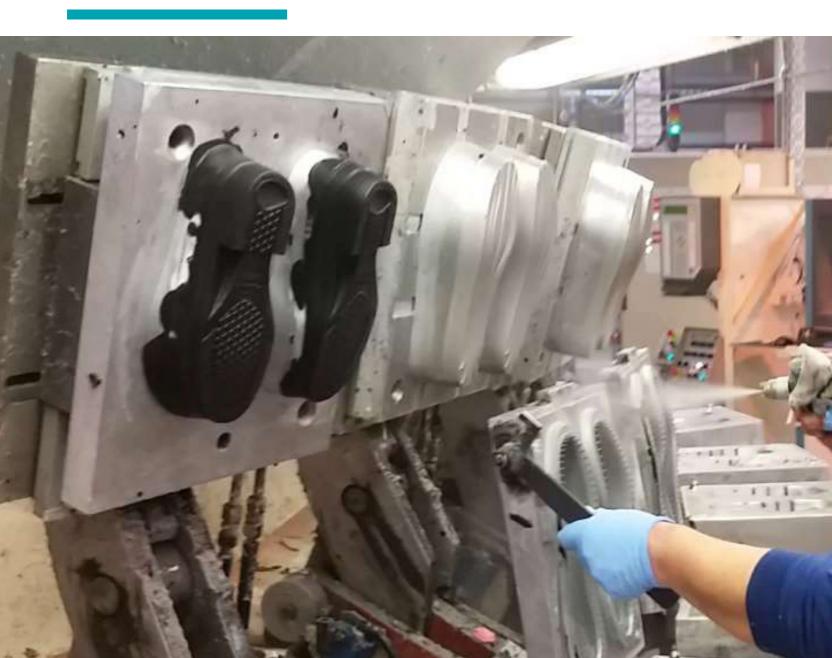


Application information 2024/2025 **Release agents**



Release agents

Release agents are indispensable aids in numerous production processes to prevent materials from sticking to molds, tools and surfaces. They play a crucial role in the manufacture of plastic parts, in metal processing, in the casting of concrete and many other industrial applications.

The choice of the right release agent is crucial for the quality of the end product, the efficiency of the production process and the durability of the tools used. The selection of the right system and application equipment also plays a key role in ensuring that the release agent is applied evenly and precisely to achieve optimum results.

Types

Generally, the spraying processes can be divided into airspray (air atomizing), airless and aircoat / airmix (airless with air support).

Release agents that are applied using airspray or aircoat, with or without electrostatics, can be solvent-based or water-based. The choice between these to variants depends on the specific requirements of the production process, environmental regulations and safety requirements.

Solvent-based release agents offer fast drying and uniform layer formation, while water-based ones are more environmentally friendly and safer. The combination of the right release agent and application method has a decisive influence on efficiency, material utilization and environmental compatibility in the production process, and we at Walther can provide you with expert advice for your individual application.





Water-based



Solvent-based



Water-based & solvent-based with electrostatics



GA 1020 / 1030



excellent atomization

WA 100 compact automatic spray gun



universal spray gun



Pilot Mini lightweight and handy spray gun

Water and solvent-based release agents can be optimally processed with an electrostatic applicator - 0.15mm nozzle bore. Isolated material supply systems are necessary for processing water-based release agents. This helps you to achieve an ideal edge structure and surface wetting even in complex geometric parts.



Release agents are of crucial importance in numerous industries. Choosing the right application system is essential for an economical application. Below you will find examples of industries and applications in which our systems are ideal for use.



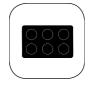
Wood industry e.g. cut protecion, production of: Chipboard & MDF boards



Metal industry z.B. coating



Plastics industry e.g. foam, PU, rigid & flexible foams, automotive suppliers



Food industry e.g. molds for confectionery



Upholstery industry e.g. foam bonding, textile lamination, leather lamination



Shoe industry e.g. shoe soles



GM 5000EA Airspray applications with low-conductivity release agents. With built-in highvoltage cascade.



GM 5000EAC Aircoat applications with low-conductivity release agents. With built-in highvoltage cascade.

Our wide range of pressure tanks in combination with precision regulators have proven themselves as a material feed system for conventional and electrostatics application with reproducible results $\leq 10q/min$.



