





Products overview



(€

MADE IN ITALY







BundleTutor lifterSuper

Aerial tube bundle transporter with adjustable length for heat exchanger tube bundles

Learn more 72

Mef express HT NAVY (Ex)

Aerial extractor for heat exchanger tube bundles

Learn more 80





BundleCut Evolution

Band saw for the dismantling of tube bundle and recovery of heat exchanger tubesheets

Learn more









Automatic positioning tube to tubesheet TIG orbital welding system

Learn more

OMALS



Advanced tube-tubesheet TIG orbital welding system



Index



The company

for Production and tube bundle assembly

- > Automation and special machines
- > Tube rolling equipment **Tube expanders**
- > Tube-to-tube sheet orbital welding
- > Accessories:
 - >Measuring
 - >Hole preparation >Tube insertion

 - > Tube facing
 - >Mechanical drives

for Maintenance

and tube bundle dismantling

- > Tube bundle extraction
- > Tube bundle transporting and lifting
- > Tube bundle cleaning
- > Tube bundle cutting
- > Tube cutting
- > Tube extraction





Eng. Stefano Agostino CEO

"A company's growth
is sometimes natural and inevitable;
it is the management's task to seek
harmony and pursue its objectives
without losing sight
of the fundamental characteristics
to which the company
owes its success."

MUNIC



The company



1961 - 2021

Franco and Luisa Agostino Founders

YEARS ANNIVERSARY

opportunity to learn the art of manufacturing tube expanders which the experienced German manufacturer, Albert Otto. passed on to him. Then, thanks to his indomitable spirit. intuition and the support of his wife Luisa, Mr. Agostino founded Franco Agostino with affection the small Italian factory that a few years later would become Maus Italia In 1972 Maus Italia established its new premises and laid the

foundations for its development. Mr. Agostino has now entrusted this to his son Stefano, a mechanical engineer, who in 1976 successfully devote all his efforts to bring Maus Italia to the top of both the European and global sectors.

At the end of the 1950s, Franco Agostino seized the

PEZIALFABRIK FÜR

ALBERT OTTO di F. AGOS FABBRICA ITALIANA MANDRINI





























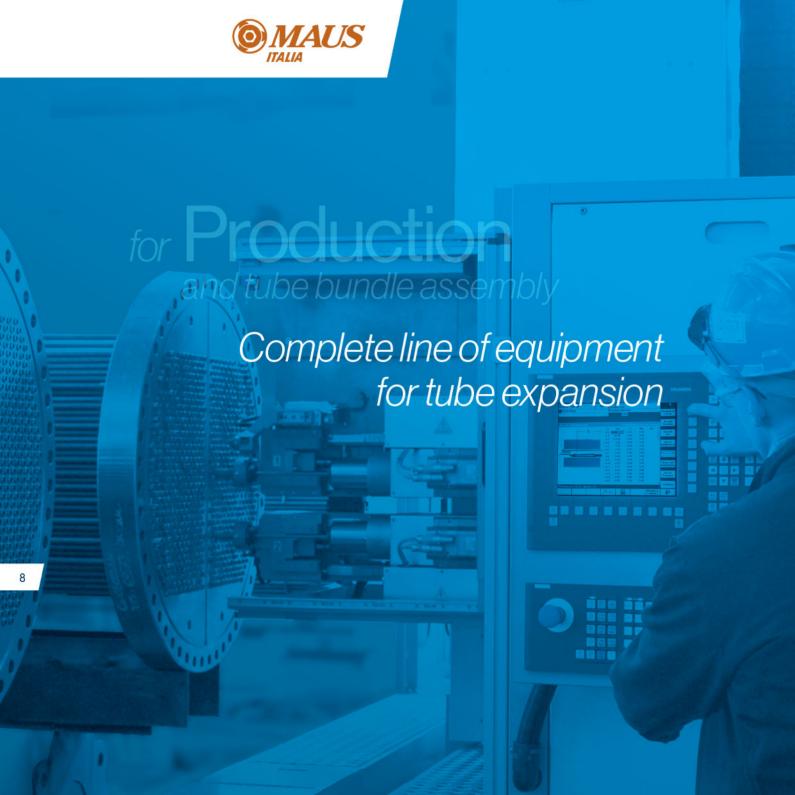




A functional working environment, computer-delegated production control, storage systems and CNC machine tools combine with young and talented engineers who, with their input, enthusiasm and ability, create an atmosphere that allows a successful Maus Italia to be the major point of reference in the global technology sector.

The company's goal is to:

- design, manufacture and sell equipment and machinery for the production and maintenance of heat exchangers, condensers and boilers of chemical plants, oil refineries, power plants, factories, etc.
- Accept the challenges posed by the market to give impetus to the Company's quest for machines and tools that offer customers more specific high-tech solutions.



for Production and tube bundle assembly

Automation

10

> Automation and special machine

Control

22

> Tube rolling equipment

Tube expanders

36

Tube expanders

Tubweld

44

> Tube-to-tube sheet orbital welding

Accessories

54

> Accessories



For more details, please request detailed catalogues











Automation

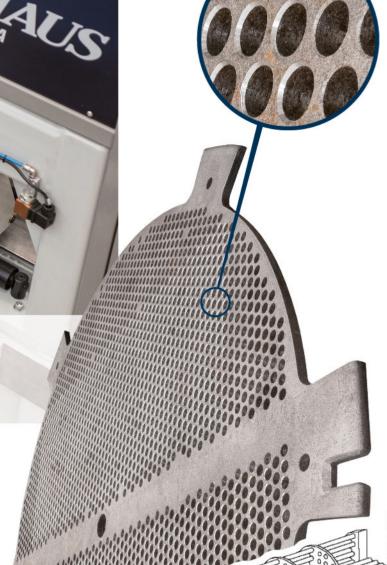
Automatic centre with double head for flaring the holes of the heat exchangers baffle.

The **Baffletech twin 2000**, allows the simultaneous flare of the holes on both sides of the baffle in a single pass without the need for additional operations thanks to two opposing heads which are equipped with self-centring tools.

The Baffletech twin 2000 also permits:

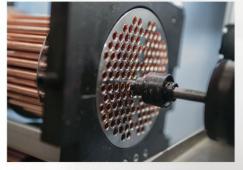
- a uniform depth flare thanks to the special design of the tilting head;
- precise centering of the flare in relation to the axis of the hole due to the innovative self-centring mandrel tool-holder;
- programming of the work sequence using dedicated software developed by Maus Italia.







