

WALTHER PILOT



Automatic Spray Guns



Die Beschichtungs-Experten

More and more companies are using automatic spraying equipment. The reasons are obvious.

- Whatever the problem, we have the ideal solution, whether it be
 - conventional spraying
 - low-pressure spraying technology
 - airless and air-assisted spraying

- You save material - up to 30% compared to manual guns.

- WALTHER PILOT automatic spraying equipment can be added to any existing material feed system, either standard or recirculating.

- A wide range of nozzle sizes ensures that your spraying medium is put to optimum use. If you require, we can carry out spray tests in our lab to help you find the ideal combination of nozzle and air cap.

- To ensure maximum repeat accuracy, WALTHER PILOT automatic guns operate in combination with highly sophisticated control equipment. Your benefit: process reliability and constant high-quality output.

- All automatic spray guns are designed for heavy duty industrial jobs. For abrasive media, diaphragm versions or guns with low-wear seal packings are available.

- Spray guns for use in the food or pharmaceutical industries are available in stainless steel to comply with safety standards.

at home in many sectors of industry

- With WALTHER PILOT spray guns, servicing and cleaning is made easy. The material duct is straight to prevent deposition of the spraying medium. The pull rod allows the gun in an OFF condition to be flushed and the material line to be vented.
- All mounting devices – ranging from simple pins to a complete lifting system – are available for every spray gun.
- Complete spraying systems, including all the components you require – material feed systems, pressure containers, pumps, air regulators and filters, hoses, spray booths – can be supplied on a made-to-measure basis.
- In the age of robotics, automatic spray guns must often be tailored to meet modern factory requirements. Through constant product development, WALTHER PILOT ensures the highest flexibility in every aspect. For example, our guns are powerful yet small enough to fit into space-saving installations.



A great variety of models to meet all requirements

Sector	
● Automotive Industry	● Plastics Industry
● Mechanical Engineering	● Packaging Industry
● Iron and Steel Industry	● Food Processing Industry
● Woodworking Industry	● Pharmaceuticals Industry
● Glassmaking Industry	● Ceramics Industry
Spraying Media	
● Paints and Lacquers	● Foodstuffs
● Marking Paints	● Pharmaceutical Products
● Mould Separating Fluids	● Sealing Materials
● Adhesives and Glues	● Oils and Greases
● Smoothing Media	● Adhesion Promoters
● Vitreous and Porcelain Enamels	

Much more than just painting...

The examples show:



Coating airbag gas generators. Four spray guns aim at the conical workpiece. Coating rate: 3 - 4 seconds.



Marking seams for the production of car seats



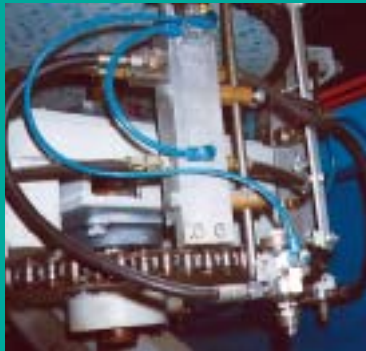
Marking pipes and metal sheets



Spraying adhesive media onto cardboard products



Seal-coating PCBs



Oval rotor with 24 airless guns for latex-coating the inner padding of skiing anoraks



Coating nuts with molten chocolate



Final cold-end hardening of glass containers



Drum-coating small parts using extension tubes.



Anti-corrosion coating of handle lug weld points

Quality without compromise

An automatic spray gun always plays a key role in any spraying system. It must therefore meet the highest quality demands. A systems supplier like WALTHER PILOT will make sure your production targets are achieved on a long-term basis – with premium-quality finishing results.

Increasing use is being made of databases to expand the knowledge and understanding of spraying media. Constant testing with all results logged into a lab computer provide our customers with the solutions they need to guarantee quality and reduce waste. Conformity with new environmental legislation and maximum control of VOC emissions is a matter of course. On the basis of continuous research and development, we manufacture highly accurate automatic spray guns that will reduce waste by up to 30% compared to a manual spray gun. This prevents pollution while achieving substantial savings at the same time – and providing you with a vital competitive edge.