Material pressure tanks

By using pressure tanks, you achieve a pulsation-free and unhindered material flow during application.



For release agents, we recommend a low-pressure spray gun (HVLP) or HVLP+ with a nozzle bore of 0.3mm to 1.1mm to reduce overspray and produce a fine, thin film of release agent.



GA 9010 precise application



Nozzle extensions for reaching places that are difficult to access



WA 110 highly compact automatic spray gun



Pilot Twin compact spray gun for low-viscosity materials

Electrostatics





GA 5000EA Airspray applications, internal or external control of the forming/atomizing air.

GA 5000EAC Aircoat applications, internal or external control of the forming/atomizing air.

Material conveying



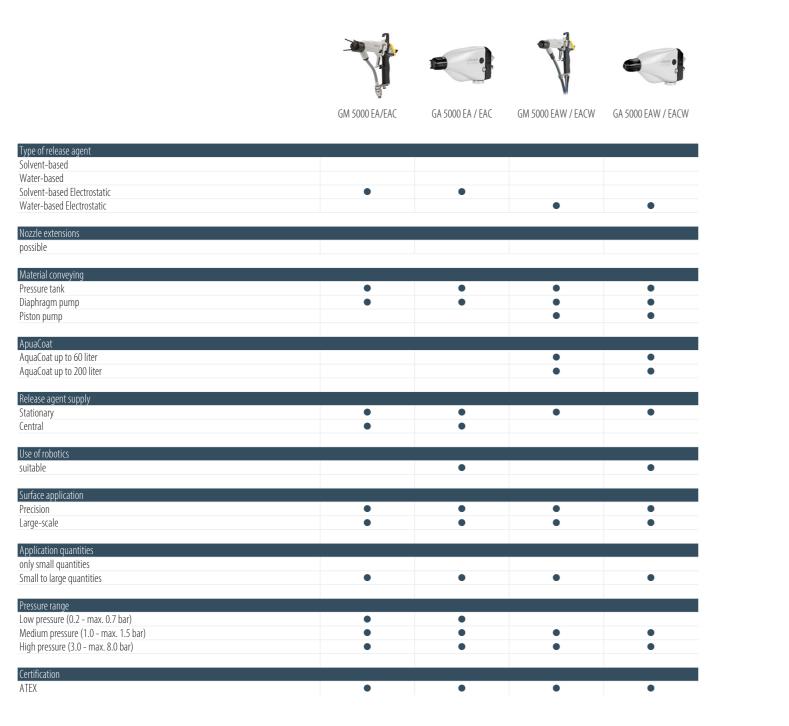
AguaCoat

Material conveying system for the electrostatic processing of release agents. Completely insulated design



Component selection for release agent processing

Application equipment and components for release agents are crucial for precise and efficient application in industrial processes. They ensure that the release agent is applied evenly to the desired surfaces in order to achieve optimum production results.







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 \bullet = possible

 $(\bullet) =$ limited possible

PILOT

4



WA 100



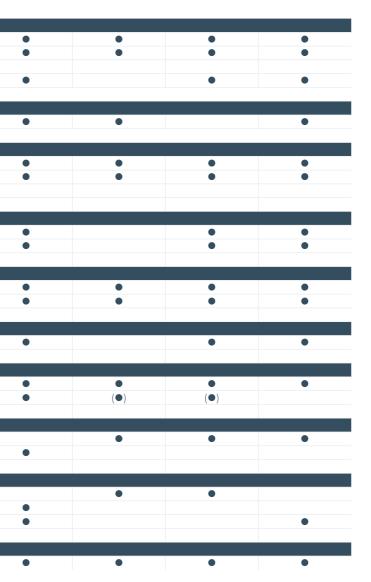




Pilot Twin

WA 110

GA 9010





Standard material pressure tanks

With pressure tanks, you achieve a pulsation-free and unhindered material flow during application. For example, you can also process shear-sensitive dispersion adhesives without any problems.

