

Transfer printing



Transfer printing technology

3D-Coating

Surface coating

Advertisement

 **INTRON** jena

INTRON Jena stands for innovation, flexibility and high quality standards.

Through constant further development we have managed to present different technologies and successfully positioned ourselves on the market.

We see special requests by customers or the development and manufacture of specialized equipment as a challenge, not a problem.
All technologies are developed and produced by us in-house.

You have an idea and we have the solution!



Color Transfer Printing Technologies

With the INTRON COLOR PRESS line, you are able to transfer toner or ink to a wide variety of materials in only one printing operation.

The benefits of INTRON's printing technology include high cost savings, very good print quality and high degree of flexibility in the selection of materials.

Advantages

- no initial costs
- short print times
- color gradients without screen
- use of standard materials
- no solvents



System Components

We would be delighted to assist you in selecting color laser printers and/or copiers.

We would also gladly test your color laser printers and copiers to see if they are suited for color transfer printing and label doming.

3D-Coating



We offer you with our coating material the possibility of applying a decorative coating to labels, lettering and small plates or producing special adhesive materials.

INTRONGlas PUH

is a solvent-free, light-curing, two components coating material. Setting is facilitated with the aid of light curing devices specially developed and manufactured by us.



Surface Coating

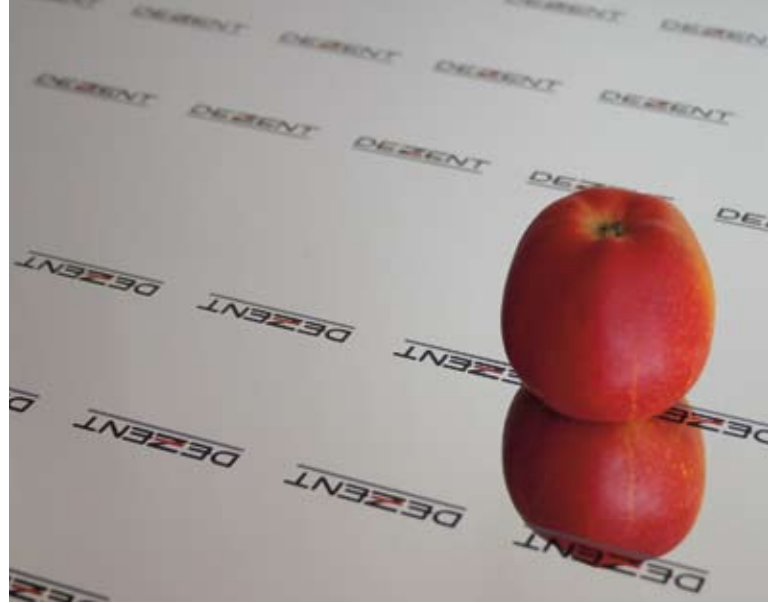
Perfect surfaces due to high grade enamelling and powder coating!

For diverse application

- automobile industry
- computer engineering
- medical technology
- furniture industrie
- mechanical industry

On varying materials

- aluminium
- steel
- synthetics
- wood



Color transfer printing

is based on the transfer of toner particles of a color laser printer/copier to printing stock.

By directly creating the print mask on the transfer paper, it is possible to eliminate the costs for films, printing plates or screens compared to previous printing processes.

The printed transfer paper is then transferred to the desired material using the INTRON COLOR PRESS. Thus, it is possible to achieve print results of higher quality with half-tone masters and blending colors compared to screen printing. This approach offers a significant savings in time and costs for one-off production and small production runs.

Color transfer printing is resistant to environmental effects and is very friendly to the environment.



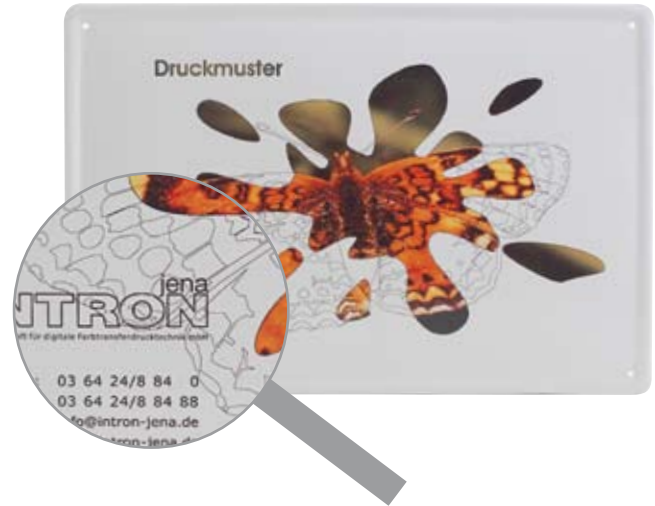
INTRON COLOR PRESS

Our printing technology is based on toner behavior at high temperatures. To print square-edged contours and fine lettering of standard materials need you a very high printing pressure of 12 kp/cm³.