Endurance Test

It is not only the spraying equipment that counts. The WALTHER PILOT product range also covers comprehensive plant systems, including material supply equipment and spray booths. As experts in fluid management we are familiar with both the system and the single component. All components are perfectly matched to ensure the excellence of

the whole. Being aware of the fact that a flaw in one component will affect the overall system, we make sure that every new product is based on close cooperation with industrial users. Every product has to undergo stringent testing before it is awarded the final quality seal. Thus, your vital production needs are sure to be satisfied. No matter what your demands are – they count!

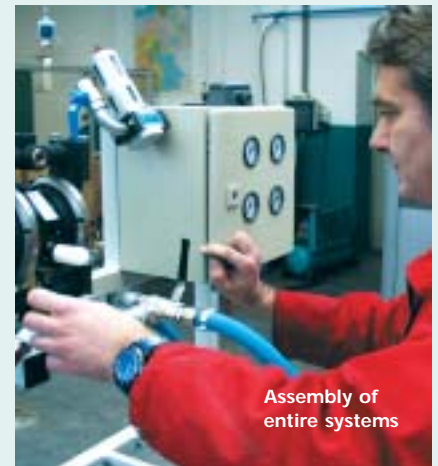
Before you are tempted to compromise, consult us first. An internationally established systems supplier like WALTHER PILOT is able to offer valuable expertise when it comes to quality upgrading combined with cost reductions.

Coating difficulties? "Hard to access" places? WALTHER PILOT is used to meeting challenges instead of bypassing problems. You can profit from a remarkable repertory of niche products developed for specific purposes.

This special know-how is of benefit to all those who have to cope with specific

production challenges. We at WALTHER PILOT prefer to tackle the problem where it hurts most, in an effort to come up with equipment solutions designed to meet your expectations in every respect.

Reliable companies like WALTHER PILOT prefer to invest surplus capital in their own production facilities rather than



Assembly of entire systems

abroad in low-cost production countries. WALTHER PILOT products are precision equipment and are engineered as such, entitling the user to rely on processing accuracy and high quality production standards. Spraying equipment is constantly subjected to endurance testing, involving millions of ON/OFF cycles.

Even the best equipment cannot last for ever. For this reason, we not only offer first-class after-sales service but also the promise that all replacement parts are guaranteed to be available for 10 years.

