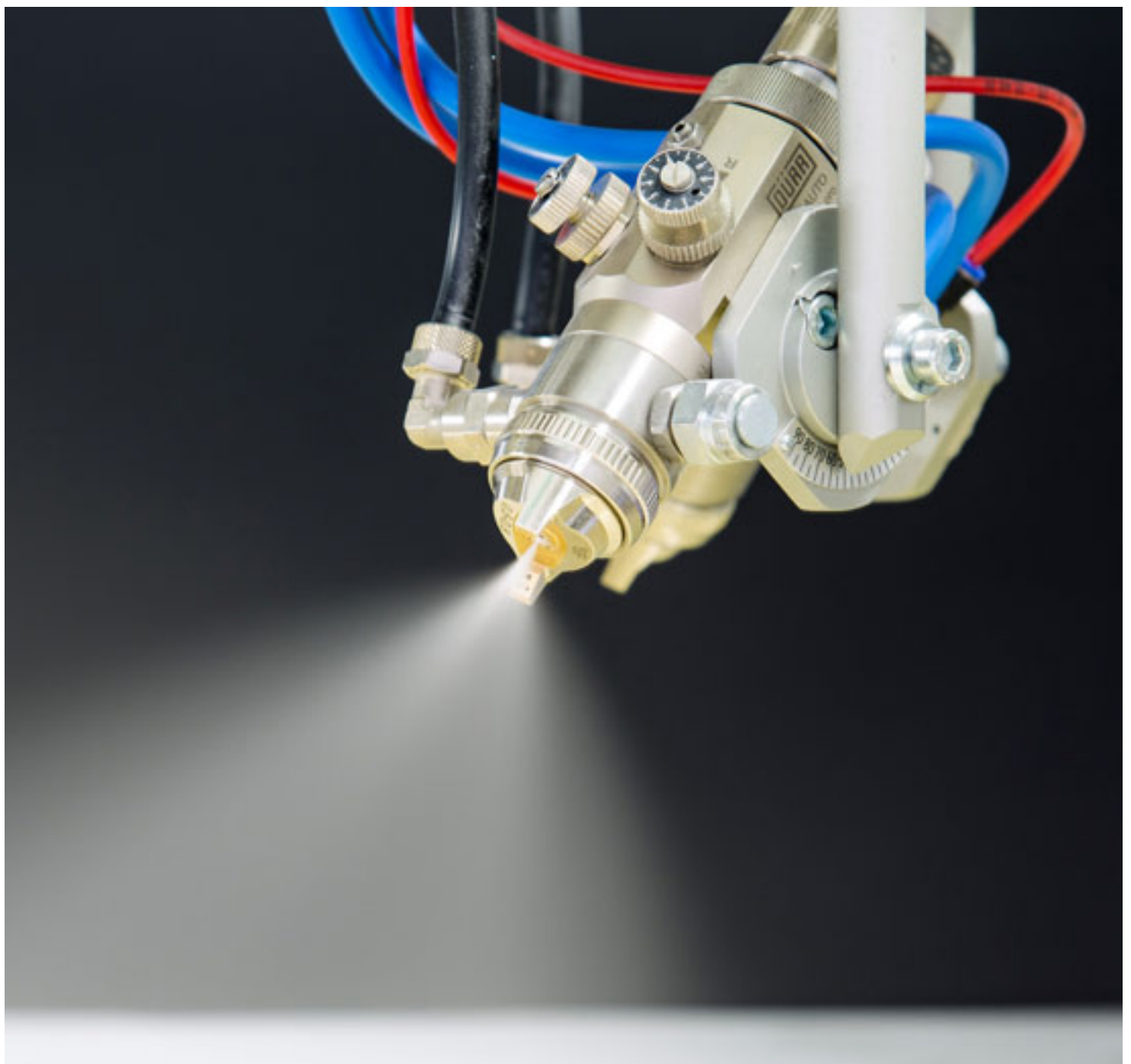


Spray machines
Type GSF 100







From manual spray coating to automated finishing equipment. We provide: **YOUR SOLUTION**

Trends change, often within short periods of time. However, the demand of many end customers for high-quality furniture surfaces remains.

As a manufacturer, the best way to meet your customers' demand for first-class furniture and well-made interior fittings is with spray coated surfaces. Painted workpieces set themselves apart with their excellent properties. Surfaces and edges can be completely coated in one path without joints. They offer resistant surfaces as well as an impressive look and feel.

Whether you manufacture furniture, kitchen or office furniture, interior fittings, stair components... With the new GSF 100 series of spray machines, HOMAG offers you the appropriate and reliable solution for your high-quality surfaces.

Find out more here: www.homag.com

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Only requires **14** square meters of installation area

Can also produce batch size

1 efficiently

2.400 parts can be finished per shift



The GSF 100 P

The GSF 100 P is the spray machine for automated finishing of furniture parts, doors, stair components, and interior fittings with water-based and solvent-based coatings. It can be used as both a stand-alone spray machine or as part of an extensive finishing line. Equipped with a single oscillating arm, four spray guns and a workpiece transport with a vacuum conveyor belt covered with disposable paper, the

GSF 100 P represents performance, flexibility, and reliability. Limited investment and operating costs combined with the achievable production volume mean that the machine is ideally suited to small and medium-sized companies looking for an effective solution for a high-quality spray application process.



