

Custom-built Machinery for Printing, Coating and Converting

GERMANY - CHINA - USA

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\longrightarrow OUR PROMISE

expectations and special requests. service partner.

Sincerely,

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Thomas Schmid Managing Director

Manufacturing companies require future-proof system concepts tailored to individual requirements. With our extensive know-how and high flexibility, we create special machines which meet all quality

A main component of our company philosophy is the close, trusting and cooperative relationship with our customers. Together we develop and build powerful machines, which will enable your company to safely meet future demands. Furthermore, we are always at your side as your

→ QUALITY, CUSTOMER FOCUS AND SOLUTION ORIENTATION

Rotodecor is one of the leading manufacturers of gravure printing presses, lacquering machines, special-purpose machines, impregnating machines, (un)winders, converters, as well as die cutters and delivery systems. Our special-purpose machines for the decorative printing and packaging industry

are developed, built and assembled at our sites in East Westphalia, Germany and Shanghai, China. Professional, close to the customer, solution-driven – that's why customers all over the world trust in our machines and services.



An extraordinary team

Our team consists of experts with long-standing experience in specialist mechanical engineering. This know-how is directly reflected in the quality of our performance. It is our top priority to guarantee quality in all dimensions.



Working hand in hand with our clients

Systems that are tailored to the respective application ensure a competitive advantage. So in addition to "off the shelf" systems and components, we provide specifically tailor-made solutions, which we develop in direct cooperation with our clients.



Technological innovation put simple

It is crucial to continue to develop all technologies and to stay clearly focused on the applicability and practicability for our customers. We create uncomplicated solutions which are state of the art.



PROJECTS ALL AROUND THE WORLD

Machines from Rotodecor are used all around the world. Clients from across the globe trust in our products and services. Machines and systems are developed at the site in East Westphalia, Germany before they are shipped and personally handed over as turn-key solutions to our clients directly on their factory properties.

To guarantee a smooth and impeccable handover, all process steps are coordinated and carried out by our own well-trained staff. This begins with packaging, continues with the creation of shipping documents and hand-over to our logistics partner

FACTS

Company: ROTODECOR GmbH Maschinen- und Anlagenbau Foundation: 2003 Headquarter: Lage Subsidiaries:

Shanghai and Atlanta Employees: > 60 Ownership structure: 100% family owned Management: Thomas Schmid Sector: Printing, coating, converting and related industries Custom projects in:

Germany, Poland, Russia, Austria, Italy, Turkey, China, Malaysia, Brazil, Saudi Arabia, USA etc. HISTORY

2003 Foundation as subsidiary of Sc AG with specialist team of mechanica

2004 Delivery and go-live of the first p **2005** Delivery and go-live of the first lacquering machine

2005 – 2009 Strong focus on decor printing and lacquering systems

2010 Takeover of 70% of company s by the Schmid family

and ends with the goods reaching their destination. The experts at Rotodecor are also responsible for assembly at the requested business premises as well as final commissioning and hand-over to the client. Naturally, we are also available for maintenance and repair work at any time, anywhere in the world.

In addition to our headquarters in Germany, we have a subsidiary in China as well as a service location in the USA and we can rely on a worldwide partner network. This means our clients can be sure that all our employees have several years of experience in the relevant countries as well as up-to-date visas.

chattdecor cal engineers	2011 Large-scale contracts in the field of liquid and beverage outer packaging
printing press	2012 Complete takeover of shares by the Schmid family
rative	2013 Addition of impregnating systems to the portfolio
shares	2014 Foundation of the subsidiary in Shanghai and the service location in Atlanta

GRAVURE PRINTING PRESSES

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Fast & energy efficient - optimum setup times and quality

printing presses that are mainly used in decorative and packaging printing. They can handle both waterbased as well as volatile solvent-based colours. All machines are built with state-of-the-art drive tech-

Some of our core products are ready-to-use gravure nology, can print extremely quickly and guarantee an efficient drying process as well as a minimum number of rejects. Customised gravure printing presses from Rotodecor can machine materials with a width of up to three metres.