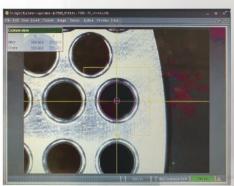
400-



-MA 400-



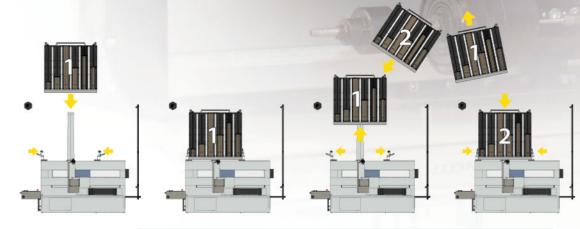
Automatic CNC tube rolling work centre with machine vision and pallet change





MAUS ITALIA has solved the problem of production of small dimension tube bundle batches with an automatic tube rolling work centre complete with innovative solutions, such as:

- machine vision system for rapid centring of holes;
- multiple fixing templates with vertical loading for the assembly of tube bundles and precise positioning for production;
- pallets for the loading/unloading of tube bundle batches in front of the **MA-400**.





Automation







600 tubes/h









Free tubes









Automatic compensation of the expansion limit depth Mandrel forward movement digital control Speed continuous variation









Pendulum process with trolleys Continuous positioning in front of the machine eliminates load/unload downtimes, thus increasing production

Stage 1

MA500



Single axis cnc working centre for rolling and facing ideal for serial production.

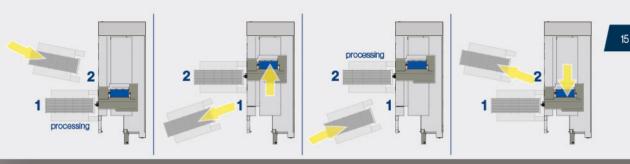
Tube sheet max diameter 1000 mm (40").

The MA 500 is the most innovative and effective solution ever offered by Maus Italia for automating the process cycles of small heat exchanger assembly for high volume production.

High technology

Maximum productivity





Stage 2

Stage 3

Stage 4







The ability to lean the **MA 2501** makes the machine suitable for any type of transport





MA 3501 Up to a tube sheet diameter of 3500 mm (140")

MAUS

Automation

MA 2501



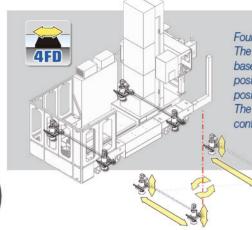
Single or double axis cnc working centre with movable machine for rolling, facing, grooving and TIG orbital welding.

The **MA 2501** is the most innovative and efficient solution ever offered by Maus Italia as an automatic process for the construction of medium and large sized heat exchangers.

- High technology
- Maximum productivity
- Maximum manoeuvrability







Four Feet Drive

The new **MA 2501** and **MA 3501** servo hydraulic machine base guarantees durability and precision. In particular, the 4 positioning stabilizers help to compensate for horizontal positioning errors.

The transmission system on each stabilizer guarantees continuity and precision in movement









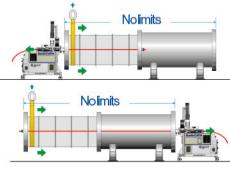


















Traction rope







Bundle NXT60

Automatic hydraulic tube bundle inserter for heat exchangers with patented cos system to compensate for crane oscillations on the Yaxis.

According to heat exchanger manufacturers, the insertion of long and heavy tube bundles floating inside the shells is one of the most challenging steps of the assembly cycle.

With the **Bundle** M, Maus Italia offers a piece of equipment that can solve this type of problem quickly, accurately and safely. Once the fixing points of the ropes are attached to the shell the **Bundle** Can insert the tube bundle at a speed of 2m/min (6.5) Ft/min)

The adjustable generated coaxial force up to 60 T (132300 Lb) brings the tube bundle inside the shell smoothly and safely.

Up to 60 Ton (132300 Lb)









Mefshop N

Fixed station tube bundle heat exchangers inserter/extractor.

The **Mefshop** wis a free-standing machine (no crane required), capable of inserting/extracting the bundle quickly, accurately and safely.

Thanks to its experience in the manufacturing of maintenance bundle extractors, Maus Italia offers a machine which is dedicated to modern heat exchanger manufacturers.

Max load capacity 22 T (48500 Lb).













MAUS

Pneumatic rolling machines

Torque control pneumatic rolling machines

Maus Italia pneumatic rolling machines are quick, light, and safe and are the ideal solution for heat exchanger manufacturers and maintenance operators who want to operate on-site in a safe environment and with high quality equipment.



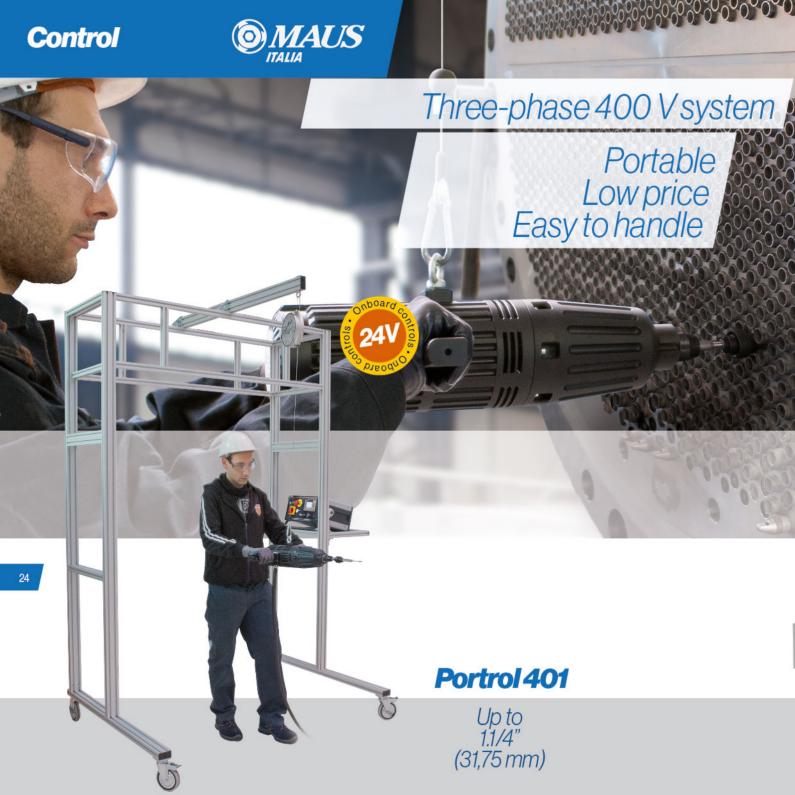






Up to (101,6 mm)





High quality Long life Reliable and robust

Portrol 401

Portable electric controller Port 401 with 400 Volt 3-phase **PR-1000** motor for controlled tube expansion.