Space-saving:

- Compact machine, exhaust air unit and switch cabinet integrated in the machine frame

Efficient:

- Precision parts detection enables exact control of spray guns and therefore optimum paint saving
- Large exhaust volume and an optimal air supply ensure a high paint transfer rate

Reliable:

- Monitoring of paper tension, paper breakage and paper winding

User-friendly and easily accessible:

- Optimal view of the interior due to glazing on all sides
- Easy machine access to all filters for service and cleaning



Single oscillating arm for four spray guns.



Large filters are easily accessible and replaceable for cleaning and maintenance.



Vacuum conveyor belt covered with disposable paper. This eliminates the need for a costly belt cleaning system and cleaning the machine between jobs.



Transport: Workpieces are moved via a vacuum conveyor belt. The disposable paper is for covering purposes only. This means that very thin paper with more running meters on a single roller can be used to reduce the maintenance effort. The paper tensioning is monitored by a sensor with an additional control for paper breakage and paper winding.

Fluid circuit with quick change couplings:

Quick change couplings make it possible to switch between fluid circuits in next to no time. The GSF 100 P is equipped with two separate high-pressure fluid circuits as standard.



GSF 100 P — Highlights as standard

The GSF 100 P represents performance, flexibility and reliability. To fulfill these promises, we have equipped the spray machine with innovative technical functions that

underline the solution-orientated approach of this machine concept.



Small machine dimensions: Since the filters, air extraction system, and switch cabinet are fully integrated into the machine frame, this machine has a very small footprint and provides operators with a complete overview.



Precision parts detection: Workpiece contours are accurately detected by a high resolution light grid. This means that the spray guns can be precisely controlled and enables a 12-15% paint saving compared to systems with straightforward light barriers.



Gun mounting plates with quick-release lock: An ergonomic and flexible solution for quickly changing the spray guns. The pre-prepared gun mounting plates eliminate the need for time-consuming assemblies and adjustments.

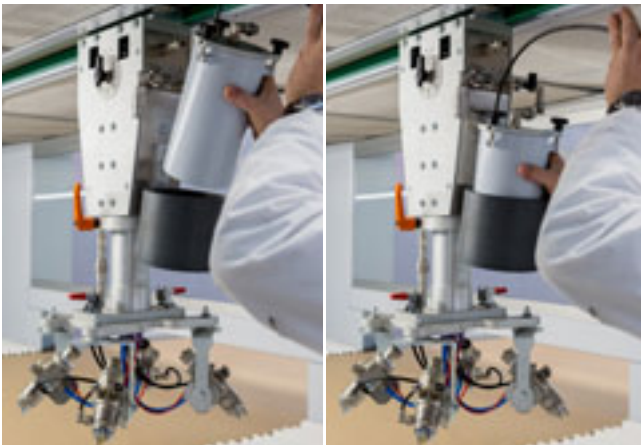


Reduction of overspray: An optimal air supply in combination with a large suction volume ensure an even paint application, a high transfer rate, and low contamination inside the machine.

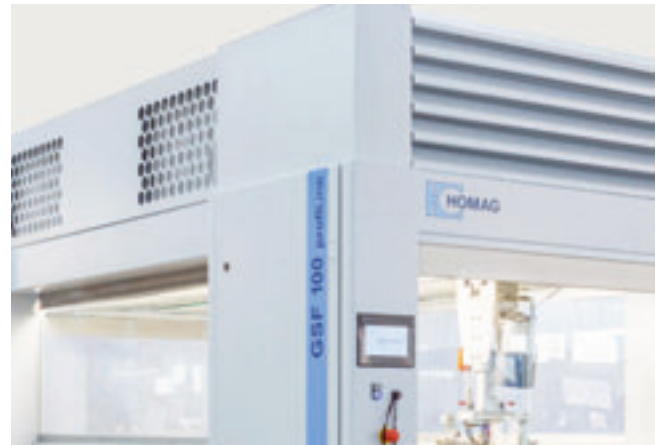
Functions with benefits...

Whether you manufacture furniture, interior fittings, stair components or doors, the GSF 100 P can be used as a stand-alone spray machine or as part of an extensive finishing line in your production process. Ideally suited to

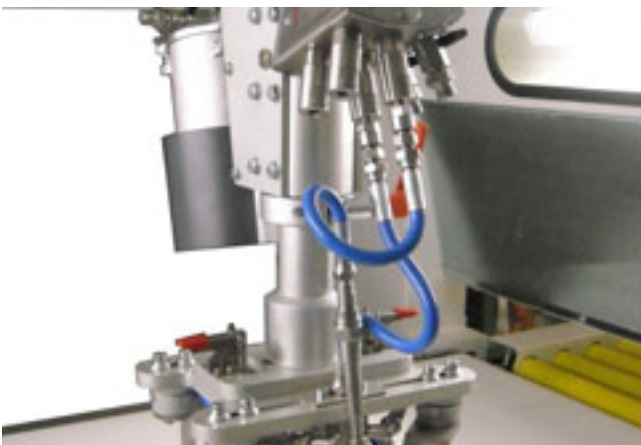
small and medium-sized companies, our spray machine is perfectly tailored to customer requirements thanks to its functions and options.



Small volume fluid container system: A perfect addition for spraying small batches with different colors. The 2-liter fluid container is fitted to the spray arm itself and supplies the spray guns directly.