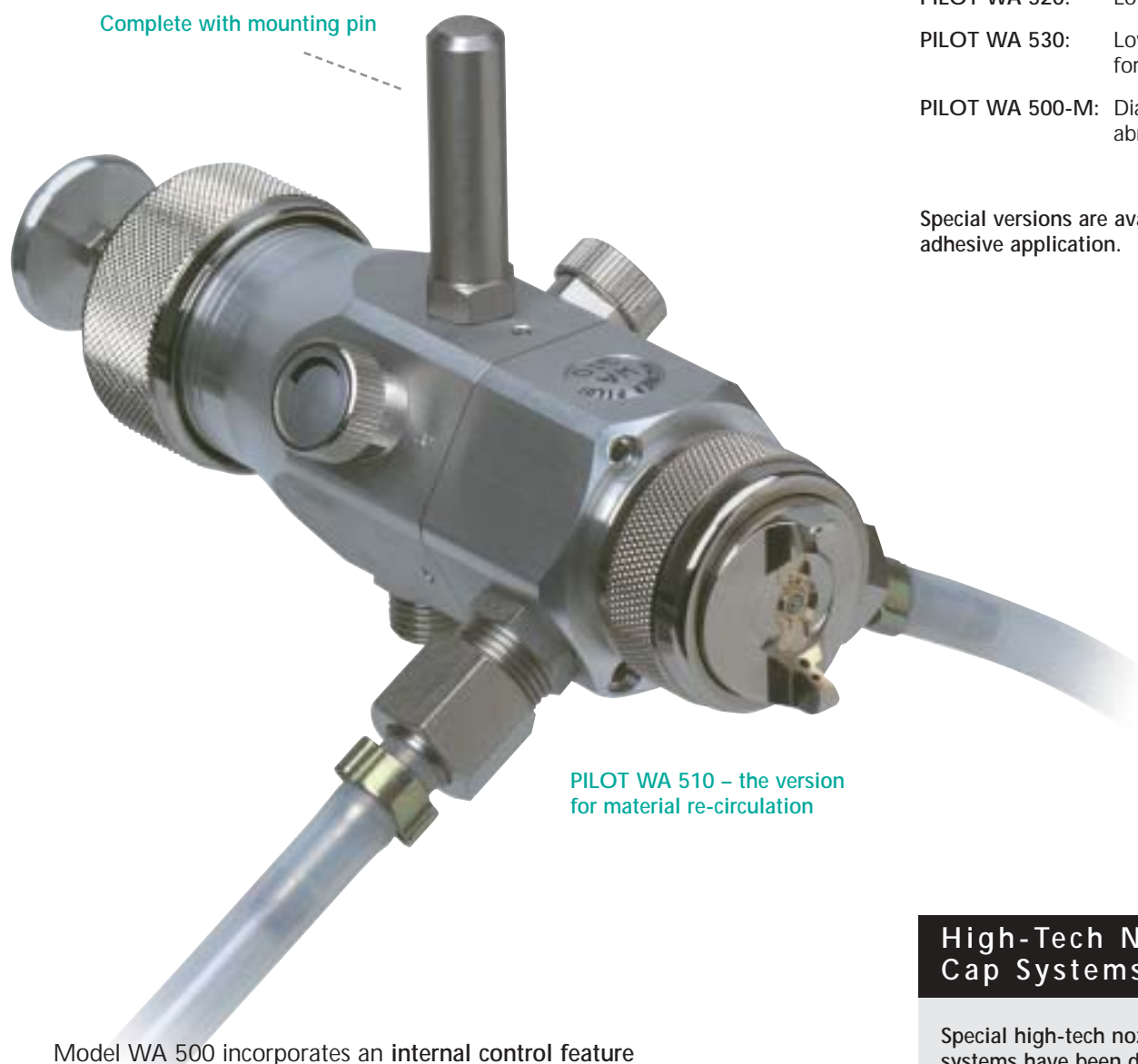
Customer-orientated companies like WALTHER PILOT keep you regularly informed about the very latest developments. Simply send us a fax or an e-mail and we will put you automatically on our Information Service mailing list. Or why not visit our website "www.walther-pilot.de" for the very latest product news and problem solutions.

www.walther-pilot.de

Champions in a class of their own

PILOT WA 500

Fully automatic Spray Gun
for ultra-fine atomisation



PILOT WA 510 – the version
for material re-circulation

Model WA 500 incorporates an **internal control** feature which automatically turns the atomising air on and off in keeping with the material supply.

This gun is highly recommended for operations where the spraying process is frequently interrupted, for example with overhead conveyors or complex workpiece geometries. It is an ideal means of reducing energy costs. If required, the spray jet width can be adjusted by an external controller.

All parts that come into contact with the media are made of stainless steel, allowing water-based paints or aggressive media to be processed without difficulty.

Versions

- PILOT WA 500: Standard version
- PILOT WA 510: Standard version for recirculation systems
- PILOT WA 520: Low-pressure version
- PILOT WA 530: Low-pressure version for recirculation systems
- PILOT WA 500-M: Diaphragm version for abrasive media

Special versions are available for adhesive application.

High-Tech Nozzle/Air Cap Systems

Special high-tech nozzle/air cap systems have been developed for this spray gun.

A comprehensive range of nozzles ensures excellent results with virtually all types and grades of spraying media.