A good compromise between quality and price. Specially designed for quality maintenance operations or for small heat exchanger batch production.

Maus Italia has designed and manufactured the first fully portable three-phase 400 Volt expansion machine which. meet strict European standards.

Port 401

Portable electronic controller for tube expansion



- Expansion torque selection
- Automatic motor rotation stop when selected torque is reached
- Multi-function display
- Manual rotation reversal
- Remote controlled
- No-load rolling motor resetting













Y+

Y-

Quadrol 90x

Mobile semi-automatic expansion stations comprising **F90 V** sx electronic expansion controller and **MK** low-voltage, 3-phase electrical rolling motors.

MK-800

Up to 1.1/2" (38,10 mm)

MK-400

Up to 2.1/2" (63,50 mm)











Matex

Hi-tech, low voltage electrical mobile stations with R brushless motors and torque-based speed continuous variation for semi-automatic controlled tube expansion.

USB

memory stick for the saving of expansion data

- program setting
- torque value reports

Instantaneous display of parameters

- Motor absorption (amps)
- Torque delivered to the tube expander (Nm)
- Motor absorption Graph (amps)
- Cycle duration time
- Rotational speed of tube expander
- Successfully completed rolling cycle counter

















Quadrol Matex MRP

Hi-tech
hydromechanically-assisted
expansion system for tube
expanders with
parallel rolls.

This system is dedicated to the rolling of tubes wherever it is necessary to minimize elongation in the tube and its related stress to obtain a perfectly homogeneous contact between tube and tube sheet across the entire expansion length.

Up to 1" (25,40 mm)

On request up to 50.80 mm (2")

Quick joint

Quick connect cage-holding joint with incorporated rotating distributor for tube expander lubrication























Hydrol

Hydraulic tube rolling equipment for the expansion of boiler tubes.

Hydrol equipment comprises two parts: a hydraulic unit and portable hydraulic rolling motors.

Hydrol 40.2

Professional model, due to its capability to indipendently handle two portable hydraulic rolling motors, **Hydrol 40.2** rolls two tubes simultaneously by controlling oil pressure with a programmed continuous cycle and adjustable speed.

Hydrol 40.1

Professional model with a single hydraulic rolling motor.

Hydrol 20.1

Manually controlled hydraulic unit for tube rolling expansion with a single hydraulic rolling motor.

HM

Hydraulic rolling motors for tubes up to 219,10 mm (8.625").

Control









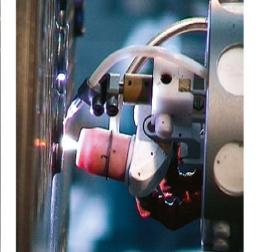




Ultra high pressure water hydraulic system for tube expansion.

In order to comply with the increasingly stringent specifications coming from the petrochemical, nuclear and chemical fields. Maus Italia has designed and manufactured the Hydrex 5003, a fourth generation product which has been acclaimed by our customers for more than 16 years. The Hydrex 5003S is the 'full optional' version of the 5003 series, that Maus Italia has developed for specific application in the nuclear sector or in the "high quality" heat exchanger tube working process, and has the following features:

- the **HF6000** hydraulic gun, used for tack expansion, has been designed for the pre-welding positioning of tubes using a polymer ring to prevent any metal contamination;
- the 2TH400 hydraulic anchoring device, essential for the proper positioning of the probe to reduce the effects





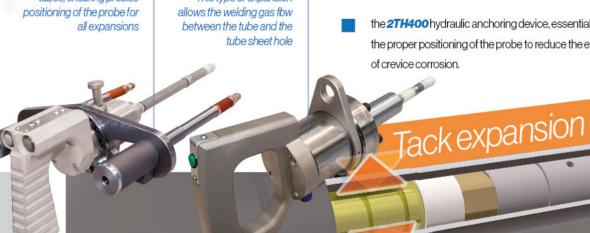


2TH400

With a pressure of 400 bars (5800 psi), the two 'noses' are expanded inside the tubes, ensurina precise

HF6000

Tack expansion hydraulic aun for pre-welding positioning of the tube. This type of expansion



R11 R13

Tube expanders for tube with small diameters, from 1/4" to 1/2" (6,35 to 12,70 mm), having a thrust collar with plane shoulder



Adjustable tube expanders for thin or medium thickness tubesheets and tubes with Ø from 1/2" up to 1.1/2" (12,70 to 38,10 mm).

R50 R51

Adjustable long reach tube expanders for thick tubesheets and tubes with Ø from 1/2" to 1.1/2" (12,70 to 38,10 mm).







5R

5R: Code used to indicate type R tube expanders with 5 rolls (instead of standard with 3 rolls), suitable for the rolling expansion of thin thickness tubes to ensure a better roundness on the expanded tube.

R41

Tube expanders for thick tube sheets and tubes with \emptyset from 1.3/4" to 3" (44,45 to 76,20 mm).

R141 R/161

Step-by-step tube expanders for tubes with Ø from 5/8" to 1" (15,87 to 25,40 mm) with quick release device for thrust collar repositioning to expand the entire tube sheet length without removing the expander from tube.



















R 5R

Complete **R**-series (3 rolls) and **5R**-series (5 rolls) line adjustable depth tube expanders for heat exchangers and condenser tubes.

- The **R**-series adjustable depth tube expanders have been designed for rolling tubes in heat exchangers and boilers. They are driven by pneumatic or electric rolling machines with torque control.
- The **5R**-series tube expanders have five rolls to overcome the problems of rolling thin-walled tubes, especially those made of titanium. These tube expanders perform special expansions and have gently tapered mandrels to reduce the problems connected with residual stress in the expanded tubes.





MG

Complete MG-series (3 rolls) line variable depth tube expanders for tube sheets of low, medium and high thickness for heat exchangers and condenser tubes.

The MG-series variable depth tube expanders have been designed for rolling tubes in heat exchangers. They are driven by pneumatic or electric rolling machines with torque control.



