery Print Antitheft Calibration Sensors Display Customizations Data Memory

Energy saving, battery monitor Serial, PC PIN code (set by the customer) Self-calibration sensors Automatic acknowledgment Backlight, auto-off setting Reports headers (company & cust.) 2GB SD card

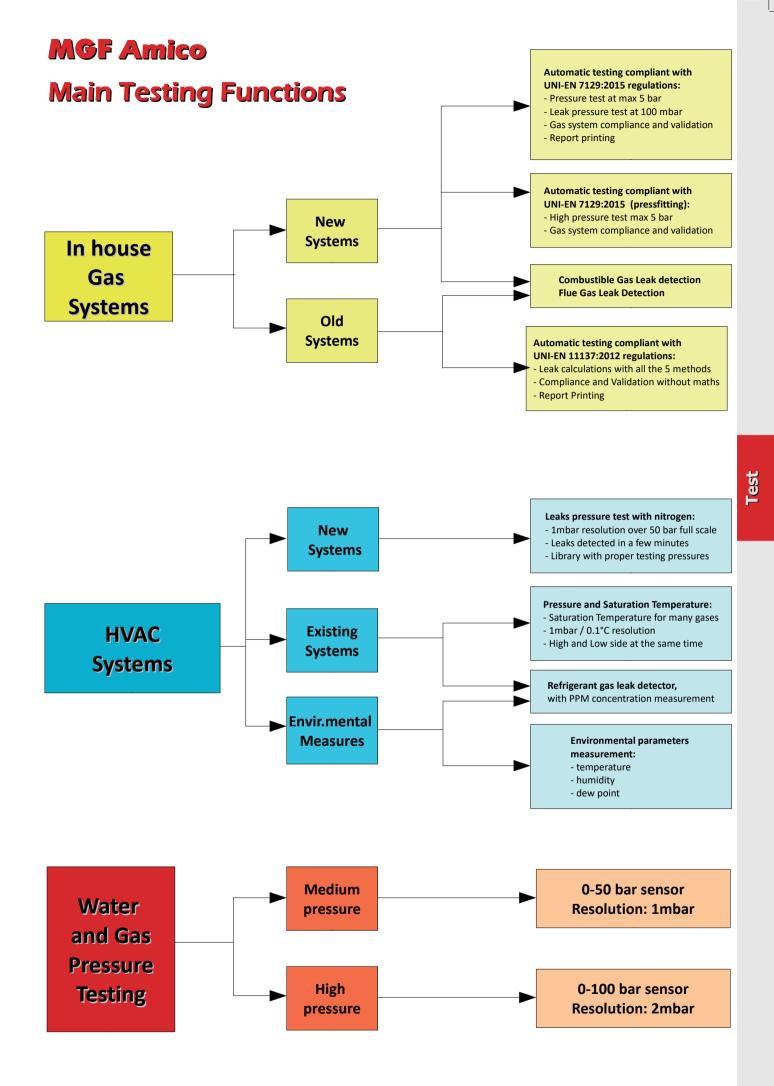
Equipment provided in case for all the models

- Handheld testing instrument MGF Amico
- Wall mount power supply and battery charger
- Case with docking station and integrated printer*
- Software for updates, electronic user manual
- . USB cable
- 2Gb SD Card to record tests data (virtually infinite capacity)

* excluding "Basic" model

Art.	Model	
907005	A mico PRO instrument with docked case + kit for systems test UNI-EN compliant + Sensor 50 bar for systems + HVAC sensor + 3 leak detectors (combu- flue gas and refrigerants) ALL in ONE!	water
907006	A mico GAS instrument in docked case + kit for gas UNI-EN compliant for the certification of gas systems	s test
907007	Amico FREEZE instrument in docked case + HVAC + Fluorinated refrigerants leak detector for HVAC professionals	C sensor
907008	A mico PRINT instrument in case with docking stat thermal printer, without probes to be free to choose the necessary sensor	
907009	A mico BASIC instrument in case without printer a to choose sensor to print at home	nd sensors
Art.	Model	Box
750107	USB SD Card Reader	
	USB SD Cara Reader	1
823000	8 bar Aluminium Test Pump	1
823000 938074		-
	8 bar Aluminium Test Pump	1
938074	8 bar Aluminium Test Pump Liquid Leak Detector (400mL)	1 12
938074 938073	8 bar Aluminium Test Pump Liquid Leak Detector (400mL) Foam Leak Detector (400mL)	1 12 12
938074 938073 750103	8 bar Aluminium Test Pump Liquid Leak Detector (400mL) Foam Leak Detector (400mL) Thermal Paper for new Amico Printer	1 12 12 10





MGF Amico – Digital Pressure Probes



Quick connection for AMICO fittings





Pressure Probe 5 bar

Compatibility Material Full Range Scale		Air, Methane, LPG, Gas, Water AISI 316 stainless steel 0 – 5 bar absolute bar 0 – 4 bar relative bar	
Max Pressure Maximum Resolution Accuracy Linearity Working Temperature		7,5 bar 1 mmH₂O = 0,1 mbar 1 mbar < 0,5% FS max 0°C50°C	
Art.	Model		

757104 5 bar Pressure Probe for MGF Amico

Pressure Probe 50 bar

Compatibility		Water, Water Solutions, Gases (PH min 5; PH max 8)	
Material		AISI 316 stainless steel	
Full Range Scale		0 – 50 relative bar	
Max Pressure		75 bar	
Maximum Resolution		1 mbar	
Accuracy		10 mbar	
Linearity		< 0,5% FS max	
Working Temperature		0°C50°C	
Art.	Model		

50 bar Pressure Probe for MGF Amico

757112

Pressure Probe 100 bar

Compatibility	Water, Water Solutions, Gases (PH min 5; PH max 8)
Material	AISI 316 stainless steel
Full Range Scale	0 – 100 relative bar
Max Pressure	150 bar
Maximum Resolution	n 1 mbar
Accuracy	10 mbar
Linearity	< 0,5% FS max
Working Temperatu	re 0°C50°C
Art. Model	

757113

100 bar Pressure Probe for MGF Amico

HVAC Pressure Probe 50 bar

Refrigerant Gases
AISI 316 stainless
0 – 50 relative bar
75 bar
1 mbar
10 mbar
< 0,5% FS max
0°C50°C

316 stainless steel 50 relative bar ar bar nbar 5% FS max ...50°C

Model Art.

757103 50 bar HVAC Pressure Probe



MGF Amico – Environmental Parameters Probe

Combustible Gas Leak Detector

Detected Gases Sensor Heating Time Technology Battery Life Full Scale Range Max working humidity Resolution Methan, Ethan, Propane, Isobutane, Hydrogen 20 s Solid state, w/ heating element 1h + 0 - 4000PPM 65% 1 ppm

Art. 757105

Combustible Gas Leak Detector Probe for Amico

Flue Gas Leak Detector

Model

Detected Gas	Carbon monoxide, H_2
Sensor Heating Time	20 s
Technology	Solid state, w/ heating element
Amico Battery Life	1h +
Full Scale Range	0 - 4000PPM
Max Working Humidity	65%
Resolution	1 ppm



Carbon Monoxide Leak Detector for Amico

Refrigerants Leak Detector

Model

R600, R490)	.34a,
Sensor warming period20 sTechnologySolid state, w/heating eleAmico Battery Life1 h +Full Scale Range0 - 4000PPMMax Working Humidity65%Resolution1 ppm	ment

 Art.
 Model

 757111
 Refrigerants Gas Leak Detector Probe for Amico

Temperature and Humidity Probe

Relative Humidity Range Temperature Range	0 - 100 % 0 - 50 °C
Dew Point	> 0 °C 0,1 °C
Temperature Resolution Temperature Accuracy	±1%
Relative Humidity Resolution	0,1 %
Relative Humidity Precision	± 2,5%
Time Constant (with ventilation)	1 min
Time Constant (Still Air)	5 min

Art. Model

757101 Temperature and Humidity Probe for Amico









AC700 – Flue Gas Analyser and Pressure Tester **Certified Flue Gas Emissions** SUD **One-Instrument Analisys of: O**, (oxygen); **co** (carbon monoxide): CO2 (carbon dioxide); Simple and powerful device NO (nitric oxides); ./ 1 Flue gas temperature; 7 Comburent air: Multi-language software ./ Delta T: and instructions: 1 Pressure first analysis within 10 7 Differential minutes, compliant with pressure: national regulations Efficiency and leaks; Air excess: CO environment Customizable visualization (only through of all the measures: additional probe). easy to use 0 Ŷ all a Possibility to measure NOx concentration: IN cordance complete device with UNI10839 EN50379 Automatic calculation of the "average of the tests" and report printing: in accordance with the regulations In accordance with UNI10835 (draught) Maintenance contract, with free replacement of the cells and extension of the guarantee: all the costs under control!! IN cordance with UNI7129 (seal) Flue Gas Temperature -0 °C ... + 600 °C type K, 0...400 °C TÜV validated Range: **Resolution:** 0,1 °C ± 2 °C (0 ... 125 °C) Accuracy: ± 3 °C (125...250 °C) ± 4 °C (da 250 °C) time constant 50s Air Temperature Range: -0 °C ... + 100 °C type K, 0...80 °C TÜV validated Resolution: 0,1 °C ± 1 °C, time constant 120s0 Accuracy: **Technical Features O2** concentration 0...21,0 Vol% O2 TÜV validated Range: **Resolution:** 0,1 Vol% Work Temperature +5°C/+40°C Accuracy: ± 0,3 Vol%, time constant 50s 1,5V AA (x4) rechargeable Batteries CO concentration (Compensated in H,) **Battery Life** 12 hours 0...2000 ppm TÜV validated, Range: Combustibles Gas oil, Natural gas, City gas, LPG, Pellets, Short oversaturation acceptable up to 4000 ppm Butane, Propane **Resolution:** 1 ppm Display LCD backlight + torch led Accuracy: ± 20 ppm (up to 400 ppm) Data memory 50 reading sets ± 5 % (over 400 ppm) 24h Real time watch Time and date Dimensions 200 x 9m x 60 mm **NO-concentration** 0...600 ppm TÜV validated Weight Range: 0,500 Kg **Resolution:** 1 ppm Case Rubber frame with magnet and hard case **TÜV validations** Accuracy: \pm 5 ppm (up to 100 ppm) | \pm 5 % (over 100 ppm) for O2, T smoke and T air environment Pressure and Differential for CO Range: -80 mbar ... + 80 mbar for NO **Resolution:** 0.01 mbar for EN 50379-1 and EN 50379-2 \pm 0.02 mbar (up to \pm 5 mbar) Accuracy: ± 1 % (over ± 5 mbar)





Dual Channel Differential Thermometer



Technical Features

Temperature Range
Resolution
Temperature Scale
Differential Value Display
Calculation
Compatible Thermocouples
Memory (100 Locations)
Backlight
Possibility to calibrate probes
Data logger with software
Connection
Weight
Battery (included)
,

-250°C ... 1372°C 0,1°C °C, °F, K yes T1, T2, T1-T2 K, J, T, E Max, Min, AVG, Hold yes yes yes USB, NTC (x2) 0,364 Kg 9V alkaline 6F22

Model

Dual-Channel Differential Thermometer

Professional Digital Thermo-Hygrometer



Measure Air Temperature and Humidity



Temperature Probes - Thermocouples Type K



Art. 932392

Operating temperature from 0°C up to +750°C

Cable length 1,5m



Operating temperature from -20°C up to +250°C

Cable length 2m



Art. 932386

Operating temperature from -20°C up to +90°C

Cable length 2m

- ✓ Thermocouples probes type K
- ✓ With pipe clamp, pipe strap probe or for air/gas
- ✓ Compatible with differential thermometer dual-channel
- and pocket digital thermo-hygrometer

Art.	Model
932392	Type K temperature probe for air/gas
932387	Type K temperature probe with pipe clamp
932386	Type K temperature probe with velcro strap



Laser Thermometers

Infrared Thermometer with Laser Ideal for remote non-contact measurements of non-reflective surfaces. The laser pointer locates the center of the surface being measured. **Temperature Full Range** -18°C up to 280°C 0,1°C Resolution Accuracy 2% Laser pointer: Sampling Time 0,5 s in detecting **Measurement Area:Distance** 1:10 Constant measurement ves Display Backlight Battery (included) 9V 6F22 battery Weight 0,177 kg Model Infrared Thermometer with Laser

Pocket Infrared Thermometer

Ideal for remote non-contact measurements of non-reflective surfaces.

Temperature Range	-55°C up to 220°C
Resolution	0,1°C
Accuracy	1%
Sampling Time	0,5 s
Measurement Area:Distance	1:12
Minimum/maximum Memory	yes
Display	Backlight
Battery (included)	3V CR2032
Weight	0,040 Kg

Model

932395

Art.

Art.

932389

Pocket Infrared Thermometer

2 in 1 Thermometer Infrared + Probe

Excellent for remote non-contact measurements of non-reflective surfaces or contact measurements with probe.

Additional probe allows contact measurements on liquid or surfaces.

Temperature Probe Probe	Length	100 mm stainless steel
Infrared Temperatu	re Range	-55°C / 220°C
Probe Temperature	Range	-55°C / 330°C
Resolution		0,1°C
Minimum/maximum Memory		yes
Data Hold Function		yes
Battery (included)		3V CR2032
Weight		0,100 Kg
Art.	Model	

www.mgftools.com

932394

2 in 1 thermometer infrared + probe



Very light and pocket-size: practical and handy_

Temperature probe:

for accurate measurement with contact



Test

Back locking clip: handy and portable

MU1000 – Digital Multimeter

Measure with accuracy all the electric parameters



Backlight: always operative

Frequency reading: test if your machine is supplied in accordance with the specifications of nameplate

Test capacity: find the faulty capacitors

Tension reading: test if the machine is properly supplied

Resistance reading: test the fuses

With software: explore new boundaries

Technical Features

Display

VU meter bar style Buzzer Sampling Surge Protection **Data Hold Function Battery Level Monitoring** Voltage Range Voltage Resolution Alternate Current Range Alternate Current Resolution Resistance Range Frequency Range **Diode Test Conductivity Test Temperature Measurement Transistor Test** Software Cable for PC connection Battery (included) **Operating Temperature** Storage Temperature Maximum Humidity Weight Size

LCD 4 digits, automatic polarity indication yes yes Dual Slope 1000 VAC (CAT II) yes yes max 750 VAC / 1000 VDC 0.00001 V 10 ACA / 10 DCA 0.0001 mA 400 Ohm / 40 MOhm 10 Hz / 10 MHz yes (0,001 V max resolution) yes (0,1 Ohm) yes (-40 / 1000 °C) ves yes RS232 (USB with adapter) 9 V Alkaline 0 °C / 50 °C -20 °C / 60 °C 80% 0,500 Kg 205 x 71 x 38.8 mm

Model

Technical Features

932396

Display

Art.

932375

Art.

MU1000 Digital Multimeter

MU750 – Pocket Digital Multimeter

Easy and Compact



130x74mm: really compact

Current test (only with contact on the wire): check current rating

Voltage measurement: test the power supply state on the machine

Diode and Transistor test: simple electronic checks

Resistance and conductivity test: excellent for fuses check

VU meter bar style Buzzer Sampling **Surge Protection Data Hold Function Tension Range Tension Resolution Current Range Current Resolution Resistance/Continuity Range Transistor Test Diode Test** Battery **Battery Level Monitoring Operating Temperature** Storage Temperature **Maximum Humidity** Weight Size

LCD 4 digits, 48 x 16mm, indication of polarity no ves Dual Slope 500 VAC (CAT II) ves max 500 VAC / 500 VDC 0,001 VAC / 0,0001 VDC 10 ACA / 10 DCA 0,0001 A 400 Ohm / 40 MOhm yes yes 2x1,5V AAA Alkaline (incl.) only battery discharge alarm 0 °C / 40 °C -10 °C / 50 °C 75% 0,15 Kg 130 x 74 x 41 mm

MU750 Pocket Digital Multimeter

Model



Professional Plumbing Tools

_

Test

MU500 – Multimeter with Amp Clamp

The "Issue Finder"

Technical Features

Clamp Opening	32 mm
Display	LCD 3 1/2 digits,with indicator
Buzzer	yes
Sampling	Dual Slope
Surge Protection	500 VAC (CAT III)
Data Hold Function	yes
Diode Test	yes
Peak Hold Function	yes
Battery Monitor	yes
Auto Power Off	yes
Voltage Range	max 600 VAC / 600
Voltage Resolution	0.1 mV MAX
Alternate Current Range	1000 A
Alternate Current Resolution	up to 40 A
Resistance Range	400 MOhm / 0.1 Oh
Frequency Range	10 MHz / 0,001 Hz
Battery	9V 6F22 (included)
Operating Temperature	0 °C 40 °C
Storage Temperature	-10 °C 50 °C
Maximum Humidity	75%
Weight	0,35 Kg
Size	236 x 97 x 40 mm

Model

th polarity VDC ۱m



Amp Clamp: check efficiency and discover problems

Voltage measurement: test power supply

Frequency measurement: check if the machine is powered according to nameplate specifications

Conductance test: check fuses



932397

Art.

MU500 Multimeter with Amp Clamp

Combustible Gas Leak Detectors

Next Generation Leak Detectors

Technical Features



Next Generation Gas Leak Detector



Built-in Lighting LED: useful on the field Detected Gases: Acetone

Acetylene Ammonia Benzene Butane Butanol Chlorine Ethane Ethanol Petrol Hexane Hexane Hydrogen Hydrogen sulfide Isobutane Methane Methanol Methyl acetate Methyl chloride Methyl Diesel Fuel N-Butane Pentane Propane Propanol Trichloride-ethane Sulfur dioxide

www.mgftools.com

Model

Pocket Digital Thermo Anemometer Measure Air Temperature and Speed



Auto power off after15 min: battery drains avoided
Several full range scales: avoid conversions and calculations

Weights only 52 g with carry on band: really handy and pocket sized

Digital Thermometers

Measure temperatures in °C and °F: avoid conversions and calculations

Support and probe

protection: handy and useful

> Probe cable is 1m long: cable compartment on the back



Pocket Thermo Anemometer Air Speed

	Unit	Range	Resolut.	Threshold	Accuracy	
	m/s	0-30	0.1	0.1	±5%	
	ft/min	0-5860	19	39	±5%	
	knots	0-55	0.2	0.1	±5%	
	km/h	0-90	0.3	0.3	±5%	
	mph	0-65	0.2	0.2	±5%	
Temperature						
	Unit	Range	Resolut.	Accuracy		
	°C	-10 / 45	0.2	±2°C		
	°F	14 / 113	0.36	±3.6°F		
Battery			CR2032 ((3 V, includ	led)	
Weight			52 g			
Size			100 x 40	x 18 mm		
Art.		Model				

932399

Stylus Probe Digital Thermometer

Pocket Thermo Anemometer

For contact measurements on liquids and surfaces

Probe Length	100 mm
Temperature Range Resolution Probe	-50°C / 300°C -58°F / 572°F 0,1°C stainless steel
Sensor Diagnostics	yes
Auto OFF Function	yes
Power Supply	1,5 V LR44 battery (included)
Weight	0,021 Kg
Art. Model	

932390 Stylus Probe Digital Thermometer

Digital Probe Thermometer

For measures in contact with liquids and surfaces

Probe length	100 mm
Temperature Range	-55°C / 300°C -58°F / 572°F
Resolution	0,1°C
Functions	Maximum, Minimum and Hold
Probe	stainless steel

Min/Max Threshold Alarm yes

Art.	Model	
Battery (not incl	uded)	type AAA (UM4) 1,5V
Weight		0,082 Kg
-		•

Digital Probe Thermometer

932398



digi-thermo

HOLD function:

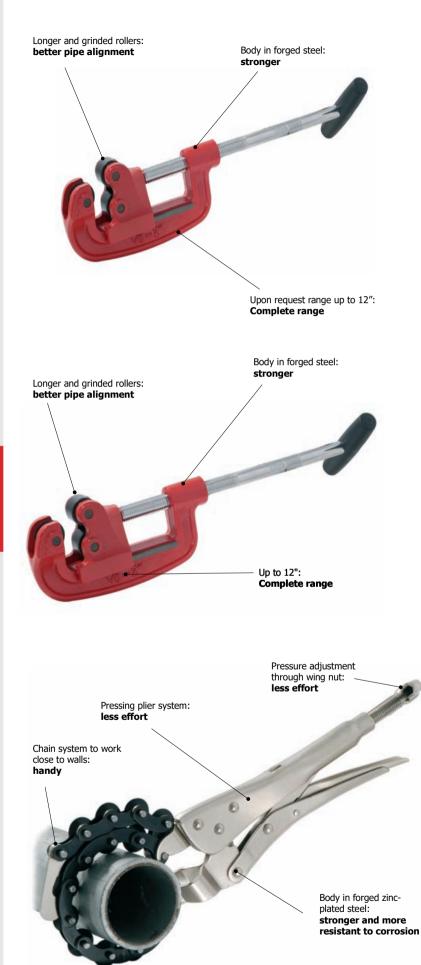
save an instantaneous value

Cutting Tools

"Daring is the price of progress"

Victor Hugo (1802-1885)

Pipe Cutters



IRON Pipe Cutter

- Longer and grinded rollers, for a better pipe support during operation and for a faster and without "threading" cutting
- The forged steel body gives strength to the tool and the necessary robustness for the toughest cuts
- Thanks to the special steel roller burrs are prevented outside the pipe and therefore it is not necessary to deburr the pipe before threading

Art.	Range	Wheel	Weight
922497	1/8" – 2"	922496	2,50 Kg
922495	1 1/4" – 4"	922494	5,10 Kg

* Upon request range up to 12"

STEEL Pipe Cutter

- Longer and grinded rollers, for a better pipe support during operation and for a faster and without "threading" cutting
- The forged steel body gives strength to the tool and the necessary robustness for the toughest cuts
- Thanks to the special steel roller burrs are prevented outside the pipe and therefore it is not necessary to deburr the pipe before threading

Art.	Range	Wheel	Weight
922599	1/8" – 1 1/4"	922598	1,10 Kg
922597	1/8" – 2"	922596	2,50 Kg
922595	1 1/4" – 4"	922594	5,10 Kg

* Upon request range up to 12"

YC Chain Pipe Cutter

- Excellent to cut pipes in copper, brass, aluminum, plastic
- The chain, made with **15** tempered steel rollers, allows to reach all the most difficult positions on pipes being already installed, and to cut the pipe easily
- The pressing plier system with adjusting wing nut allows to work without effort

Working Range 3/4" - 3 1/4" 19 - 83 mm

Art.	Model
922450	YC Chain Pipe Cutter
922449	Spare chain for YC chain pipe cutter



Pipe Cutters for COPPER and STEEL

Mini 16: 3-16mm and 1/8"-5/8"

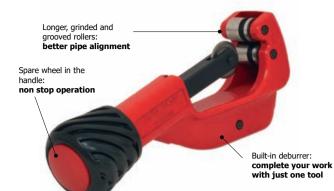
nor ■ Ma	nded and groove n-burred pipes or kimum required s pipes in mm and	pipes with fl space: 38 mm	ares	asier to cut	
Art.	Material	Wheels	Range	Weight	a TO alact
922095	Copper	922098	3-16 mm	0,10 Kg	and a second
922093	Thin steel	922096	1/8" - 5/8"	0,10 Kg	Maximum required space 38mm: excellent for narrow spaces
 Grii nor Ma For 	22: 3-22m nded and grooven burred pipes or kimum required s pipes in mm and	d rollers: no pipes with fl space: 42 mn 1 in inches	threads, it is e ares n		Longer, grooved and grinded rollers: better pipe alignment
Art.	Material	Wheels	Range	Weight	, Jan
922099	Copper	922098	3-22 mm 1/8″ – 7/8″	0,12 Kg	a Televinne
922097	Thin steel	922096		0,12 Kg	Maximum required space 42mm:
 Gri nor Ma 	28: 3-28m hded and groove h-burred pipes or kimum required s pipes in mm and Material Copper Thin steel	d rollers: no pipes with fl space: 48 mn	threads, it is ea ares	Weight 0,20 Kg	excellent for narrow spaces Grooved roller for flared pipes less pipe consumption
■ Gro	sic 30: 3-3 ound and grooved i-burred pipes or	l rollers: no t		isier to cut	Spare wheel included:
Art.	Material	Wheels	Range	Weight	
922199	Copper	922098	3-30 mm	0,29 Kg	
922197	Steel	922096	1/8" – 1 1/4"	0,29 Kg	Longer, grooved and grinded rollers: better pipe alignment

www.mgftools.com

1

Longer, grooved and grinded rollers: **better pipe alignment**

Telescopic Pipe Cutter For copper and thin steel



Telescopic 32: 3-32mm and 1/4"-1 5/8"

