



Grauel

Print Technology

Printing & Automation



Print Technology

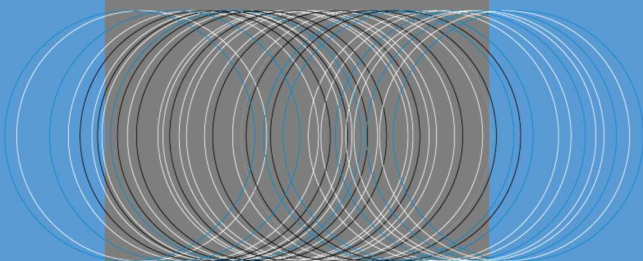
Dry Offset, Inkjet, Pad Print &
Indirect Flexo

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Grauel | the company



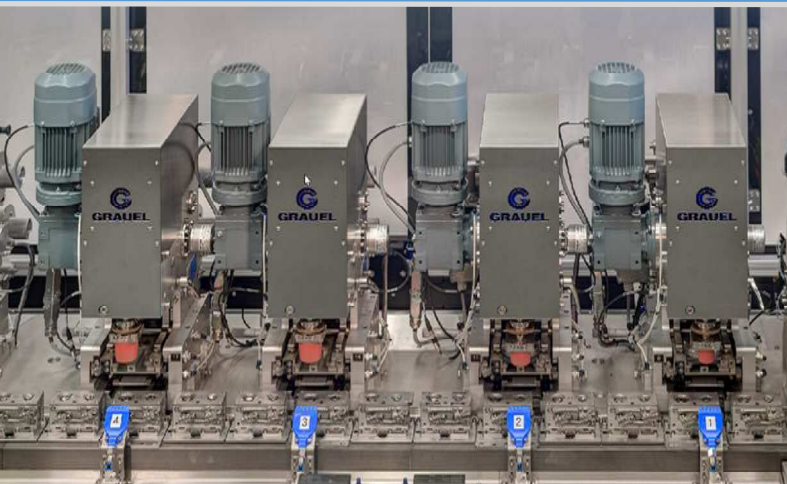
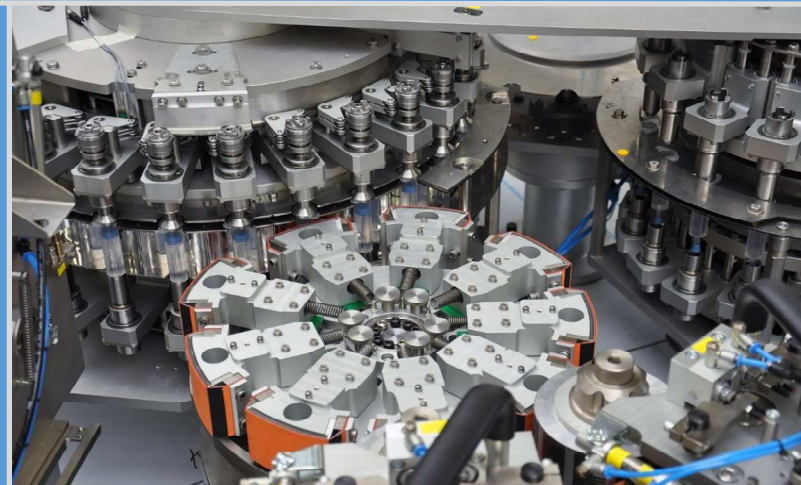
Grauel is part of the AAE (Advanced Automation Equipment) group and located in Helmond Netherlands and active since 1976.

AAE employs over 370 staff members and has a turnover in excess of EUR 100 million. Our systems are sold in more than 30 countries worldwide.

Grauel has a dedicated focus on • design • manufacture • assembly and installation of high precision automated assembly and printing solutions.

We co-operate with our customers to realize technically complex printing solutions, tailor made for specific industries including • toy • medical devices • pharmaceutical • automotive • food & beverage • cosmetic industry.

We meet and exceed the highest industry standards and sustain long-term relationships with our customer.



Grauel offers a full range of print solutions, focusing on the needs and requirements of the customer. Our understanding of the customer needs, allows for high quality and technically optimized solutions.

Our engineers support POP (Proof Of Principles) machines as well as large, fully automated printing lines running at high speed to print complex products meeting the highest quality standards.