OMAUS Tube expanders

BH

O.D. tubes 1.1/2" ÷ 4.1/2" (38,10 ÷ 114,30 mm)



CH

O.D. tubes 1/2" ÷ 4.1/2" (12,70 ÷ 114,30 mm)



DH

O.D. tubes 1/2" ÷ 4.1/2" (12,70 ÷ 114,30 mm)



BH CH DH F602

Complete line of fixed depth tube expanders for boiler tubes.

The **BH CH DH**-series fixed depth tube expanders have been designed for rolling boiler tubes.

A development of the B C D-series that Maus Italia has produced and sold with great success for more than 50 years.

All the tube expanders of the **BH CH DH**-series can be driven by pneumatic, hydraulic and electric rolling machines with torque.

- **BH**-series tube expander with plane shoulder available in the standard version with 3 expansion rolls
- CH -series tube expander for rolling and flaring at 15°, available in the standard version with 3 expansion rolls and 3 flaring rolls.
- **DH**-series tube expander for rolling and flaring at an angle of 15°, available in the standard version with 3 expansion rolls and 3 flaring rolls.
 - This is the improved version of the **CH**-series which gives a uniform result in rolling and flaring thanks to an adjustable stop.
- F602-series tube expander for simultaneous rolling and beading of tubes in boilers.





F500

Complete line of **F500**-series tube expanders with adjustable torque clutch, for rolling and flaring thick walled tubes in *cracking* furnaces tube seats.

F500-series tube expanders with adjustable torque clutch, torque control and mandrel feeding device for tubes up to ASA 8" Sch. 40 (219,1x 8,18 mm).













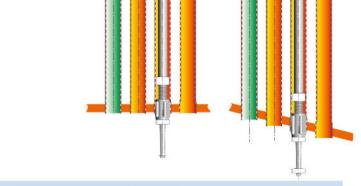




VP100 SG100

Complete line of tube expanders for sugar production plant vacuum evaporators.

- **VP100**-model for parallel tube sheets
- **SG100**-model for inclined parallel tube sheets.





Tube expanders (a) MAUS



DIN BS

Complete line of **DIN** series and **BS** series (5 rolls) fixed depth tube expanders for the milk industry.





The system consists of:

DIN series and BS series tube expanders for stainless steel tubes and bends in accordance with DIN 11851, DIN 11852, British Standard 1864:1966

MTT DINseries and MTT BS series

clamping lugs for cutting tubes



MTT DIN

O.D. tubes 28.0 ÷ 104.0 mm

(1.102" ÷ 4.094")



MSS DIN



BS Milk

OD tubes 1" ÷ 4" (25,40 ÷ 101,60 mm)



MTTBS



MSS BS





VN DN

Complete line of **VD**-series and **DN**-series tube expanders for rolling valve seats.



For special application.



Maus Italia designs and manufactures tube expanders customized for special applications.











Due to the expansion of the front plier, the tube is mechanically expanded for a few mm, brought to the tube sheet holes and fixed in the required position before the welding operation

KattexFix 6

From 3/8" to 1.1/2" (9,52 to 38,10 mm)

KattexFix 12

From 1" to 4.1/4" (25,40 to 107,95 mm)



MAUS TALL

Kattex Fix

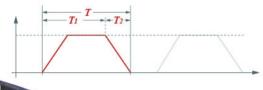
Hydraulically-operated tube locking system for **pre-welding** expansion on heat exchangers.

Innovative patented system for the instantaneous locking of tubes using a metal expanding plier.

The use of the **Kattex Fix** ensures a precise result in a very limited time thus increasing job productivity.



Semi-automatic hydraulic unit with electrical motor and equipped with a timer control system recommended for repetitive tasks



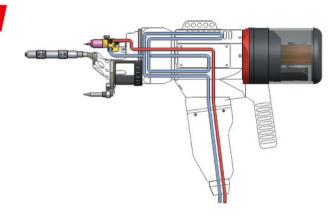
Tubweld













46

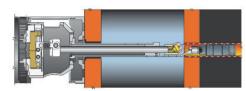


















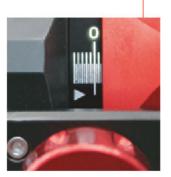
Orbital welding heads for tube-to-tube sheet TIG welding for the manufacture of tube bundle heat exchangers.

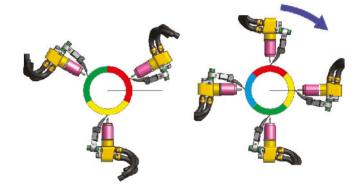
Maus Italia presents its new range of **Giotto** series orbital heads for tube to tubesheet TIG welding.

Following thousands hours of R&D, tests and prototyping, the result is an outstanding and unprecedented orbital welding head that is a masterpiece developed, manufactured and machined in Italy, with the extreme precision and quality you would expect from Maus Italia.















0:0



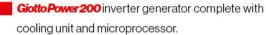
High-quality tube-tubesheet TIG orbital welding system.



MAUS ITALIA presents the **Giotto Basic** orbital welding system for tube-tubesheet welding in heat exchangers.

Its in-house design and manufacture has enabled us to optimise the design in order to offer a high-quality system, comprising:

Giotto 250B orbital head for tube-tubesheet TIG welding;

























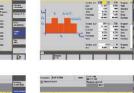


Automatic positioning tube to tubesheet TIG orbital welding system for tubes from 1/4" to 2" (6,35 to 50.80 mm).

MAUS ITALIA presents the evolution of its TIG orbital welding work centre with new functional, ergonomic and aesthetic solutions, in response to practical requests from its increasingly demanding customer base.

With its **Giotto 250 Auto** welding head, graphic interface, **MausCAM** software and many other components of the highest quality, a milestone has been reached in the quality control of the tube-tubesheet welded joint.



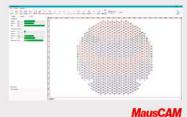












Dedicated software for intuitive DXF programming for the construction of the tubesheet drilling coordinate matrix.



F700

Internal mechanical gauge with 2 contact points



F703







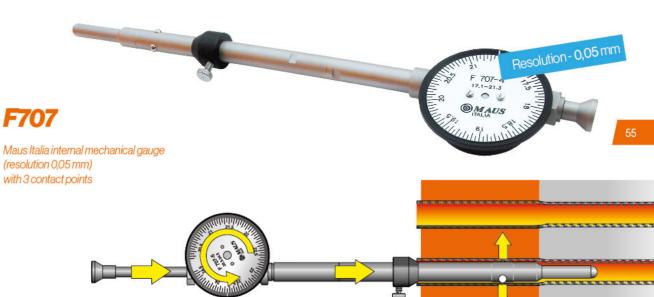




F707 F703 F700

Mechanical and digital instruments for hole measurement.