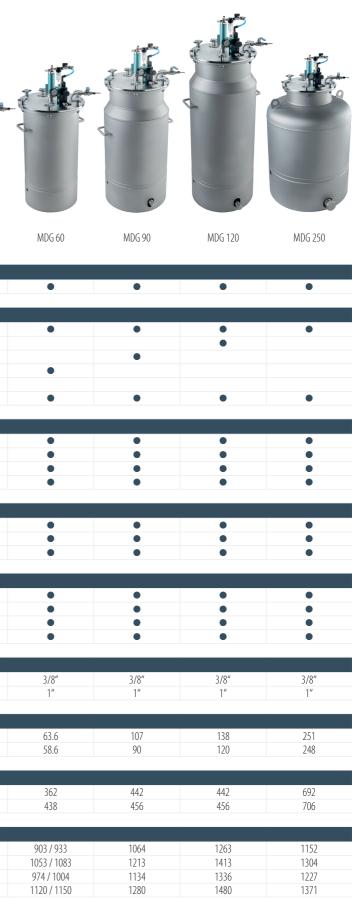
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		t 1 93		U				
	LDG 5	LDG 10	LDG 20	MDG 1	MDG 2	MDG 3	MDG 4	MDG 8
xecution tainless steel	•	•	•	•	•	•	•	•
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acuum ^{*1} 5 bar				٠	٠	٠	٠	٠
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ectric gear agitator		٠	•					•
utlet optional								
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lower outlet	•	•	•	•	•	٠	•	•
legulator								
- 2nd regulator ^{*2}	•	•	•	•	•	•	•	•
- 2nd regulator ² - 2nd and 3rd regulator ^{*2}	•	•	•	•	•	•	•	•
recision regulator ^{*3}								
laterial outlet			2.10%					0.40%
pp ottom	1/4" 1/2"	1/4" 1/2"	3/8" 1"	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"	1/4" 3/8"	3/8" 3/8"
olume [l]								
lling quantity seful capacity	4.9 3.5	11.4 9	18 15	1.96 1.1	2.45 1.8	3.2 2.5	4.1 3.1	8.2 6.4
	5.5	,	15		1.0	2.5	5.1	0.1
iameter [mm] ner diameter	183	232	269	125	125	125	162,5	213
uter diameter (max.)	243	291	344	173	173	173	222	290
otal height (top / bo	ottom outlet) [I	mm]						
/ithout agitator	381 / 414 538 / 568	445 / 481 592 / 624	524 / 604 681 / 757	334	394	454	410 / 430 562 / 582	424 / 455 577 / 608
/ith manual agitator /ith pneumatic agitator	388 / 416	592 / 624	604 / 680	- 338	- 398	458	413 / 433	5/7/608
		659 / 591	748 / 824					644 / 675

*1 Optional in combination with overpressure

*2 Control range: 0.5 - 8.0 bar - limited to operating pressure

*3 Control range: 0.1 - 4.0 bar

Ch and					
	MDG 12	MDG 22	MDG 24	MDG 45	MDG 60
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	14	22.3	25.8	48	63.6
	11.8	19.5	23.5	40 42.8	58.6
	244	270	244	362	362
	320	356	320	438	438
	536 / 586	620 / 694	787 / 837	751/781	903 / 933
	686 / 736	769 / 843	936 / 986	901/931	1053 / 1083
	608 / 658 752 / 802	692 / 766 835 / 910	858 / 908 1004 / 1054	824 / 854 963 / 998	974 / 1004 1120 / 1150





Customized tanks

Range of services and solutions at a glance.

Customized solutions for individual requirements

With our commitment to the highest level of customer satisfaction, we also offer a comprehensive range of customized solutions in the field of tank construction in addition to our standard material pressure tanks. These special solutions are designed to meet specific requirements and needs to ensure optimum performance in your applications.







Wide range of customization options

Our customized tanks offer a high number of customization options to enable perfect integration into production processes and production lines. This can include, e.g. the size, capacity and shape of the tank. In this way, space requirements can be optimized and efficiency increased.

Consideration of special requirements

From the resistance of aggressive materials to extreme temperatures and pressures - we take on every special requirement and develop solutions to meet them. The choice of materials, including special coatings, plays a decisive role here.







Integrated technologies

The tanks can be equipped with a variety of technologies, including measurement and control technology for monitoring parameters such as pressure, temperature and fill level. This enables precise control of the process and ensures consistent quality.