KEY FACTS

Printable material	able materialPapers and foils (gramma- ture: 20 - 450 g/m²)	Programming interface	Simatic S7 CPU
		Draw cylinder	Draw cylinder with
Minimum print width	500 mm		ceramic coating
Maximum print width	ca. 3,000 mm	Interfaces	Production data transfer to PDA (Process Data Acqui- sition) possible (e.g. SAP)
Inner diameter of core sleeves	3" - 12"		
Printing cylinder diameter	600 – 1,800 mm	Driving technology	Sinamics, Simotion
	Im printing speed 600 m/min	Steering	Flawless Simatic S7 and
Maximum printing speed			other common products

3-colour printing press for decorative printing

HMIs are located where they are needed

Modern and energy-efficient drying systems







KEY FACTS

Number of lacquering units	1, 2 or 3 – fixed or flexible
Printable material	Papers and foils (gramma- ture: 20 – 450 g/m²)
Minimum paper width	500 mm
Maximum paper width	3,000 mm
Inner diameter of the paper sleeves	3" - 12"

\longrightarrow LACQUERING MACHINES

Inline & offline - new drying technologies and variable coating techniques

Our lacquering machines are mainly used in the decorative printing process, but can also be modified for usage in different areas. Thanks to our newly developed lacquering concept even more compact and energy-efficient systems can be realised. All our systems have a modular design and are individually assembled according to customer

requirements. They can machine materials that are up to three metres wide, with a lacquering speed of 500 m/min.

Similar to our gravure printing presses, the latest drive technology and an efficient jet drying system ensure maximum quality and energy efficiency in our lacquering process.





Lacquering machine with two units and double-layer coating



Galvanized machine bases for ideal rust protection

Dual station lacquering machine for double layer coating

Maximum lacquering speed	500 m/min
Dosing volume	3 – 25 g/m²
Degree of gloss	7 to > 80 gloss degree units
Lacquers	Water-based or solvent- based lacquers
Programming interface	Simatic S7 CPU









KEY FACTS

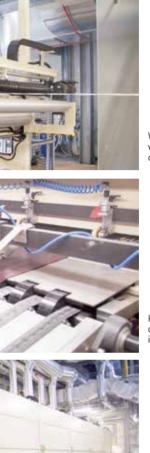
Maximum paper width	up to 3,000 mm
Weight	ca. 20 – 200 g/m²
Speed	up to > 100 m/min, depending on specific project

IMPREGNATING MACHINES

From cost effective to high-end – reliability guaranteed

tially used to impregnate decorative paper, to produce pre-pregs, to impregnate abrasion resistant overlay and backpull paper for flooring as well as to produce finish foils. Our portfolio includes conventional system parts "off the shelf" and tailor-made 2-stage systems. Components of these systems

The impregnating systems of Rotodecor are essen- amongst others: unwinding system, splicer, impregnation station, dryer 1, coating station with web control and cooling channel, dryer 2, cooling field, web control, pull roll and cooling roll rack, winder and/or cross cutter, sheet stacker with palette exchange solution.

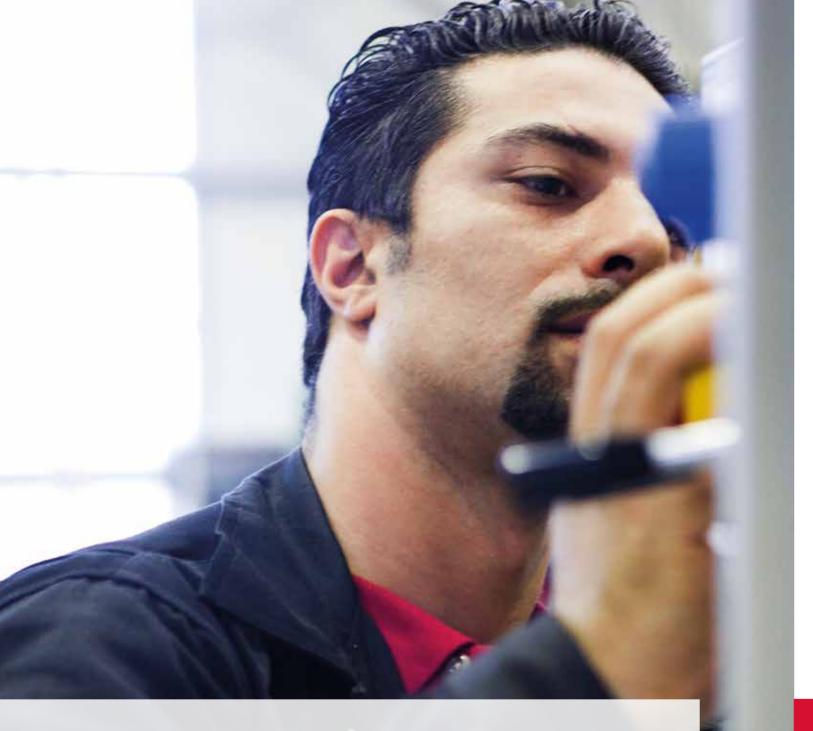


Winding technology with non-stop changing of rollers

High-precision cross cutting for embossed-in-register products



Driving technology	Sinamics, Simotion, Lenze
Steering	Flawless Simatic S7 or other common products
Inner diameter of core sleeves	3" - 6"