Range of instruments designed for measuring tube sheet holes and the tube's internal diameter both before and after expansion.











Accessories Holetool

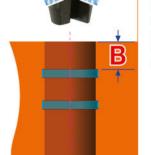
F12 F13 F10 F11 F20 F26

Tools with coolant fluid feed channels for tubesheet hole processing. O.D. tubes from 3/8" to 2" (9,52 to 50,80).

Range of tools made with extremely high quality and wear-resistant materials, capable of withstanding high speeds due to coolant fluid feed channels.

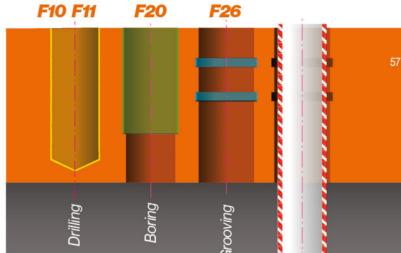
F20

Reamers with Tungsten Carbide



F26

Self-centring grooving tool, with adjustable B depth and interchangeable HSS-Co cutter bits









F112 F120

Universal grooving tools.



F112

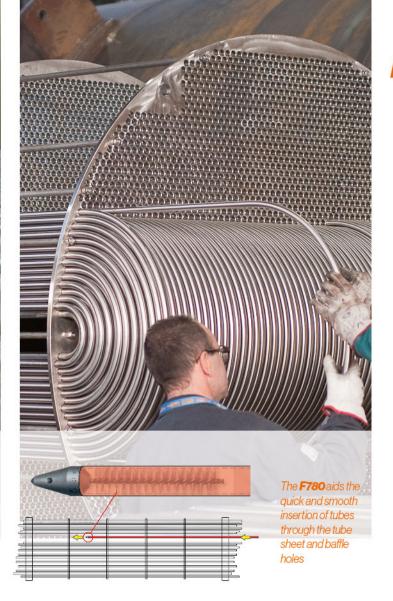
Universal grooving tool for tube sheet holes ranging between 7 and 30 mm (0.276" to 1.181")





F120

Hydraulic universal grooving tool for holes up to 120 mm (4.724")

















F780

Tube pilots for tube insertion during tube bundle heat exchanger assembly.

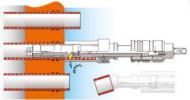
The F780 series tube pilot comprises an aluminium tapered head (steel, PVC or other materials available upon request) and a nylon brush.

A hole on the tapered head allows easy removal of the tube pilot from the tube.





60







F796

Tube cutter to remove extra tube sections

F751R

Tube end facer with HSS cutting bit F753

Adjustable combined milling cutter for simultaneous deburring/chamfering of tube outer and inner diameters







F796 F751R F753 **MBOS16-2 MOF**

Tube facing tools driven by electrical and pneumatic motors

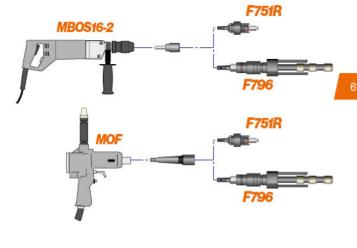
Complete series of tools for cutting, facing and deburring the tube ends of heat exchangers.

MBOS16-2

Electrical motor





















Optional accessory for the *Kattex Cut 6* for the removal of surplus tube with a protrusion

Indicated for applications on systems where limited access to the tube does not permit traditional external cutting.













F314HS F317HS

> Patented adapter with female/female double quick coupling specifically for high speeds



F313 F316

Adapter with female/female double quick coupling



F315 F318

Fixed female/female adapter













F308HS F308 F314HS F317HS F313 F316 F315 F318

Mechanical drive for tube expansion.

The brand-new **F308HS**, the technological evolution of the **F308** and boasting new innovative design solutions, is recommended for use at speeds exceeding 400 revolutions/min (r.p.m.) due to its accuracy and stability.



Telescopic shafts with Cardan joints, the **F308HS** and F308 series, for the rotation and torque transmission from the rolling motor to the tube expander allowing the horizontal movement required





F770HS F771 F680

Rigid extension and universal joint for manual mechanical drive.

A full range of extensions and universal joints are available for jobs with difficult access conditions.

Strong reversible ratchet wrenches are available for manual tube expansion.

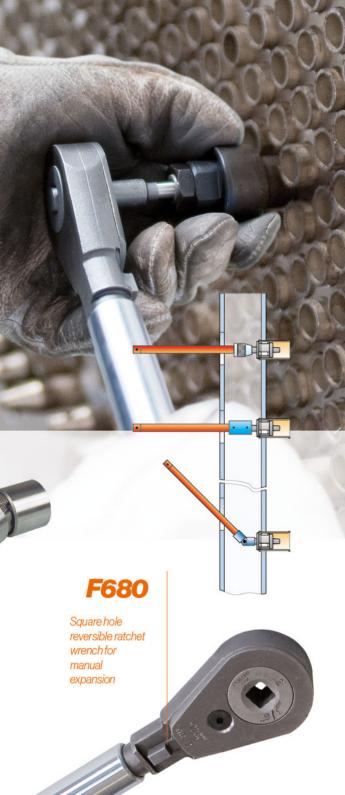


F770HS

Rigid extension with male-male square drive

F771

Universal joint







Accessories Lubrol

GSA LBR

Special water-soluble lubricating paste and fluids for tube expander lubrication.

With **Lubrol** products, Maus Italia has selected two lubrication solutions to increase the service life of the tube expander.



