

ROTODECOR



Custom-built Machinery for Printing, Coating and Converting

GERMANY ▪ CHINA ▪ USA

→ CONTENTS

Our promise	1
Quality, customer focus and solution orientation	2
Projects all around the world	3
Gravure printing presses	4
Lacquering machines	6
Impregnating machines	8
Die cutters and delivery systems	10
Retro-Fit	12
Winding technology	14
Converters	15
Contact	16



→ OUR PROMISE

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 expectations and special requests.

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 service partner.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Schmid'.

Thomas Schmid
Managing Director

→ 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 hand-over, 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

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.

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 Schattdecor AG with specialist team of mechanical engineers

2004 Delivery and go-live of the first printing press

2005 Delivery and go-live of the first lacquering machine

2005 – 2009 Strong focus on decorative printing and lacquering systems

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

2011 Large-scale contracts in the field of liquid and beverage outer packaging

2012 Complete takeover of shares by the Schmid family

2013 Addition of impregnating systems to the portfolio

2014 Foundation of the subsidiary in Shanghai and the service location in Atlanta

→ GRAVURE PRINTING PRESSES

Fast & energy efficient – optimum setup times and quality

Some of our core products are ready-to-use gravure printing presses that are mainly used in decorative and packaging printing. They can handle both water-based as well as volatile solvent-based colours. All machines are built with state-of-the-art drive tech-

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.



3-colour printing press for decorative printing



HMIs are located where they are needed



Modern and energy-efficient drying systems

KEY FACTS

Printable material	Papers and foils (gramma-ture: 20 – 450 g/m ²)	Programming interface	Simatic S7 CPU
Minimum print width	500 mm	Draw cylinder	Draw cylinder with ceramic coating
Maximum print width	ca. 3,000 mm	Interfaces	Production data transfer to PDA (Process Data Acquisition) possible (e.g. SAP)
Inner diameter of core sleeves	3" – 12"	Driving technology	Sinamics, Simotion
Printing cylinder diameter	600 – 1,800 mm	Steering	Flawless Simatic S7 and other common products
Maximum printing speed	600 m/min		



→ 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

KEY FACTS

Number of lacquering units	1, 2 or 3 – fixed or flexible	Maximum lacquering speed	500 m/min
Printable material	Papers and foils (gramma- ture: 20 – 450 g/m ²)	Dosing volume	3 – 25 g/m ²
Minimum paper width	500 mm	Degree of gloss	7 to > 80 gloss degree units
Maximum paper width	3,000 mm	Lacquers	Water-based or solvent- based lacquers
Inner diameter of the paper sleeves	3" – 12"	Programming interface	Simatic S7 CPU



Winding technology with non-stop changing of rollers



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



Energy-efficient, easy-to-operate dryers

→ IMPREGNATING MACHINES

From cost effective to high-end – reliability guaranteed

The impregnating systems of Rotodecor are essentially 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

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.

KEY FACTS

Maximum paper width	up to 3,000 mm	Driving technology	Sinamics, Simotion, Lenze
Weight	ca. 20 – 200 g/m ²	Steering	Flawless Simatic S7 or other common products
Speed	up to > 100 m/min, depending on specific project	Inner diameter of core sleeves	3" – 6"



Cutter for liquid packaging – width 1,400 mm



Exchangeable for askew section



Stacker with stack turning device

→ DIE CUTTERS AND DELIVERY SYSTEMS

Fast & adaptable – format flexibility combined with maximum speed

Our rotating cutters for paper, cardboard and laminated plastics are mainly used in the packaging industry. They are employed for liquid packaging as well as for outer packaging in rectangular and flexi-

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 the latest drive technology.

KEY FACTS

Cutable material	Paper, cardboard, laminated plastics (grammature 150 – 450 g/m ²)	Programming interface	Simatic S7 CPU
Rectangular and individual cuts for liquidity packaging and outer packaging		Draw cylinder	Draw cylinder with ceramic coating
Minimum width	500 mm	Interfaces	Production data transfer to PDA (Process Data Acquisition) 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 other common products
Maximum cutting speed	500 m/min		

→ RETRO-FIT

From old to new – mechanical as well as electrical upgrading

Besides development and design of machines and 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.

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.



Improved performance of machine concept



Improved efficiency through modernisation and augmentation



Modernisation of machine control

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

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 TECHNOLOGY

Tailor-made solutions

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

→ 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	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 controllers possible
Maximum reel diameter	2,200 mm		

KEY FACTS

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

→ CONTACT

HEADQUARTERS

ROTODECOR GmbH
Maschinen- und Anlagenbau
Im Erfkamp 2
32791 Lage, Germany

Phone: +49 5222 - 806 01 0
Fax: +49 5222 - 806 01 10
info@rotodecor.de
www.rotodecor.de

SUBSIDIARIES

ROTODECOR (Shanghai) Co., Ltd.
88 Keyuan Road, German Centre,
Tower 1, Unit 728
Pudong 201203 Shanghai

ROTODECOR USA
869 Pickens Industrial Drive, NE
Suite #12
Marietta, GA 30062

→ CONTACT FOR SERVICE AND SALES

Phone: +49 5222 - 806 01 77
sales@rotodecor.de



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

Thomas Schmid, Managing Director

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

www.rotodecor.de