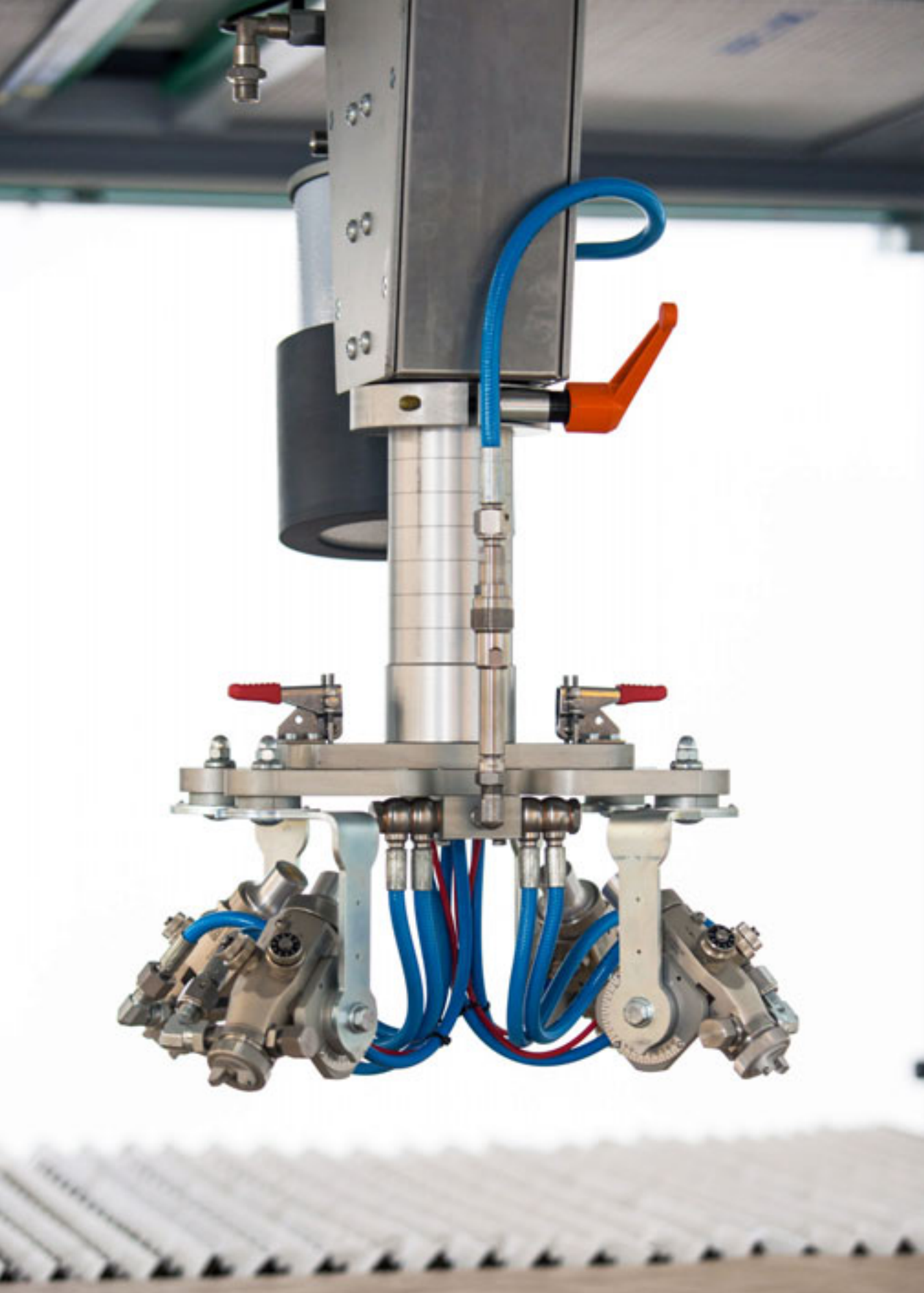
Booth pressurization: The additional unit on the spray machine optimizes air distribution and airflow within the spray booth, while its additional filters ensure clean air in the spray zone.



Additional fluid circuits: To make changing between colors simple, the machine can be equipped with up to four fluid circuits.



Manual color change valve: For fast color changes, this option allows you to easily switch between a cleaning circuit and up to three fluid circuits without having to replug the hoses.



7

Up to 7 trays with workpieces per rack trolley can be automatically loaded and unloaded