- Grinded and grooved rollers: no threads, easier cutting of nonburred pipes or pipes with flares
- For pipes in mm and in inches

Art.	Material	Wheel	Range	Weight
922299	Copper	922098	3-32 mm	0,29 Kg
922297	Thin Steel	922096	1/4" – 1 5/8"	0,29 Kg



Telescopic guide without mechanic plays and smooth handle rotation:
perfect cutting

Spare wheel included in the handle: complete supply, non stop operation

> Professional deburrer included: only one tool to complete the cutting task

cutting task

Special 38: 6-38mm and 1/4"-1 1/4"

- Grinded and grooved larger rollers: no threads, cutting nonburred pipes or pipes with flares is easier
- For cutting pipes in mm and in inches

Art.	Material	Wheel	Range	Weight
922390	Copper	922389	6-38 mm	0,47 Kg
922387	Thin Steel	922396	1/4" – 1 1/4"	0,47 Kg



- Grooved and grinded enlarged rollers: no threads, cutting nonburred pipes or pipes with flares is easier
- For pipes in mm and in inches

Art.	Material	Wheel	Range	Weight
922399	Copper	922389		0,57 Kg
922397	Thin Steel	922396	6-42 mm 1/4″–1 5/8″	0,57 Kg
922395	Plastic	922394		0,57 Kg

Special 45: 6-45mm and 1/4"-1 1/2"

- Grinded and grooved enlarged rollers: no threads, cutting nonburred pipes or pipes with collars is easier
- For pipes in mm and in inches

Art.	Material	Wheel	Range	Weight
922393	Copper	922398		0,61 Kg
922392	Thin Steel	922396	6-45 mm 1/4"–1 1/2"	0,61 Kg
922391	Plastic	922394		0,61 Kg





Spare wheel in the handle: added value and non-stop operation Professional deburrer included: only one tool to complete the

84

Telescopic Pipe Cutter with Spring Return

For copper, plastic, multilayer and CSST

Automatic 32: For CSST corrugated pipes up to 32mm

The exclusive support system with 6+2 rollers allows cutting the corrugated pipe without pipe squeeze

Art.	Material	Wheel	Weight
921990	Plastic/steel	921989	0,59 Kg

Automatic 67: 6-67mm and 1/4"-2 1/2"

- Grinded and grooved larger rollers: no threads, cutting non-burred or flared pipes is easier
- 4 rollers to prevent from pipe crushing

Art.	Material	Wheel	Weight
921899	Copper	922398	
921898	Thin Steel	922396	0,59 Kg
921897	Plastic	922394	

Automatic 140: 50-140mm and 2"- 5 1/2"

Grooved rollers: no threads, cutting non-burred pipes is easier

Art.	Material	Wheel	Weight
921999	Plastic	921992	1,5 Kg



4 large, grinded and grooved rollers: better pipe alignment and no pipe squeezing during cutting

Automatic spring return: faster cutting

> Professional deburrer and spare wheel included: complete

Wheel automatic spring return: fastest cutting operation

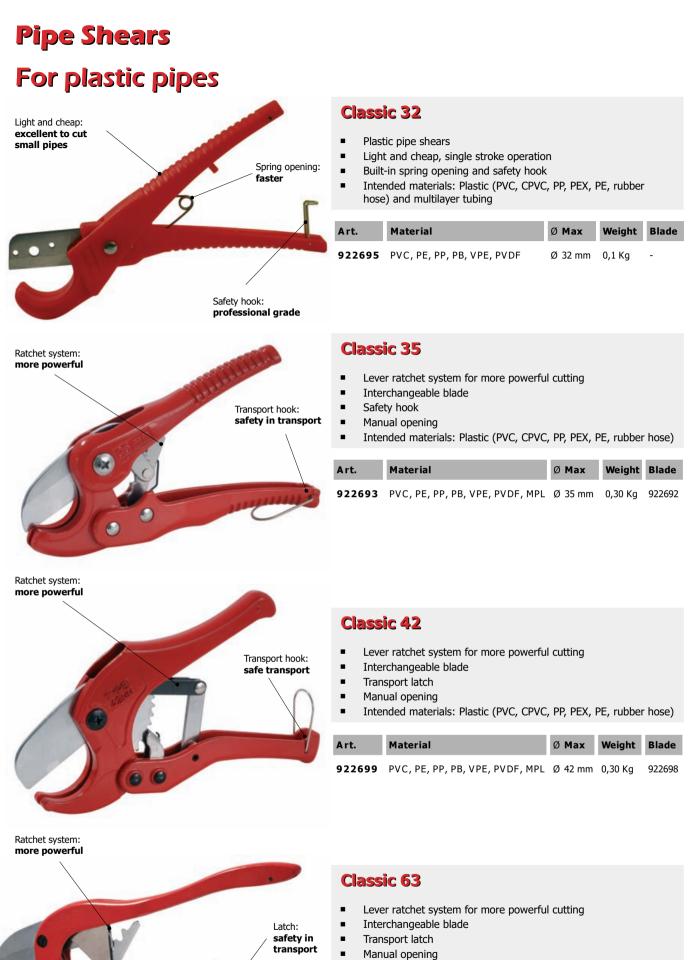
Wheel automatic spring return:

fast cutting operation

Automatic 168: 100-168mm and 4"- 6 1/2"

Grooved rollers: no threads, cutting non-burred pipes is easier

Art.	Material	Wheel	Weight
921998	Plastic	921992	1,6 Kg



Intended materials: Plastic (PVC, CPVC, PP, PEX, PE, rubber hose)

Art.	Material	Ø Max	Weight	Blade
922697	PVC, PE, PP, PB, VPE, PVDF, MPL	Ø 63 mm	1.17 Kg	922696



Pipe Shears

For multilayer and plastic pipes

Unique 42

- Lever ratchet system for powerful cutting
- Interchangeable blade
- Blade in 1080 steel, excellent for cutting tools blades
- Blade hardness: 55-58 HRC
- Safety transport latch
- Blade release system without button
- Intended materials: Plastic (PVC, CPVC, PP, PEX, PE, rubber hose), multilayer pipes, electric wires, plastic conduits

Art.	Material	Ø Max	Weight	Blade
	PVC, PE, PP, PB, VPE, PVDF, MPL	Ø 42		
922799	Plastic conduit	15x3	0,30Kg	922798
	Electrical wires	Ø 12		

Unique 63

- Lever ratchet system for more powerful cutting
- Interchangeable blade
- Blade in 1080 steel, excellent for cutting tools blades
- Blade hardness: 55-58 HRC
- Transport safety latch
- Quick blade release system
- Intended materials: Plastic (PVC, CPVC, PP, PEX, PE, rubber hose), multilayer pipes

Art.	Material	Ø Max	Weight	Blade
922795	PVC, PE, PP, PB, VPE, PVDF, MPL	Ø 63	0,57 Kg	922794

Automatic 35

- Ratchet mechanism system
- Fast spring blade return, with half run locking system
- Blade in steel with chromium, manganese and molybdenum, excellent for blades and cutting tools
- Blade hardness: 52-58 HRC

Art.	Material	Ø Max	Weight	Blade
922899	PVC, PE, PP, PB, VPE, PVDF, MPL	Ø 35	0,57 Kg	922898

Automatic 42

- Ratchet mechanism system
- Fast spring blade return, with half run locking system
- Blade in steel with chromium, manganese and molybdenum, excellent for blades and cutting tools
- Blade hardness: 52-58 HRC

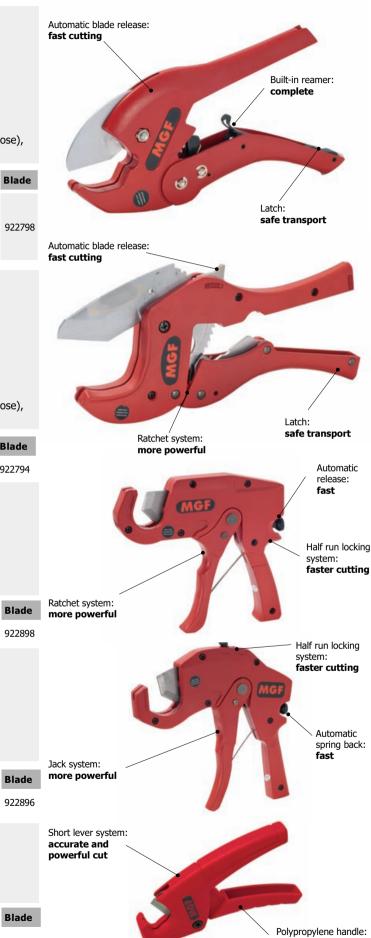
Art.	Material	Ø Max	Weight	Blade
922897	PVC, PF, PP, PB, VPF, PVDF, MPI	Ø 42	0.69 Ka	922896

Unique MINI 28

- Polypropylene single stroke pipe shear
- Optimized lever for a powerful and accurate cut

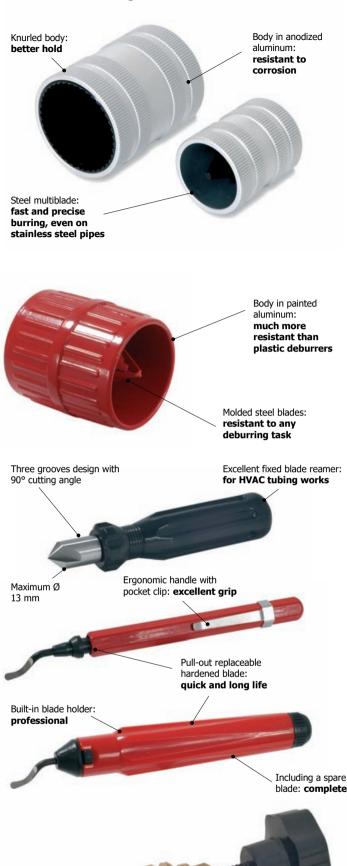
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Art.		Material		Ø Max	Weight	Blac





light and robust

Reamers, Deburrers and Tap Reseaters



Inner Reamer and Outer Deburrer for 8-38 and 10-54mm

- Inner reamer and outer deburrer for pipes in stainless steel, steel, copper, aluminum, plastic and multilayer
- Body in anodized aluminum, resistant to corrosion
- Multiblade cone in hardened steel, excellent for stainless steel tubes
- Dual task operation: reaming and deburring the pipes

Art.	Model	Weight
922994	Inner Reamer and Outer Deburrer (8-38 mm)	0,21 Kg
922993	Inner Reamer and Outer Deburrer (10-54 mm)	0,44 Kg

Inner Reamer and Outer Deburrer for 40mm interior / exterior

- Inner reamer and outer deburrer for pipes copper, aluminum, plastic and multilayer
- Body in painted aluminum, resistant to corrosion and much stronger than plastic tools
- Blades in tempered steel, molded in the aluminum body, sturdier than plastic deburrers

Art.	Model	Weight
922999	Inner Reamer and Outer Deburrer (40mm)	0,23 Kg

Pipe Deburring Tool

- Deburring tool for pipes and edges in copper, aluminum, plastic and multilayer
- Extremely light and handy, with pocket clip and perfect grip handle
- HSS hardened, MGF quality rotating blades
- Heavy duty metal design

Art.	Model	Weight
922992	Inner Pipe Reaming Tool	0,04 Kg
922998	Pipe Deburring Tool	0,04 Kg
922997	Pipe Deburring Tools w/ Spare Blade Holder	0,04 Kg
922996	Spare Deburring Blade Tool	0,008 Kg

Millkit - Taps Reseating Tool

- Taps reseating tool with <u>5 milling sizes blades</u>: 12, 14, 17, 24, 28 mm
- Milling blades connection thread: 6MA
- Fits most popular taps, with brass bushing
- Progressive spring

5 blades from 12 to 28 mm: **full range provided**

- Ergonomic plastic handle
- Supplied in blister

Art.	Model	Weight
924000	MillKit 12 – 14 – 17 – 24 – 28 mm	0,71 Kg



Hand Tools

RR

Cutting Tools

Hacksaw Model 826

- Handy blade thumbscrew tensioning system
- 45° blade adjustment system for big sizes cutting
- Spare blades housing
- Exclusive blade locking system for "impossible cuts"
- Aluminum handle
- Blade length: 30 cm

Art.	Model	Weight
922650	Hacksaw Model 826	0,50 Kg
922621	HSS 30cm blade (high flex & long-lasting)	0,002 Kg
922623	30cm double-edged blade for PVC pipes	0,002 Kg

Hacksaw Model 824

- Handy blade tensioning system
- Adjustable blade for 8 different cutting positions
- Handle in aluminium
- Blade length: 30 cm

Art.	Model	Weight
922649	Hacksaw model 824	0,50 Kg
922621	30cm HSS blade (high flex & long-lasting)	0,002 Kg
922622	30cm HSS blade	0,002 Kg
922623	30cm double-edged blade for PVC pipes	0,002 Kg

Hacksaw model 821

- Useful wing nut blade tensioning system
- Body in cold-rolled steel
- Shockproof handle in MOPLEN composite compound
- Blade length: 30 cm

Art.	Model	Weight
922648	Hacksaw Model 821	0,38 Kg
922621	30cm HSS blade (high flex & long-lasting)	0,002 Kg
922622	30cm HSS blade	0,002 Kg
922623	30cm double-edged blade for PVC pipes	0,002 Kg

M25 Professional Cutter

- Body in ABS
- Handle in non-slip rubber
- Locking screw
- Segmented blade 25 mm high and 128 mm long

Art.	Model	Weight
922630	M25 Professional Cutter	0,17 Kg
922629	M25 Professional Cutter (12 pack box)	2,10 Kg
922626	M25 spare blade (10-piece blister)	0,03 Kg

M18 Professional Cutter

- Body in ABS
- Handle in non-slip rubber
- Locking screw
- Segmented blade 18 mm high and 100 mm long
- Supplied with 2 segmented blades

Art.	Model	Weight
922628	M18 Professional Cutter	0,10 Kg
922627	M18 Professional Cutter (12 pack box)	0,04 Kg
922625	M18 blade (10-piece blister)	0,008 Kg
922624	M18 hooked blade (5-piece blister)	0,008 Kg



resistant





Adjustable blade, 8 positions: flexible cutting

Handle in MOPLEN: shockproof





Tin Snips

- For shaped cutting, even tight curves
- High precision grinded blades without mechanical play and razor edge for metal cutting without slips or burrs
- Screw joint and lever mechanism to develop more power
- Hand-forged, sharp cutting heads
- Made in Germany
- Length: 250 mm
- Blade hardness: 60-62 HRC
- Blade length: 35 mm
- Maximum plate thickness: 1,8 mm
- Maximum stainless-steel thickness: 1,2 mm

Art.	Model	Weight
922846	Tin Snips (left)	0,455 Kg
922847	Tin Snips (right)	0,455 Kg

Straight Tin Snips

- For long, straight and continuous cutting
- High precision grinded blades without mechanical play and razor edge for metal cutting without slips or burrs
- Screw joint and lever mechanism to develop more power
- Hand-forged, sharp cutting heads
- Made in Germany
- Length: 250 mm
- Blade hardness: 60-62 HRC
- Blade length: 30 mm
- Maximum plate thickness: 1,8 mm
- Maximum stainless-steel thickness: 1,2 mm

Art.	Model	Weight
922848	Straight Tin Snips	0,450 Kg

Universal Tin Snips

- For straight or shaped cutting, requiring large bending radius
 High procession grinded blades without mechanical play and rates of
- High precision grinded blades without mechanical play and razor edge for metal cutting without slips or burrs
- Screw joint and lever mechanism to develop more power
- Hand-forged, sharp edge heads
- Made in Germany
- Length: 250 mm
- Blade hardness: 60-62 HRC
- Blade length: 30 mm
 Maximum plate thickness: 1.8 mr
- Maximum plate thickness: 1,8 mm
- Maximum stainless-steel thickness: 1,2 mm

Art.	Model	Weight
922849	Universal Tin Snips (left)	0,515 Kg
922850	Universal Tin Snips (right)	0,515 Kg

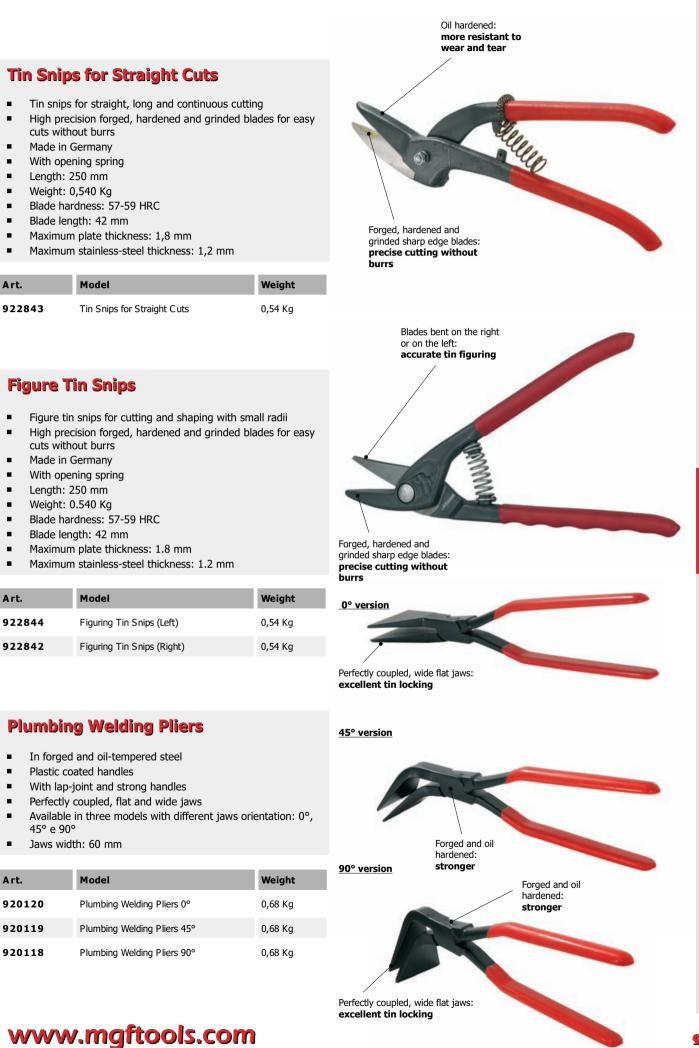
Knabber Tin Snips

- Essential for tin metal sheet working
- For shaped cutting, holes and corrugated plate
- For round and square cuts with clean cutting edges without any burr
- Cutting width 2,7 mm
- Lever system to cut:
 - Maximum plate thickness: 1,2 mm
 - Maximum aluminum, copper, plastic thickness: 2,0 mm
- Length: 260 mm
- Interchangeable blades

Art.	Model	Weight
922845	Knabber Tin Snips	0,470 Kg
922845L	Spare Blade for Knabber Tin Snips	0,020 Kg



Tin Snips and Plumbing Welding Pliers



Scissors and Side Cutters



long lasting

Electrician Scissors

- Dual component handle
- HRC56 Stainless-steel straight blades
- Micro tooth on blades
- Blade length: 35 mm
- Scissors length: 140 mm

Art.	Model	Weight
920330	Scissors for electrical wires	0,100 Kg

Standard Side Cutter

- Dual component, soft grip handles
- For wires, electrical wires and steel
- Induction hardened steel, sharp cutting edges
- Power transmission with optimum leverage for easy and effortless work
- Made in Germany

Art.	Model	Kg.	Max Special Steel Tickn.	Max Steel Tickn.	Max Wire Tic- kn.
920347	Side Cutters 145 mm	0,16	5 mm	1,7 mm	8 mm
920346	Side Cutters 160 mm	0,22	6 mm	2 mm	11 mm
920345	Side Cutters 180 mm	0,25	7 mm	2,5 mm	13 mm

Heavy Duty Side Cutter

- Dual component, soft grip handles
- For wires, electrical wires and steel
- Induction hardened steel, sharp cutting edges
- Power transmission with optimum leverage for easy and effortless work
- Made in Germany

Art.	Model	Kg.	Max Special Steel Tickn.	Max steel Tic- kn.	Max wire Tic- kn.
920344	HDSide Cutters 180 mm	0,3	2,2 mm	2,6 mm	8 mm
920343	HDSide Cutters 200 mm	0,3	2,5 mm	2,8 mm	11 mm
920342	HDSide Cutters 240 mm	0,4	3 mm	3,5 mm	13 mm

Bolt Cutter

- Cutting heads in hardened chromium-vanadium steel
- Screwed-in heads, replaceable
- Handles in PVC

Art.	Model	Weight
920320	Bolt Cutter 450 mm	1,5 Kg
920319	Bolt Cutter 600 mm	2,3 Kg
920318	Bolt Cutter 750 mm	4,4 Kg
920317	Bolt Cutter 900 mm	4,7 Kg



Expanding and Flaring Tools

"The best thing a man can do sometimes is to keep his word."

Anonimo

Expankit

Single Stage Tube Expander and Calibration Tool



- ✓ Tube expander and calibration tools. Excellent results in copper, aluminium and steel pipes
- ✓ Free-floating, self centering and end stop mechanism to ensure quick and accurate expansions and calibrations
- ✓ Heads provided with step for calibration

Technical Features

Material	Max. Thickness	mm	inches
Annealed copper	-	10 - 42	3/8" - 1 5/8"
Aluminium	1.6 mm	10 - 28	3/8" - 1 1/8"
Mild steel	1.6 mm	10 - 28	3/8" - 1 1/8"
Stainless-steel	1.0 mm	10 – 22	3/8" - 7/8"
Stainless-steel	1.0 mm	10 – 22	3/8 - 7/8

Standard Supply

Pipe expander in metal case, with expanding and calibrating heads and deburrer/reamer tool (optional, item 922999).

Art.	Model
923094	Pipe Expander Kit w/heads 12,14,16,18,22mm and deburrer
923093	Pipe Expander Kit w/heads 12,14,18,22mm and deburrer
923092	Pipe Expander Kit w/heads 12,14,16,18,22mm
923091	Pipe Expander Kit w/heads 12,14,18,22mm
923097	Pipe Expander Kit w/heads 3/8"-1/2"-5/8"
923091	Pipe Expander (without spares)



Expankit H

Hydraulic Pipe Expander and Calibration Tool



- ✓ Tube expander and calibration tool for copper, aluminum and steel pipes
- ✓ Self centering, end stop mechanism to ensure fast and accurate expansions and calibrations
- ✓ Stepped head to recalibrate the pipe
- ✓ Powerful hydraulic system for effortless expansion job

Standard Supply

Hydraulic expander in black molded case, heads and deburrer (art. 922998).

Art.	Model
923085	Tube expander, w/ heads 3/8", 1/2", 5/8", 3/4", 7/8", 1" and deburrer
923083	Hydraulic Tube Expander (only tool)

Technical Features

Material	Max. thickness	mm	inches
Annealed copper	-	10 - 42	3/8" - 1 5/8"
Aluminum	1,6 mm	10 - 28	3/8" - 1 1/8"
Mild steel	1,6 mm	10 - 28	3/8" - 1 1/8"
Stainless steel	1,0 mm	10 - 22	3/8″ - 7/8″

Tube Expanding Heads

higher resistance Description Weight Art. Description Weight Art. Description Weight Art. Description Weight Art. 0,13 280112 280100 Head 10 mm 0.13 280105 Head 18 mm Head 3/8" 0.13 280117 Head 1" 0,16 280101 Head 12 mm 0,13 280106 Head 22 mm 0,15 280113 Head 1/2" 0,13 280118 Head 1 1/8" 0,27 Head 5/8" Head 1 3/8" 280102 Head 14 mm 0,14 280108 Head 28 mm 0,27 280114 0,14 280120 0,4 280103 Head 15 mm 0,14 280110 Head 35 mm 0,4 280115 Head 3/4" 0,14 280122 Head 1 5/8" 0,48

Tube Flaring and Expanding Kit

Head 42 mm

0,43

280116

280111



Eccentric chrome plated cone: excellent and tight flares Knurling heads: easy to mount

Tool for making flat flares on pipe: for flat sealing system

> Can be used on all **MGF** flaring tools (excluding the handle clutch release models)

FLAREKIT

Head 7/8"

Tube Flaring and Expanding Tool

Eccentric chrome plated cone for excellent 45° flares

0,14

 The only tool for tube expansion on small diameters: perfect for HVAC and plumbing copper piping

Nailed heads:

- Jaws for inch and millimeter sized pipes available
- Standard supply: tool for 45° flares and expanding tubes, heads and jaws in plastic molded case.

Art.	Model / Range	Weight
923299	1/8″-3/16″-1/4″-5/16″-3/8″-7/16″-1/2″-5/8″-3/4″	2,1 Kg
923298	4, 4.75, 6, 8, 10, 12, 14, 16, 19 mm	2,1 Kg
923598	Adaptor 90° (not included)	1,04 kg

Adapting Tool for Flat Flares

Adapter for flat flares on pipes. Can be used on **all MGF flaring tools** (excluding the handle clutch release models)

Packaged in blister.