GSA

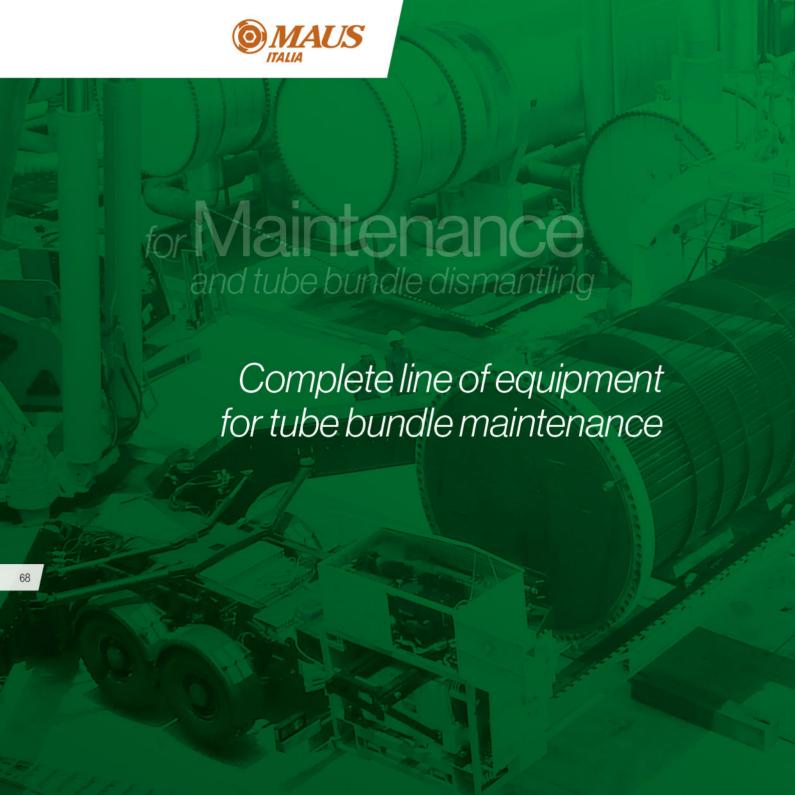
Special water-soluble vegetable paste specifically for tube expansion



LBR

Special water-soluble vegetable fl.id specifically for tube expansion







for Maintenance and tube bundle dismantling

> Tube bundle extraction, transporting and lifting

> Tube bundle cleaning

> Tube bundle cutting

> Tube cutting

> Tube extraction



For more details, please request detailed catalogues

20









ATEX certification on request

The **Mef express HT** is supplied with a Diesel Engine.
Engine which are suitable for operation in areas classified as hazardous are available on request (**complete with ATEX** conformity declaration covering the whole machine)









70















Rocker arm which may be disassembled into 3 pieces for transportation in a container and for an easy machine storage





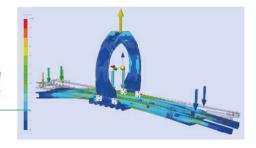


3 parts

Oval

Circular

Structural analysis



Loading and lifting test (Dummy weight)





Mef express HT

Aerial quick hooking bundle extractors (on-shore).

MAUS ITALIA presents, for the extraction and insertion of tube bundles in the plant, a complete new range of Mefexpress HT aerial tube bundle extractors with dedicated solutions for handling by crane for maintenance at great heights.

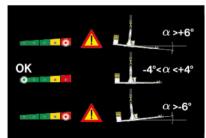
Years of evolution of the **Mef express** product series have allowed the design to be revisited, making the **Mefexpress HT** (High Technology) aerial tube bundle extractors of today even more lightweight, more versatile and easier to handle.

Starting from the numerous standard products that cover common market requests, MAUS ITALIA is also able to provide custom solutions to solve extreme cases with ATEX / OFF-SHORE versions.

EOC electronic overturning control



Innovative control system which allows overhead handling of loads in complete safety by inhibiting any incorrect commands that could compromise the stability of the Mefexpress HT.









ST-0378 | ST-E273 MARITIME

72



Independent adjustable cables

Ensures compensation for any asymmetrical positioning errors of the "saddle" bands located underneath the tube bundle.

BundleTutor lifter NAVY

DNV approval version for operation in the open sea where extreme conditions and erosion are merciless



Fully Electric version for operation indoor while respecting the environment and operator health



BundleTutor lifter Super

Aerial tube bundle transporter with **adjustable length**

MAUS ITALIA presents the **Bundle Tutor lifter Super** for **the aerial** handling of tube bundles, for use both within the plant and during the production of heat exchangers. By lifting the tube bundle easily and safely, the **Bundle Tutor lifter Super** eliminates the risk of destroying the baffles and damaging the tubes.

The MAUS ITALIA team is available to design custom solutions for extreme circumstances and ATEX/NAVY versions for the offshore market.

Fixed length version

The fixed coupling points are a simple and effective solution for fastening the tube bundle supporting slings.













ATEX certification on request









Tube bundle **transporting**



BundleTutor mobil

Self-propelled transporter for the handling of tube bundles









MAUS ITALIA offers the **Bundle Tutor mobil** for the handling of tube bundles independently of cranes and trucks inside the plant, speeding up loading and unloading of **Mef express HT** bundle extractors and transportation from the extraction point to the washing area or maintenance workshop.

The MAUS ITALIA team is available to design custom solutions to provide solutions for extreme cases and ATEX explosion proof and NAVY versions for the offshore market.





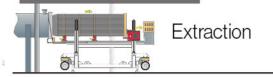


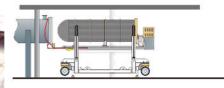


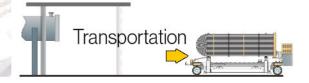












Solution for difficult access areas (under shelter)

Hydraulicallycontrolled bundle supports



Mef mobil

Self-propelled tube bundle puller (on-shore) for the extraction and transportation of tube bundles max. weight up to 20 Tons.

The **Mef mobil**, self-propelled tube bundle puller, is designed for areas which are difficult to access in petrochemical plants for the extraction and transportation of tube bundles.

The **Mef mobil** operates autonomously without the need for cranes and trucks for positioning and transportation of the tube bundle to the maintenance area.















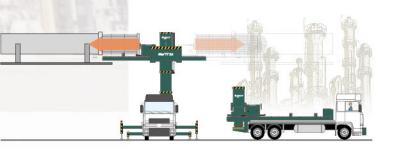


Tube bundle puller to be mounted on the truck.

Lifting capacity up to 23 Ton

The **Mef TT 23** model tube bundle puller is designed to be mounted easily on the truck for the extraction of the tube bundle without the use of a crane.

This system is particularly advised for maintenance companies who constantly operate in the petrochemical plant field.



EOC

Electronic Overturning Control system

Advanced system to control load movements under safe conditions, prohibiting any commands which could jeopardize the

MEFTT23 machine's stability, levelling and guaranteeing compliance with **C** € certification requirements.









DNV certification for FPSO and offshore platforms

Lifting certification

Supplied chains, shackles and lifting hooks are **DNV** certified for use in the open sea and in cases of extreme stress.