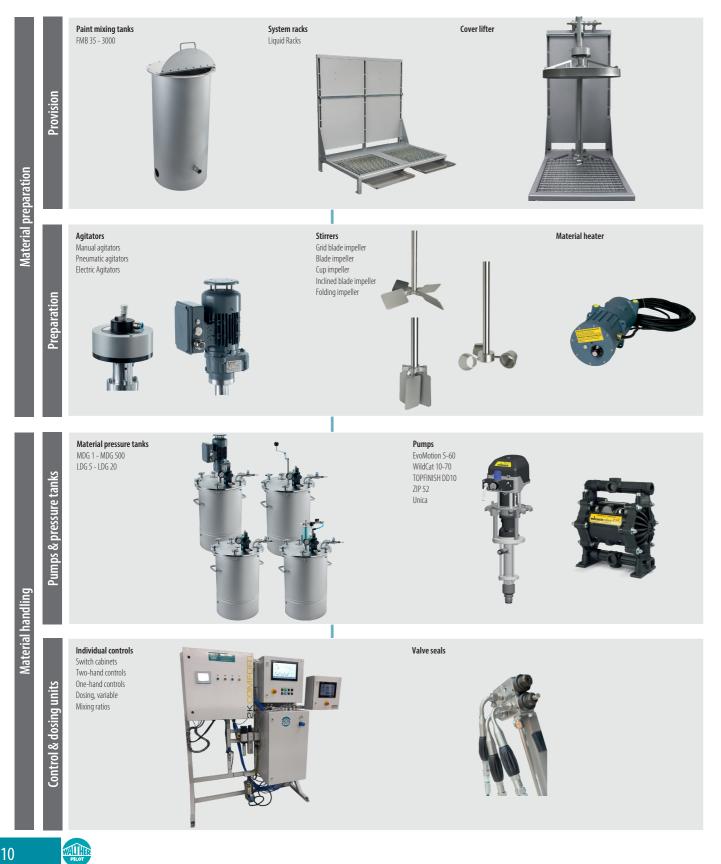
Flexibility and reliability

With mounting options such as wall brackets, pedestals or mobile chassis, we offer maximum flexibility. Our tanks are designed for durability and reliability to meet even the most demanding requirements.



Customized Liquid Solutions

From material preparation, conveying and application to extraction technology, we offer customized system solutions for a smooth material supply in your production process. Our aim is to optimally match the individual components to your application, be it for liquid, highly viscous, explosive or shear-sensitive media such as paints, varnishes, adhesives, release agents, oils, foodstuffs and other coatings. With our many years of experience and unique manufacturing expertise, we are able to optimize individual components and assemblies to meet your specific requirements and thus improve the entire workflow.











Contact









Walther Spritz- und Lackiersysteme GmbH Kärntner Straße 18-30 42327 Wuppertal Germany +49 202 787 0 info@walther-pilot.de www.walther-pilot.de

J. Wagner GmbH Otto-Lilienthal-Straße 18 88677 Markdorf Germany +49 7544 505 0 info@wagner-group.com www.wagner-group.com

Reinhardt-Technik GmbH Waldheimer Straße 3 5866 Kierspe Germany +49 2359 666 0 info@reinhardt-technik.de www.reinhardt-technik.de

Wagner International AG Industriestrasse 22 9450 Altstätten Switzerland +41 71 7572211 wagner_ch@wagner-group.com Wagner S.p.A Via Santa Veccia, 109 23868 Valmadrera (LC) Italy +39 0341 210100 wagner_it_va_@wagner-group.com

Wagner Spraytech S.L. C. Marqués de San Esteban No. 2 33206 Gijón Spain +34 985 909 381 iberica@wagner-group.com

J. Wagner Ges.m.b.H. Wohllebengasse 3-5 1040 Wien Austria +43 1 50335000 info@wagner-group.com

Wagner Industrial Solutions Scandinavia AB Skolgatan 61 568 31 Skillingaryd Sweden +46 370 79830 info.se@wagner-industri.com Wagner Spray Tech Corporation 1770 Fernbrook Lane North Plymouth, Minnesota 55447 USA +1 763 5537 000 custserv@wagnerspraytech.com www.waqnersystemsinc.com

Wagner Spraytech (Shanghai) Co., Ltd. 1st Floor, No. 58, 3rd Jiangchang Road Jing 'an District Shanghai 200436 China +86 2166521858 wagnersh@wagner-spraytech.com.cn

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