Art.	Range	Weight
923598	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	0,2 Kg



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280104

Head 16 mm

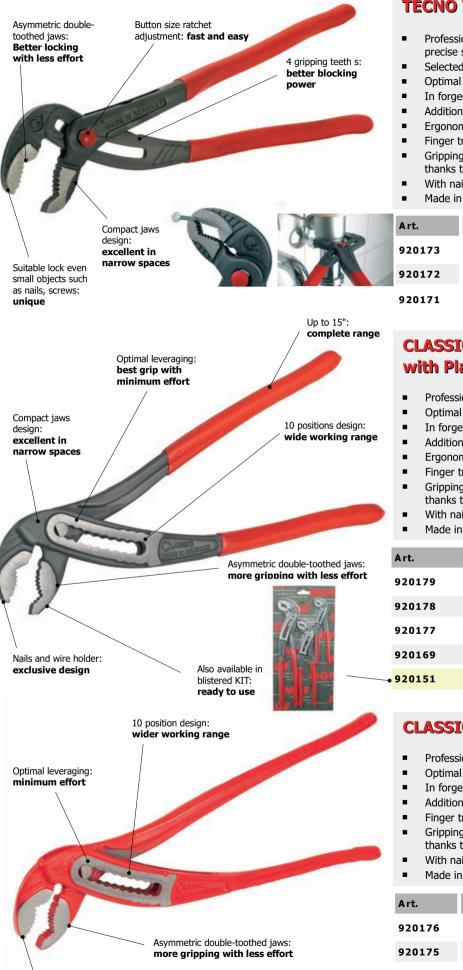
0,14

Pliers

"Take control of your job or it will take control of you"

Benjamin Franklin (1706-1790)

Adjustable Waterpump Pliers



Nails and wire holder: exclusive design

TECNO Waterpump Plier

- Professional grade waterpump plier with automatic precise size adjustment
- Selected size remains also once the plier is opened
- Optimal geometry with self locking jaws
- In forged and oil-hardened chrome-vanadium steel
- Additional hardening on cogs
- Ergonomic handle in vinyl
- Finger trap protection against squeezing
- Gripping performance 40% above ISO standards thanks to arch-shaped pitch adjustment
- With nail and wire holder
- Made in Germany

Art.	Length	Width	Weight
920173	10″ / 250 mm	1 1/2″ / 50 mm	0,37 Kg
920172	12" / 320 mm	2 1/2" / 75 mm	0,63 Kg
920171	15″ / 400 mm	3″ / 100 mm	1,25 Kg

CLASSIC Waterpump Plier with Plastic Handle

- Professional grade waterpump plier
- Optimal geometry with self locking jaws
- In forged and oil-hardened chrome-vanadium steel
- Additional hardening on cogs
- Ergonomic handle in vinyl
- Finger trap protection against squeezing
- Gripping performance 40% above ISO standards thanks to arch-shaped pitch adjustment
- With nail and wire holder
- Made in Germany

Art.	Length	Width	Weight		
920179	7″ / 180 mm	1 1/4" / 40 mm	0,180 Kg		
920178	10" / 240 mm	1 1/2" / 50 mm	0,315 Kg		
920177	12" / 300 mm	2 1/2" / 65 mm	0,490 Kg		
920169	15" / 400 mm	3" / 100 mm	1,025 Kg		
920151	Kit pliers with plastic handle in blister: 7", 10", 12"				

CLASSIC Waterpump Plier

- Professional grade waterpump plier
- Optimal geometry with self locking jaws
- In forged and oil-hardened chrome-vanadium steel
- Additional hardening on cogs
- Finger trap protection against squeezing
- Gripping performance 40% above ISO standards thanks to arch-shaped pitch adjustment
- With nail and wire holder
- Made in Germany

Art.	Length	yth Width	
920176	7″ / 180 mm	1 1/4" / 40 mm	0,145 Kg
920175	10" / 240 mm	1 1/2" / 50 mm	0,315 Kg
920174	12" / 300 mm	2 1/2″ / 65 mm	0,475 Kg



Adjustable Waterpump Pliers

Adjustable Waterpump Pliers

- Classic 7 positions design
- Gripping power according to ISO specifications
- Made with oil-hardened chrome-vanadium steel
- Finger trap protection for safe work, prevents injuries caused by squeezing

Art.	Lenght	Width	Weight
920196	7″ / 175 mm	1″ / 30 mm	0,165 Kg
920195	10" / 240 mm	1 1/4" / 40 mm	0,325 Kg
920194	12" / 300 mm	1 1/2" / 49 mm	0,580 Kg
920187	16" / 400 mm	3″ / 100 mm	1,280 Kg

Adjustable Waterpump Pliers with Plastic Handle

- Classic 7 positions design
- Gripping power according to ISO specifications
- Made with oil-hardened chrome-vanadium steel
- Finger trap protection for safe work, prevents injuries caused by squeezing

Art.	Lenght	Width	Weight
920199	7″ / 175 mm	1″ / 30 mm	0,165 Kg
920198	10" / 240 mm	1 1/4" / 40 mm	0,325 Kg
920197	12" / 300 mm	1 1/2" / 49 mm	0,580 Kg
920186	16" / 400 mm	3″ / 100 mm	1,360 Kg

Groove Joint Waterpump Pliers

- Made with zinc plated chrome vanadium hardened steel
- Ergonomic comfort anti-slip plastic handle
- Strong self-gripping teeth for joints, fasteners and pipes

Art.	Ø Max		Lunghezza		Peso
920193	1″	30 mm	8″	230 mm	0,24 Kg
920192	1 1/2″	45 mm	10″	250 mm	0,40 Kg
920191	2"	54 mm	12″	315 mm	0,62 Kg
920190	4″	95 mm	16″	418 mm	1,10 Kg

Siphons and Connectors Pliers

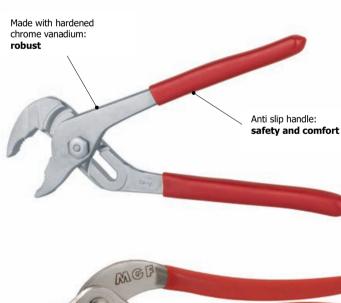
- With removable non-slip plastic jaws, providing a secure grip with minimal chance of damaging your pipe
- To be used on pipes, hoses, fittings, and other cylindrical materials, up to 65 mm in diameter
- Ergonomic comfort anti-slip plastic handle
- Made in oil induction hardened steel

Art.	Ø Max		Lenght	Weight	
920189	2"	65 mm	10″	254 mm	0,30 Kg



Asymmetric double-toothed jaws: **better gripping with less effort**

Made according to DIN/ISO 8976: guaranteed to be reliable



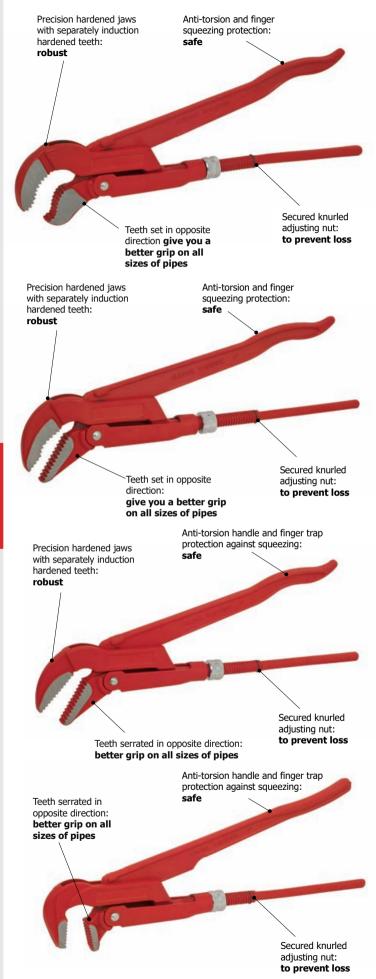
Removable non slip plastic

for siphons and chromium-plated pipes

iaws:

Handle in plastic: anti slip operation

Swedish Pipe Wrenches



45° Swedish Pipe Wrench S-Type

Art.	Ø Max		Length		Weight
920799	1/2″	22 mm	10″	250 mm	0,40 Kg
920798	1″	35 mm	12″	320 mm	0,79 Kg
920797	1 1/2″	46 mm	16″	420 mm	1,43 Kg
920796	2″	65 mm	20″	530 mm	2,37 Kg
920795	3″	80 mm	24″	640 mm	4,16 Kg

45° Swedish Pipe Wrench with Notch

Art.	Ø Max		Length		Weight
920599	1/2″	22 mm	10″	250 mm	0,42 Kg
920598	1″	35 mm	12″	320 mm	0,75 Kg
920597	1 1/2″	46 mm	16″	420 mm	1,40 Kg
920596	2″	65 mm	20″	560 mm	2,32 Kg

45° Swedish Pipe Wrench Flat Type

Art.	Ø Max		Length		Weight
920595	1″	35 mm	12″	320 mm	0,75 Kg
920594	1 1/2″	46 mm	16″	420 mm	1,40 Kg
920593	2″	65 mm	20″	560 mm	2,32 Kg

90° Swedish Pipe Wrench

Art.	Ø Max		Length		Weight
920699	1″	35 mm	12″	320 mm	0,73 Kg
920698	1 1/2″	46 mm	16″	420 mm	1,31 Kg
920697	2″	65 mm	20″	560 mm	2,32 Kg
920696	3″	80 mm	24″	620 mm	2,97 Kg



American Pipe Wrenches

American Heavy Duty Pipe Wrench

Art.	Ø Max		Lenght		Weight
925099	1″	35 mm	8″	200 mm	0,42 Kg
925098	1 1/2″	49 mm	10″	250 mm	0,83 Kg
925097	2″	60 mm	12″	300 mm	1,30 Kg
925096	2″	60 mm	14″	355 mm	1,70 Kg
925095	2 1/2″	76 mm	18″	457 mm	2,60 Kg
925094	3″	90 mm	24″	609 mm	4,50 Kg
925093	5″	140 mm	36″	914 mm	9,20 Kg
925092	6″	166 mm	48″	1200 mm	17,00 Kg

American Heavy Duty 90° Pipe Wrench

Art.	Ø Max		Lenght		Weight
925085	2″	60 mm	14″	355 mm	1,60 Kg
925084	2 1/2″	76 mm	18″	457 mm	2,70 Kg

American Heavy Duty 35° Pipe Wrench

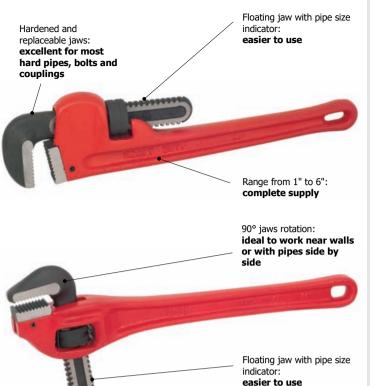
Art.	Ø Max		Lenght		Weight	
925091	1″	35 mm	8″	200 mm	0,35 Kg	
925090	1 1/2″	49 mm	10″	250 mm	0,80 Kg	
925089	2″	60 mm	12″	300 mm	1,30 Kg	
925088	2″	60 mm	14″	355 mm	1,70 Kg	
925087	2 1/2″	76 mm	18″	457 mm	2,30 Kg	
925086	3″	90 mm	24″	609 mm	4,00 Kg	

American Aluminum Pipe Wrench

Art.	Ø Max		Lenght		Weight
920499	1 1/2″	49 mm	10″	250 mm	0,50 Kg
920498	2″	60 mm	14″	355 mm	0,96 Kg
920497	2 1/2″	76 mm	18″	457 mm	1,54 Kg
920496	3″	90 mm	24″	609 mm	2,65 Kg
920495	5″	140 mm	36″	914 mm	4,96 Kg
920494	6″	166 mm	48″	1200 mm	7,49 Kg

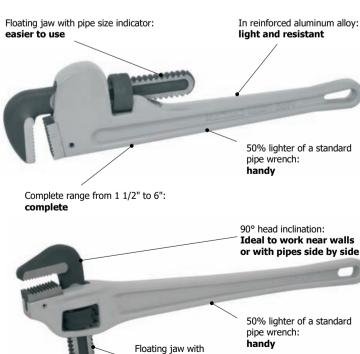
American 90° Aluminum Pipe Wrench

Art.	Ø Max		Lenght		Weight
920493	2″	60 mm	14″	355 mm	0,84 Kg
920492	2 1/2″	76 mm	18″	457 mm	1,28 Kg
920491	3″	90 mm	24″	609 mm	2,65 Kg



35° head inclination: excellent to work with pipes side by side





pipe size indicator:
 easier to use

Pipe Wrenches



Body in forged and hardened steel, chain in hardened steel: **sturdy and robust**

Pipe Wrench mod. BLITZ

Art.	Ø Max	Ø Max		h	Weight
920999	1″	35 mm	7″	175 mm	0,33 Kg
920998	1 1/2″	49 mm	9″	225 mm	0,56 Kg
920997	2″	60 mm	10″	275 mm	0,78 Kg
920996	2 1/2″	76 mm	12″	300 mm	0,96 Kg
920995	3″	90 mm	14″	350 mm	1,06 Kg

Chain Pipe Wrench

- Dual hardened jaws for ratchet effect and fast operation
- Can be used in both directions
- Heavy-duty pipe wrench, with forged and hardened handle and hardened chain

Art.	Ø Max		Length		Chain	Weight	
925199	4″	115 mm	12″	300 mm	330001	0,78 Kg	

Heavy Duty Chain Pipe Wrench

Art.	Ø Max		Length	Chain	Weight
925198	4″	115 mm	900 mm	330002	5,71 Kg
925197	6″	166 mm	900 mm	330003	6,60 Kg
925196	8″	220 mm	1100 mm	330004	11,80 Kg
925195	10″	270 mm	1100 mm	330005	13,00 Kg
925194	12″	324 mm	1300 mm	330006	16,80 Kg
925193	16″	432 mm	1300 mm	330007	19,00 Kg

Strap Wrench

- Excellent for polished pipes, i.e. chrome plated siphons
- Special nylon strap provides high grip on all pipes
- Two models available

Art.	Ø Max		Length	Belt	Weight	
925192	3″	100 mm	450 mm	330008	0,33 Kg	
925191	8″	220 mm	1000 mm	330009	0,34 Kg	



Strong and oversized: excellent with bigger tubings



Combination Pliers

CLASSIC Combination Pliers

- Induction hardened jaws and sharp cutting edge
- Gripping surfaces for flat and round material, versatile
- Improved leveraging point, with excellent power transmission
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Made in Germany

Art.	Length	Ø max copper	Ø max steel	Weight
920350	6 1/2" / 165 mm	4 mm	2 mm	0,20 Kg
920349	7″ / 180 mm	5,2 mm	2,2 mm	0,25 Kg
920348	8″ / 205 mm	5,9 mm	2,5 mm	0,28 Kg

Needle-Nose Combination Pliers

- Induction hardened jaws and sharp cutting edge
- Slim head and pointed, anti-twist jaws design: excellent tool for confined areas thanks to slim head design and pointed jaws (anti-twist)
- Improved leveraging point, with excellent power transmission
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Made in Germany

Art.	Length	Ø max copper	Ø max steel	Weight
920341	7″ / 170 mm	3 mm	1 mm	0,16 Kg
920340	8″ / 205 mm	4 mm	2 mm	0,21 Kg

Wire stripper

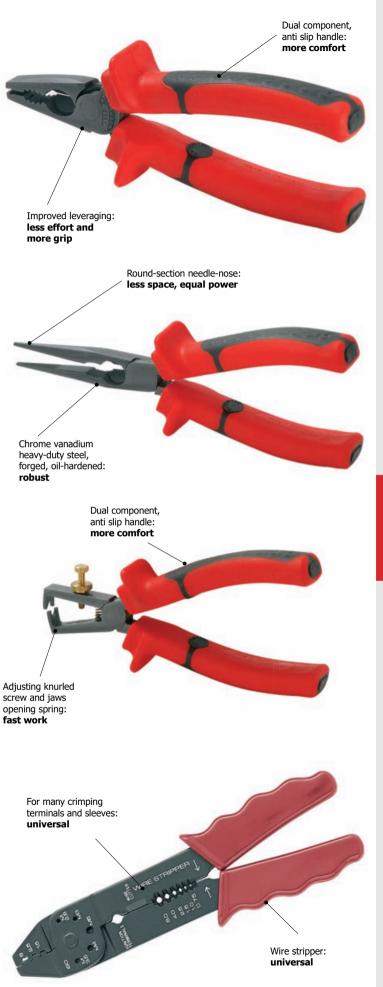
- For single, multiple and fine stranded cables, with plastic or rubber insulation
- With knurled adjusting screw
- With jaws opening spring
- Made with special oil induction hardened steel
- Bi-component handle, anti slip
- Length: 160 mm
- Made in Germany

Art.	Model	Weight
920339	Wire stripper	0,38 Kg

Crimping Plier and Wire Stripper

- For cutting and stripping wires and cables and crimping insulated and non-insulated terminals, connectors and plug type connectors
- For 1,5 to 6 mm insulated terminals
- For M2,5 to M5 end sleeves
- For 1,5 to 4,5 mm non-insulated terminals
- Wire stripper for cables with section: 0,75-1-1,5-2,5-4-5 \mbox{mm}^2
- Length: 215 mm

Art.	Model	Weight
920338	Crimping Plier and Wire Stripper	0,38 Kg





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Spanners and Screwdrivers

"Money is like an arm or a leg: use it or lose it."

Henry Ford (1863-1947)

Basins Wrenches



Art.

920396

920397

920399

Model

Standard

Forged

Telescopic

- ✓ Fasteners behind sinks are nearly impossible to reach with standard wrenches. These tools allow operation behind sinks and loosen nuts and connections that hold the faucet in place
- ✓ All the jaws are forged, hardened and 0-180° swiveling for excellent operation
- Sliding or swiveling handle for easy operation in the narrow spaces near sinks
- Teethed jaws for a perfect grip
- ✓ Packed in blister

Drain Wrench





Width

10 - 32 mm

15 – 32 mm

10 – 32 mm

Length

288 mm

235 mm

275 – 460 mm

Weight

0,49 Kg

0,49 Kg

1,12 Kg

- ✓ For all drains with 1" and 1 1/4" side openings
- Body in aluminum, teeth in brass and springs in special steel
- ✓ With the available adapters it is possible to work on all the drains on the market
- The adapters are in aluminum, strong and safe for polished drains
- ✓ Adapters are optionals

Art.	Model	Length	Kg
920398	Universal Drain Wrench	160 mm	0,3
920395	Shower Drain Adapter for Drain Wrench	-	-
920394	Bathtub Overflow Adapter for Drain Wrench	-	-
920393	OMP, SILFRA, HANSGROHE Drain Wrench Adapter	-	-



Radiator Nipples Key



Thanks to the 22.5° inclination of the square hole it is possible to operate in narrower spaces than with spanners with 45° hole

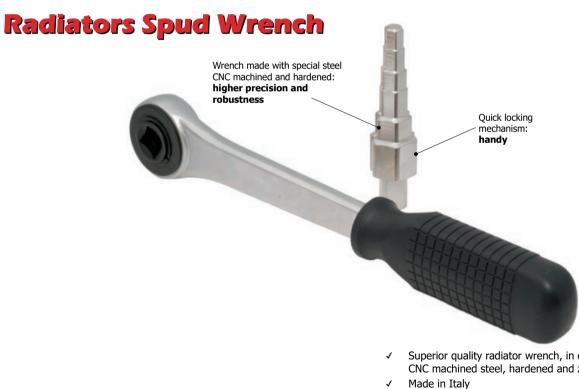
> The radiator nipples wrench is made in forged steel, as well as the square hole handle: stronger than spanners with tubular handles

Art.	Model	Size	Length	Weight
915600	Radiator Nipples Key Handle	□ 18 mm	500 mm	1,40 Kg
915700	Ratchet Wrench	🗆 18 mm	500 mm	1,40 Kg
915000	Radiator Nipples Wrench	1″	500 mm	0,80 Kg
915100	Radiator Nipples Wrench	1″	750 mm	1,10 Kg
915200	Radiator Nipples Wrench	1″	1000 mm	1,45 Kg
915300	Radiator Nipples Wrench	1 1/4"	500 mm	1,10 Kg
915400	Radiator Nipples Wrench	1 1/4"	750 mm	1,57 Kg
915500	Radiator Nipples Wrench	1 1/4"	1000 mm	2,10 Kg

Art. 915700 Ratchet Wrench 18 mm



- Joining key for all 1" and 1 1/4" radiators nipples
- ./ The new handle geometry helps reducing the operating space
- Joining radiators is now easier and faster
- The nipples wrenches are provided in several lengths for all ./ the market requirements



Art.	Model	Weight
916000	Radiator Spud Wrench + Ratchet Wrench	0,71 Kg
916100	Radiator Wrench for 3/8" to 1" Spuds	0,14 Kg
916200	Reversible Ratchet Wrench with square hole 1/2"	0,51 Kg

- Superior quality radiator wrench, in chrome-vanadium CNC machined steel, hardened and zinc-coated
- Stronger and more accurate than standard radiator J nipples spanners
- Suitable for assembling radiator fittings and valves, in J return fittings and tap extensions
- Multistep design allows removal of various size radiator 1 spuds
- 1/2"square connector for ratchet wrench
- Supplied in blister √

www.mgftools.com

Wrenches



Hook adapter:

drains

useful for basin

Plastic molded case: Easy to use

Hexagon Nut Basin Wrench

Supplied in blister

Supplied in blister:

protection

product display and

Opening 10 – 32 mm: wide working range

- For tightening and loosening tap nuts
- Hexagon pipe wrench, 25 cm long
- Removable jaw, adjustable up to Ø 32 mm 1 1/4", for sinks fittings, bathtubs, sinks or bidets.
- Hexagonal spanners in the following sizes: 9-10-11-12-13-14-17

Art.	Model	Kg
920392	Nut Basin Wrench Kit 9-10-11-12-13-14-17	0,35
920392KIT	Adapters Kit 9-10-11-12-14-17mm	0,1
920392- C	Exagonal Nut Basin Wrench	0,25
920389	Jaw for basin wrench	0,16

Hexagonal Adapters For Basin Wrench

Art.	Size	Art.	Size
920392-9	9 mm	920392-12	12 mm
920392-10	10 mm	920392-14	14 mm
920392-11	11 mm	920392-17	17 mm

Combination Spanners

Art.	KIT Including:
920421	6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 mm
920422	8, 10, 11, 13, 14, 17, 19, 22 mm

Swiveling Combination Spanners

Art.	KIT Including:
920447	8, 9 ,10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
920448	8, 10, 11, 12, 13, 14, 17, 19 mm

Ratchet Swiveling Combination Spanners

Art.	KIT Including
920449	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
920450	8, 10, 11, 12, 13, 14, 17, 19 mm

Torque Wrench Set

- Each wrench is calibrated before shipping
- Supplied in kit with wrenches inserts set for the following sizes: 17, 22, 24, 26, 27, 29 mm
- Adjustable torque measurement from 10 to 70Nm
- In chrome-vanadium plated steel

Art.	Model
932500	Torque Wrench Set in Molded Case (17-29 mm)
RT_DIN	Calibration Certificate Torque Wrench



Supplied in plastic case

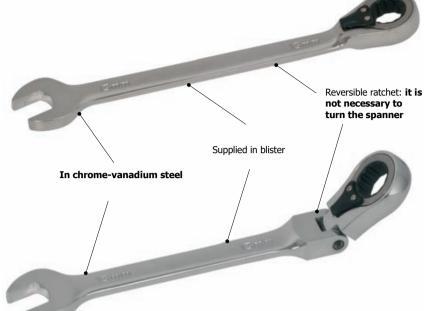




Spanners

Ratchet Combination Spanners Ratchet and Swiveling Combination Spanners

Cod. jack	Cod. jack+articulation	Size
920446	920434	8 mm
920445	920433	9 mm
920444	920432	10 mm
920443	920431	11 mm
920442	920430	12 mm
920441	920429	13 mm
920440	920428	14 mm
920439	920427	15 mm
920438	920426	16 mm
920437	920425	17 mm
920436	920424	18 mm
920435	920423	19 mm



Combination Spanners

Cod.spanner	Size	Cod.Spanner	Size
920420.06	6 mm	920420.20	20 mm
920420.07	7 mm	920420.21	21 mm
920420.08	8 mm	920420.22	23 mm
920420.09	9 mm	920420.23	23 mm
920420.10	10 mm	920420.24	24 mm
920420.11	11 mm	920420.25	25 mm
920420.12	12 mm	920420.26	26 mm
920420.13	13 mm	920420.27	27 mm
920420.14	14 mm	920420.28	28 mm
920420.15	15 mm	920420.29	29 mm
920420.16	16 mm	920420.30	30 mm
920420.17	17 mm	920420.32	32 mm
920420.18	18 mm	920420.34	34 mm
920420.19	19 mm	920420.36	36 mm