Available Nozzle Sizes

(\varnothing in mm):

0.3 - 0.5 - 0.8
1.0 - 1.2 - 1.4 - 1.5 - 1.8
2.0 - 2.2 - 2.5

Standard Size: 1.5 mm \varnothing



PILOT WA 500-2K

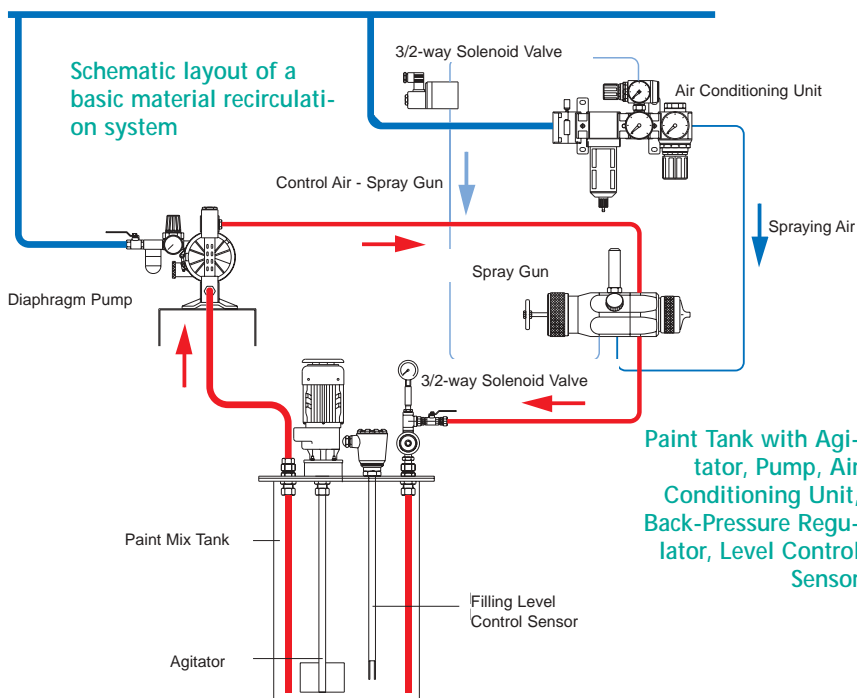
A fine example of the extraordinary versatility of the WA 500 series: the version adapted for applying two-component media.

Material Recirculation Systems

WALTHER PILOT material recirculation equipment and components are designed to handle all sorts of media, even those with a strong tendency to deposit within the system.

Material is pumped from the tank (if need be from the original container) and routed to the spray gun, with a back-pressure regulator redirecting the material back to source.

A level control system ensures that the source tank is topped-up before the system is in danger of running dry. Additional filters may be required depending on the material being processed.



PILOT WA XV

Tried and tested

This popular spray gun incorporating an internal control feature is also available in a wide variety of versions, for example as a low-pressure version.

Available Nozzle Sizes (ø in mm):

0.5 - 0.8 - 1.0 - 1.3 - 1.5 - 1.8 - 2.0 - 2.5 - 3.0 - 3.5

Model PILOT WA XV-D (D = dense-material version) is ideal for processing viscous media.

Available Nozzle Sizes (ø in mm): 6.0 - 7.0 - 8.0



The Compact Range

PILOT WA 400

Concentrated spraying power
for top-quality results



complete with mounting pin

This automatic spray gun operates **without internal control**, i.e. the atomising air is applied continuously. Model WA 400 is ideal for use in continuous operations or where surfaces are to be air-blasted, for example for drying purposes.

Model PILOT WA 400 is ideal for use in robot coating systems.

A programmable logic controller (PLC) allows the spray jet to be adapted to the contours of the workpiece.

All parts in contact with the media are made of stainless steel, allowing water-based paints and aggressive media to be processed without difficulty.

Versions

- PILOT WA 400: Standard version
- PILOT WA 410: Standard version for recirculation systems
- PILOT WA 420: Low-pressure version
- PILOT WA 430: Low-pressure version for recirculation systems

Special versions are available for applying adhesives, also with rotary-jet nozzle inserts.

High-Tech Nozzle/Air Cap Systems

This spray gun incorporates the special nozzle/air cap systems originally developed for the model PILOT WA 500

A comprehensive range of nozzles ensures excellent results with virtually all types and grades of spraying media.

Available Nozzle Sizes (ø in mm):

0.3 - 0.5 - 0.8
1.0 - 1.2 - 1.4 - 1.5 - 1.8
2.0 - 2.2 - 2.5

Standard Size: ø 1.5 mm

Quick Change Guns

Adapter plates allow swift and easy removing of a spray gun for servicing or cleaning. This is particularly important whenever downtimes with loss of production have to be kept to an absolute minimum.