1

person operation

600

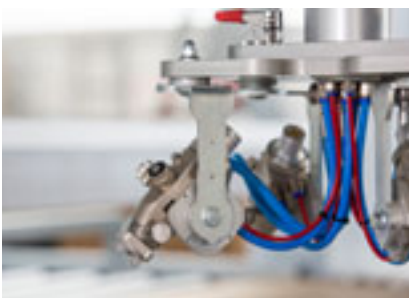
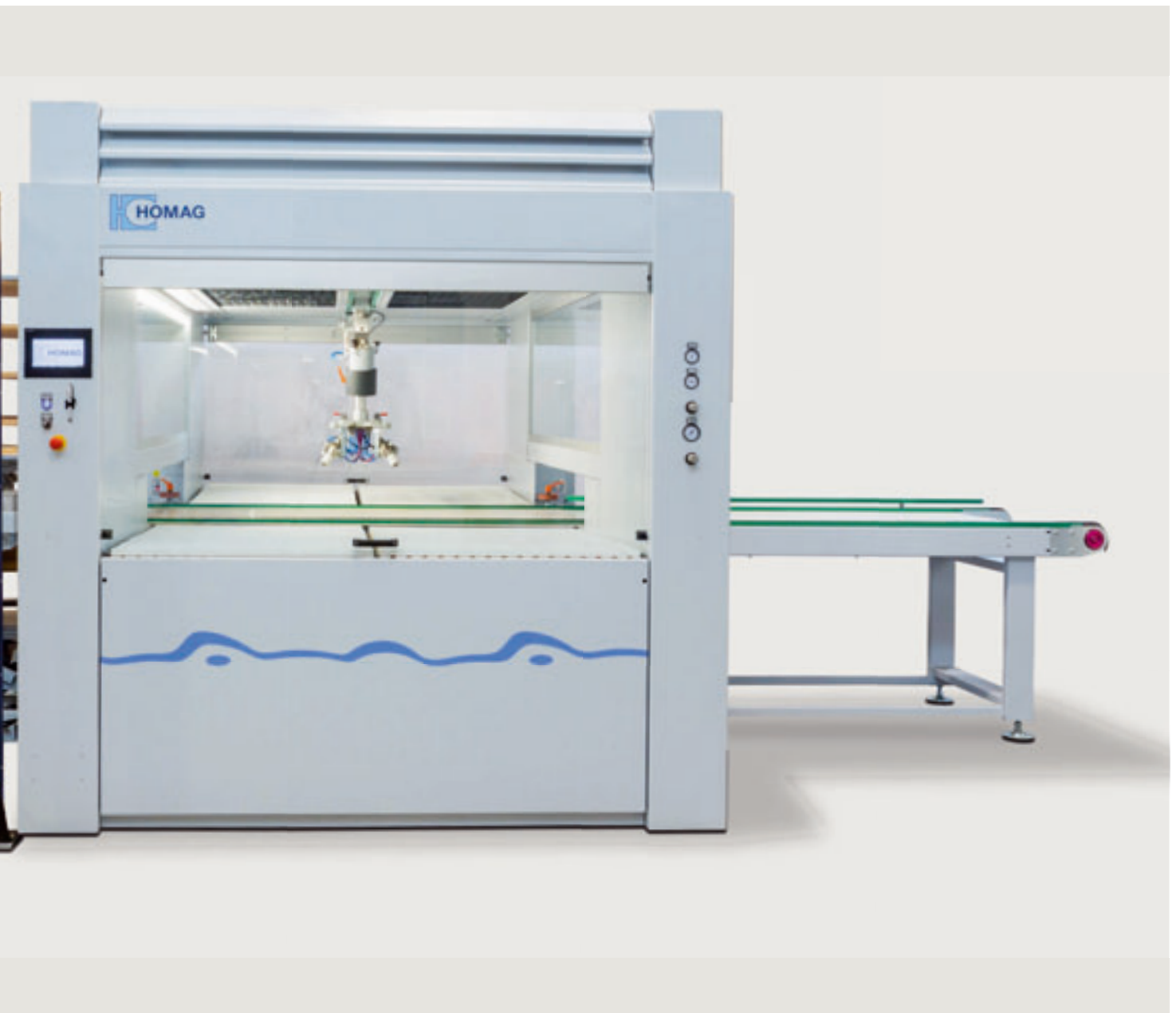
parts can be finished per shift



GSF 100 SH spray machine

The GSF 100 SH is an efficient spray machine with an innovative loading and unloading concept for automated finishing of furniture parts, doors, stair components, and interior fittings with water-based and solvent-based coatings.

The compact machine design combined with the automated workpiece handling makes this system ideal for small and medium-sized companies. It enables easy, flexible and reliable finishing with low personnel and space requirements.



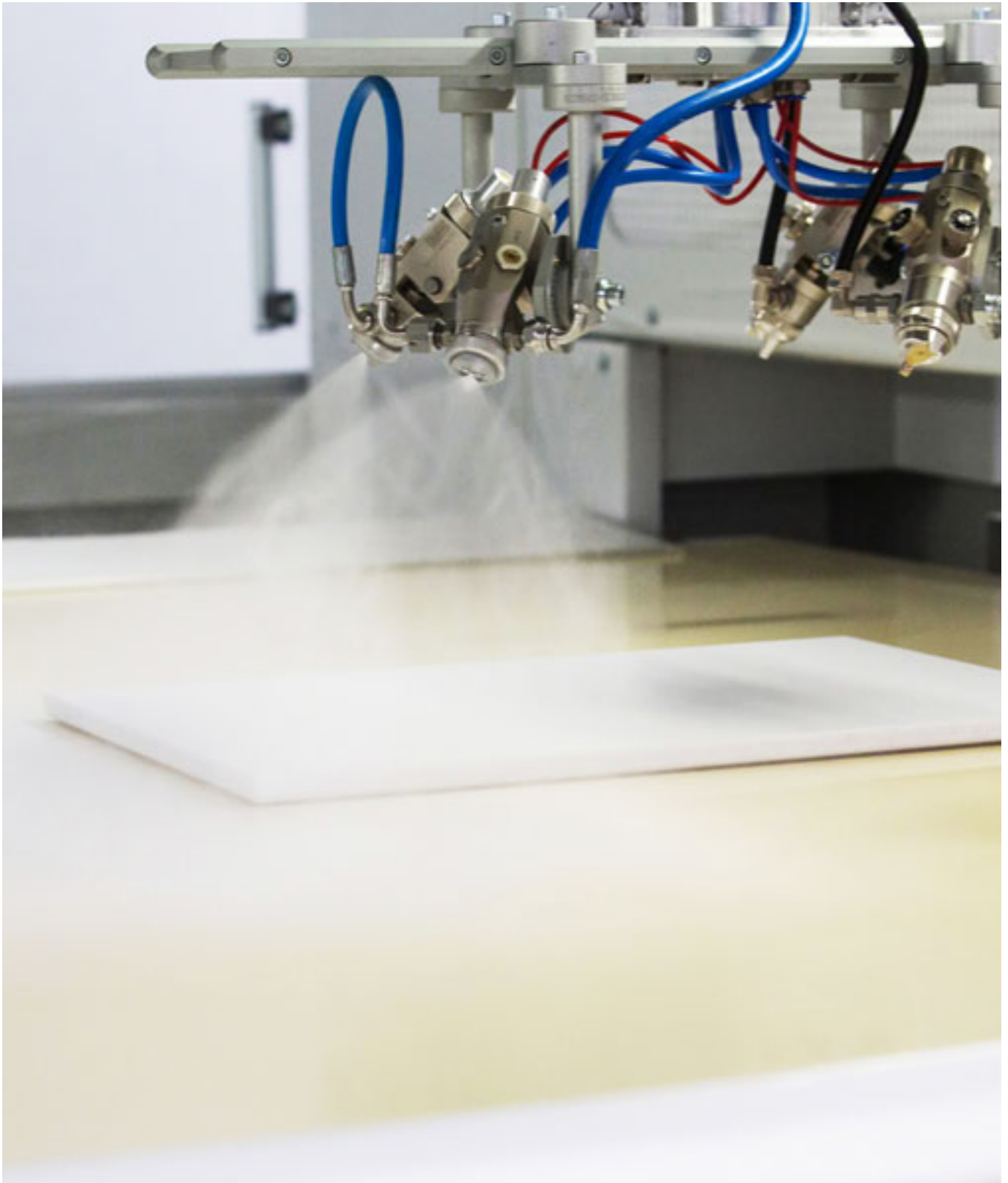
Spray guns are pre-assembled onto a gun mounting plate. Precise adjustment aids facilitate adjustments and reduce the time needed for setup work.