In chrome-vanadium forged steel



Hexagonal Pipe Spanners

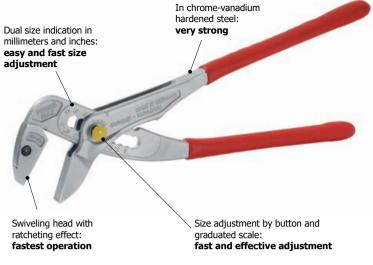
Sized and shaped for replacing the heating elements in the boilers

Immersion Heater Spanner

Art.	Size	Weight
920898	52 x 55 mm	0,64 Kg
920897	55 x 55 mm	0,71 kg
920896	55 x 60 mm	0,77 Kg

Designed for boilers heaters assembling and disassembling: **plumbing tool**

Adjustable Spanners



POWERMAX Button Adjustable Spanner – Plier

- Ideal for mounting fittings with polished surface -
- Faster size setting than in standard adjustable .
- spanners thanks to the button system
- Finger trap protection for safe work, prevents injuries caused by squeezing
- Made of chrome vanadium steel, forged, oil-hardened Box joint with wide guide surfaces
- -•
- Vinyl handle
- High quality finishing .
- Made in Germany

Art.	Width	Length	Weight
920150	0 - 53 mm	10″ / 250 mm	0,37 Kg

Weight 0,07 Ka

0,15 Kg

0,30 Kg

0,52 Kg

0,82 Kg

Adjustable Spanners

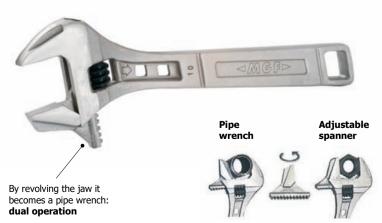
	Art.	Width	Length	
0	920299	0 - 14 mm	4″	101 mm
	920298	0 - 20 mm	6″	152 mm
tion in millimeters: / adjustable	920297	0 - 25 mm	8″	203 mm
	920296	0 - 30 mm	10″	254 mm
	920295	0 - 35 mm	12″	304 mm

Anti-slip plastic handle: more comfort



Ergonomic Adjustable Spanners

Art.	Width	Lengt	h	Weight
920294	0 - 25 mm	8″	203 mm	0,33 Kg
920293	0 - 30 mm	10″	254 mm	0,59 Kg
920292	0 - 35 mm	12″	304 mm	0,90 Kg



Combination Adjustable Spanners

Art.	Width	Ø Max	Lengt	h	Weight
920291	0 - 30 mm	1 1/4″	10″	254 mm	0,55 Kg
920290	0 - 35 mm	1 1/2″	12″	304 mm	0,85 Kg



Allen Wrenches

Metric Hex Allen Wrench Set

- Ball end hex key set (7 wrenches)
- Keys feature chamfered ends on both sides of the key to help guide the key into the fastener
- Short side of key has slandered head for extra torque
- Keys are resistant to rotational distortion
- Plastic holder or metal folding holder

Art.	Wrenches	Size
920249	7	2,5 – 3 – 4 – 5 – 6 – 8 – 10 mm
920240	7	1,5 – 2 – 2,5 – 3 – 4 – 5 – 6 mm

T Handle Hex Allen Wrench with Ball End

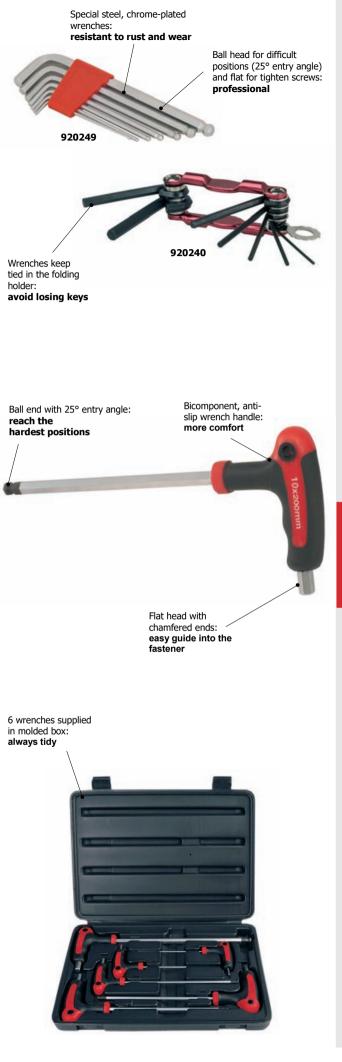
- Bicomponent T handle wrench, made with steel passing through handle for maximum comfort and torque
- Anti slip, comfortable ergonomic handle for best torque
- Keys provided with chamfered ends on both sides of the key to help guide the key into the fastener
- Ball end for working in difficult positions, allowing a 25° entry angle
- Size markings on the T-handle

Art.	Size
920230	2 mm
920229	2,5 mm
920228	3 mm
920227	4 mm
920226	5 mm
920225	6 mm
920224	8 mm
920223	10 mm

Allen Wrenches and Torx Wrenches Sets

- Allen wrenches set and Torx wrenches set: full range for every demand
- 6 wrenches set in molded plastic case: always tidy
- Dual component, anti slip, T handle: top class comfort
- Steel wrench passing through handle, for maximum torque transmission
- Allen wrenches with ball end, with 25° entry angle, for difficult position access
- Flat head with chamfered ends for easy access and high torque tightening
- Both Torx and Allen wrenches are made with chromevanadium steel

Art.	Wrenches	Size	Ľ.
920222	6 Allen wrenches	3 – 4 – 5 – 6 – 8- 10 mm	۲
920219	6 TORX	T10 – T15 – T20 – T25 – T30 – T40	۲





Precision sand-blasted tips, made in chrome-vanadium-molybdenum steel, that fits perfectly in fasteners: **strong and accurate** Soft bi-component, anti slip handle: for great torque and comfort

Size indication on the butt: **easy to identify**

IIIP III MOF

Anti-slip and magnetic screwdriver tip: **hold screws securely**

Available in standard, nano and insulated (ins.): wide range of choice

Flat Screwdriver (DIN 5265)

Art.	Size	Thickness	Handle
919098	60 x 3 mm	0.4 mm	100 mm
919097	100 x 3 mm	0.5 mm	100 mm
919096	125 x 4 mm	0.8 mm	100 mm
919095	150 x 5 mm	1,0 mm	105 mm
919088	125 x 5,5 mm	1,0 mm	110 mm
919099	25 x 6 mm	1.2 mm	60 mm (nano)
919094	150 x 6 mm	1.2 mm	110 mm
919090	125 x 6,5 mm	1.2 mm	110 mm
919087	150 x 6,5 mm	1.2 mm	110 mm
919089	150 x 8 mm	1.2 mm	110 mm
919093	100 x 3 mm (ins.)	0,5 mm	100 mm (ins.)
919092	125 x 4 mm (ins.)	0,8 mm	100 mm (ins.)
919091	150 x 5,5 mm	1.0 mm	100 mm

Philips Screwdriver (DIN 5262)

Art.	Size	Cross	Handle
919199	25 x 5.5 mm	PH-2	60 mm (nano)
919198	60 x 3 mm	PH-0	100 mm
919197	100 x 5 mm	PH-1	105 mm
919196	125 x 6 mm	PH-2	105 mm
919192	100 x 5 mm (ins.)	PH-1	105 mm (ins.)
919191	125 x 6 mm (ins.)	PH-2	105 mm (ins.)

Pozidriv Screwdriver (DIN 5262)

Art.	Size	Cross	Handle
919195	60 x 3 mm	PZ-0	100 mm
919194	100 x 5 mm	PZ-1	105 mm
919193	125 x 6 mm	PZ-2	105 mm



Available in standard, nano and insulated (ins.): wide range of choice

C.C.

Screwdrivers

Torx Screwdriver

Art.	Size	Cross	Handle
919299	75 x 3 mm	T-10	100 mm
919298	75 x 4 mm	T-15	100 mm
919297	100 x 4 mm	T-20	100 mm
919296	100 x 5 mm	T-25	105 mm
919295	115 x 5 mm	T-27	105 mm
919294	125 x 6 mm	T-30	105 mm
919293	125 x 7 mm	T-40	110 mm

Hexagonal Ball End Screwdriver

Art.	Size	Hexagon	Handle
919399	75 x 3 mm	3 mm	100 mm
919398	100 x 4 mm	4 mm	100 mm
919397	100 x 5 mm	5 mm	105 mm
919396	125 x 6 mm	6 mm	105 mm

Blistered Screwdrivers Set

MINI Kit Flat screwdrivers: 125x5.5 Philips screwdrivers:	100x3 PH-1	150x5 PH-2	
STANDARD Kit <i>Flat screwdrivers:</i> 60x3 <i>Philips screwdrivers:</i>	100x3 PH-1	150x5 PH-2	100x3 IS
MAXI Kit Flat screwdrivers: 100x3 Philips screwdrivers: PH-1	125x4 PH-0	125x5.5 PZ-1	150x6.5 PZ-2

Art.	Model
919599	MINI Screwdrivers Set
919598	STANDARD Screwdrivers Set
919597	MAXI Screwdrivers Set

Screwdrivers Display Stand

Including the following screwdrivers:

Flat screwdrivers 100 x 5.5 m 125 x 6.5 m 150 x 8 mm 100 x 3 mm 125 x 4 mm 150 x 5 mm Philips screwdrivers PH-1 PH-2 PZ-1 PZ-2	nm 5 1 5 1 7 1 7
Art.	Model

919596

Screwdriver Counter Display



Blister pack: practical and transparent







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Measurement

"Measure your cloth ten times because you will be able to cut it just once."

Anonimo

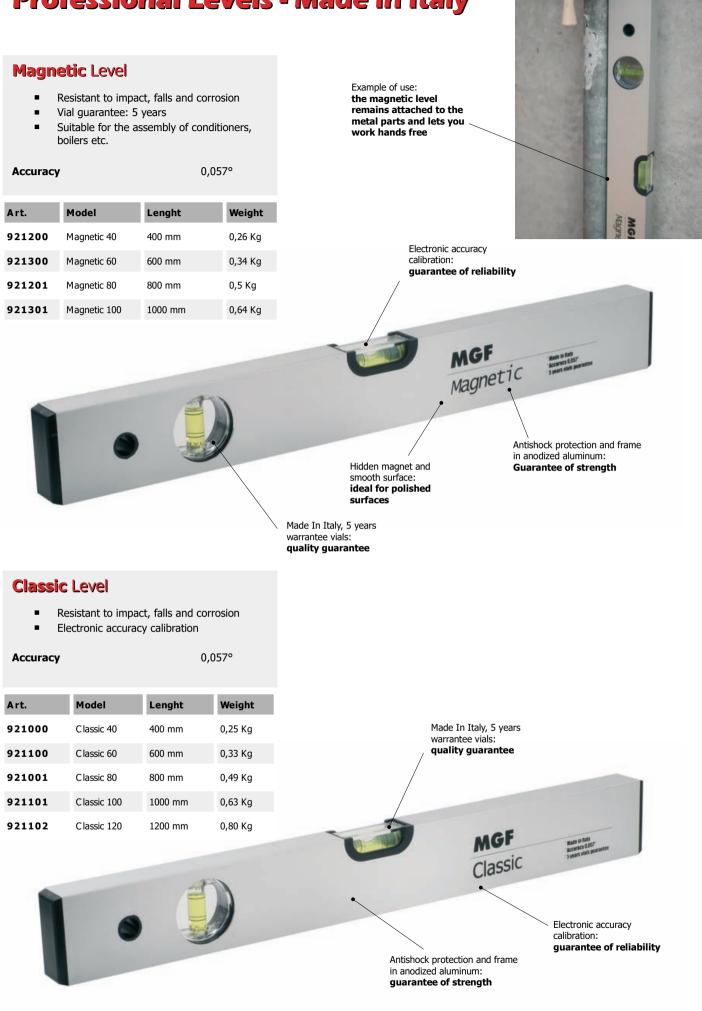
Professional Levels - Made in Italy





Professional Levels - Made in Italy

www.mgftools.com



Hand Tools



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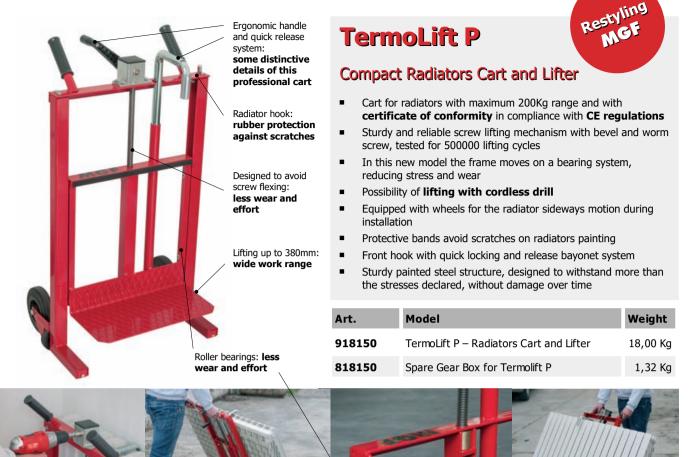
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Other Tools

"Man's first need is the unnecessary."

Albert Einstein (1879-1955)

Radiators Carts and Lifters



TermoLift S

Radiator Cart and Lifter with Stairs Wheels

- Cart and lifter for radiators with the maximum capacity 200Kg
- Sturdy and reliable screw lifting mechanism
- Equipped with 6 wheels also for the translation of the radiator during the assembly
- With 3 coupled stair wheels for easily climb stairs
- Equipped with wheels locking system

Art.	Model	Kg
918151	TermoLift S Radiators Cart & Lifter w/Stair Wheels	27,00
918152	Gear Maintenance Kit for Termolift S	16,00
918153	Rod with Locking System for Termolift S	16,00
918151-26	Stair Wheels for Termolift S	1,00
918150-26	Ø 26 Wheel for Termolift S	0,04
918151-50	Ø 50 Wheel for Termolift S	0,06
918150-50	Handles for Termolift S	16,00
918150-1	Brass Bushing for Termolift S Screw	0,02
918152M	Gearbox Handle for Termolift S	0,02





Excellent also for the radiators sideways motion

120

Caulking Guns

Closed Housing Caulk Gun

- Cartridge housing with bayonet locking system
- 60:15 thrust ratio forward mechanism for with highviscosity materials
- Thumb release help prevents dripping
- Body in anodized aluminum, resistant to corrosion
- Pressure adjustable with trigger

Art.	Model	Lenght	Weight
915802	Closed Housing Caulk Gun	225 mm	0,33 Kg



Glues and Epoxy Caulk Gun

- Suitable for professional use
- For 380ml cartridges
- 60:15 thrust ratio forward mechanism for with highviscosity materials

great power

- Thumb release help prevents dripping
- Reinforced triple slide piston
- Welded triple tie-beam
- Epoxy powder painted steel frame

Art.	Model	Lenght	Weight
915803	Epoxy Caulk Gun	210 mm	1,12 Kg

Reinforced Professional Caulk Gun

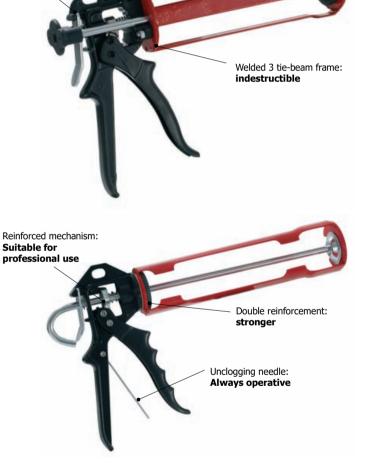
- Epoxy powder painted steel
- Steel construction to help ensure strength
- Smooth rod with hook end for easy dispensing
- 60:25 thrust ratio forward mechanism for with highviscosity materials
- Thumb release help prevents dripping
- With unclogging needle

Art.	Model	Lenght	Weight
915801	Reinforced Professional Caulk Gun	225 mm	0,33 Kg

Professional Caulking Gun

- Epoxy powder painted steel
- Steel construction to help ensure strength
- Smooth rod with hook end for easy dispensing
- 60:25 thrust ratio forward mechanism for with highviscosity materials
- Thumb release help prevents dripping
- With unclogging needle

Art.	Model	Lenght	Weight
915800	Professional Caulk Gun	225 mm	0,33 Kg





Plumbing Tripods, Workstations and Vises



NEW YORK Hinged Vice with Folding Tripod

- Quick release hinged vice
- Wide working range: from 1/8" to 3"
- Folding tripod for easy transportation and storage

Art.	Model	Ø Pipe	Weight
918197	New York Heavy Hinged Vice	1/8″ - 3"	18 Kg
918195	New York Light Hinged Vice	1/8″ - 3"	16 Kg

TRIS 6" Tripod Workstation with Chain Vice

- Sturdy, plumbing workstation with built-in chain pipe vice on folding tripod
- Equipped with useful shelf plate
- Excellent in the building site and the workshop
- With bending formers for 3/8"-1/2"-3/4" pipes
- With chain vice with double fulcrum
- Clamping range Ø 10 165 mm, Ø ¹/₈ 6"
- With hooking screw for improved stability

Art.	Model	Ø Pipe	Weight
918199	Tris Workstation	1/8" - 6" (10-168mm)	21 Kg

STANDARD Folding Workbench

- Sturdy, easy to carry folding workbench for universal use
- Work top in birch multilayer
- Work top with waterproof polished painting
- Folding legs and protecting edges in painted steel

Art.	Working surface	Height	Weight
918698	710 x 450 mm	810 mm	18 Kg
918697	1075 x 625 mm	840 mm	34 Kg

COBRA Hinged Vice

- Fast release hinged vice
- Wide working range: for pipes from 1/8" to 3"
 With holes for convenient assembling on any
- workbench top

Art.	Model	Ø Pipe	Kg
917400	COBRA Hinged Vice	1/8″ – 3″ 10 – 89 mm	5,5



HVAC Tools

"The sweater is a piece of clothing that children should wear when Mom feels cold."

Anonymous

Flaring Tools

Flarekit – for Flaring and Swaging Copper Pipes



Kit for flaring and swaging copper pipes

- Eccentric nichel-chrome plated cone
- Self-centering, slip-on forged steel yoke easily forms quality flares
- Excellent for swaging small diameter pipes, for welding joints in the HVAC technology
- Bars preventing pipe slipping for metric or inch sized pipes

Standard equipment: Tool for flaring and swaging, heads for pipe expanding pipe, plastic molded case

Art.	Operation Range	Weight
923299	1/8"-3/16"-1/4"-5/16"-3/8"-7/16"-1/2"-5/8"-3/4"	2,1 Kg
923298	4, 4.75, 6, 8, 10, 12, 14, 16, 19 mm	2,1 Kg
923598	90° flares adapter for flarekit (optional)	1,04 Kg

FT 400 – Flaring Tool with Handle Clutch Release



Handle clutch release professional flare tool. Precision tool for smooth, uniform flares. Improved productivity with less effort.

- Non ratcheting handle clutch release for a smooth flare
- Eccentric hardened steel flaring cone for a rolling action making uniform flare surface without galling
- Supplied in blister

Standard equipment: handle clutch release flare tool, anti slipping pipe bar holder, battery drill connector

Art.	Operating Range	Weight	
923697	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1	L,63 Kg

FT 800 - Flaring Tool with Handle Clutch Release



Handle clutch release professional flare tool. Precision tool for smooth, uniform flares. Improved productivity with less effort.

- Non ratcheting handle clutch release for a smooth flare
- Eccentric hardened steel flaring cone for a rolling action making uniform flare surface without galling
- Quick connector for battery screwdriver
- Extended operating range anti-slip bar
- Supplied in plastic molded case

Standard equipment: handle clutch release flare tool, anti slipping pipe bar holder, battery drill connector, plastic molded case

Art.	Operating Range	Weight
923699	1/8"-3/16"-1/4"-3/8"-7/16"-1/2"-5/8"-3/4"	2,0 Kg



Flaring Tools

525F – Flaring Tool

Excellent flares on copper pipes in a simple and accurate way.

- Rotating cone, nichel-chrome plated and faceted
- Cone hardened with a special geometry for better, smooth surface, flares without strains
- Pipe anti-slipping bar with diaphragm system suitable for all diameters
- Many sizes, metric and inch, with the single hole diaphragm bar

Standard equipment: pipe flaring tool, universal diameter bar (4-16mm and 3/16"-5/8"), blister

Art.	Operating Range	Weight
923497	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	0,8 Kg
923598	90 Degree Flaring A dapter (optional)	1,04 Kg

Imperial - Flaring Tool

Ideal for flaring tubes made of brass, copper, aluminum and mild steel in a simple and accurate way.

- Cone sanded, hardened and chrome plated for smooth and tighter flares
- Anti-slip pipe holding bar
- Made with high quality special steel
- Long sliding lever, less effort and handy in narrow spaces

Standard equipment: Flare tool, pipe holding bar. Packed in blister

Art.	Operating Range	Weight
923399	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	1,0 Kg
923598	90 Degree Flaring A dapter (optional)	1,04 Kg

Long sliding lever: Less effort and handy in narrow spaces

Many diameters and sizes just one bar:

in narrow spaces

Long sliding lever:

lesseffort and handy in narrow spaces

excellent for flaring

and faceted cone: smooth and tight flares

Nickel-Chrome plated and faceted cone: **smooth and tighter**

Quick release and

locking system bar: increased productivity

flares

Nickel-Chrome plated

HVAC Tools

Quick – Flaring Tool

Excellent for accurate and smooth flares on pipes

- Pipe holding bar for metric or inch pipes
- Nickel-chrome plated faceted cone
- Quick release and locking system on the bar, increases productivity

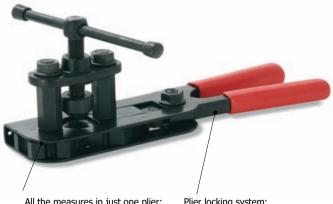
Standard equipment: flare tool, anti-slip pipe holding bar. Packed in blister

Art.	Operating Range	Weight
923499	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	0,9 Kg
923498	6, 8, 10, 12, 15, 16 mm	0,9 Kg
923598	90 Degree Flaring A dapter (optional)	1,04 Kg



Flare Tools

COMPACT – Plier Flaring Tool



All the measures in just one plier: adjust the size by rotating the blocks

Plier locking system: quick and effective Excellent flares on pipes made of brass, copper, aluminum and mild steel up to 1 mm in thickness. Recommended for the HVAC professionals.

Cone tempered, sanded and floating for perfect flares

- Self centering mechanism
- Made of high quality special steel -
- All measures in a single unit, no losing parts
- High efficiency plier locking system with anti slip, vinyl handles. Provides fast pipe locking and release

Standard equipment: plier flaring tool, packed in blister

Art.	Operating Range	Weight
923599	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	1,0 Kg
923598	90 Degree Flaring Adapter (optional)	1,04 Kg

90 Degree Flaring Adapter



Adapter for 90 degrees flares from a base of 45 degrees flare. Suitable for all MGF flaring tools excluding the models equipped with handle

Standard equipment: 90 degree flaring adapter, packed in blister.

Art.	Operating Range	Weight
923598	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"	0,14 Kg

- Improves the flare surface finishing thus the coupling with the
- Special oil enriched with additives and surfactants

Art.	Model	Qty	Box
790101	Pipe Flaring Oil	100 ml	1



Dual Stage Vacuum Pump Italian Quality Vacuum Pump for Professionals



Deep final vacuum: reduced maintenance costs and increased efficiency of the refrigeration cycle

Technical Features

Flow Rate Water Evaporation (@ 20°C) Power Supply Service Class Isolation class Final Vacuum Vacuum Gauge			3(2: S: IF 1) m Pi	2 L/min 0 g/h 30 V ~ 50 1 2X5 x10 ⁻² mbar leasured a neurop 80 mm, c	; ccording	I
Art.	Flow Rate	Vacuum	Water	Power	Kg	Vac+Sol
930400	52 L/min	10 ⁻² mbar	30 g/h	250 W	7,5 Kg	yes
930499	52 L/min	10 ⁻² mbar	30 g/h	250 W	7,3 Kg	no
Art.	Тіре			Full Ra	inge	Weight
272005	Vacuum Gau	Vacuum Gauge (rear 1/8" fitting) 0 ÷ 1000 [mbar]				
790100	Mineral Oil fo	_)	-	0,47 Kg		
790102	Mineral Oil fo	or Vacuum P	umps (1,0l	_)	-	0,95 Kg

High humidity flow rate: avoid acid reactions and ice damaging or blocking the system







Modular and professional kit for installation, testing and refrigerant filling of HVAC systems.