All the bores and ducts required for the spraying air, control air, wide-jet input air and material input are included. Which means that hoses no longer have to be disconnected, and the gun can be removed within the shortest possible time.

Adapter plates are especially useful in robot systems where hose lines are usually routed within the robot arms, making them hard to get at.

Parts that come into contact with the media are made of stainless steel.

In addition to the PILOT WA 400 range, Model WAA 350 (air-assisted airless) is also available as an adapter plate version.



PILOT WA 450

with adapter plate to minimise downtime

PILOT WA 100

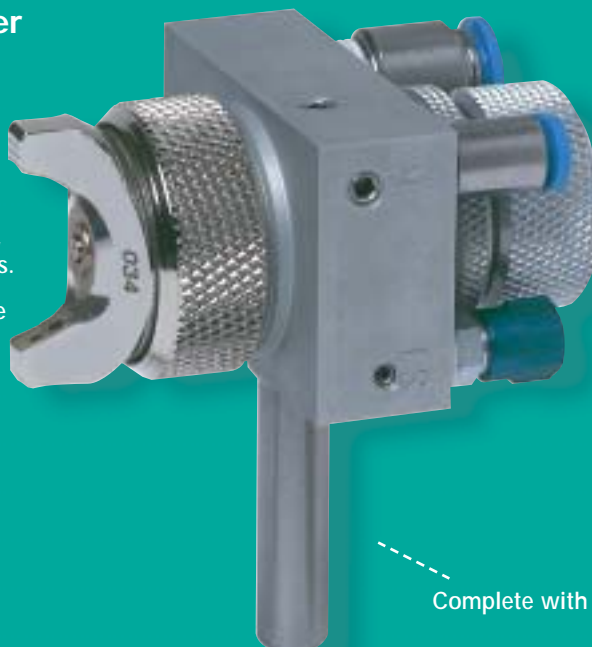
Even smaller, even lighter

This new space-saving model allows solutions that offer considerable processing advantages.

This miniature-sized PILOT WA 100 can be used in the tightest of spaces, making it ideal for those special tasks.

For example, two mini-sized guns are small enough to fit into a can to apply anti-corrosion paint to the two handle lug weld points.

(See page 4, bottom right)



Available Nozzle Sizes
(\varnothing in mm):

0.3 - 0.5 - 0.8

1.0 - 1.2 - 1.4 - 1.5 - 1.8

2.0 - 2.2 - 2.5

Standard Size: \varnothing 1.5 mm

Complete with mounting pin

Marking, Lining, Quality Control



PILOT Signier
fully-automatic,
perfectly engineered -
a real all-rounder

The specialists for precision working

The model ranges PILOT Signier, WA 200 and WA 50 are mainly used for delicate spraying operations, such as non-contact marking and defect marking as part of quality control. High switching speeds are a major requirement here, as the gun takes only a fraction of a second to apply a single dot. For work with moisture-curing or abrasive media, the range includes a marking gun that incorporates a virtually non-wearing diaphragm instead of a conventional needle seal packing

Versions that incorporate a special lubricator behind the needle seal packing are also available.

Both the PILOT "Signier" and the compact version PILOT WA 200 incorporate an internal control feature designed to open and close the atomising air input

Wide-jet air caps are available as an option.

PILOT WA 200

compact, fully-automatic,
with stainless steel front section



PILOT WA 50



Miniature-sized spray gun without internal control. Available as a wide-jet or round-jet version.