The transport of the workpiece trays takes place using a belt conveyor. The intelligent control system allows the conveyor to be operated in both directions. This means that the machine can be operated from both sides as well as just one side.



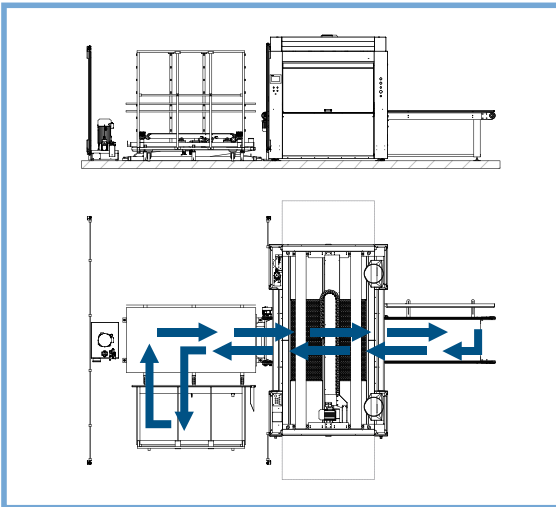
With the two-way function of the rack trolley loading as an option, the production volume can be further increased.



Loading concepts for the GSF 100 SH

An outstanding feature of the GSF 100 SH is the innovative combination of a spray machine with automated workpiece

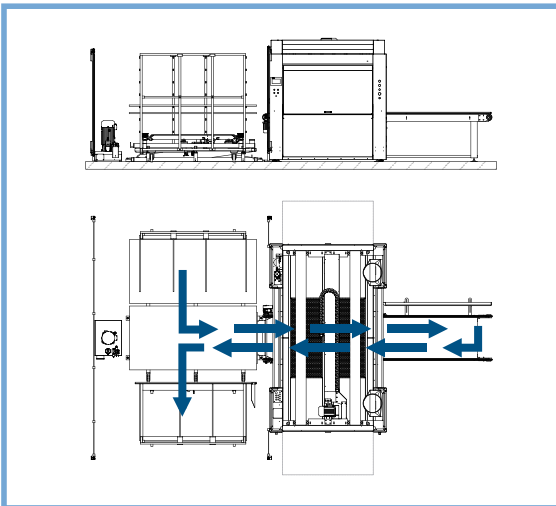
handling. We offer a variety of loading concepts for different requirements and production volumes.



GSF 100 SH

The basic concept of the GSF 100 SH includes a feeding system located at the infeed for loading and unloading the workpiece trays. Trays with the workpieces to be coated are automatically removed from a rack trolley located on the operating side. Once the spraying is completed, the trays are automatically deposited back into the rack trolley.

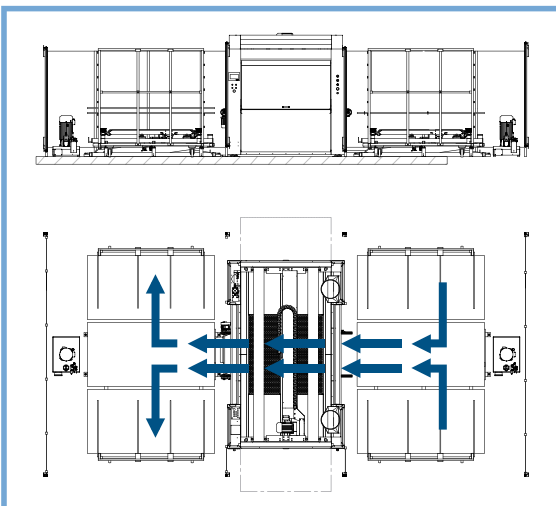
- Extremely low space requirement
- One person operation
- High machine utilization



GSF 100 SH

The two-way function of the rack trolley loading is available as an option. This allows rack trolleys located on the left as well as the right side to be loaded and unloaded.