Vacuum pump made in MGF, excellent to evacuate all air and moisture from the pipelines.

- Integrated solenoid
 Air-oil separation filter
- Air-oil separation filter
 High water evaporation (
- High water evaporation capacity
 Deep final vacuum
- Deep final vacuum
- Manifolds frame and gauge protection

Manifolds with pulse-free gauges and knobs easy to handle. The seals are mechanical, without membranes or gaskets subject to wear to be replaced.

The exclusive frame allows to handle the manifold during vacuum, without disconnecting it from the pump.

Equipped with carrying case: compact and easy to carry.

Each Set Includes:

- Dual stage vacuum pump with universal gauge manifold support frame
- High and low pressure hose kits for all refrigerants specified in the table below
- 4-way gauge manifolds for the refrigerants specified in the table below
- Refrigerant cylinders support for gases specified in the table below
- 5 kg digital scale (art. 932098) or 100 kg (Art. 932001)
- Mineral oil for vacuum pumps
- Instructions manual

Models with 5 Kg Scale

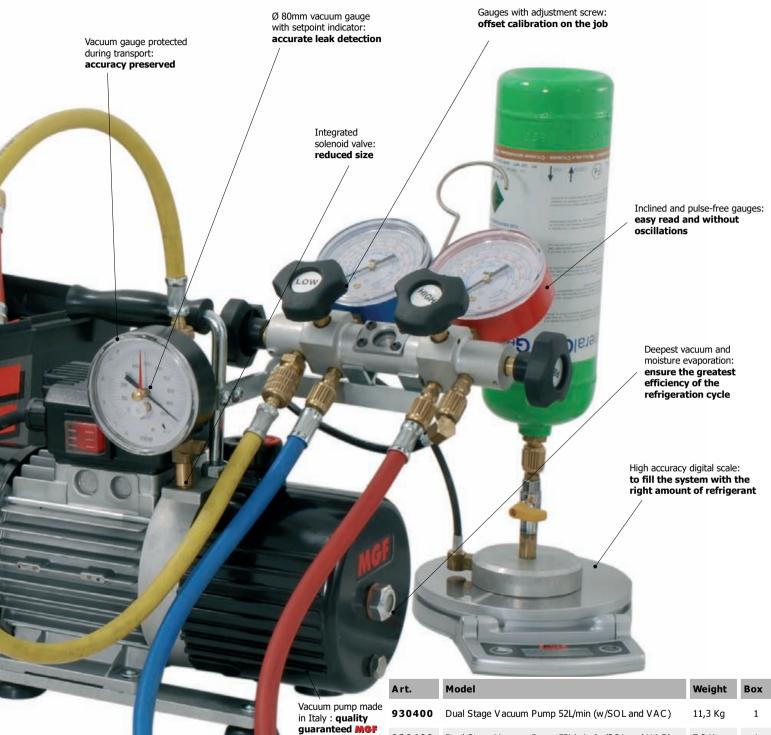
Art.	Model	R422	R424	R410	R407	R134	R404	R32
930100	AC System 1	•	•	•	٠	٠	٠	٠
930200	AC System 2	•	•		•	•	•	
930300	AC System 3			•				•
Models with 100 Kg Scale								

R422 Art. Model R424 R410 R407 R134 R404 R32 930110 AC System 1 930210 AC System 2 ٠ 930310 AC System 3

Oil for vacuum pumps: preserves the pump and provides the deepest vacuum



Complete System for the Conditioner Installation



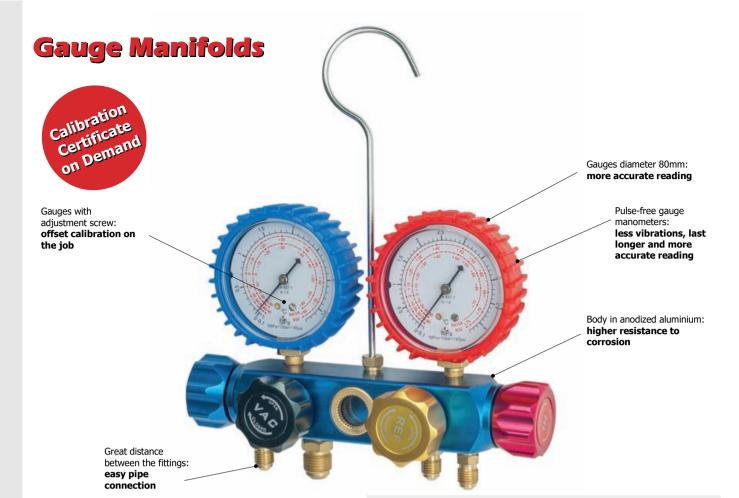
Technical Features

Pump	°C) 30 g/h 5 Kg – 1 g 5 110 Kg - 5g 250 W 230 V ~ 50 Hz 51	302080	Pipes Kit 5/16"-5/16" 45° 1500 RI
Water Evaporation (@ 20°C) Scale		930999	Cylinder Holder 1/4" (for AC Sys
Power		930998	Cylinder Holder 5/16" (for AC Sy
Power Supply		932098	Scale MINI 5 Kg
Service Class Insulation Class		932001	Scale MAXI 100 Kg
		790100	Mineral Oil 0,5L for vacuum pum

930400	Dual Stage Vacuum Pump 52L/min (w/SOL and VAC)	11,3 Kg	1
930499	Dual Stage Vacuum Pump 52L/min (w/SOL and VAC)	7,3 Kg	1
302040	Pipes Kit 1/4"-1/4" 45° 1500 RNK (for AC System 1 & 2)	1,10 Kg	1
302080	Pipes Kit 5/16"-5/16" 45° 1500 RNK (for AC System 3)	1,10 Kg	1
930999	Cylinder Holder 1/4" (for AC System 1 and 2)	0,45 Kg	1
930998	Cylinder Holder 5/16" (for AC System 1 and 3)	0,43 Kg	1
932098	Scale MINI 5 Kg	0,54 Kg	1
932001	Scale MAXI 100 Kg	2,50 Kg	1
790100	Mineral Oil 0,5L for vacuum pumps	0,46 kg	1

www.mgftools.com

HVAC Tools



- Pulse free gauge manometers with adjusting screw ~
- Ergonomic handles 1
- Wide distance between fittings allows easy operation 1
- HNBR gaskets, without membranes to change J
- Refrigerants range: R410A, R32 (art. 930792) -1 R422, R407, R134a (art. 930793)
- Connections: ./

HVAC Tools

- 3 x 5/16" + 1 x 3/8" SAE (art. 930792) .
- 3 x 1/4" + 1 x 3/8" SAE (art. 930793) •
- 4 ways for convenient operation: filling and vacuum, besides pressure reading
- Gauge manometer Ø80 mm, class 1.0, EN 832 compliant
- Body in anodized aluminum √

Technical Features

Gauge Manometer
Body
Gaskets
Certifications
Weight

Ø80 mm, class 1.0 anodized aluminium HNBR EN 832 1,069 Kg

Art.	Gas Scales	Connections	Ways
930792	R410A, R32	3 x 5/16" + 1 x 3/8" SAE	4
930793	R422, R407, R134a	3 x 1/4" + 1 x 3/8" SAE	4

Gauge Manometers and Vacuum Gauges 1/8"G Calibration









Manometers with adjustment screw:



Gauge manometers 80 mm diameter: accurate reading

- Pulse-free gauge manometers with adjusting screw
- Connection fitting 1/8"G
- 7 Easy reading gauge manometer Ø80 mm
- Only 0,2 Kg weight
- Made in Italy ./

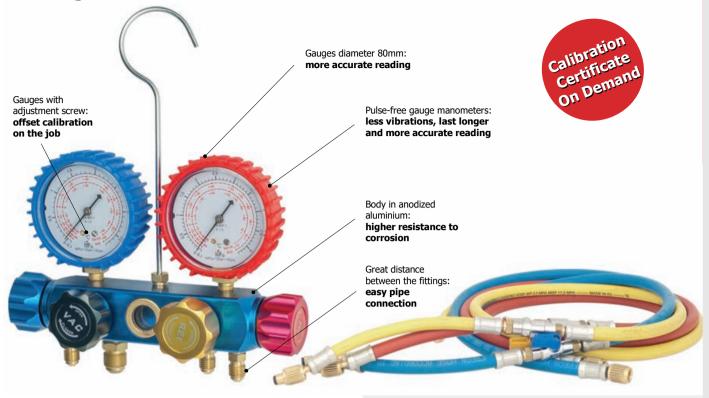
Art.	Model	Range [bar]	Conn.
272001	R422, R407, R134a (blue)	-1 ÷ 15	1/8"G
272002	R422, R407, R134a (red)	-1 ÷ 35	1/8"G
272003	R410A (blue)	-1 ÷ 38	1/8"G
272004	R410A (red)	-1 ÷ 53	1/8"G
272007	R410A, R32 (blue)	-1 ÷ 38	1/8"G
272008	R410A, R32 (red)	-1 ÷ 53	1/8"G
272006	Radial vacuum gauge with indicator	0 ÷ 1000 [mbar]	1/8''G



Certificate

On Demand

Gauge Manifolds Kit



- Each kit includes a 4 ways gauge manifold and three color marked pipes with valve
- ✓ Gas scales
 - R410A, R32 (art. 930795)
 - R422, R407, R134a (art. 930794)

Art.	Gas Scales	Gauge Manifold	Pipes Fitting
930795	R410A, R32	930792	5/16" SAE
930794	R422, R407, R134a	930793	1/4" SAE

Technical Features

Each kit includes a 4 ways gauge manifold and three color marked pipes with valve $% \left({{{\rm{A}}_{\rm{B}}} \right)$

Gauge Manometer Body Gaskets Certifications Ø 80 mm, class 1.0 anodized aluminium HNBR EN832



MGF Amico Digital Gauge Manifold with Pressure Test

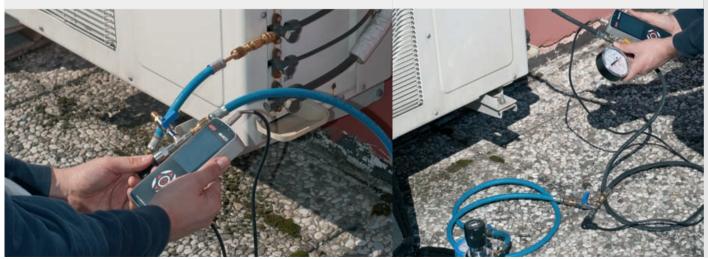
Measures with unrivaled accuracy saturation temperatures and pressures on HVAC systems

Gauge Manometer Function: measure saturation temperature and pressure for all refrigerants, on high and low pressure side, with mbar resolution on full range scale.

Best accuracy and comfort

Pressure Test: nitrogen pressure tests to find micro leaks in few minutes, instead of 12-24 hours. Increases dramatically the productivity.

Save time and money with a professional instrument.



EASTERN COOL Vacuum Pumps

Calibration Certificate On Demand

Solenoid valve: preserves vacuum even once pump is stopped and avoids oil spill

Air/oil separator: reduces oil consumption Vacuum gauge for leak detection: **quick and effective operation**

Electronically checked final vacuum: **quality and reliability**

Special design for refrigeration and HVAC technology

Compact design, free from bulky components

Oil bottle supplied with the vacuum pump

Motor thermal overload protection

Vibration absorbing feet

Motor overload protection: avoid overheating Inexpensive vacuum pumps, imported and certified by $\ensuremath{\texttt{MGF}}$ before stocking.

Excellent for professionals looking for:

- Inexpensive product for not intensive use
- Certified final vacuum and calibrated gauge
- Vacuum pump similar to many competitors models, at a convenient price and certified
- Before shipping, we carry out the following checks:
- Motor electrical tests (high voltage and grounding)
- High accuracy digital vacuum gauge test
- Vacuum cycle simulation

Available in Stock: all the models below

Art.	930456	930457	930488	930487
Pumping Stages	2	2	2	2
Final Vacuum	0,01mbar	0,01mbar	0,01mbar	0,01mbar
Power Supply	230V~50/60Hz	230V~50/60Hz	230V~50/60Hz	230V~50/60Hz
Motor Power	190W	250W	375W	750W
Connection	1/4″SAE	1/4″SAE	1/4″SAE	1/4″SAE
Oil Tank	250mL	330mL	330mL	600mL
Vacuum Gauge	50mm	50mm	50mm	50mm
Weight	5,50 Kg	5,50 Kg	15,00 Kg	18,00 Kg
Size	210 x 320 x 320 mm	210 x 320 x 320 mm	560 x 300 x 210 mm	560 x 300 x 210 mm



HVAC Tools

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Starter Kits with 5 Kg – 1 g Scale

Art.	Model	R422	R407	R404	R134	R410	R422	R32
930101	System 1 Kit	٠	٠	٠	٠	٠	٠	٠
930201	System 2 Kit	•	•	•	•		•	
930301	System 3 Kit					•		•

Starter Kits with 100 Kg - 5 g Scale

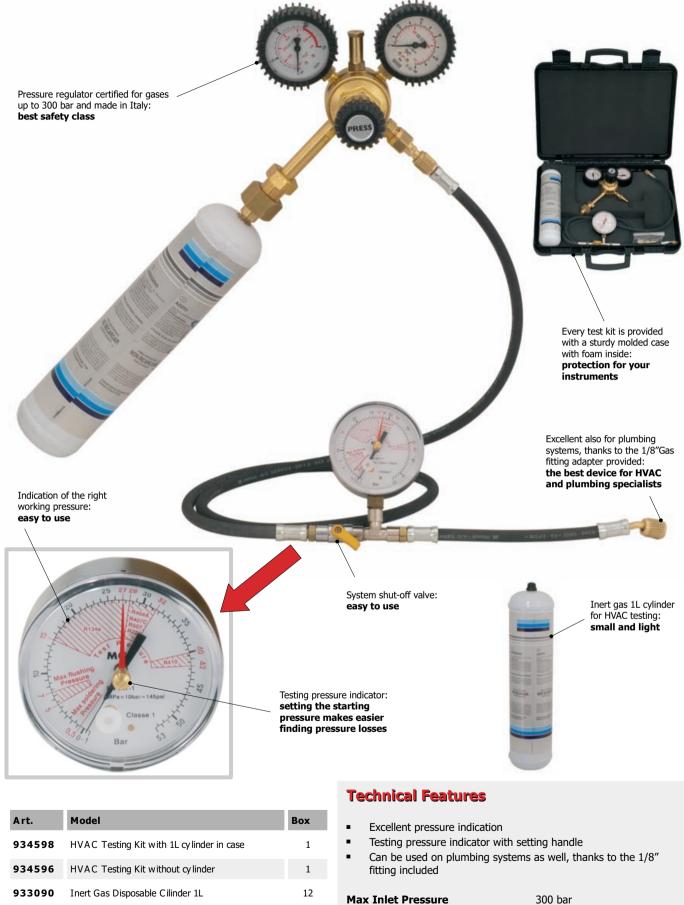
Art.	Model	R422	R407	R404	R134	R410	R422	R32
930111	System 1 Kit	•	•	•	•	•	•	•
930211	System 2 Kit	•	•	•	•		•	
930311	System 3 Kit					•		•

Each Starter Kit Includes:

- High and low pressure side hoses with fittings for all gases specified in the table at left (pipe for pump-manifold connection, plus one or two hose kits, according to the model)
- 4-way manifold for all refrigerants specified in the table (1 or 2 manifolds, according to the model)
- Cylinders support for refrigerants specified in the table (one or two)
- 5 kg digital scale (art. 932098) or 100 kg digital scale (Art. 932001)
- Manual

Pressure Testing Kit with Inert Gas

The first kit for HVAC and Plumbing system testing



1

1

300 bar 53 bar Ø 80 mm, class 1.0 1/4"SAE, 5/16"SAE, 1/2"Gas



934590

934595

Nitrogen Flushing Kit

Preassembled Testing Pipe with Gauge

HVAC Flushing Tools

Cyclone – HVAC System Flushing Pump

Technical Features

Weight	3,5 Kg
Size	350 x 270 x 170 mm
Max Flow Rate	10 L/min
Pump Head	34 m
Tank Capacity	3,5 L
HVAC Connection	1/4" and 5/16" (90°)
Power Supply	230 V ~ 50 Hz
Current	1 A
Power	250 W
Sound Pressure	70 dBA
Protection	IP55

Chemical not included, to be ordered separately

Art.	Model	Box
934698	Cyclone – HVAC Systems Flushing Pump	1
791002	Flux – HVAC Systems Flushing Chemical 1L	12

Inert Gas Flushing Kit

- ✓ Flushing Kit for the combined use with a chemical and inert gas
- Excellent to flux and degrease the pipes before using the vacuum pump in the HVAC system and after removing the condenser unit
- ✓ **Maximum pressure**: 30 bar (*pressure reducer not included*)
- Including: flushing chemical aluminum tank, gun with universal conical fitting, supplied with plastic molded case

Art.	Model
934590	Inert Gas Flushing Kit
934598	Inert Gas Flushing Kit with 1L cylinder



Tank for flushing chemical with Venturi suction system

1/4"SAE connection: / compatible with all nitrogen kits

Very light and provided with



Cleanmatic Heat Exchangers High Pressure Washer

- ✓ Rotating the head in the lance, it's possible to regulate the water jet power, to clean effectively and softly the heat exchanger fins without damaging them
- ✓ The included dosing systems allows to mix the **concentrated chemicals**, as **MGF** Split Clean
- ✓ In this way the cleaning is more effective and the heat exchanger efficiency is improved

Art.	Model
905300	C leanmatic Multifunction Portable Water Jetter (with 10m water jetter, chemical kit, high pressure gun and lance with extension)
905400	C leanmatic LT Multifunction Portable Pressure C leaner (with chemical kit, high pressure gun and lance with extension)



Chemicals dosing tank: for a better cleaning and improved efficiency

Cleanmatic portable water better: **complete kit**

Refrigerant Gas Recovery and Recycling Unit

Convenient and Complete

Automatic shut-off at 80% of cylinder capacity (optional): work safety

Big manometers: better vacuum reading and recovery complete understanding

PURGE mode: Unit always clean

Two working modes: recovery and purge. Eliminates refrigerant losses after recoverv

Separate switch for fan and high-efficiency heat exchanger: max performance even in the most difficult situations

Oil separator included: separate oil, humidity and particles from the refrigerant

Technical Features

Refrigerants

Complete machine with efficient heat exchangers to recover more gas and doing the job faster.

Compact and handy:

easy to carry

Included with each Recovery Unit

Excellent refrigerant gases recovery and recycling units, fully

Over pressure

and over current protection: safe

- Refrigerants gas recovery unit (recycling function according J to the model)
- Power supply cord
- Service hoses for connection J

compatible with R32 refrigerants.

Drying filter J

Calibration

Certificate

Available

User Manual

Art.	Model	Weight
931092	Refrigerant Gas Recovery Unit (R32 compliant)	16 Kg
931091	Refrigerant Gas Recovery Recycling Unit (R32 comp.)	17 Kg
931080	Filter Dehy drator for Refrigerants (spare part)	0,1 Kg

Power Supply Compressor Max current **HP Shut-off Recovery Capacity (R22)**

Ultimate Vacuum Automatic stop at 80% of the capacity Working temperature Chassis Size Weight

R-12, R22, R-134a, R-401A, R401B, R401C, R402A, R402B, R404A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R411A, R411B, R-412A, R500, R502, R507, R509, R422a, R424a, R434a, R428a, R32 220-240VAC 50Hz 375 W (1/2HP) Oil-less 4A @ 50 Hz / 9A @ 60 Hz 38bar/550psi

Vapor: 0.55 lbs/min (0.25 kg/min) Liquid: 3.97 lbs./min (1.80 kg/min) Push/Pull: 13.7 lbs./min (6.25kg/min) 500mbar (15" Hg) Optional 0-40°C Polyethylene 485 x 220 x 365 mm (19.1 Lx8.7 Wx14.4 H) 16 Kg (35lbs) / 17 Kg (37lbs)



R32

136

Electronic Refrigerant Scales For Accurate Refrigerants Dosing and HVAC Filling

Refrigerants Scale MAXI 100 Kg / 5 g

- ✓ Supplied in molded plastic case
- ✓ Remote Display with extensible cord (max 1,5m)
- ✓ Remote display support
- ✓ Ideal for accurate refrigerants dosing and HVAC filling

Technical Features

TARE and Auto OFF Functions Triple Scale Plate Size Power Supply	yes (after 3 hours) Kg, Lb, Oz 223 x 223 mm 9V Alkaline Battery (6LR61) included
Battery Life	30 h
Maximum Weight	100 Kg / 220 lbs
Accuracy	5 g
Precision	±0,5%
Display LCD	66 x 20 mm
Backlight display	yes, adjustable and removable
Color	Black
Weight	3,5 Kg
Size	223x223xh50 mm
Working Temperature	0 < T < 49 °C



Refrigerants Scale MINI 5 Kg / 1 g

- ✓ Flat plate for all refrigerants supports
- ✓ Supplied in MGF carton box with user manual



TARE and Auto OFF Functions Triple Scale

Plate Size Power Supply Max load Resolution Display LCD Color Weight Size yes (after 120 seconds) gram (g), once (oz), and pound (lb) 110 x 110 mm 2 AAA Batteries (not provided) 5 Kg / 11 lbs 1 g 40 x 15 mm White 185 g 130x160xh30 mm

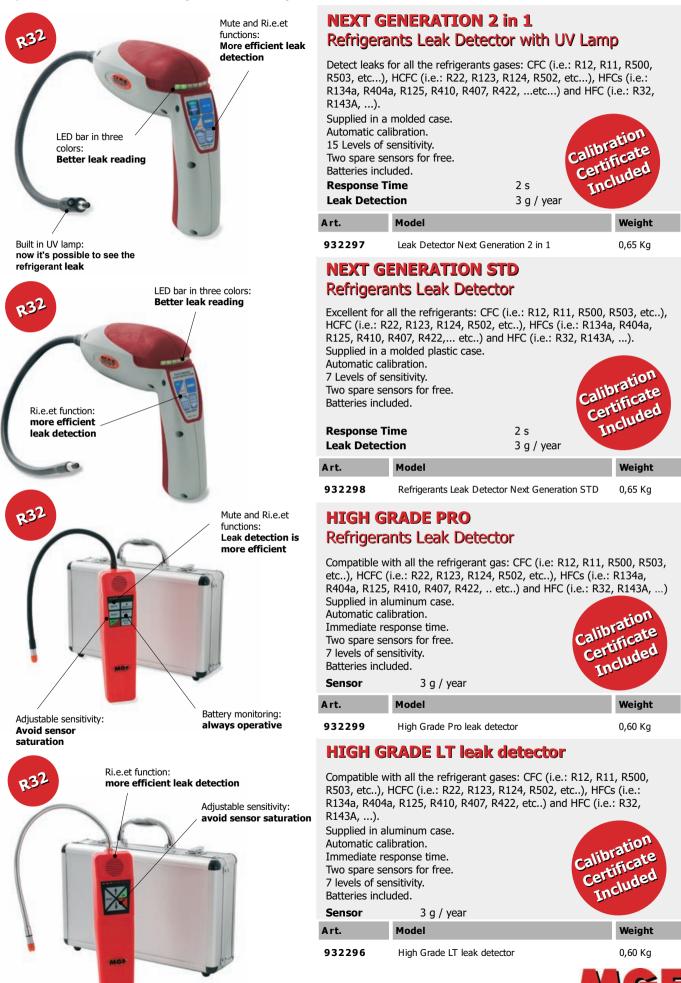
Art.	Model	Weight
932095	Refrigerant Scale MINI 5 Kg	0,19 Kg





Refrigerants Leak Detectors

Leak detectors compliant with the specifications of EEC Regulation 1516/2007. In particular the minimum sensitivity is better than required. On demand we perform the yearly inspection and calibration, including the calibration certificate. For more informations on calibration procedure, visit the website www.mgftools.com, HVAC regulations area.



Professional Plumbing Tools

HVAC Service Tools

Superheat Diagnosis Set

Valve core remover and installer for diagnosis and replacement of faulty valve cores, without recovering the refrigerant from the system.

Excellent accuracy in overheat diagnosis by reading gas pressure and temperature in the same point.

Provided in plastic case with thermoformed sponge.

Temperature Range	-58 °F / 302 °F
	-50 °C / 150 °C



934599 Superheat Analisis Set

Model

Art.

Art.

.