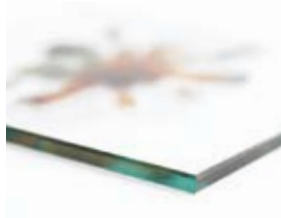
This ensures that no materials are damaged and deformed during printing (plastics, films, acryl, lacquer layers).

The hydraulic presses developed and constructed by INTRON Jena GmbH itself are characterized by a very high level of technical development and lead the way in cost/performance ratio.

They are constantly tailored to reflect the latest state of printing technology and engineering.



glass & ceramic



acrylic & PVC



wood



textiles



Mousepads



stainless steel & brass aluminium

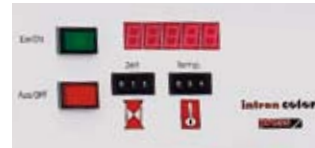
steel panel

miscellaneous ...



Advantages INTRON COLOR PRESS

- Automatic setting of printing pressure, depending on print size of the hydraulic machines,
- Temperature range also adjustable over 200°C, also suited for ink sublimation,
- Printing on commercially available materials without prior special coating.
- Print of long materials, by simply removing the front and rear panels,
- Microprocessor-based control for printing temperature and time,
- Increased reliability through plug-in modules,
- Adjustable printing tables DIN A4 or DIN A3,
- Short heating-up times and less heat loss,
- Maintenance-free!



Technical data

	PV 3.2	PV 2.2
Printing plate	450 x 330 mm	620 x 450 mm
Heating plate	460 x 340 mm	630 X 460 mm
Weight	150 kg	170 kg
Control	Microprocessor-based control	
Print counter	Day/total print counter	
Measurements	780 x 530 x 680 mm	
Variation	Stepless/digital	
Model	Table top unit	
Pressure	11,5 kp/cm ²	
Temperature range	0°C – 200°C	
Connected load	230V/50Hz	
Drive	Hydraulic	
Acceptance width	640 mm	
Machine protection	16 A	
Autom. error indication	Yes	



As a result of our modular design, our systems can be quickly adjusted from A3 format to A2 without incurring significant costs.

The color transfer presses of INTRON JENA GmbH are completely certified according to all guidelines – proof of very high quality and technology.

Transfer paper/Transfer film

ICP 10/30 Transfer paper

for metals, glass, wood, ceramic, pvc, dibond, acryl

- for color laser printer with silicon oil
- Paper gauges ICP 10 => 80g, ICP 30 => 105g
- Format sizes: DIN A4, A3, A3+
- Printed on directly in a color laser printer/copier

ICP 300 Transfer paper

for coating powders, metals, puzzles, wood ...

- for color laser printer with silicon oil
- Format sizes: DIN A4, A3
- Printed on directly in a color laser printer/copier

ICP 200 Textile transfer film

for light textiles/mousepads

- for color laser printer with silicon oil
- Format sizes: DIN A4, A3
- Printed on directly in a color laser printer/copier

ICP 400 Textile transfer film

for dark textiles/mousepads

- for color laser printer with and without silicon oil
- Format sizes: DIN A4, A3
- Printed on directly in a color laser printer/copier

Transfer paper/Transfer film

ICP 600 Textile transfer film

for light textiles/mousepads

- for color laser printer without silicon oil
- Format sizes: DIN A4, A3
- Printed on directly in a color laser printer/copier

ICP 800/900 Textile transfer paper

for metals, glass, wood, ceramics, dibond, acryl

- for color laser printer without silicon oil
- Format sizes: DIN A4, A3
- Printed on directly in a color laser printer/copier

INTRON POLY film (1)