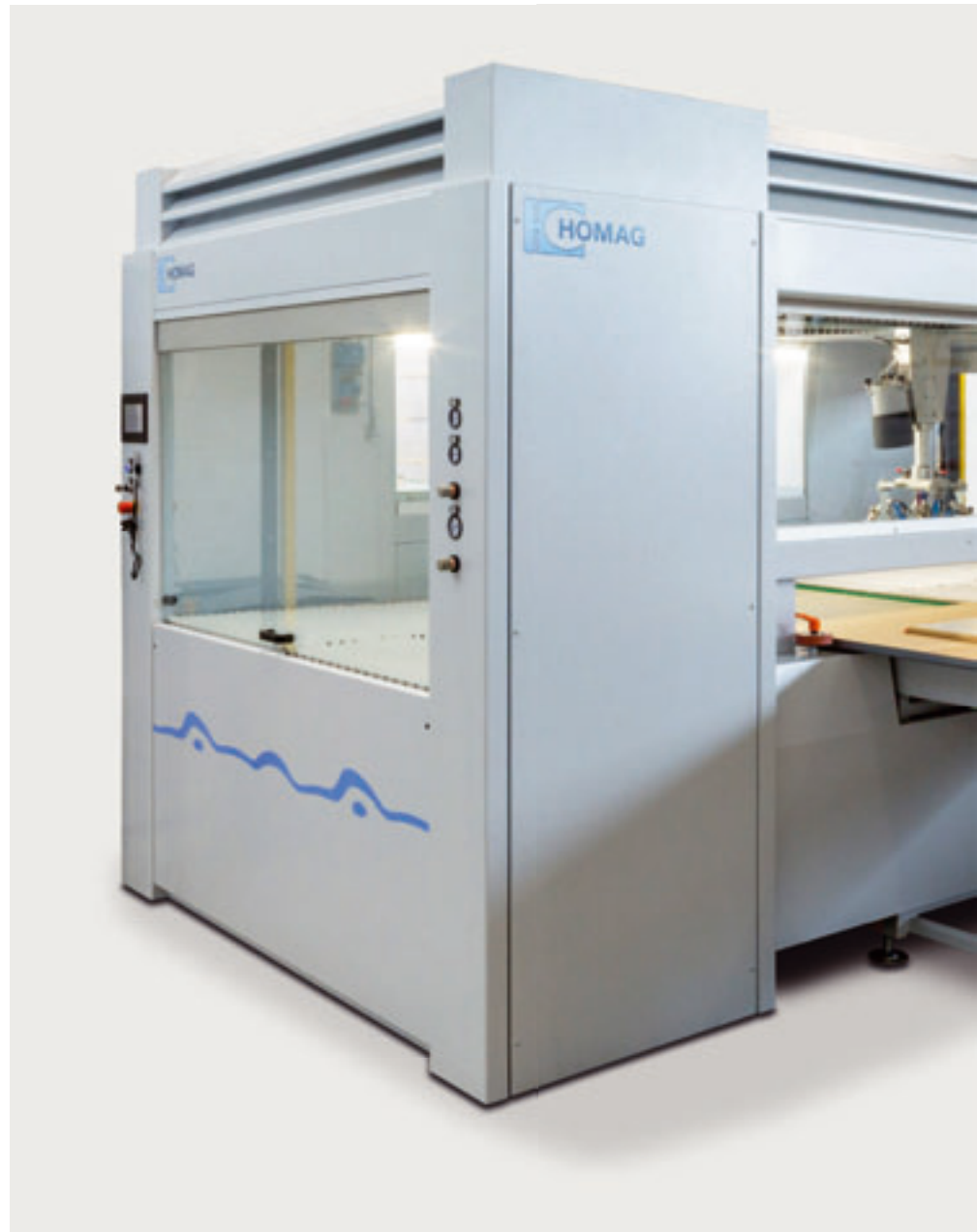
- Double the amount of workpieces in the machine
- Longer autonomous operation
- Uninterrupted operating cycle, since rack trolleys can be changed at the end of a batch during operation
- One person operation



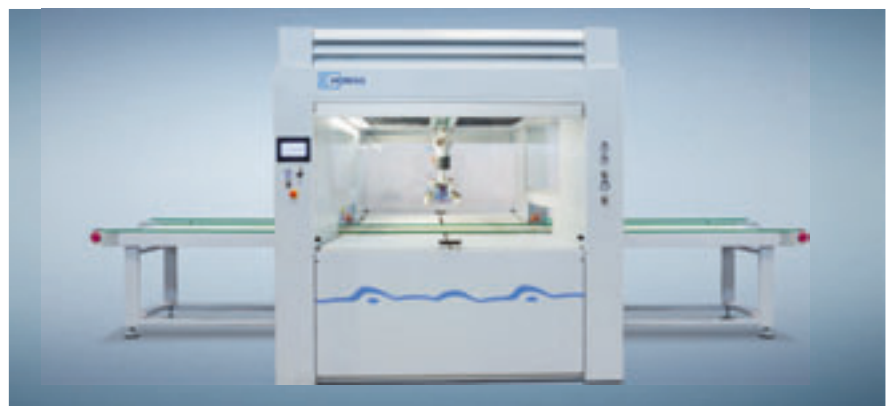
GSF 100 SH / D

The largest production volume is achieved with loading and unloading located at the infeed and outfeed combined with the two-way function of the rack trolley loading.