Art. 934799

934798

934797

932100

Refrigerants Tank Heater Blanket

- Using an electronic tank heater blanket speeds up recharging time: once heated, the gas increases its pressure, thus filling is faster and complete
- With temperature shut off switch, max 40°C, to work safely
- Adjustable size with springs, excellent for all cylinders

Refrigerants Tank Heater Blanket

Excellent to remove valve cores without refrigerant losses

Service Kit (art. 934797) supplied in plastic molded case

Valve Core Remover/Installer 1/4"SAE

Removing valve core speeds up recharging time by eliminating

Universal Dual Head Valve Core Remover/Installer

Universal Valve Core Remover/Installer Kit (1/4"-5/16"SAE)

Valve Core Removers/Installers

- 400 W Power for extremely fast operation
- Power supply: 230V/ 50Hz, Schuko Plug

Model

Model



Universal Dual Head Valve Core Remover/Installer

Powerful and fast to install:



Valve Core Remover/Installer Universal Valve Core Remover/Installer Kit (in plastic case)





Condenser Fin Comb

bottlenecks

Excellent for cleaning and straightening fins on condenser and evaporators, heat exchangers in general.

Improve the heat exchange improves the performance of the machines.

Six sided head suitable for 8, 9, 10, 12, 14 and 15 fins per inch heat exchangers: ${\bf universal}$

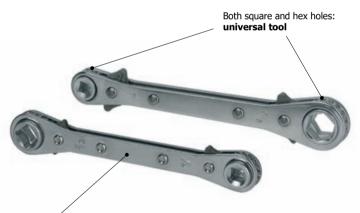
Art.	Model	
934796	Condenser Fin Comb	

HVAC Service Wrenches and Pliers



Calibration certificate: quality for professionals

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Reversible ratchet wrench with square holes: for refrigeration industry



Torque Wrench Set

- High accuracy tightness for fittings with certified torque: a fitting correctly tightened doesn't break, is tight and lasts longer
- Adjustable torque from 10 to 70 Nm, universal also for high pressure refrigerants, as R410a
- Complete wrenches inserts set: 17, 22, 24, 26, 27, 29mm
- Each wrench is **tested** and **calibrated** before shipping
- Kit supplied in blow molded case

Art.	Model
932500	Torque Wrench Set in Molded Case (17-29 mm)
932501	Torque Wrench
932502	Torque Wrench Insert 17 mm
932503	Torque Wrench Insert 22 mm
932504	Torque Wrench Insert 24 mm
932505	Torque Wrench Insert 26 mm
932506	Torque Wrench Insert 27 mm
932507	Torque Wrench Insert 29 mm
932508	Torque Wrench Molded Case
RT_DIN	Torque Wrench Calibration Certificate
PC_DIN	Torque Wrench Test Report

Ratchet Wrenches

- Simply opens inlet and outlet valves in compressors
- In chrome-plated steel
- Reversible ratchet with easy access handle
- Designed to operate in hard to reach places
- Professional tool, excellent for HVAC service centers

Art.	Model
932598	Ratchet Wrench 1/4"-3/16" square and 9/16"-1/2" hex
932599	Ratchet Wrench 1/4", 3/8", 3/16", 5/16" square

Pinch-off Plier

- Specially engineered for HVAC professionals
- Pinching off and locking the pipes, avoids system contamination and preserves piping
- Curved jaws for the best tightness to the locked pipe
- With adjustment screw and release lever for maximum power with minimum effort

Art.	Ø Max	Lenght	Weight
920188	16 mm	190 mm	0,29 Kg



HVAC Service Chemicals

FLUX - HVAC Systems Flushing Chemical

- To be used before filling the system, both in the case of old pipes and . compressor replacement
- Excellent solvent, removes oil, grease and paraffins
- Without residuals, fast evaporating
- Non corroding, compatible with paintings, rubber and plastic

 To be used with CYCLONE or with a nitrogen flushing kit 			
Suggested Dilution	pure		
Flushing Time 10 minutes			
Bottle 1L			

Art.	Model	Weight	Box
791002	MGF Flux – Flushing Chemical 1L	1 Kg	12

SplitClean — Heat Exchanger Cleaner

- . Cleaning and degreasing foamy chemical
- Excellent for heat exchanger fins, compressors, radiators.
- Also dissolves dirt caused by insects -
- To be used with CleanMatic o CleanMatic LT dosing system
- Rinsing recommended

5		
Suggested Dilution	from 1% to 5%	
Flushing Time	5 minutes	
Tank	5 Kg	
Ph	13,6	

Art.	Model	Weight	Box
791030	MGF SplitClean 5Kg	5 Kg	4

JET Sanitizer for Air Ducts and Rooms

- Sanitizer effective on a wide range of bacteria, viruses and pathogens including Legionella, Escherichia coli, Proteus mirabilis, Staphylococcus, Candida ...
- Manufactured according with hygiene regulations
- Supplied with straw for difficult zones .

Sanitizing Time	2 min
Ph	7/8
Spray Can	600 mL

Art.	Model	Weight	Box
791010	MGF Jet 600mL	0,8 Kg	12

SanitAir Evaporators Sanitizer

- It eliminates organic deposits (mould, fungi, bacteria and spores), smell and . dirt from conditioning plants (exchangers, conduits...)
- Effective foam also in the fissures and interstices of conditioners, flexible extension to reach the most difficult areas
- It improves the thermal exchange of the conditioner
- . It prevents from the spreading of legionella
- It does not require rinsing
- Manufactured according to hygiene regulations

Spray bottle	600 mL

Art.	Model	Weight	Box
791020	MGF SanitAir Sanitizer Spray 600 mL	0,8 Kg	12





handy and fast





Spray can: handy and fast



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HVAC Tools

FOGGY HVAC Air Ducts Ultrasonic Sanitizer



HVAC Tools

How it Works?

Patent pending ultrasonic air ducts and heat exchangers sanitizer, excellent for refrigeration industry.

- 1. The **sanitizing chemical**, certified, is effective against a wide spectrum of bacterias populating air ducts, evaporators heat exchangers, HVAC units, disinfecting them in **only 2 minutes**
- 2. Foggy creates a very fine chemical mist that is easily transported through air ducts by venting them. No other spray can be so effective

Why it's Worth Using Foggy?

- 1. Because sanitizing will be truly effective and durable and will qualify your job
- 2. Because it is a professional product, and stands out from cheap spray cans sold in shopping centers
- 3. Because a certified air ducts disinfection is compulsory in all work and public places

How Often to Use Foggy?

- 1. Foggy should be used once a year to keep the system disinfected.
- 2. The best period, in HVAC systems, is at the season beginning (spring)

How to Use Foggy?

- 1. The forms included make the work easier and allow to monitor the systems under treatment. For further information contact www.mgftools.com sales team
- 2. Place Foggy near the air inlet, filters dismounted, i.e. near the air conditioner evaporator air inlet. Turn on the ventilation (without cooling). Start sanitizing cycle on Foggy
- 3. Even if the active principle is not toxic for mammals, a prolonged exposure may cause irritation to the respiratory tract: turn the machine on and air the rooms after the sanitizing



ALFACLEAN – HVAC/R Disinfecting and Sanitizer

Technical Features

Weight	1,5 Kg
Treatment Duration	2-3 minutes from duct complete filling
Supplied with	Foggy, power cord, 1 refill, 2 outlets
Refill	500 ml (for 75-minute treatment)
Standardizations obtained	EINECS (Europe), TSCA (USA), ACOIN/AICS (Australia), MITI (Japan), DSL (Canada)

The effectiveness of the machine is certified against the following microorganisms

Gram-negative

bacteria: Acinobacter baumanii Areomonas hydrophila Campylobacter jejuni Citrobacter freundii Edwardsiella tarda Enterobacter aerogenes Enterobacter cloacae Escherichia coli Klebsiella aerogenes Klebsiella pnueumoniae Legionella pneumophila Lactobacillus casei Proteus mirablis Proteus rettegeri Proteus vulgaris Pseudomonas aeruginosa Pseudomonas cepacia Pseudomonas fluorescens Pseudomonas perolens Pseudomons putida Salmonella chleraesuis Salmonella dublin Salmonella poona Salmonella typhimurium Serratia marcescens Vibrio cholerae Non 0 :1 Yersinia enterocolitica

Gram-positive bacteria:

Bacillus cereus Bacillus megaterium Bacilluspolymyrxa Bacillus subtilis Clostridium welchii Corynebacterium acnes Enterococcus faecium Enterococcus faecalis Listeria monocytogenes Mycobacterium smegmatis Staphylococcus albus Staphylococcus aureus Staphylococcus epidermis Streptococcus faecalis Streptococcus lactis Streptococcus pyogenes

Yeasts and fungi:

Candida albicans Rhodotorula rubra Saccharomyces cerevisiae (ellipsoideus) Saccharomyces cerevisiae (pastorianus) Saccharomyces cerevisiae (turbidans) Alternaria tenuis Aspergillus niger Aureobaidium pullulans Chaetomium globosum Trichoderma viride Penicillium rubrum Trichophyton mentagrophytes



Art. 791041

At the end of treatment you can recover the remaining product and reuse it for further treatments: **no waste**



Art.	Model	Weight	Box
791040	FOGGY – Machine with 2 nozzles and 1 Alfaclean package	2,0 Kg	1
791039	FOGGY – Machine with 2 nozzles	1,5 Kg	1
791037	Foggy REMOTE – with remote control cable	1,5 Kg	1
791041	AlfaClean – 500 ml, for 75 minute treatement	0,15 Kg	15
Ultra	Examp	le of operat	

Ultrasonic system: thanks to the very fine sanitizer misting, it is possible to reach all the air ducts points





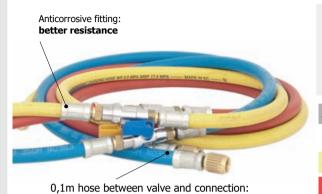
of an internal unit

Example of sanitization of a fan coil unit through the nozzle. The treatment in offices is binding to avoid biological risks



HVAC/R Charging Hoses According to SAE J2196

Charging Hoses 1/4"SAE (R422,R407,R134...)1500 mm with Valve, Knurled Nut and Core Depressor

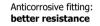


makes easy operation even in small

- Service hoses with 1/4" SAE knurled nut, suitable for all refrigerants
- Low refrigerant permeability hoses
- Valves included to save refrigerants
- 0,1m hose between valve and connection makes easy operation even in small areas

Art.	Model	# Hoses	Color
302340	Charging Hoses Kit 1/4" - 1/4" 45° 1500 RNK	3	Y,R,B
302341	Charging Hose 1/4" - 1/4" 45° 1500 RNY	1	Yellow
302342	Charging Hose 1/4" - 1/4" 45° 1500 RNR	1	Red
302343	Charging Hose 1/4" - 1/4" 45° 1500 RNB	1	Blue

Charging Hoses 5/16" SAE (R410 e R32)1500 mm with Valve, Knurled Nut and Core Depressor



areas



0,1m hose between valve and connection: makes easy operation even in small areas

- Service hoses with 5/16" SAE knurled nut, suitable for all refrigerants
- Low refrigerant permeability hoses
- Valves included to save refrigerants
- 0,1m hose between valve and connection makes easy operation even in small areas

Art.	Model	# Hoses	Color
302380	Charging Hoses Kit 5/16" - 5/16" 45° 1500 RNK	3	Y,R,B
302381	Charging Hose 5/16" - 5/16" 45° 1500 RNY	1	Yellow
302382	Charging Hose 5/16" - 5/16" 45° 1500 RNR	1	Red
302383	Charging Hose 5/16" - 5/16" 45° 1500 RNB	1	Blue

Service Hoses and Spare Parts



- Valve core depressor in brass, for charging hoses 1/4" or 5/16"
- Service hose with 3/8" knurled nut, for reduced pressure drop during vacuum
- Gaskets are made in teflon turned and grinded, for an excellent robustness and tightness

Art.	Model	Art.	Model
302143	Hose 3/8" 900mm (Y)	221510	Universal Valve Core Depressor
302144	Hose 3/8" 2500mm (Y)	251150	Gasket 1/4" – 5/16"
302145	Hose 3/8" 3500mm (Y)	251152	Gasket 3/8"

(Y) = yellow



Refrigerants in Refillable Cylinders

The European Regulation 842/2006 establishes the phaseout of HCFC and HFC gases, depending on use, the type and power of the plant itself. In detail to the fluorinated greenhouse gases, such as R410a, R407, R22, it has banned the use of non-refillable containers. Also since 01/01/2010 the use of virgin hydrochlorofluorocarbons, R22, was banned in the maintenance of existing refrigeration and airconditioning at this date and therefore it is possible to use only a refilled cylinder.

MGF, according to European Regulation 2037/2000, informs that in case of HCFC refrigerant systems (R22) or HFC (R407C, R134a and R410a), you shall perform leaks detection.

R410

Art.	Model	Volume	Weight	Box
933095	R410 Refillable Cylinder	1 L	0,8 Kg	12
933207	R410 Refillable Cylinder	2,5 L	2 Kg	6
933195	R410 Refillable Cylinder	7 L	5 Kg	1

R407

Art.	Model	Volume	Weight	Box
933097	R407 Refillable Cylinder	1 L	0,85 Kg	12
933208	R407 Refillable Cylinder	2,5 L	2 Kg	6
933197	R407 Refillable Cylinder	7 L	5 Kg	1

R422D

Art.	Model	Volume	Weight	Box
933099	R422D Refillable Cylinder	1 L	0,9 Kg	12
933206	R422D Refillable Cylinder	2,5 L	2 Kg	6
933199	R422D Refillable Cylinder	7 L	5 Kg	1

R32

NJ2				
Art.	Model	Volume	Weight	Box
933094	R32 Refillable Cylinder	1 L	0,8 Kg	12
933221	R32 Refillable Cylinder	2,5 L	1,8 Kg	6
933198	R32 Refillable Cylinder	7 L	5 Kg	1
933194	R32 Refillable Cylinder	12 L	10 Kg	1

HVAC/R Service Fittings

Fittings with Valve and Core Depressor

Art.	Model	Art.	Model	Art.	Model
934086	1/4" M-1/4" F (R)	934085	1/4" M-1/4" F (Y)	934080	5/16"M-5/16"F (B)
934098	1/4" M-5/16" F (R)	934097	1/4" M-5/16" F (Y)	934090	1/4" M-1/4" F (B)
934082	1/4" F-5/16" M (R)	934078	1/4" F-5/16" M (Y)	934088	1/4" F-5/16" M (B)
934079	5/16" M-5/16" F (R)	934083	5/16" M-5/16" F (Y)	934099	1/4" M-5/16" F (B)

(R) = red | (Y) = y ellow | (B) = blue

Fittings and Valves for Refrigerants Cylinders

Art.	Model	Art.	Model	Art.	Model
934084	1/4" M-1/4" F	934077	1/4" M - 3/8" F	930999	Cylinder Supp. 1/4"
934096	1/4" M-5/16" F	934076	1/4"F - 3/8" M	930998	Cylinder Supp. 5/16"
934089	5/16" M-1/4" F	934092	1/2" BSPT F-1/4" M*	934095	1/4" M-1/2" ACME F
934093	5/16" M- 5/16" F	934091	1/2" BSPT M-1/4" M*	934094	1/2" ACME M-1/4" F
934075	5/16" M-3/8" F	934081	Adapter for 5Kg Cil.	934150	Swivel 3/8" FF

(*) without core depressor









older cartridges

Flare Fittings

Flare Fittings Starter Kit



The starter kit is provided in plastic case and includes the following items:

Art. 934199 Short Nut 1/4"	15 pcs
Art. 934198 Short Nut 3/8"	15 pcs
Art. 934197 Short Nut 1/2"	5 pcs
Art. 934190 Flare Union MM 1/4"	15 pcs
Art. 934189 Flare Union MM 3/8"	15 pcs
Art. 934188 Flare Union MM 1/2"	5 pcs
Art. 934171 Flare Adapter 3/8"M-1/2"F	5 pcs
Art. 934110 Copper Gasket 1/4"	10 pcs
Art. 934111 Copper Gasket 3/8"	10 pcs
Art. 934112 Copper Gasket 1/2"	10 pcs
Art. 934113 Copper Gasket 5/8"	10 pcs

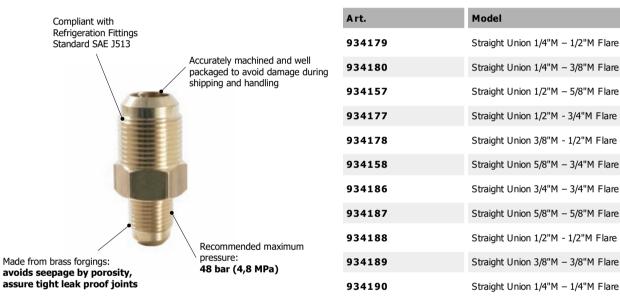
Art.

934100

Flare Fittings Starter Kit

Model

Flare Fittings Straight Unions Male-Male



Flare Fittings Straight Adapters Male-Female

			Art.	Model
Compliant with		934167	Straight Adapter 3/4"M – 5/8"F Flare	
	Refrigeration Fittings Standard SAE J513	Accurately machined and well packaged to avoid damage	934168	Straight Adapter 5/8"M – 3/4"F Flare
	during shipping and handling	934169	Straight Adapter 5/8"M – 1/2"F Flare	
			934170	Straight Adapter 1/2"M – 5/8"F Flare
		934171	Straight Adapter 1/2"M – 3/8"F Flare	
		934172	Straight Adapter 1/2"M – 1/4"F Flare	
			934173	Straight Adapter 3/8"M – 1/2"F Flare
			934174	Straight Adapter 3/8"M – 1/4"F Flare
Made from brass forgings:	Recommended maximum pressure:	934175	Straight Adapter 1/4"M – 1/2"F Flare	
	avoids seepage by porosity, assure tight leak proof joints	48 bar (4,8 MPa)	934176	Straight A dapter 1/4"M – 3/8"F Flare



Flare Fittings

Art.

934162

934163

934164 934165

934166

Art.

934134

934135

934136

934137

934138

934140

Art.	Model
934194	Nut 7/8" Female Flare
934195	Nut 3/4" Female Flare
934196	Nut 5/8" Female Flare
934197	Nut 1/2" Female Flare
934198	Nut 3/8" Female Flare
934199	Nut 1/4" Female Flare

Model

Model

Cap 5/16" Female Flare

Cap 5/8" Female Flare

Cap 1/2" Female Flare

Cap 3/8" Female Flare

Cap 1/4" Female Flare

Reducing Nut 3/4"F Flare x 5/8" Pipe

Reducing Nut 5/8"F Flare x 1/2" Pipe

Reducing Nut 1/2"F Flare x 3/8" Pipe

Reducing Nut 3/8"F Flare x 5/16" Pipe

Reducing Nut 3/8"F Flare x 1/4" Pipe

Reducing Nut 1/4"F Flare x 3/16" Pipe

Refrigeration Fittings Standard SAE J513

Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints

Compliant with

Compliant with

Refrigeration Fittings

Standard SAE J513

Recommended

maximum pressure: 48 bar (4,8 MPa)

Accurately machined and well packaged to avoid damage during shipping and handling

Caps

Nuts

Recommended maximum pressure: 48 bar (4,8 MPa)

Accurately machined and well packaged to avoid damage during shipping and handling

Reducing Nut

Compliant with Refrigeration Fittings Standard SAE J513

Made from brass forgings:

avoids seepage by porosity

assure tight leak proof joints

Recommended maximum pressure:

maximum pressure: 48 bar (4,8 MPa)

Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints Accurately machined and well packaged to avoid damage during shipping and handling

90° Elbows and Flare TEEs





90° Elbows Male-Male



Flare Fittings TEE

Art.	Model
934145	90° Elbow 1/4"M – 1/4"F Flare
934146	90° Elbow 3/8"M - 3/8"F Flare
934147	90° Elbow 1/2"M – 1/2"F Flare
934151	90° Elbow 1/4"M -1/4"M Flare
934152	90° Elbow 3/8"M -3/8"M Flare
934153	90° Elbow 1/2"M -1/2"M Flare
934159	90° Elbow 5/8"M -5/8"M Flare
934160	90° Elbow 3/4"M -3/4"M Flare

 934154
 TEE 1/4"M -1/4"M -1/4"M Flare

 934155
 TEE 1/4"M -3/8"M -1/4"M Flare

 934156
 TEE 3/8"M -3/8"M -3/8"M Flare

Flare Fittings

Flare Fittings Copper Gaskets

Recommended maximum pressure: **48 bar (4,8 MPa)**



eration js Standard 513

Art.	Model
934110	Flare Fittings Copper Gasket 1/4"
934111	Flare Fittings Copper Gasket 3/8"
934112	Flare Fittings Copper Gasket 1/2"
934113	Flare Fittings Copper Gasket 5/8"
934114	Flare Fittings Copper Gasket 3/4"
934115	Flare Fittings Copper Gasket 5/16"

Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints

Flare Fittings Copper Bonnets

Recommended maximum pressure: **48 bar (4,8 MPa)** Compliant with Refrigeration Fittings Standard SAE J513

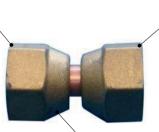
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Art.Model934116Flare Fittings Copper Bonnet 1/4"934117Flare Fittings Copper Bonnet 5/16"934118Flare Fittings Copper Bonnet 3/8"934119Flare Fittings Copper Bonnet 1/2"934120Flare Fittings Copper Bonnet 5/8"934121Flare Fittings Copper Bonnet 3/4"

Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints

Flare Fittings Swivel Connector

Recommended maximum pressure: 48 bar (4,8 MPa)



Compliant with Refrigeration Fittings Standard SAE J513

Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints

Art.Model934122Flare Fitting Swivel Connector FF 1/4"934124Flare Fitting Swivel Connector FF 3/8"934125Flare Fitting Swivel Connector FF 1/2"934126Flare Fitting Swivel Connector FF 5/8"

Flare Fittings 180° Swivel Connector

Recommended	Compliant with
maximum pressure:	Refrigeration
48 bar (4,8 MPa)	Fittings Standard
Made from brass forgings:	SAE J513
Made from brass forgings: avoids seepage by porosity, assure tight leak proof joints	

Art.	Model
934141	Flare Fitting 180° Swivel Connector MF 1/4"
934142	Flare Fitting 180° Swivel Connector MF 3/8"
934143	Flare Fitting 180° Swivel Connector MF 1/2"
934144	Flare Fitting 180° Swivel Connector MF 5/8"



HVAC Tools

Copper Solder Joint Fittings

Art.	Model
934219	Copper Solder Joint TEE 1 1/8"
934220	Copper Solder Joint TEE 1 3/8"
934216	Copper Solder Joint TEE 1/2"
934214	Copper Solder Joint TEE 1/4"
934215	Copper Solder Joint TEE 3/8"
934217	Copper Solder Joint TEE 5/8"
934218	Copper Solder Joint TEE 7/8"

-

Art.	Model
934201	Copper Straight Fitting FF 3/8"
934202	Copper Straight Fitting FF 7/8"
934203	Copper Straight Fitting FF 1 1/8"
934223	Copper Straight Fitting FF 1 3/8"
934222	Copper Straight Fitting FF 1/2"
934221	Copper Straight Fitting FF 1/4"

Art.	Model
934226	45° Elbow Copper Fitting 1 1/8"
934207	45° Elbow Copper Fitting 1 3/8"
934204	45° Elbow Copper Fitting 1/2"
934224	45° Elbow Copper Fitting 1/4"
934225	45° Elbow Copper Fitting 3/8"
934205	45° Elbow Copper Fitting 5/8"
934206	45° Elbow Copper Fitting 7/8"

Art.	Model
934212	90° Elbow Copper Fitting 1 1/8"
934213	90° Elbow Copper Fitting 1 3/8"
934209	90° Elbow Copper Fitting 1/2"
934227	90° Elbow Copper Fitting 1/4"
934208	90° Elbow Copper Fitting 3/8"
934210	90° Elbow Copper Fitting 5/8"
934211	90° Elbow Copper Fitting 7/8"

Copper Solder Joint TEE



Straight Copper Fittings



45° Elbow Copper Fittings



90° Elbow Copper Fittings



www.mgftools.com

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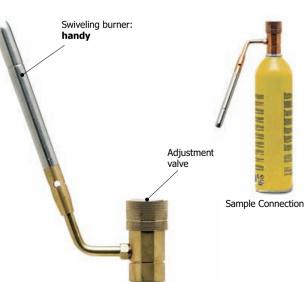


"Fire, walk with me!"