Movement certification

Movement components, such as hydraulic cylinders and planetary gearboxes, are **DNV** certified for use in the open sea and in cases of extreme stress.

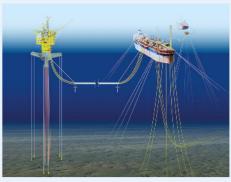


80









Mef express HT NAVY

Aerial Quick hooking bundle extractors (off-shore).





MAUS ITALIA can, on customer request, manufacture Mef express HT extractors in an offshore version.

The DNV MARITIME certified transformation includes everything already done to obtain the ATEX certification with additional specifications for lifting accessories, movement and sizing guided by the certification specifications with a more accurate process control.



Welds are subjected to magnetscopic (or radiographic) examination to obtain DNV certification.





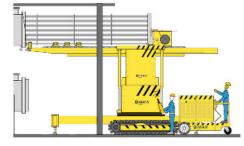














Mefmobil NAVY

Self-positioning tube bundle puller, remote controlled for extraction, hoisting and movement of tube bundles (off-shore).

Self-positioning tube bundle extractor **Mef mobil NAVY**, suitable for ocean platforms and FPSO installations.

This is a special model of the **Mef mobil**, designed and manufactured to meet the specific demands for safety and off-shore manoeuvrability.

Van Motor NAVY

To reduce dimensions and weight of the **Mef mobil NAVY** the motor and the hydraulic unit are assembled on a four-wheeled trolley



83













Fixed tube bundle puller, remote controlled for extraction of tube bundles (off-shore).

Mef fixed NAVY fixed tube bundle extractor, suitable for ocean platforms and FPSO installations.

This is a simplified version of the **Mef mobil NAVY**, designed and manufactured to meet the specific demands for safety and off-shore manoeuvrability.





In order to reduce the dimensions and weight of the **Mef fixed NAVY** the motor and the hydraulic device are assembled in a separate unit









Idroscal NAVY ATEX certification onrequest

Idroscal pumps can be supplied on request on the NAVY model with suitable motors for working areas classifed as hazardous (complete with ATEX conformity declaration)















Idroscal

Hydrodynamic pump unit with Electric motor or Diesel engine for cleaning of heat exchangers with high pressure water.

Idroscal hydrodynamic pump unit model supplied with Electric motor or Diesel engine for the cleaning of heat exchangers with high pressure water as per Customer requirements / needs.





the material removed from the tubes.



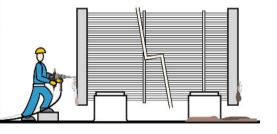


Pneumatic shaft tube cleaners for tube bundle heat-exchangers.

The pneumatic shaft tube cleaners with tool water cooling system

exchanger tubes even when completely blocked; the continuous flow of water (max pressure 20 Bar - 290 psi) through the holes in

are the simplest and most effective solution to clean heat





Driven

shaft

Shaft

coupling









BundleCut 2000

Up to 78" (2000 mm)

BundleCut 3000

Up to 118" (3000 mm)

Precision
Any stubs
that are still
attached to the
tube sheet are
not deformed
and are easy to
remove





Band saw

for the dismantling of tube bundle and recovery of heat exchanger tubesheets

For when it becomes impossible to partially retubing the tube bundle from a heat exchanger, MAUS ITALIA proposes the **BundleCut** band saws for the rapid, safe and ecological retrieval of the tubesheet.

BundleCut has become "Evolution". Years of product evolution have allowed a complete review of the design, enabling MAUS ITALIA's band saws to be even safer, better performing, more precise and state-of-the-art.

Thanks to the high level of cleanness in the cut, in combination with the **Grippul** series quick-fastening tube stub extractor and **Onlypul** and **Runpul** continuous tube extractors,

the **BundleCut** Evolution facilitates and speeds up the recovery of the tubesheet without damaging its holes.











KattexCut

Hydraulically-operated tube cutter (before **Grippul**) for heat-exchanger and boilers.

Innovative patented device which is hydraulically operated for instantaneous internal cutting of tubes.

The *Kattex* ensures a clean result in a short time for dismantling or partial retubing during maintenance.

TP2E

Electrical hydraulic pump unit

TP2P

Pneumatic hydraulic pump unit



Cutting without shaving











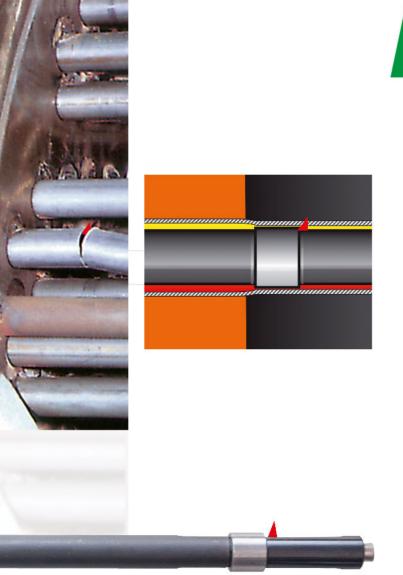
Portable electric drill



MOF

Portable pneumatic drill









F794 F794L



Tube cutters for medium and thick tube sheets.

Model **F794** and **F794L** tube cutters are the traditional solution for internal tube cutting.

The tube cutters are driven by pneumatic **MOF** or electric

MBOS16-2 motors.



Up to 1.1/2" (38,10 mm)

REmax

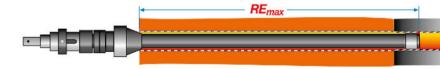
Up to 6" (152,40 mm)

F794L

Up to 1.1/2" (38,10 mm)

REmax

Upto 12" (304,80 mm)











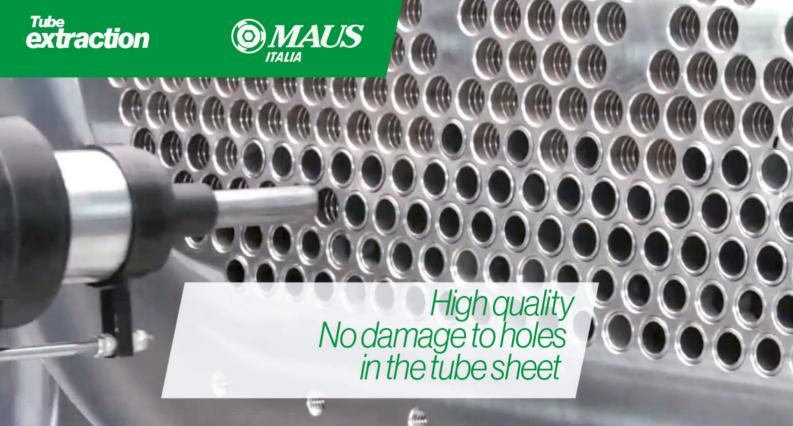


Electrical, Pneumatic and Manual hydraulic units.