Available Nozzle Sizes (ø in mm):

0.3 - 0.5 - 0.8 - 1.0 - 1.2 - 1.5

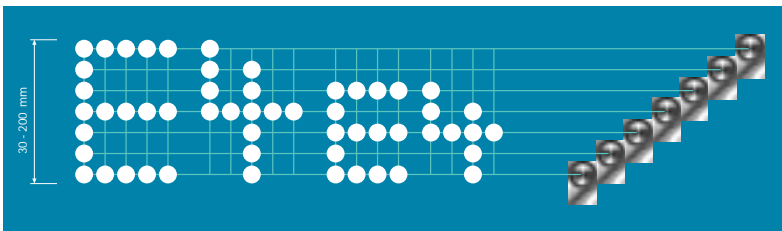
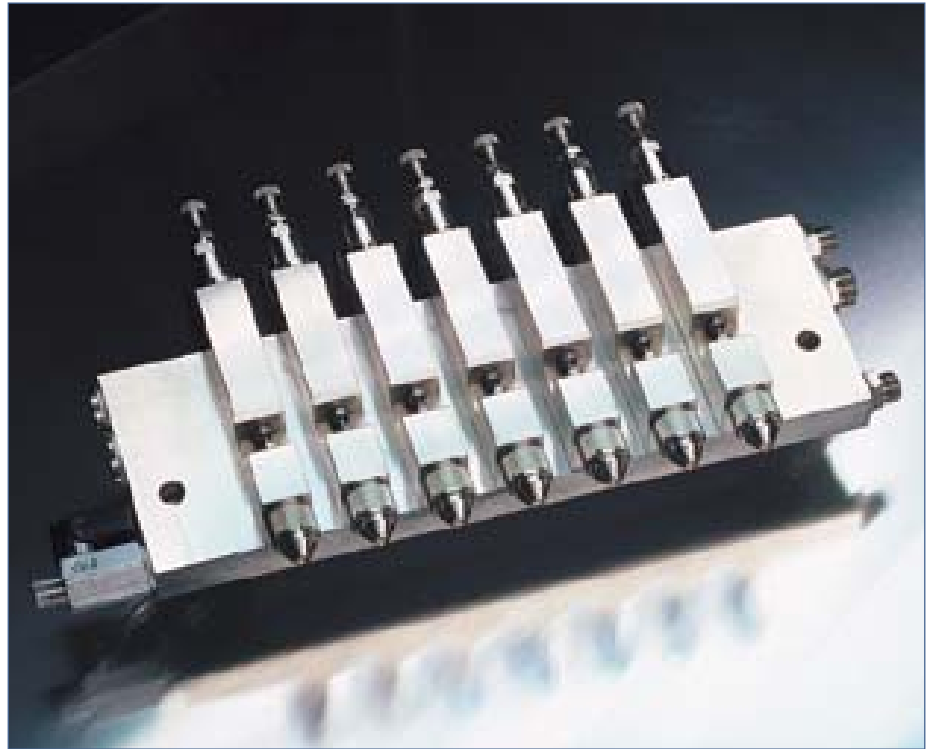
Marking Gun Block Systems

designed for continuous spray-coding of strips, panels, plates, pipes and profiled workpieces, etc., for logistical assignment purposes. Alphanumeric identification codes are applied by between five and seven marking guns mounted on an adapter plate. Each of these guns incorporates an internal control feature designed to open for a mere fraction of a second to apply a single dot.

A control unit synchronises the marking process with the material supply rate.

High material flow rates subject the marking guns to extreme loads.

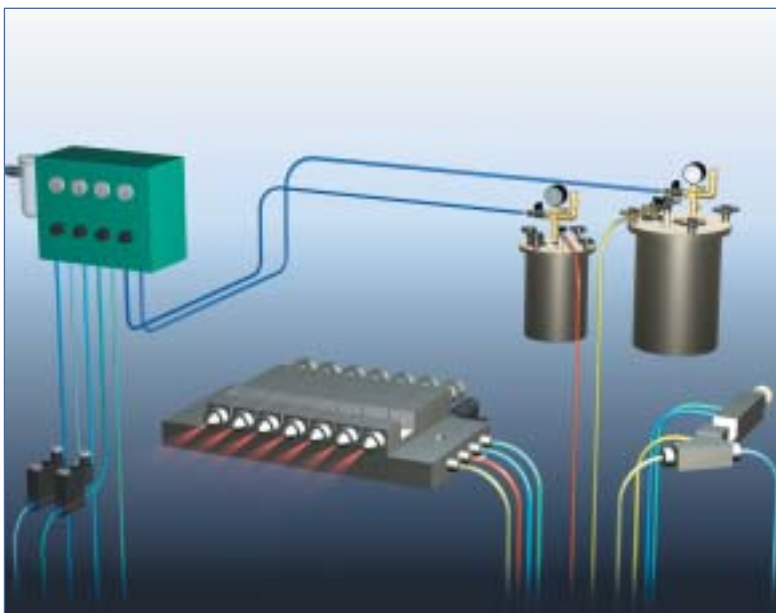
For this reason, WALTHER PILOT can supply nozzles and needles made of carbide metal or with a carbide metal coating to meet specific requirements.