Jim Morrison (1943-1971)

TOPLINE – Professional Brazing Torch Brazing, Soft Soldering, Heat Shrinking, Heating





Professional TOPLINE welder

- Precise flame adjustment
- Anti flare systems allows to operate in all positions
- Reliable piezoelectric flame ignition

Flame Temperature Max diameter (brazing) Max diameter (soft soldering) Gas Cartridge Connection Cartridge Life Weight Gas Cartridge (not included)		>2000 °C up to Ø 16 mm up to Ø 35 mm 7/16" up to 2,5 hours 0,36 Kg Art. 938082	
Art.	Model		Pack
938015	TOPLINE Professional Brazing Torch		1
938082	MAPP Gas Cartridge Disposable 7/16" 385 gr. Type K		12

TOPLINE Professional Brazing Set

Professional brazing set supplied in plastic case with foam insert, including:

- **TOPLINE Brazing Torch**
- Two burners (pin-point burner and cyclone burner)
- Two MAPP gas disposable cartridges (art. 938082)

Max diameter (brazing)	up to Ø 16 mm
Max diameter (soft soldering)	up to Ø 35 mm
Gas Cartridge Connection	7/16″
Cartridge Life	up to 2,5 hours
Weight	2,8 Kg

Art.	Model	Pack
938017	TOPLINE Professional Brazing Set	1
938082	MAPP Gas Cartridge Disposable 7/16" 385 gr. Type K	12

F16 Swiveling Brazing Torch

- Precise adjustment of the flame with a fine valve
- Rugged brass body
- Anti flare system allows all positions operation

Flame temperature	1980 °C
Max diameter (brazing)	up to Ø 18
Max diameter (soft soldering)	up to Ø 35
Bottle connection	7/16″
Weight	0,36 Kg

Model 938085 F16 Swiveling Brazing Torch

Art.



mm

mm

MAP/OXY Torch Set

Brazing, Soldering, Light Welding and Cutting

MAP/OXY Torch Set

2,5 times more convenient than standard systems. This set allows to achieve very high welding temperatures due to the presence of MAPP gas in the mixture. It is possible to adjust the mixing of oxygen and MAPP, and hence the temperature of the flame.

Flame temperature >3100 °C

The kit includes

- Disposable oxygen cartridge 110 bar 950ml (Art. 938165)
- MAP gas cylinder (Art. 938070)
- Pressure regulator for oxygen from 0 to 4 bar
- Eye glasses
- Welding torch with anti-flare and 1,5m hoses
- Two sizes nozzles (fine and standard)

Art.	Model
938087	MAP/OXY Torch Set
938165	O xy gen Cartridge 110 bar connection 12x1 950mL
938070	MAPP Cartridge EU connection 7/16" 450g



Butane / Propane Soft Soldering

Brazing and Soft Soldering Torch

Flame Ter Max Diam Max Diam Upside-do	vith fine adjusting valve. Working nperature eter (brazing) eter (soft soldering) wn Work Time Connection	in all positions 1200 °C 14 mm 22 mm 5 s EU 7/16"	
Art.	Model		Weight
938009	Buthane/Propane Brazing and Soft S	oldering Torch	0,20 Kg

Piezo Soldering and Brazing Torch

Brazing and soft soldering torch with EU 7/16" connection

Ergonomic handle with automatic piezo ignition

5	me adjustment		
Flame Temp	erature:	1.200°C	
Max Diame	eter (brazing):	8 mm	
Max Diameter (soft soldering): 22 mm			
Art.	Model		Main
ALL	Model		vveic

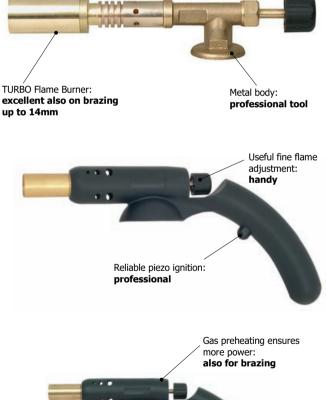
938000	Piezo Soldering and Brazing Torch	0,25 Kg

aht

Soft Soldering Unit

- High grade torch with pre-heating and fine flame adjustment
- Works also upside-down
- For use with disposable cartridges
- Automatic piezoelectric ignition (only art. 938010)

Flame Temperature Max Diameter (brazing) Max Diameter (soft soldering) Consumption:		1200 °C 14 mm 22 mm 86 g/h	
Art.	Model		Weight
938010	Soft Soldering Unit w/Piezo Ignition		0,39 Kg
938011	Soft Soldering Unit wo/Piezo Ignition		0,35 Kg





Gases for Welding, Brazing and Soldering



Art. 938070

Art. 938069

Art. 938082

Art. 938068



Art. 938062

Q

MAP Gas in Disposable Cartridges

Exclusive blend of Methyl Acetylene - Propadiene Propane, enriched with additives that concur to reach a flame temperature over 2200 °C (>3000°C with oxygen contribution). Ensures short brazing times.

Unlike other blends our MAP is not toxic and it does not produce backfires.

Art.	Model	Pack
938070	MAP Disposable Cartridge EU 7/16" (450g)	12
938069	MAP Disposable Cartridge USA (400 g)	12
938082	MAP Disposable Cartridge EU 7/16" (385g) Type K	12

POWERGAS Disposable Cartridges

Exclusive blend that approximates the results of the oxy acetylene brazing, with top class performances (much better than standard propane-butane blends).

Connection	7/16"
Content	330 g (600 ml)

BUTANE 65% PROPANE 35% Cartridge

Exclusive system ensures operation also in upside-down position Connection 7/16" Content 210 a

content	210 g	
Art.	Model	Pack
938068	POWERGAS Disposable Cartridge EU 7/16"	24
938062	Butane 65% + Propane 35% Disposable Cartridge	12

BUTANE 70% + PROPANE 30% EU 7/16"

Connection	7/16"
Content	220 g

BUTANE 70% + PROPANE 30%

Connect Content	ion Pierceable Cartric 190 g	lge
Art.	Model	Pack
938065	Butane-Propane Disposable Cartridge EU 7/16"	24
938066	Butane-Propane Disposable Pierceable Cartridge	36

Oxygen Disposable Cartridges

Volume		930 ml / 950 ml	
Pressur	e	100 bar / 110 bar	
Size		Ø 90 x 300mm	
Connec	tion	see table below	
Art.	Model		Pack
938064	Oxygen Disposable C	ylinder 930mL - M10x1 – 100 bar	12
938165	Oxygen Disposable C	ylinder 950mL - M12x1 – 110 bar	12
938164	O xy gen Disposable C	ylinder 950mL - M15x1 – 110 bar	12





Art. 938066





Art. 938164

154

Brazing Rods

- Brazing rods made with special solder alloys, excellent for brazing copper pipes in sanitary and plumbing water systems and HVAC/R industry
- Excellent for capillary brazing in copper pipes

Super 94 CP 204

High melting point alloy, excellent for high resistance brazing and standard brazing on copper pipes

Weight	0,037 Kg
Melting Point	710-825°C
Mechanical Strength	500 N/mm ²
According to	DIN EN 1044:2001 CP 204

Super 94 CP 202

High melting point alloy, excellent for high resistance brazing and standard brazing on copper pipes

Weight	1 Kg
Melting Point	710-925°C
Mechanical Strength	500 N/mm ²
According to	DIN EN 1044:1999 CP 202

Super 1 CP 201

High melting point alloy, excellent for standard brazing on copper pipes

Weight	1 Kg
Melting Point	710-750°C
Mechanical Strength	450 N/mm²
According to	DIN EN 1044:1999 CP 201

Super 2 CP 105

High melting point alloy, excellent for high resistance and standard brazing on copper pipes, with silver, perfect for capillary welding

Weight	1 Kg
Melting Point	645-825 °C
Mechanical Strength	550 N/mm²
According to	DIN EN 1044:1999 CP 105

Super 5 CP 104

High melting point alloy, excellent for high resistance and standard brazing on copper pipes, with silver, perfect for capillary welding

Weight	1 Kg
Melting Point	645-815 °C
Mechanical Strength	550 N/mm²
According to	DIN EN 1044:1999 CP 104

Super 34

High melting point alloy, standard brazing on copper pipes, with silver, perfect for capillary welding

Weight	0,040 Kg
Melting Point	710 °C
Mechanical Strength	400 N/mm ²
According to	DIN EN 1044:2001

Super 5

High melting point alloy, excellent for high resistance and standard brazing on copper pipes, with silver, perfect for capillary welding

Weight	1 Kg
Melting Point	700-850 °C
Mechanical Strength	450 N/mm ²

- Brazing rod size: 2x250 mm (only art. 938031 and art. 938038)
- Brazing rod size: 2x500 mm (remaining codes)
- Manufactured according to standards DIN EN 1044: 2001

Art.	Model
938031	Copper alloy / Phosphorus (6 pcs)
Art.	Model
938032	Copper 93% / Phosphorus 7% 1 Kg
Art.	Model
938033	Copper 92% / Phosphorus 8% (high rate) 1 Kg
Art.	Model
938035	Copper 91,5%/ Phosphorus 6,50%/ Silver 2% 1 Kg
Art.	Model
938037	Copper 89% / Phosphorus 6%/ Silver 5% 1Kg
	The second secon
Art.	Model
938038	Copper alloy / 5% covered Silver (8 pcs)
Art.	Modello
938041	Copper 93,6% / Phospohrus 6% / Silver 0,4% 1Kg

Brazing

CERCOFLAM ULTRA

Professional Plumbing Torch

TURBO Flame with swirling effect: excellent for brazing, with flame temperature up to 2400°C

Metal body and professional finishing: **best in class brazing torch**

> With lever saving gas: Perfect for professionals



CERCOFLAM ULTRA KIT

Professional plumbing torch, excellent for brazing and soft soldering, thanks to the flame temperature up to 2400°C.

For brazing without oxygen. Ergonomic torch handle with fast action lever. Hose connection thread **M18x1**.

Flame Temperature	2400°C
Hose-Cylinder Connection	3/8"L (left)
Torch Weight	0,46 Kg
Size	21 cm

Set supplied in case, including:

- Brazing Torch
- Burner Ø17mm (*art. 938059*)
- Burner Cercoflam Ø20mm (art. 938076)
- Hose (1,5m) with cylinder connection (art. 938077)

Art.	Model
938006	Cercoflam ULTRA Brazing Set
938007	Cercoflam ULTRA Plumbing Torch
938077	Cercoflam ULTRA Plumbing Torch Hose 1,5m

Torch Burners for CERCOFLAM ULTRA

High quality and duration Made in Italy, patented products.

Art.	Model	°C	g/h	cm
938056	ULTRA Roofer Soldering Burner	1400	190	18
938058	ULTRA Torch Burner Ø15	1460	150	16
938059	ULTRA Torch Burner Ø17	1500	180	16
938060	ULTRA Torch Burner Ø20	1600	500	20
938076	Cercoflam Burner Ø20	2400	310	21
938072	Cercoflam Burner Ø40	2400	490	24

Hoses for CERCOFLAM ULTRA

Gas hoses with strong and handy swiveling nut, for gas cylinder

Art.	Model
938077	Plumbing Torch Hose 1,5m, Connection 20x14L
938078	Plumbing Torch Hose 5m, Connection 20x14L
938079	Plumbing Torch Hose 9m, Connection 20x14L









Brazing

CERCOFLAM Brazing Torch

CERCOFLAM Brazing Set

Professional brazing set, handy and robust, complete with torch, standard burner, cercoflam burner and flat burner.

Excellent for brazing and soft soldering, flexible in use thanks to burners included.

Allows brazing and soldering in every position (360°)

Suitable for Brazing	yes
Flame Temperature	1400 °C
Torch	with adjustment
Burner	steel
Weight	0,46 Kg
Size	27 cm

Each CERCOFLAM Brazing Set includes:

- Brazing Torch
- Burner Ø 20 mm
- Cercoflam Burner Ø 20 mm
- . Flat Burner 60 mm
- Hose 1,5m connection 20x14L
- Disposable blister packaging

Art.	Model
938002	Cercoflam Brazing Set
938004	Cercoflam Brazing Torch
938002D	Standard Burner Ø 20
938012	Cercoflam Burner Ø 20
938077	Cercoflam pipe 1,5m 20x14 SIN, also for cercoflam ULTRA
938078	Cercoflam pipe 5 m 20x14 SIN, also for cercoflam ULTRA
938079	Cercoflam pipe 9 m 20x14 SIN, also for cercoflam ULTRA

Cercoflam burner Ø 20 mm: excellent brazing



Small, light and sturdy



cylinders





Brazing Equipment



Excellent insulation: can be hand used





Thermal Protection

Silica fibers (minimum 96%) and glass fibers. Not containing asbestos or ceramic.

- Professional product for the best thermal resistance
- 10 times longer lasting than standard protectors
- Preserves objects near the pipe being brazed
- High flexibility and bending resistance
- Reusable and recyclable
- . Not containing asbestos, ceramic or toxic fibers

Size	200x250 mm
Thickness	13 mm
Weight	0,25 Kg

Art. Model

938020 Flame Thermal Protection

Thermal Protection

- Protection without toxic fiberso or asbestos
- Practical fire retardant felt firewall
- Essential to protect the walls in tin soldering
- Very flexible
- Up to 1000°C
- . Pack containing 3 flame

Art.	Model
938022	Firewall

Universal Brazing Flux

- Universal flux for brazing with silver alloys on copper, copper alloys and steel
- Does not influence the brazing process
- Easy removal of residuals

Content	250 g	
Art.	Model	Pack
938043	Universal Brazing Flux	50

MGF art 938045 e per Saldatura 2500

Improves the brazing quality: reduces the oxidations

Suitable for all torches with USA connection: universal



Cartridge Adapter USA \rightarrow EU 7/16"

- Adapt your old brazing torch with a U.S. connection for use with EU 7/16" gas cartridges
- Remains mounted on the torch, so it doesn't requires additional efforts
- The 7/16" EU cartridges are bigger and more convenient
- Allows stocking of a single type of cartridges

938008 Cartridge Adapter USA \rightarrow EU 7/16"

Model

Art.



Plastic Welding

"God invented the atom, fusion energy, the DNA, the photosynthesis, the gravitational force... And he is still waiting for his Nobel prize."

Ennio Cavalli (1947-)

POLIFEMO 125

Socket Fusion Machine for Welding up to 125 mm

Extractable socket welder with temperature control: also suitable for manual welding

Prismatic jaws: automatic selfcentering for all diameter Spring feeding device: semi-automatic functioning

> Perfect pipe welding with socket fusion system up to 125mm: **professional and fast**

Teflon coated sockets included from Ø50mm to Ø110mm: **complete**

Workbench / carrying box in zinc-plated steel: handy and resistant to corrosion

- Excellent for welding pipes and fittings with the socket welding system from 32mm to 125mm
- Suitable for many different plastic materials (i.e. PP or PVDF), presetting accordingly the welding temperature and choosing the right sockets (TAB A or TAB B)
- Ensures weldings compliant to **DVS 2208**
- Each machine includes: machine, socket welder, carrying box/workbench, pipe support, sockets from Ø 50 to Ø110mm

Art.	Model	Weight
926000	Polifemo 125 – Socket Welding Machine	80,00 Kg
926000M	Polifemo 125 (machine only)	49,50 Kg
926000B	Carrying box / Workbench	30,50 Kg
926000T	Polifemo 125 Socked Welder	2,20 Kg

Technical Features

Sockets Included Machine Range Socket Welder Range Machine Weight Total Weight Size Case Size Power Supply Power Requirements Working Temperature Adjustable Temperature Ø 50 mm ÷ Ø 110 mm Ø 32 mm ÷ Ø 125 mm Ø 16 mm ÷ Ø 125 mm 49,5 Kg 80 Kg 520 x 720 x 360 mm 580 x 800 x 740 mm 230 V ~ 50/60 Hz 1400 W 260°C (preset for PP) on demand



POLIFEMO Socket Welder for Plastic Pipes up to 63mm



Technical Features

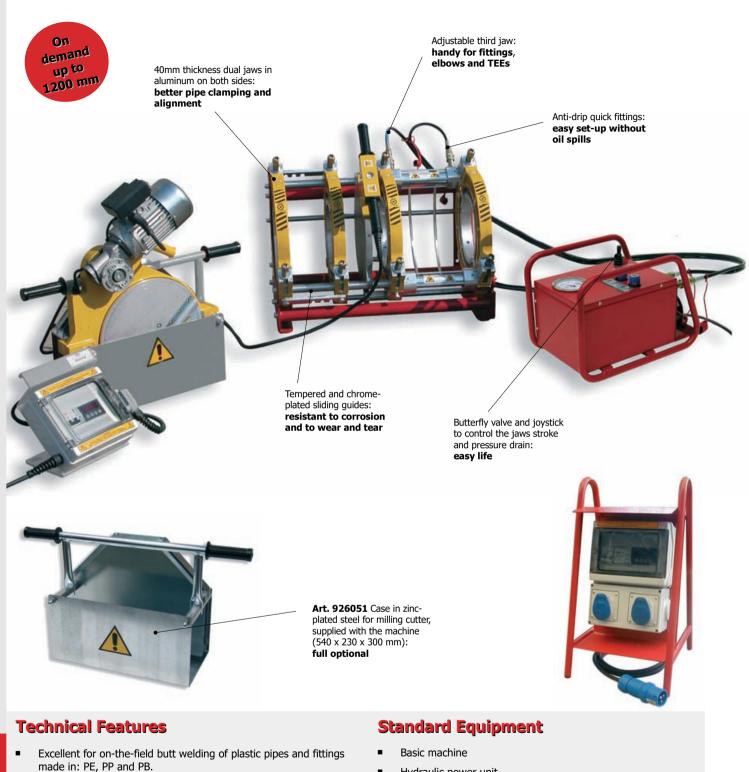
Working Range	Ø 16 mm - Ø 63 mm
Machine Weight	0,8 Kg
Power Supply	230 V ~ 50/60 Hz
Power Required	1200 W
Temperature (Adjustable)	50 °C – 300 °C

2,3 2,5 0,04 0,04 0,05 0,05 320394 Welding Socket 25 mm 0,07 320397 Welding Socket 25 mm TAB B (Recommended for GF pipes) 0,07 320393 Welding Socket 32 mm 0,12 320383 Welding Socket 32 mm TAB B (Recommended for GF pipes) 0,12 320392 0,15 Welding Socket 40 mm 320384 Welding Socket 40 mm TAB B (Recommended for GF pipes) 0,15 0,42 320391 Welding Socket 50 mm 320390 Welding Socket 63 mm 0,57 320389 Welding Socket 75 mm (only for Polifemo 125) 0,75 320388 Welding Socket 90 mm (only for Polifemo 125) 0,93 320387 Welding Socket 110 mm (only for Polifemo 125) 1.1 320386 Welding Socket 125 mm (only for Polifemo 125) 1,3

www.mgftools.com

Plasti

HERCULES Butt Welding Hydraulic Field Machine Plastic Pipes Welding up to 1200mm



- Butt welding according to DVS standards
- Suitable for welding in the building site with a strong hydraulic unit
- Double pressure adjustment for milling and welding
- Electronic welding temperature control
- Teflon-coated extractable heating plate with remote temperature control
- Hydraulic power unit
- Hydraulic flexible hoses
- Milling cutter
- Extractable heating plate
- Temperature control box
- Galvanized steel case



Plastic

Technical Features and Standard Equipment

	Hercules 160	Hercules 250	Hercules 315
Art.	926050	926040	926030
Welding Range	Ø 40 mm - Ø 160 mm	Ø 90 mm - Ø 250 mm	Ø 90 mm - Ø 315 mm
Total Weight (with adapters)	115,2 Kg	166 Kg	208 Kg
Size with adapters	1200 x 800 x 740 mm	1200 x 800 x 740 mm	1200 x 800 x 840 mm
Power Required	2550 W	3050 W	3800 W
Power Supply	230 V ~ 50/60Hz	230 V ~ 50/60Hz	230 V ~ 50/60Hz
Service Class	S1	S1	S1
Butt Welding Machine	926050B	926040B	926030B
Weight	39 Kg	56 Kg	65 Kg
Total Thrust Area	353 mm ²	510 mm ²	510 mm ²
Sliding Guide Stroke	160 mm	165 mm	165 mm
Removable Heating Element	926050T	926040T	926030T
Power Required	1000 W	1500 W	2500 W
Power Supply	230V ~ 50/60 Hz	230V ~ 50/60 Hz	230V ~ 50/60 Hz
Temperature	50° - 300°C	50° - 300°C	50° - 300°C
Milling Cutter	926050F	926040F	926030F
Power	800 W	550 W	550 W
Motor	with brushes	asincronous	asincronous
Power Supply	230V ~ 50/60 Hz	230V ~ 50/60 Hz	230V ~ 50/60 Hz
Temperature Control Box	926001T	926001T	926001T
Power	2500 W	2500 W	2500 W
Temperature Range	50° - 300°C	50° - 300°C	50° - 300°C
Insulation Category	IP55	IP55	IP55
Hydraulic Unit	926001C	926001C	926001C
Working Pressure	150 bar	150 bar	150 bar
Power	750 W	750 W	750 W
Pump Flow Rate	1,58 L/min	1,58 L/min	1,58 L/min
Oil	ISO 68 – 1,5 L	ISO 68 – 1,5 L	ISO 68 – 1,5 L
Hydraulic Pipes	926001U	926001U	926001U
Weight	1,5 Kg	1,5 Kg	1,5 Kg
Lenght	4 m	4 m	4 m
Max Pressure	250 bar	250 bar	250 bar



BACKUP – Butt Welding Parameters Recorder (opt.)

Technical Features

Working pressure	0-150 bar
Weight	5,4 Kg
Size	410 x 330 x 175 mm
Power	200 W
Power Supply	230 V ~ 50/60 Hz

Art.	Model
926001B	BACKUP – Butt Welding Parameters Recorder



does not require ink or

Hercules 160 Optionals

Spindles, Adapters and Jaws

Art.	Description	Weight
926052	H160 Spindle for Butt Welder	3,5 Kg
926053	Chamfered Upper Jaw Ø160	0,5 Kg
926054.40	A dapters 40 mm (8 Jaws)	3,5 Kg
926054.50	A dapters 50 mm (8 Jaws)	3,4 Kg
926054.65	A dapters 65 mm (8 Jaws)	3,2 Kg
926054.75	A dapters 75 mm (8 Jaws)	3,0 Kg
926054.90	A dapters 90 mm (8 Jaws)	2,9 Kg
926054.110	A dapters 110 mm (8 Jaws)	2,5 Kg
926054.125	A dapters 125 mm (8 Jaws)	2,3 Kg
926054.140	A dapters 140 mm (8 Jaws)	1,7 Kg



Art. 926053: Chamfered upper jaw

Hercules 250 Optionals

Spindles, Adapters and Jaws

Art.	Description	Weight
926042	H250 Spindle for Butt Welder	7,5 Kg
926043	Chamfered Upper Jaw Ø250	1,5 Kg
926044.90	A dapters 90 mm (8 Jaws)	7,2 Kg
926044.110	A dapters 110 mm (8 Jaws)	6,4 Kg
926044.125	A dapters 125 mm (8 Jaws)	6,4 Kg
926044.140	A dapters 140 mm (8 Jaws)	5,6 Kg
926044.160	A dapters 160 mm (8 Jaws)	5,2 Kg
926044.180	A dapters 180 mm (8 Jaws)	4,8 Kg
926044.200	A dapters 200 mm (8 Jaws)	5,8 Kg
926044.225	A dapters 225 mm (8 Jaws)	3,2 Kg



Art. 926043: Chamfered upper jaw

Hercules 315 Optionals Spindles, Adapters and Jaws

Art.	Description	Weight
926032	H315 Spindle for Butt Welder	10,5 Kg
926033	Chamfered Upper Jaw Ø315	2,0 Kg
926044.90	Adapters 90 mm (8 Jaws)	7,2 Kg
926044.110	Adapters 110 mm (8 Jaws)	6,4 Kg
926044.125	Adapters 125 mm (8 Jaws)	6,4 Kg
926044.140	Adapters 140 mm (8 Jaws)	5,6 Kg
926044.160	Adapters 160 mm (8 Jaws)	5,2 Kg
926044.180	Adapters 180 mm (8 Jaws)	4,8 Kg
926044.200	Adapters 200 mm (8 Jaws)	5,8 Kg
926044.225	Adapters 225 mm (8 Jaws)	3,2 Kg
926034.250	Adapters 250 mm (8 Jaws)	7,1 Kg
926034.280	Adapters 280 mm (8 Jaws)	7,0 Kg





Art. 926033: Chamfered upper jaw



DEDALO 250

Butt Welding Machine for Plastic Pipes up to 250 mm

Safety microswitch: it prevents from accidental switching on

> plated slides and ball bearing sleeves: resistant, minimal friction and effort

Hardened and chrome-

Pressure control system: accurate adjustment of the welding thrust

Milling cutter on both sides: more accurate and faster working

- Excellent for butt welding plastic pipes and fittings made in: PE, PP, PB and PVDF
- Welding thrust adjustment and control for butt welding according to DVS standards
- Teflon-coated heating element controlled by adjustable temperature switch for perfect welding
- The kit includes: machine, heating plate, steel adapters, electric milling cutter and carrying case/workbench in zinc-plated steel

Art.	Model
926010	Dedalo 250

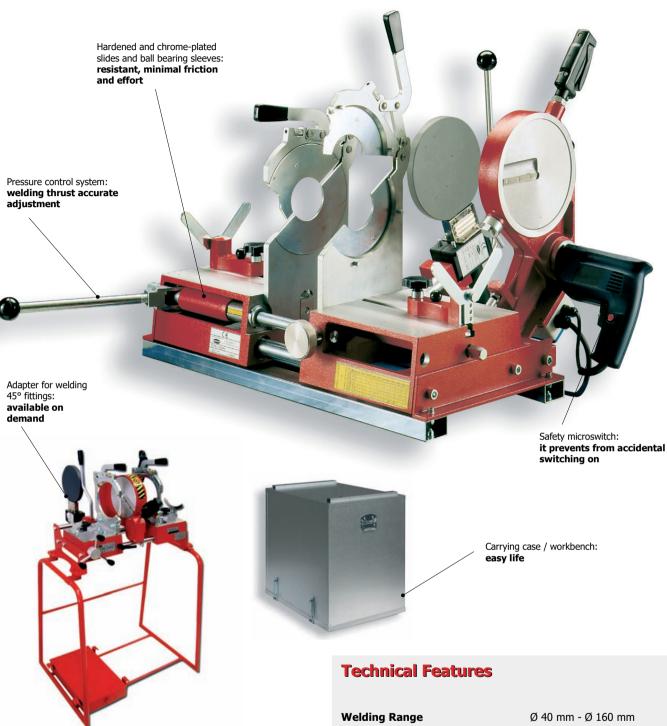
Technical Features

Welding Range
Machine Weight
Total Weight
Machine Size
Case Size
Power Required
Power Supply
Maximum Stroke

Ø 50 mm - Ø 250 mm 69,5 Kg 105,0 Kg 550 x 800 x 660 mm 580 x 880 x 740 mm 2200 W 230 V ~ 50/60 Hz 130 mm

DEDALO 160

Butt Welding Machine for Plastic Pipes up to 160 mm



Art.