Range of hydraulic units capable of satisfying various needs depending on the type of use: from the simple replacement of tubes to the more demanding applications of large scale maintenance work.







Grippul 11

From 1/2" to 1.1/2" (12,70 to 38,10 mm)

Grippul 21

From 1" to 2.1/2" (25,40 to 63,50 mm)







The **ABTS** (Anti-Breaking Tie-Rod System) allows the force with which the jaw penetrates the tube to be adjusted to suit the tube's diameter and the material from which it is made



The electric **OPS** (Over Pressure Switch) cuts off hydraulic fluid delivery when the piston reaches the end of its stroke, preventing unnecessary overpressure in the system



The **RC24** remote control beside the knobs simplifies and speeds up stub extraction. The remote control is fitted on both pneumatic and electric versions



The **RSR** (revolving support ring), on which the **Grippul** is suspended during use, allows optimal positioning in the tightest of spaces



Quick hydraulic stubs pullers.

The **Grippul** series of quick attaching gripper tube pullers is designed for the rapid extraction of tube stubs from tube sheets. In tandem with **BundleCut** or **Kattex**, they facilitate and significantly speed up the tube sheet recovery.

TP10E

TP10P

Electrical and pneumatic hydraulic pump unit





Standard supply
Grippul
Set of spare gaskets
Service wrenches set
Pressure gauge
Instruction manual
2 hydraulic hoses











Device) is an emergency hydraulic device for unlocking iaws which have been jammed on to the tube due to rust etc.



The electric **OPS** (Over Pressure Switch) cuts off hydraulic fluid delivery when the piston reaches the end of its stroke, preventing unnecessary overpressure in the system



The RC24 remote control beside the knobs simplifies and speeds up tube extraction. The remote control is fitted on both pneumatic and electric versions



The **RSR** (revolving support ring), on which the Runpul is suspended during use, allows optimal positioning in the tightest of spaces



Runpul

Automatic hydraulic tube pulling for continuous high speed extraction of tubes suitable for large scale maintenance work.

Hydraulic tube puller with double iaws, for automatic continuous tube pulling at high speed.

Suggested for large scale maintenance work on condensers and heat-exchangers.

Runpul 15 from 3/8" to 1.1/8 (9.52 to 28.58 mm)

Runpul 30 from 3/8" to 11/4" GAS (9.52 to 42.40 mm)

Runpul 45 from 1" to 3" (25,40 to 76,20 mm)

Runpul 60 from 2" to 4" (50,80 to 101,60 mm).











The **RC24** Remote Control beside the knobs simplifies and speeds up tube extraction. The remote control is fitted on both pneumatic and electric versions



The **RSR** (Revolving Support ring), on which the **Onlypul** is suspended during use, allows optimal positioning in the tightest of spaces





Onlypul

Semi-automatic hydraulic tube pulling for small scale maintenance work

Hydraulic tube puller semiautomatic continuous extraction. Suggested for small scale maintenance work.

Onlypul 15 from 3/8" to 1.1/8 (9,52 to 28,58 mm)

Onlypul 30 from 3/8" to 1.1/2" (9,52 to 38,10 mm)

Onlypul 45 from 1" to 3" (25,40 to 76,20 mm)

Onlypul 60 from 2" to 4" (50,80 to 101,60 mm)





F790
One revolution tube cutter







Tube **extraction Cheaptool**

F789 F/790 F/791 F/792 F/793 F/800

Tools for manual maintenance of heat exchanger tubes.

Cheaptool is a complete system produced by Maus Italia for the manual, low-cost maintenance of tubes in heat exchangers in oil refineries, condensers in electric power stations, boilers, etc.







Integrated quality, environment and safety policy for its own success and that of its Customers

Maus Italia is fully aware that a responsible economic strategy should be is targeted towards preventing quality and environmental problems deriving from its activities. It also considers the protection of health and safety at work as a fundamental and indispensable aspect of overall company management.

Maus Italiare cognises that the continuous improvement of its own performance in terms of quality, environment and safety at work leads to significant commercial and economic advantages that at the same time satisfy customer expectations and lead to an environmental improvement in the territory where the company works and safety at its work sites.

Maus Italia therefore is committed to a policy of continuous improvement of its own performance, with the goals of fully satisfying the needs of its customers and other interested parties, and minimising, where technically possible and economically



sustainable, all negative impacts on the environment from its activities, formally committing itself to activities for the prevention and protection of everyone at its site in Bagnolo Cremasco (CR).

Maus Italia intends to achieve these goals through:

- ensuring that its own activities are carried out in compliance with current laws and with any accepted codes of practice;
- implementing and maintaining an effective Integrated Quality, Environment and Safety Management System according to the requirements of the UNI EN ISO 9001, and BS OHSAS 18001 standards;

ensuring that this policy and the relative management system are included, implemented and maintained at all levels of the organisation and that the system is supported by periodical and systematic training activities;

defining objectives and goals relating to quality, environment and safety at work to be integrated with operative plant management and company development programs;

doing everything possible in organisational, operative and technological terms to prevent pollution of the water, the air or the ground.

minimising the use of energy and water and the production of waste and promoting recovery where possible.

increasing and improving the participation, awareness and skills of those working in the company plants.

This policy must be constantly adjusted according to the

Company's purposes and must be communicated and understood throughout the organisation. For this purpose, the Management has arranged for the policy, in parallel with the objectives, to be reviewed at least once a year during management reviews. The General Management ensures that companies collaborating with Maus Italia and those working on its behalf have the minimum quality requirements to guarantee services and products that are qualitatively compliant with the company's expectations and that these companies provide evidence of implementation of a continuous improvement and pollution prevention system.

This policy applies to the entire organisation and for the activities carried out at the Bagnolo Cremasco site.





Tel +39 0373 2370 info@mausitalia.it expo@mausitalia.it



MAUS ITALIA S.P.A.

SP415 KM30 (nuova strada di arrocco) 26010 BAGNOLO CREMASCO (CR) ITALIA

© 2021 Maus Italia, all right reserved

The technical data indicated can be modified at any time without prior notice. This document is to be considered merely indicative and is not a product offer.