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Print Type: Inkjet (drop on demand)

Speed: 80 parts per minute

Print image: Scale and volume indication

Colors: 1

Treatment: Plasma and LED UV curing

Description: Inkjet print on measurement cup with accurate positioning requirement for the scale position. Product has inclined outer edge. Scale position is used for volume measurement. Up to eight (8) different scales are present that can be changed quickly.

Print Type: Pad Print

Speed: 100 parts per minute

Print image: Numbers and color

Colors: 2

Treatment: None

Description: Pad print on ring used in medical device. Two parts are printed that will be assembled to form single dosing and scaling unit. System includes automated feeding, handling, pad printing, visual inspection, heat curing and automated outtake.



Print Type: Offset (dry) and Inkjet (drop on demand)

Speed: 250 parts per minute

Print image: Text, Logo and QR code

Colors: 3

Treatment: Flame and UV curing

Description: Offset (dry), Inkjet print and plunger assembly on continuous motion print system. Offset print used to provide high quality image indicating name, logo and text for product. Inkjet print use for QR code to uniquely identify each product.



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Print Type: Offset (dry)

Speed: 90 parts per minute

Print image: Scale and volume indication

Colors: 1

Treatment: Plasma and UV curing

Description: Offset (dry) print of scale and plunger assembly of pipette. Scaling used for volume indication applied on specific part of the product (in line with the round flange). Immediate curing required as system has integrated assembly of the plunger.

Print Type: Pad Print

Speed: 70 parts per minute

Print image: Numbers and color

Colors: 2

Treatment: None

Description: Pad print on ring used in medical device. Scale provides indication of volume. Two parts are printed that will be assembled to form single dosing and scaling unit. Fully automated system.



Print Type: Indirect Flexo

Speed: 450 parts per minute

Print image: Text and Logo

Colors: 3 (only one in image)

Treatment: Plasma and UV curing

Description: Indirect Flexo print, plunger assembly and full leak testing of product. System includes automated handling, leak testing and automated outtake.



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Print Type: Offset (dry)

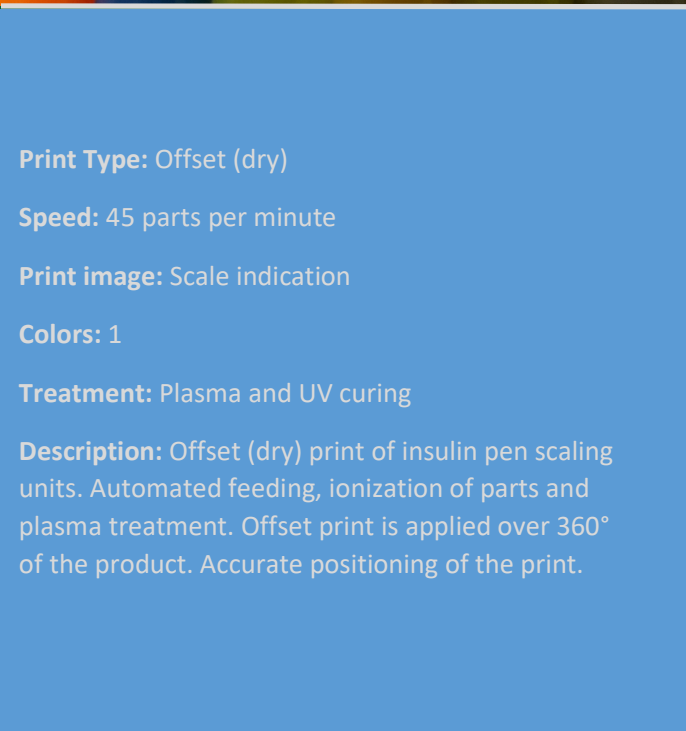
Speed: 550 parts per minute

Print image: Logo and indication

Colors: 1

Treatment: Flame and UV curing

Description: Offset (dry) print of marker pens at high speed continuous motion machine. Automated feeding system to provide marker pens to print system. Treatment and curing at high speed and automated outtake to box shifter system.



Print Type: Offset (dry)

Speed: 45 parts per minute

Print image: Scale indication

Colors: 1

Treatment: Plasma and UV curing

Description: Offset (dry) print of insulin pen scaling units. Automated feeding, ionization of parts and plasma treatment. Offset print is applied over 360° of the product. Accurate positioning of the print.