DIE CUTTERS AND DELIVERY SYSTEMS

Fast & adaptable - format flexibility combined with maximum speed

nated plastics are mainly used in the packaging industry. They are employed for liquid packaging as well as for outer packaging in rectangular and flexib- the latest drive technology.

Our rotating cutters for paper, cardboard and lami- le formats. Even highly complex cutting applications can be implemented with our tailor-made solutions. A cutting speed of up to 500 m/min is possible with







KEY FACTS

	Paper, cardboard, laminated	Programming interface	Simatic S7 CPU	
	plastics (grammature 150 – 450 g/m²)	Draw cylinder	Draw cylinder with ceramic coating	
Rectangular and individual cuts for liquidity packaging and outer packaging		Interfaces	Production data transfer to	
Minimum width	500 mm		PDA (Process Data Acquisi- tion) possible (e.g. SAP)	
Maximum width	1,800 mm	Driving technology	Sinamics, Simotion	
Inner diameter of core sleeves	3" - 12"	Steering	Flawless Simatic S7 and	
Maximum cutting speed	500 m/min		other common products	



Cutter for liquid packaging – width 1,400 mm

Exchangeable for askew section

Stacker with stack turning device

RETRO-FIT

From old to new - mechanical as well as electrical upgrading

systems, Rotodecor also offers comprehensive retro-fit services: Own systems or machines and components from other manufacturers are modernised by our experts and brought up to date.

Besides development and design of machines and Furthermore, we provide a broad range of spare parts, components and tailor-made single parts – for the machines produced by us as well as for systems from other manufacturers.









KEY FACTS

Cleaning, checking, maintenance and repairs of components and machines

Electrical system upgrading (control and driving technology e.g. S5 to S7, creation of wiring diagrams for existing plants)

Optimisation of existing plants regarding controllers, drive technology, mechanical system and safety technology

Replacement of complete aggregate units

Improved performance of machine concept

Improved efficiency through modernisation and augmentation

Modernisation of machine control

Conversion of complete machines and plants

Re-location of existing machines and plants (dismantling, transportation, commissioning, installation and production support)

Electronical components and spare parts for drive systems and gearing mechanisms

Special mechanical devices, tools, components and spare parts

WINDING TECHNOLGY

Tailor-made solutions

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Besides ready-to-use machines we also provide our clients in the decorative printing and packaging industry with state-of-the-art and client-specific winding solutions. To guarantee a maximum amount of flexibility, all winders are modularly designed. We would be pleased to send you a detailed description of the components on request.



Web splicing system for butt-joint and festoon section

KEY FACTS

Materials	Base board, compound material, aluminium, films and papers up to 1,000 g/m ²	Inner diameter of winding sleeves	3" - 12"	
Minimum paper width	500 mm	Maximum speed	600 m/min	
Maximum paper width	3,000 mm	Programming interfaces	Simatic S7 CPU, integration with other	
Maximum reel diameter	2,200 mm		controllers possible	

CONVERTERS Modular design, extremely fast

Besides printing presses, lacquering and impregnating machines we also deliver converters to our clients in the decorative printing and packaging industry. Depending on our clients' needs all converters have a modular design and can provide our customers with a converting speed of up to 800 m/min.



Fast and flexible converter concept by using a modular design

KEY FACTS

Materials	Cardboard, paper, aluminium, films, composite material,	Inner diameter of converting sleeves	3" - 12"
	synthetics	Maximum speed	800 m/min
Minimum paper width	500 mm	Driving technology Steering	Sinamics, Simotion
Maximum paper width	3,000 mm		Flawless Simatic S7 or other common products
Maximum reel diameter	2,200 mm		

CONTACT

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"We look forward to convincing you of the quality of our work in a collaborative project."

Fhomas Schmid, Managing Director

Picture credit: Interprint, page 9 (top

Quality, customer focus and solution orientation are a top priority for Rotodecor.

www.rotodecor.de