- Absolute autonomous operation
- Usage is equivalent to a throughfeed unit
- Uninterrupted operating cycle, since the transport carriages can be changed at the end of a batch during operation
- One person operation



Extensive equipment options allow the machine to be configured to individual requirements.



Workpiece trays make it possible to finish even very small parts (100 x 100 mm). The trays can be fed in both directions. This allows workpieces to be deposited and removed at the same working position.



Reasons for automated spraying

- Continuously high quality and a reduced rate of rejects
- Larger production volume
- Process reliability thanks to repetitive accuracy
- Savings in terms of personnel deployment and paint usage
- Reduced workload for employees, creates better conditions in terms of health
- Protects the environment and conserves resources

GSF 100 S — the alternative to manual spray coating

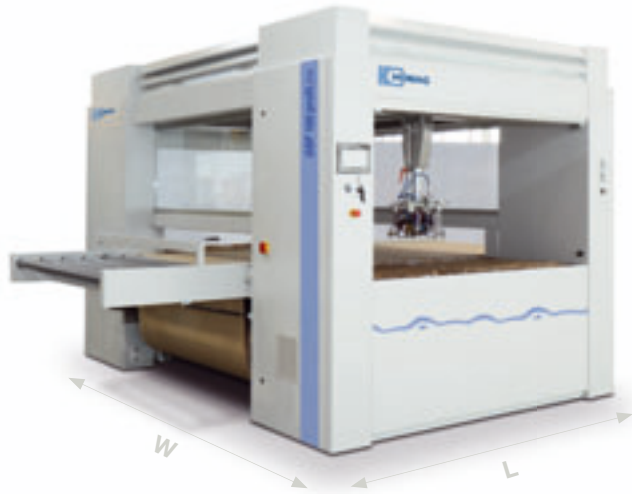
Do you currently spray your furniture parts, doors, stair components or interior fittings exclusively in a manual spray booth? Are you looking for an option to lower your reject rate and reduce the cost of the finishing process? Then the GSF 100 S is the right alternative. The machine concept, which is specifically geared towards low investment and

operating costs, offers small and medium-sized companies the solution for transitioning from a manual to an automated spray application process. The GSF 100 S is equipped with a single oscillating arm, four spray guns, and a workpiece transport on which the workpieces are fed through the machine on trays.

GSF 100 series technical data

For many years, the GSF 100 series has been used on a global scale by an ever-increasing number of furniture, door, stair components, and interior fittings manufacturers. First-hand experiences of users were just as consistently addressed during the development of this machine as the needs and requirements of future users. These factors combine to make the GSF 100 possibly one of the most reliable, flexible, and highest quality spraying machines on the market.

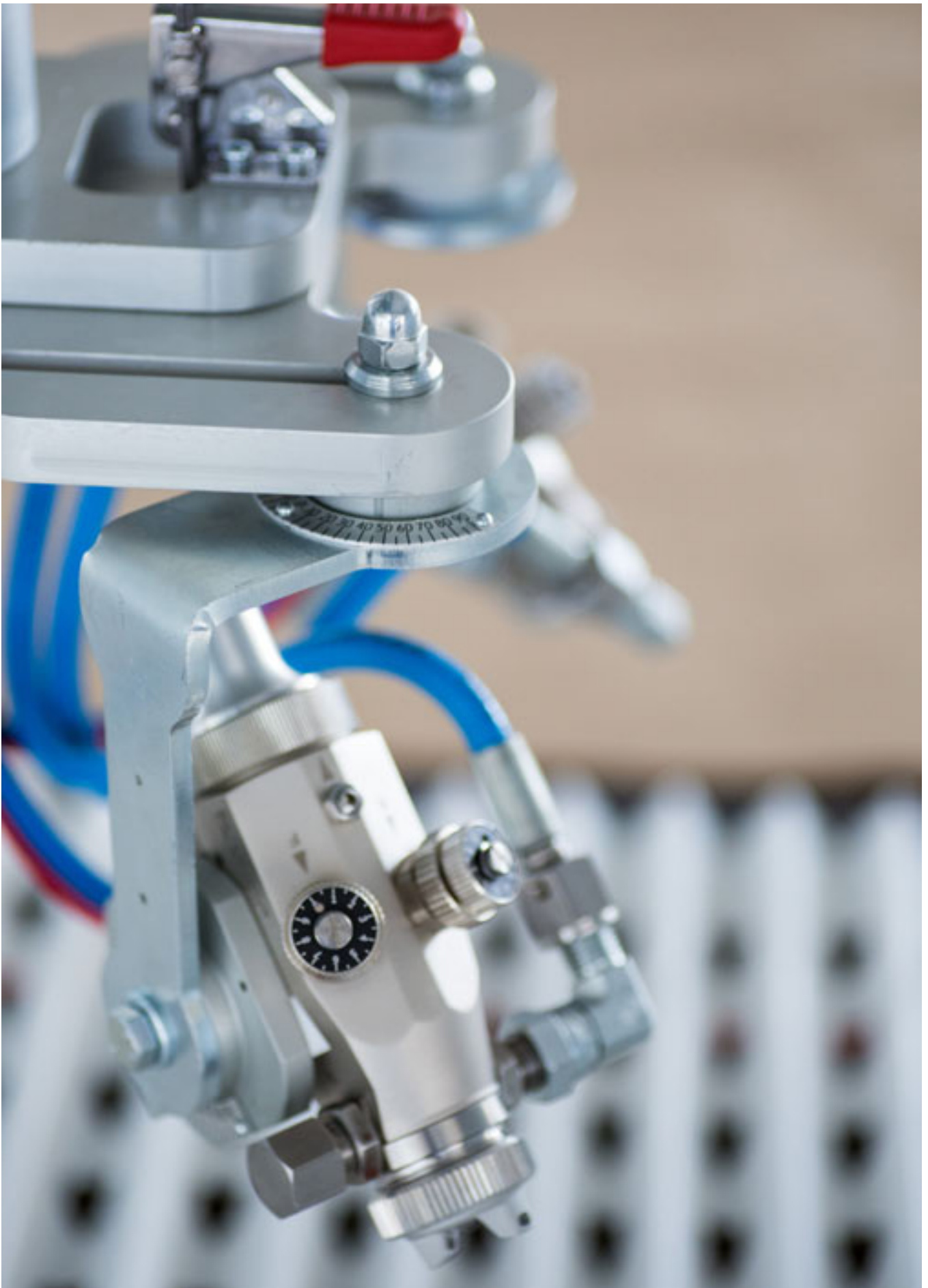
HOMAG trusts for its new product range in Makor, a globally recognized brand. Since 1968 their core competence is the delivery of customer-specific production equipment for the coating of mouldings, windows, furniture parts, doors, stairs and interior fittings. Makor develops and manufactures all necessary components for finishing requirements, from pretreatment through spray machines and drying equipment.