Marking Block Dot Matrix



Marking of Pipes



Schematic layout of a flusher-type marking gun block system

These flusher-type versions are available for operations involving quick-drying paints or prolonged stoppages. Any material residues are immediately removed from the nozzles and air caps on completion of a job.

Working at high pressure



PILOT WA 30

Mini Airless Automatic

The body of the gun is made of high-grade hard-coated aluminium. A specialty steel version for use with water-based and aggressive media is also available.

The material control needle with a carbide ball point, the self-adjusting needle seal and the needle seat are made of specialty steel to ensure a maximum service life with minimum switching times. The maximum operating pressure is 350 bar. The wide range of airless spray tips is designed for excellent coating results with all types and grades of material.

A version of this compact-sized model is also available for re-circulation systems.

PILOT WAA 300

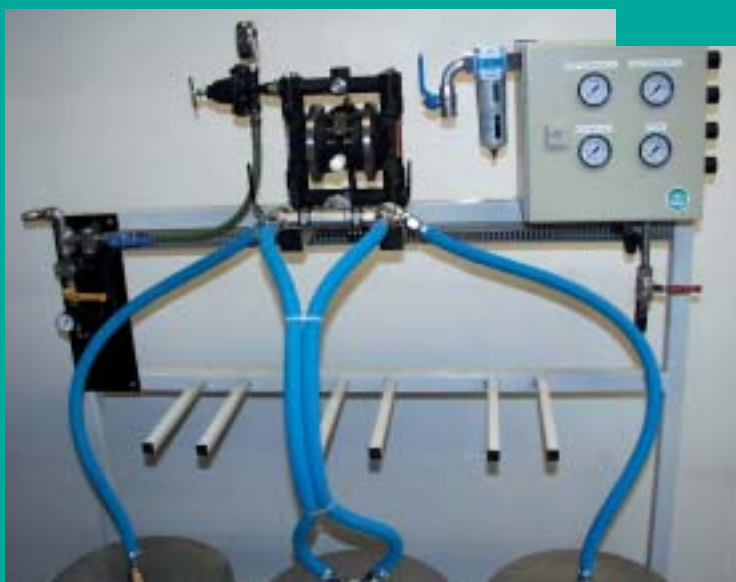
Air-assisted airless spray gun: Often the optimum solution for high-quality coating

Soft-focus spray jet with high surface coverage:
The separate and infinitely variable atomising air input for round-jet and wide-jet spraying operations ensures an optimum adaptation to the properties of the spraying material.

We supply a wide range of nozzle types and sizes for processing all types and grades of material.

The gun body and all parts in contact with the medium are made of stainless steel.

PILOT WAA 300 versions are also available for use in material re-circulation systems and as robot guns with an adapter plate.



Certainly not when you choose WALTHER PILOT.

WALTHER PILOT paint changeover systems are designed to minimise material and flushing media losses, as well as reducing disposal costs and handling time.

Of course, WALTHER PILOT also supply high-tech solutions, such as automatic paint changeover systems for the entire pressure range up to 350 bar.



Ever heard of the " Pipe Crawler" ?

**A typical WALTHER PILOT speciality:
Coating "hard to access" places**



Nozzle Extension Pipes

Developed by WALTHER PILOT for the efficient coating of cavities, pipes, tubes, structural section workpieces, etc. Lengths of up to 3 m are no problem.

A wide variety of spray caps and nozzle sizes are available to help reduce material and operating costs.

These nozzle extension pipes are not standard production items but are strictly made to individual specification.