- subsequent gloss finish to printed solids
- Format size: Roll 0,32 m x 100 m

INTRON GLOSSY film (2)

- subsequent gloss finish for PVC
- Format sizes: DIN A4, A3



Print materials

Self-adhesive film (1,2)

- Printed on directly using a color laser printer/copier
- Glossy colors: transparent, white, gold, silver,
- matte colors: transparent, white
- Format sizes: DIN A4, A3

Magnet sheets (3)

- white, sticks securely to metal surfaces
- 0,80 mm thick
- Format sizes: DIN A4, A3

Mousepads and Textiles

Mousepads white with light microcellular rubber (4)

- Format sizes: 230 x 190 mm

T-Shirts white and colored (5,6)

- in different styles



Print materials

Printable Cardboard/Puzzle

Printable cardboard, white, 1,5 mm thick (1)

- Format sizes: DIN A4, A3, A2

Puzzle, white, stamped with frame (2)

- Format sizes: A4 (60 pieces), A3 (130 pieces)

PVC Cadco

■ PVC white, 700 micron thick (3)

■ Format sizes: DIN A4, A3

■ Glisten with INTRON Glossy film (4)

Printable metal plates and signs

■ Sheet steel, white, folded edges, 4 mounting holes

■ Options: flat (5), curved surface (6)

■ Format sizes: 200 x 300 mm, 300 x 400 mm



Accessoires for INTRON COLOR PRESS

- Mobile stand with brakes, matching color scheme with tray option (1)
- Adjustable printing tables DIN A3 (2)
- Rubber matting with protective layer für DIN A2/A3 (3)
- felt pads for textile printing DIN A2/A3 (4)
- Rubber blankets 0,5 mm, 1,0 mm, 2,0 mm for printing on all solids DIN A2/A3 (5)
- Cotton blanket 520x520 mm for printing of acryl (6)
- Silicon foam mat DIN A2/A3, 3 mm thick for puzzle - print or to compensate for uneven surfaces (7)
- parchment paper DIN A2/A3 (8)



Adhesion Promotion

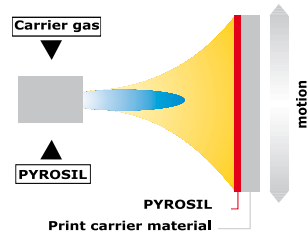
For substrates that are difficult to print on like glass and precious metals, we have developed a special bonding agent which reduces the interface diffusion of the surface of the material and therefore improves the capacity of the surface to accept paints and lacquers.

PYROSIL-DS

Manual flame treatment of the material with silicate prior to printing

- Printing can take place immediately
- Usable with:
 - metals
 - glass
 - ceramic

PYROSIL-bundle



PYROSIL-DS manual flame-coating-set consisting of:

- 1 refillable cartridge 330 g
- 1 manual flame coating device
- 1 adapter



Adhesion Promotion

INTRON-Primer GH 113

- Applied to the material using spray can
- Moisten completely - must dry - printing can take place immediately
- Can be baked again - washable
- Usable with glass and ceramic
- Storage: 250ml containers

INTRON-Coating-Powder

- Applied to printed transfer paper using a foam roller
- Ready for printing immediately
- Milky surface in case of glass and ceramic, can be baked
- Wood block printing results in a natural wood-like structure
- Storage: 500g containers



INTRON-
Primer GH 113



INTRON-
Coating-Powder

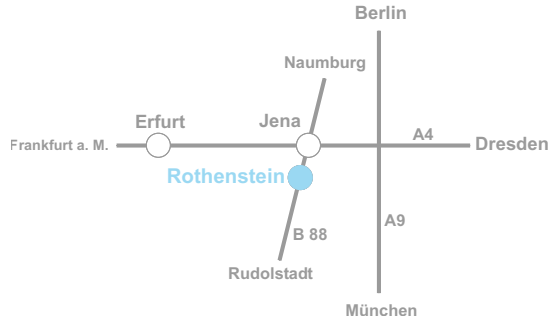
Education + Services

We provide an array of comprehensive education in the area of colour transfer print-technique:

- Introduction into the colour transfer printtechnique
- Printing on various materials with the INTRON COLOUR PRESSES
- Recommendations of suitable materials
- Using of adhesion mediators
- Handover of the education handbook

Those education sessions will be held either in our headquarters or within the customers premises.





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