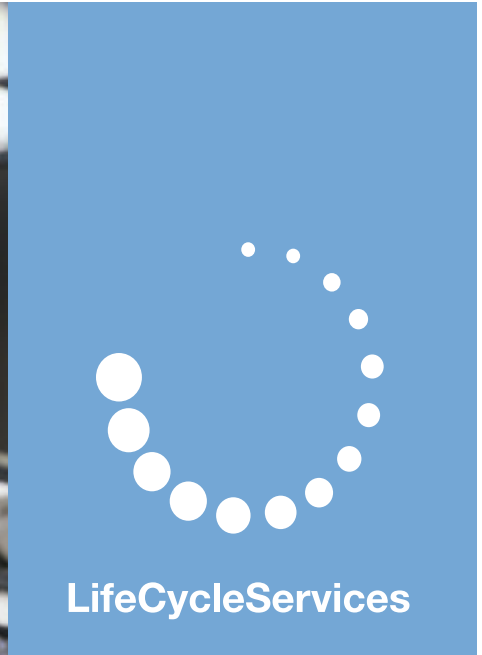


makor[®]

TECHNICAL DATA

GSF SERIES				
	GSF 100 P	GSF 100 SH	GSF 100 SH D	GSF 100 S
Production volume	2.400 parts	600 parts	1.200 parts	450 parts
One-man operation	NO	YES	YES	NO
Small parts > 260 mm	NO	YES	YES	YES
Length x width (mm)	3.850 x 3.660	7.500 x 5.200	8.850 x 5.200	6.200 x 5.200
System can be expanded	Yes	Conditional	No	Conditional





HOMAG LifeCycleServices

The sale of our machines comes with all-in optimum service backup and individual advice. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast customer

solutions we guarantee consistently high availability and economical production – over the entire life cycle of your machine.



Remote Service

- Hotline support via remote diagnosis regarding control, mechanics and process technology. Thus the on-site service can be reduced by 85.2 %!
- Mobile applications such as ServiceBoard reduce the costs through fast help in case of troubles by mobile live video diagnosis, online service message and the online spare parts shop eParts



Spare Part Service

- Identify, request and order spare parts around the clock via www.eParts.de
- Local availability of parts offered by our sales and service companies as well as sales and service partners all over the world
- Reduction of downtimes through defined spare parts and wear parts kits



Modernization

- Keep your machinery up-to-date and increase your productivity as well as your product quality. This is how you can meet tomorrow's requirements today!
- We support you with upgrades, modernization as well as individual consultancy and developments



HOMAG Finance
 – precisely the right financing

- We offer you tailored financing proposals for your machinery or plants. Our financial advice goes hand in hand with our expertise relating to technical questions. Your personal contact person will take care of the whole process.
- The benefit for you: The ability to invest without delay in new technologies and remain financially flexible.

1.200
 Service employees around the world

650
 processed spare parts orders / day

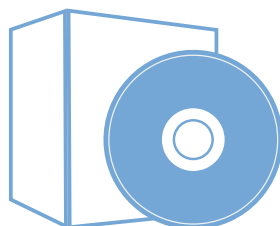
85,2%
 less on-site-services through successful remote diagnosis

>150.000
 machines, all electronically documented in 28 different languages – in eParts



Trainings

- The trainings perfectly suit to your requirements. Through this your machine operators can operate and maintain the HOMAG Group machines optimally.
- The trainings also include customer-specific training documents with practice-proven exercises



Software

- Telephone support and consultancy through software support
- Digitalization of your spare parts via 3D scanning saves time and money compared to new programming
- Subsequent networking of your machinery with intelligent software solutions ranging from construction to production



Field Service

- Increased machine availability and product quality by certified service staff
- Regular checks through maintenance / inspection guarantee the highest quality of your products
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles

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