So why not talk to us about what made-to-measure solutions we can offer your company.

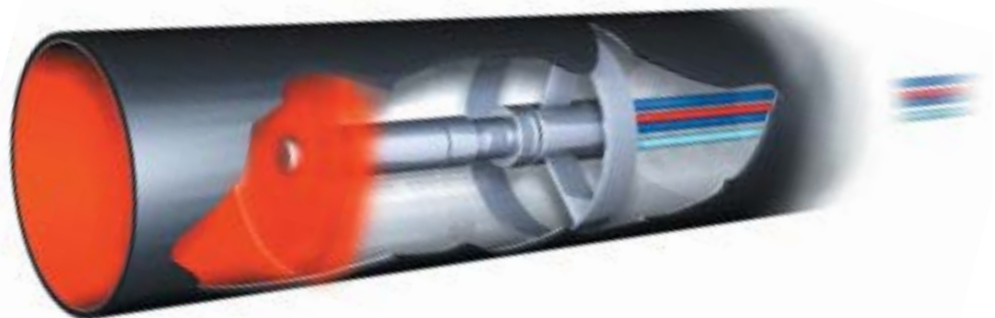
Keep a good job moving

When the nozzle extension pipe fails to produce the desired results, then it's time to use the "Pipe Crawler".

The "Pipe Crawler" is a clever solution for coating "hard to access" inner surfaces. Supported by a collar, it is simply pulled through the pipe – leaving a perfect finish every time.



PILOT WA 80,
the "Pipe Crawler"



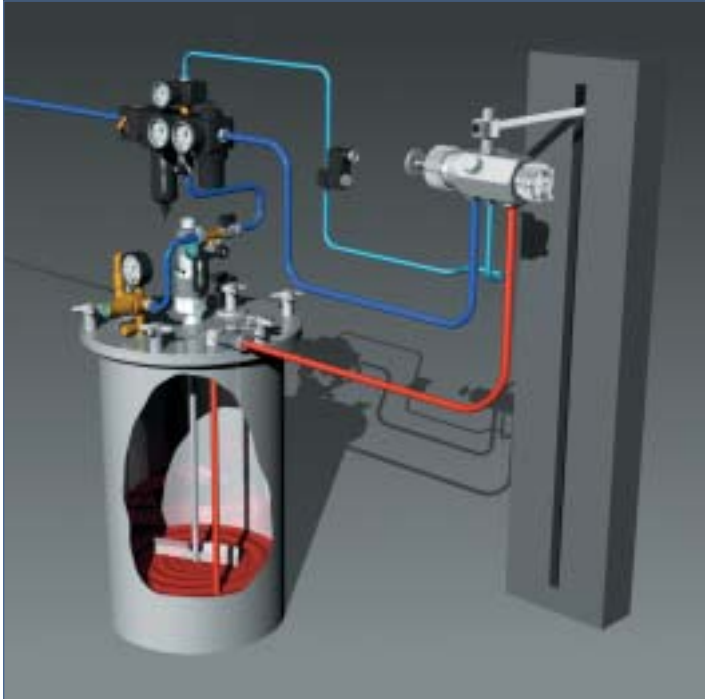
connections

WALTHER PILOT also makes sure, of course, that you have the right space-saving connection and mounting equipment – made-to-measure.

The WALTHER PILOT range of products covers all that's required – from a simple mounting pin to a sophisticated gantry-type marking system.



WALTHER PILOT



Use our know-how and high-tech experience to plan your automatic spraying system -

The WALTHER PILOT range offers all the components you need:

- Hose lines for compressed air and material
- Couplings for compressed air and material hoses
- Compressed air systems
- Solenoid valves
- Material supply systems (pressure tanks / pumps / agitators)
- Material lifting systems

Economy without compromise in quality

WALTHER PILOT - the spray systems supplier

- Manual and automatic spray guns
- Reduced overspray guns
- Air regulators and filters
- Material pressure vessels
- Non-pressurized tanks
- Airless equipment
- Transfer pumps
- Powder coating systems
- Overspray extraction systems
- Combined spraying and drying booths
- Ventilation systems



Die Beschichtungs-Experten



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