926020

- **Plastic**
- Excellent for butt welding plastic pipes and fittings made in: √ PE, PP, PB and PVDF
- Welding thrust adjustment and control for butt welding 1 according to DVS standards
- Teflon-coated heating element controlled by adjustable √ temperature switch for perfect welding
- The kit includes: machine, heating plate, steel adapters, √ electric milling cutter and carrying case/workbench in zincplated steel

Machine Weight 54.5 Kg **Total Weight** 90,0 Kg **Machine Size** 550 x 800 x 660 mm **Case Size** 580 x 800 x 740 mm **Power Required** 1460 W **Power Supply** 230 V ~ 50/60 Hz **Maximum Stroke** 130 mm Model

Dedalo 160



Optionals and Spare Parts for DEDALO 160 and DEDALO 250

Carrying Case / Workbench

In zinc-plated steel.

Supplied with DEDALO butt welding machines, it is used as carrying case as well as a workbench and support for the welder.

35,5 Kg

Total Weight Size

Art.

926002B

Carrying Case / Workbench for DEDALO

580 x 800 x 740 mm

Heating Elements Ø 180 – 280 mm

Model

Power Supply		230 V ~ 50/6	0 Hz
Welding Temp	erature	180 °C – 300	°C
Heating Elem	<u>ent Ø 280 mm</u>		
Size		550 x 60 x 33	0 mm
Power		1400 W	
Heating Elem	<u>ent Ø 190 mm</u>		
Size		400 x 60 x 19	0 mm
Power 900 W			
Heating Elem	<u>ent Ø 120 mm</u>		
Size		340 x 100 x 1	10 mm
Power		500 W	
Art.	Model		Weight
926002C	Heating Element Ø 280	mm	3,30 Kg
926002D	Heating Element Ø 190	mm	2,40 Kg
926002F	Heating Element Ø 120	mm 30° sloping	1,50 Kg
926002G	Heating Element Ø 120	mm	1,30 Kg

Carrying case made in zinc-plated steel: sturdy Teflon coated heating element: non-stick and long-lasting Adjustable temperature switch heating element: butt welding up to standards

Steel Jaws for Drains and Adapters (optionals)

Size	DEDALO 16	0	DEDALO 25	0
	Jaws	A dapter	Jaws	A dapter
40 mm	926020E.40	926020F.40	926020E.40	926020F.40
50 mm	926020E.50	926020F.50	926020E.50	926020F.50
56 mm	926020E.56	926020F.56	926020E.56	926020F.56
63 mm	926020E.63	926020F.63	926020E.63	926020F.63
75 mm	926020E.75	926020F.75	926020E.75	926020F.75
90 mm	926020E.90	926020F.90	926020E.90	926020F.90
110 mm	926020E.110	926020F.110	926020E.110	926020F.110
125 mm	926020E.125	926020F.125	926020E.125	926020F.125
140 mm	926020E.140	926020F.140	926020E.140	926020F.140
160 mm	926020E.160		926020E.160	926020F.160
180 mm			926010E.180	926010F.180
200 mm			926010E.200	926010F.200
225 mm			926010E.225	926010F.225
250 mm			926010E.250	



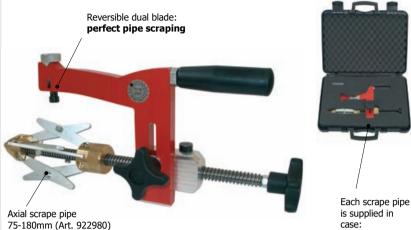
Adapters for welding smaller diameters and easily adjust to the machine jaws.

Both the jaws and the adapters can be provided in kit or single piece (jaws are provided in pairs, right and left).

Art.	Model	Weight
926010E	Jaws Kit for DEDALO 250 (Ø 50 – Ø 250 mm)	9,0 Kg
926020E	Jaws Kit for DEDALO 160 (Ø 40 – Ø 160 mm)	7,5 Kg
926010F	Adapters Kit for DEDALO 250 (Ø 50 – Ø 250 mm)	9,0 Kg
926020F	Adapters Kit for DEDALO 160 (Ø 40 – Ø 160 mm)	7,5 Kg

Butt and Socket Welding Tools

Professional Rotary Pipe Scraper for PE, PE-X, PP and PP-R pipes



75 100mm (Art. 522500)



Axial scrape pipe 20-63mm (Art. 922979)



professional

Axial scrape pipe 180-400mm (Art. 922981)

Spare Blades Kit (art. 922978) Including:

- ✓ Reversible dual blades (3 pcs)
- ✓ Stainless steel screw (1 pcs)
- ✓ Torx Wrench
- Suitable for all 3 models



- Excellent for outer surface layer removing on pipes and fittings before welding
- Dual blade reversible
- Included with art. 922979 all the **adapters for scraping all the diameters** between Ø20mm and Ø63mm and all SDR (diameters) on European market
- Items art. 922980 and art. 922981, thanks to compact and robust design, don't require any adapter for all diameters or other optionals, because on all sizes 8 locking points are easily available with the adjusting knob. A stable and reliable locking of the scraper inside the pipe is so ensured.
- The constant scraping diameter ensures a perfect layer removing, according with UNI 10521 and other European Standards
- Perfect for saddles scraping
- Each MGF rotary pipe scraper is supplied in a molded plastic case with foam insert and service tools for blade replacement

Art.	Model	Weight
922979	Rotary Pipe Scraper 20-63mm	1,3 Kg
922980	Rotary Pipe Scraper 75-180mm	2,1 Kg
922981	Rotary Pipe Scraper 180-400mm	4,7 Kg
922978	Spare Blades Kit	0,08 Kg

Universal Plastic Pipe Beveler Ø25mm to Ø168mm



Technical Features

- Professional tool for 15° beveling the plastic pipes up to Ø 168 mm, before inserting them into electrical couplers or plug-in joints.
- Double adjustment (diameter and thickness) to adapt to any pipe: universal
- Teflon support surface to reduce friction during beveling

Working Range	Ø25-168mm
Maximum Pipe Thickness	12 mm
Weight	0,82 Kg

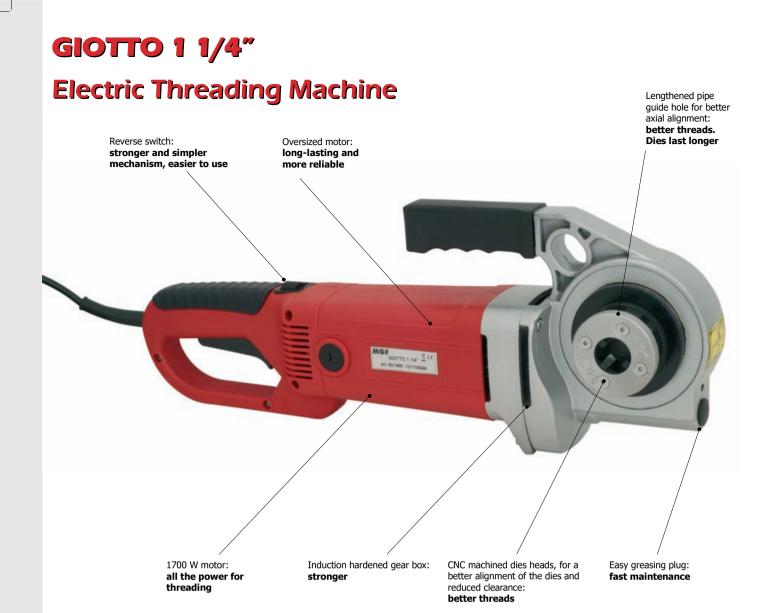
Art.	Model
922983	Universal Plastic Pipe Beveling Tool Ø25-168mm
922982	Spare blades for Pipe Beveler art. 922983



Threading Machines

"Everybody knows a certain thing is unrealizable until somebody unaware of this comes and invents it."

Albert Einstein (1879-1955)"







Technical Features

Machine Weight Threading Speed Power Power Supply Threading Range 5,67 Kg 32 rpm 1700 W 230VAC ~ 50Hz from 1/2" to 1 1/4"

Supplied with

- Threading machine
- Pipe clamp
- Threading spray oil
- Die heads set
- Metal painted case

Art.	Model	Weight
901495	Threading machine complete with die heads 1/2", 3/4", 1", 1 1/4" BSPT (R)	13,4 Kg
901497	Threading machine complete with die heads 3/4", 1", 1 1/4" BSPT (R)	12,7 Kg
901499	Threading machine complete with die heads 1", 1/14" BSPT (R)	12,2 kg
901475	Giotto 1 1/4" (Threading machine only)	5,67 kg
640002	Carry ing case for Giotto Threading Machine	4,30 kg
Suggested		



model



Threading

Spare Parts for GIOTTO Threading Machines

Lengthened pipe guide, the pipe is centered on its axis: excellent threadings



CNC machined, the chasers are perfectly aligned and with no clearance: reduced vibrations, dies last longer

Enlarged chip hole ensuring a good chip flow: perfect thread

Threading Dies Heads

- Compatible with GIOTTO and Manual threading machines
- Made in die-cast steel and CNC machined aluminium
- Epoxy powder painted

BSPT dx	ø	Weight
323005M	1/2″	0,64 Kg
323007M	3/4″	0,55 Kg
323009M	1″	0,81 Kg
323011M	1 1/4″	0,92 Kg
323015M(*)	1 1/2″	1,92 Kg
323017M(*)	2″	1,88 Kg

(*) Large octagon, it does not require an adapter.

Threading Dies

- Compatible with GIOTTO and Manual threading machines
- Made in special steel for tools: 9Cr2 (F-5230)

BSPT dx	ø	Die Weight
324001	1/4″	0,64 Kg
324003	3/8″	0,59 Kg
324005	1/2″	0,64 Kg
324007	3/4″	0,55 Kg
324009	1″	0,81 Kg
324011	1 1/4″	0,92 Kg
324013	1 1/2″	1,92 Kg
324015	2″	1,88 Kg

Can be used pure or diluted: saving without waste





Art.790005 790006

Art.320054

Art.790003



Art.	Model	Pack
320052	Small die heads octagonal adapter GIOTTO	1
790003	O il for threading 100 ml	10
790005	Spray oil for threading 400 ml	12
790006	Spray oil for threading 600 ml	12
320054	GIOTTO Terminal stops	1



Art.320052





Threading

13,00 Kg

13,60 Kg

14,20 Kg

www.mgftools.com

901200

901300

901396

Spare Parts for MANUAL Threading Tools

Lengthened centering pipe guide, the pipe is kept on its axis: excellent quality threading



CNC machined die head, the dies are perfectly aligned and with no clearance: reduced vibrations, the dies last longer

Wide head hole for chips: **perfect thread**

Threading Tool Die Heads

- Compatible with GIOTTO and Manual threading machines
- Made in die-cast iron and aluminum, CNC machined
- Epoxy powder painted

Art.	Model	Weight
323001M	Die Head 1/4" BSPT (R)	0,6 Kg
323003M	Die Head 3/8" BSPT (R)	0,6 Kg
323005M	Die Head 1/2" BSPT (R)	0,6 Kg
323007M	Die Head 3/4" BSPT (R)	0,6 Kg
323009M	Die Head 1" BSPT (R)	0,9 Kg
323011M	Die Head 1 1/4 BSPT (R)	0,9 Kg
323015M	Die Head 1 1/2" BSPT (R)	1,9 Kg
323017M	Die Head 2" BSPT (R)	1,9 Kg

Threading Tool Dies

- Compatible with GIOTTO and Manual threading machines
- Made in special steel for tools: 9Cr2 (F–5230)





Dies made in high-speed steel: long-lasting, perfect geometry of the thread

BSPT dx	ø	Die Head Weight
324001	1/4″	0,64 Kg
324003	3/8″	0,59 Kg
324005	1/2″	0,64 Kg
324007	3/4″	0,55 Kg
324009	1″	0,81 Kg
324011	1 1/4″	0,92 Kg
324013	1 1/2″	1,92 Kg
324015	2″	1,88 Kg



Threading

Threading machine on the field: accurate, up to standards

MGF Threading Oil: sharp and fast threads

Spare Parts and Optionals For Ratchet Threading Tools

Art.	Model	Kg	Pack
320050	Threading Tool Ratchet 1 1/4" wo/Lever	1,5	1
320057	Ratchet Threading Tool 1 1/4" Lever	0,5	1
320051	Threading Tool Ratchet 2" wo/Lever	3	1
320056	Ratchet Threading Tool 2" Lever	0,5	1
3200V0	Ratchet Thr.ing Tool 1 1/4" Carry ing Case	1	1
3200V1	Ratchet Threading Tool 2" Carrying Case	1	1
790003	Oil for Threading 100 ml	0,1	10
790005	Spray Oil for Threading 400 ml	0,4	12
790006	Spray Oil for Threading 600 ml	0,6	12



MGF – Return Merchandise Authorization (RMA)

To fill in and send via fax to +390521818202 – Or get in contact with us, we will fill in it at your place Once you will receive the authorisation, put this document on the external packaging before sending

To be filled in by the Customer			
Retailer	Reference name	from Retailer	
Final Customer References			
(If necessary Company name, Name and Cell phone)			
MGF item code	Registration num	ber (if available)	
Description			
Number and date of invoice document and/or purchasi	ng transport docu	iment of Retailer	
Encountered Problem / Special situation in which it occ	urs		
Is the defect listed in the instruction manual?	YES	NO	
Request of repair under warranty	YES	NO	
Transport costs to be charged to	MGF	Customer	
Conditions of the technical assistance se	vice (SAT). Read	carefully before signing.	
1. Binding information for the preparation of the return The products to be sent back must be prepared for transport in accordance with the specifications provided in the User's Manual. Take care to clear or make hermetic oil tanks and other chemical product tanks, to prevent leakage for which MGF will not be liable. Topping up will be charged even if the repair is under warranty. The goods must be shipped in their original packaging or in a similar type, quality and	be product guarantee will only happen in our laboratories, following accurate technical analysis.		
durability. The product must always be placed in a sturdy cardboard and suitably protected from bumps and drops. Products weighing more than 10 kg must be supported and rigidly fixed on a pallet.	consistent with the information provided and we will repair / replace the product or component, whether under warranty.		
charged exclusively to the customer regardless of the warranty on the product and of the type of transport.	product verification, transport excluded that will be estimated in a quote.		
Stick on each individual item the coupon that will be sent following the authorization of the Technical Assistance Service (SAT) MGF , cutting it out from the bottom of the page. In any case, the packages shipped without written permission from the staff SAT MGF will be rejected.			
2. Warranty conditions		nature for conditions acceptance,	
For the application of the guarantee a document showing the date of purchase less than 2 years (if purchased with ticket) or 1 year (if purchased with invoice). This document must be sent by fax to +39 0521/818202 or at assistenza@mgftools.com. O therwise it will refer to the production date printed on the product (if available where required by law). The application of the warranty is excluded in case of improper use or use not in accordance to the manual of use and maintenance, in the absence of documents proving the date of purchase, for components subject to normal wear (eg seals, lubricants, batteries, nozzles)			

MGF GENERAL SALES CONDITIONS

This catalogue cancels and replaces the previous ones.

MGF has the the right to modify without notice its products in order to improve their efficiency and functionality.

Selling of **MOF** products is regulated by the following conditions, unless exceptions with written agreement signed from both sides. Accepting them the recipient accepts these conditions for all the involved persons or companies (retailers, agents, installers, designers, final users ...) involved in the selling, design, installation and use of the system made with offered **MGF** products.

1. PRICES

Prices are meant for the goods FCA Mezzani and do not include V.A.T.

Any price variation without notice may occur and we will inform the customer with an order confirmation.

2. OFFERS

Offers are valid for 30 days. In case of custom-made services, the price only refers to all the services specified in the offer. Any additional service will be quoted and balanced according to the current price list.

3. DELIVERIES

All the articles in the catalogue are generally available in the stock, except for what is already sold and "upon request" or "custom" items. Orders are elaborated immediately after receipt.

After the receipt an order confirmation with delivery date is sent to the customer for approval.

Also in case of delays or difficulty in the elaboration of the order (i.e. inconsistency of codes or prices), a written confirmation of the order, containing information on the order and on the date of delivery, will be sent.

In case of delay **MGF** will immediately inform the customer. Shipment delays can't motivate the missing or delayed payment of the customer, and **MGF** shall not be responsible since now for damages of any nature caused by the delayed delivery. Eventual fees for late delivery must be signed from both sides in the sales contract. **MGF** is responsible for damages occurred during deliveries only if the material was sent with its carrier, if the goods acceptation is made with reserve and if the customer immediately informs **MGF** of the damages when he receives the goods. In any case the customer can cancel a line of the order if the relevant item has more than 7 days delay calculated starting from the previous agreed delivery date.

4. DESIGN

Except what offered, **MGF** srl is not responsible of the whole system engineering , as well its risk assessment, that is at customer or at installation company charge and must be made by a specialized technician. Sales agents visits, needed only for the correct elaboration of the commercial offer, has not to be considered as a executive project, to be quoted separately.

5. INSTALLATION AND MAINTENANCE

They are completely charged to the Customer. After the delivery, the installation, the tests and maintenance of the goods, in conformity with our instructions and with current regulations for machines. Electric and plumbing systems must be assembled in conformity with technical regulations and by professional technicians. **MGF** is not responsible for damages due to missing or bad design or engineering.

6. RECESS

All the orders are planned and sent upon customer demand. Unilateral termination to the contract is not accepted and also the cancellation of orders is not accepted without **MGF** prior consent. According to Italian regulations **MGF** can decide to stop the order and to withdraw from the sales contract, if the economic conditions of the Customer, existing or occurring, do not offer enough financial guarantees.

7. PAYMENT

The modalities of payment are as indicated in the invoice and as agreed in the offer.

For payment through cash order, the handling charges will be charged on the buyer. For direct payment, rounding off or withholding are not allowed. Once the agreed payment deadline has expired, MGP is entitled to charge for interest and to interrupt any current order.

8. RETENTION OF TITLE

The property of goods will be transferred only after the complete payment of the order. Until this time the Customer has to use the goods with the diligence of a good father and can't sell it in use, lease or loan to a third part. He also has to protect the goods and inform **MOF** of eventual prejudices to goods and modify or limit **MOF** rights on them. Costs of installation, maintenance and use are at the customer charge. More precisely the costs for the wearing parts have to be charged to the Customer independently from hours of use: gaskets, nozzles, filters, lubricants...

9. TRANSPORT

The goods are transported at the buyer's own risk, even if sold carriage free. Packages are packed on pallets or cases depending on the ordered goods. It is advised to check the quantity and the status of the packages at the moment of delivery.

Complaints for transport damage will be considered valid only for goods accepted conditionally, if written in the transport document. Written complaints have to be made to the carrier the same day of the goods receipt.

10. FAULT AND DEFECT

Dissimilarity, faults or defects in the goods has to be reported in writing using the form on the catalogue on on our website www.nebulizzare.com or www.mgftools.com within 8 days from the delivery of the goods. Eventual disputes do not exempt the customer from the payment of the order. The warranty on the products is of 12 months from the delivery, but **MGF** responsibility is limited, also in the warranty period, to repair and substitution of goods, after thorough inspection and verification. Returning back of "used material" is not possible without **MGF** responsibility is excluded for any event, included costs or damages to persons and things, following the wrong use of the goods, in conditions different from what is specified on catalogs, offers and manuals. In case of substitution of goods under warranty transport costs are included up to the delivery address indicated in the order, but costs of what is installed or dismounted from other parties is excluded. Warranty does not cover costs and delays due to downtime and to what is not expressly indicated.

11. DOCUMENTS

The material is supplied complete with manuals of use and maintenance and of its relevant documents. The customer has to read and make people reading this documents before the installation and in case of doubts or requests has to call **MGF** assistance service before the installation of the system.

12. RETURNED MATERIAL

The delivered material can't be sent back without a written authorization by **MGF**. The return of the material can be authorized only by the technical assistance (SAT) that will send, after the reporting and the receipt of documents showing the purchase, marks to put on products to be returned, even in case the withdrawal is made by an agent. In any case, the material sent back will be accepted and the relevant amount will be accredited, only after the checking of the assistance and the relevant report, showing the real integrity or defect.

13. LIMITATION OF RESPONSABILITY

MGF is not responsible for damages to persons or objects caused by insalubrious water or from the voluntary or involuntary misting of dangerous substances for health and for surrounding equipment. **MGF** is not responsible for damages caused by bad installation, tampering or bad use of the product. **MGF** is not responsible for decisions about installation unless it performs a complete and executive project of the plant, as well its risk assessment.

14. FORCE MAJEURE

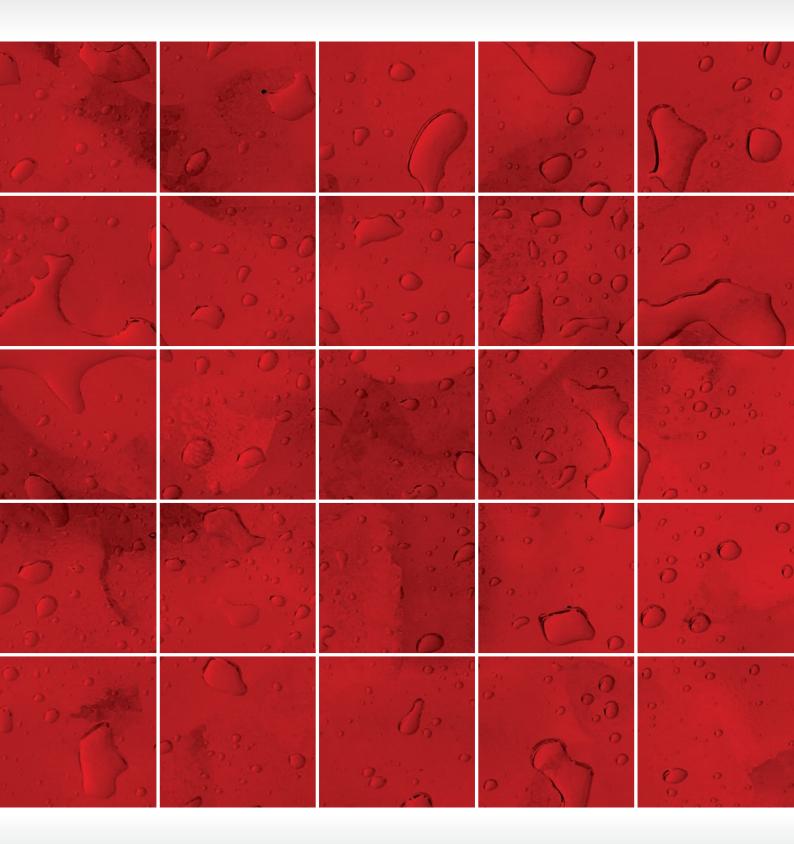
MGP srl is not responsible for defaults or delays caused by extreme weather events, strikes or labor unrest, accidents, wars, insurrections or any other cause independent from the Company will.

15. LEGAL VENUE

For any dispute, the legal venue is the PARMA court. The Italian laws shall apply.







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