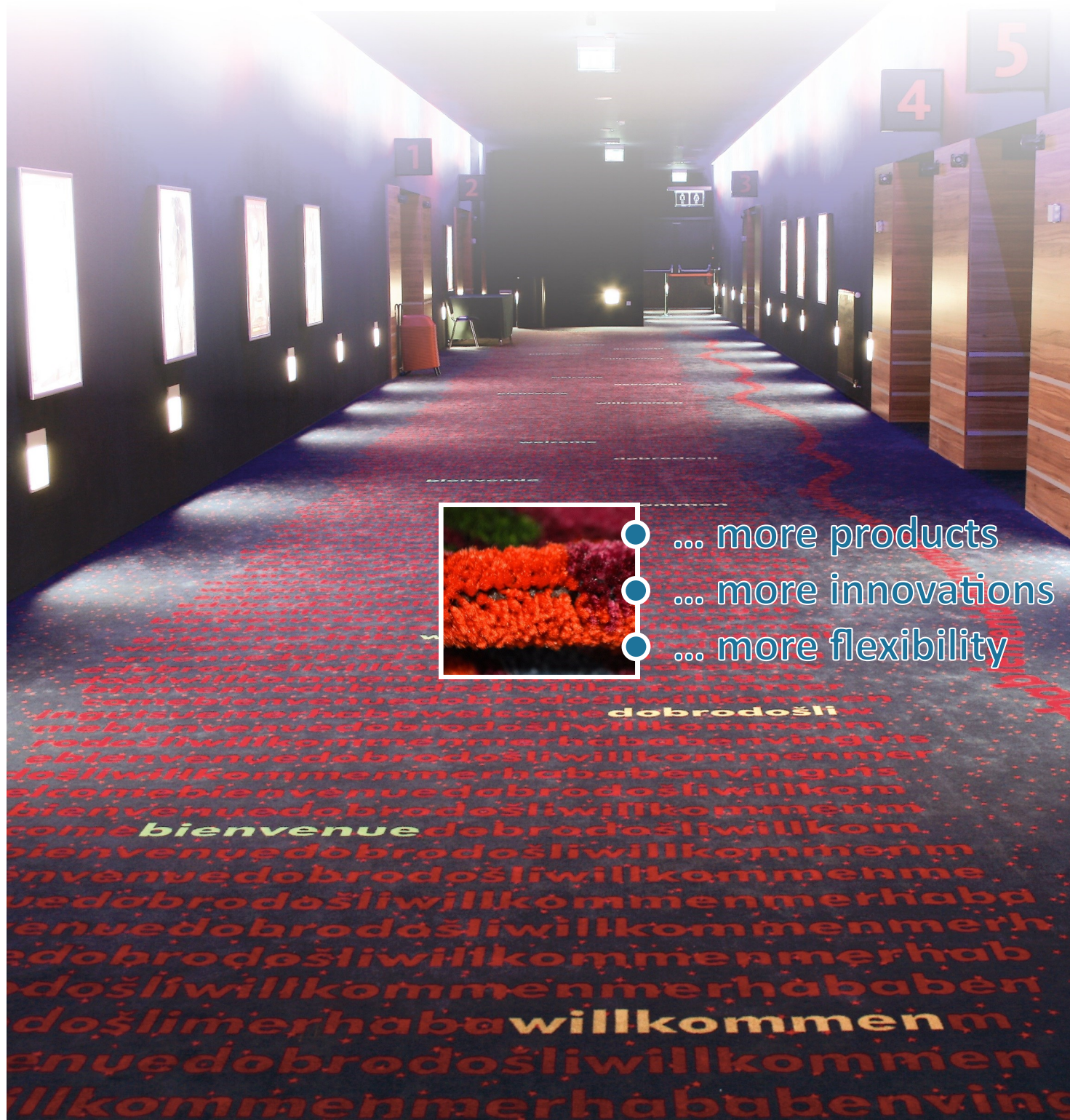




CHROMOJET.DIGITAL PRINTING

SPOT COLOR 25 DPI



- ... more products
- ... more innovations
- ... more flexibility



CHROMOJET⁴⁰⁰.BASICS

GENERAL

Printed carpets, rugs and mats out of polyamide and wool are popular throughout the world.

FUNCTION

CHROMOJET is a printing system using high speed valves which are computer controlled. The pre-mixed pressurized spot colors are injected with high precision deep into the face of the pile without any machine parts touching the fabric. Deepest color penetration and excellent print definition are the result.

PRINTING.SPEED

Production speed is almost proportional to the number of jets used per color. More jets offer higher production speed.

MODES OF OPERATION

Single Speed Mode (SSM)

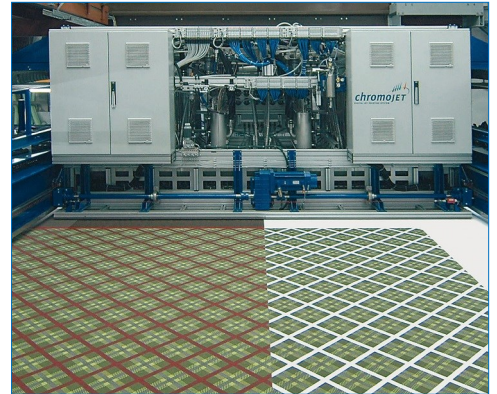
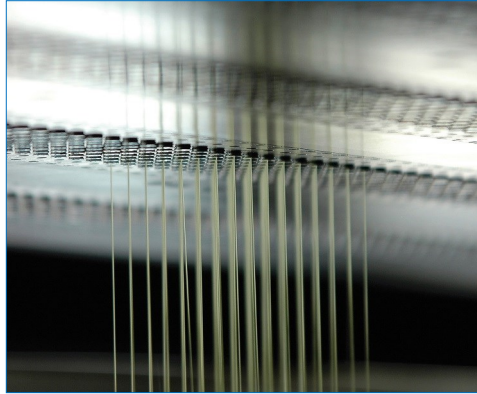
Each group of jets is used for one individual color.

Double Speed Mode (DSM)

Two groups of jets are combined and filled with the same color. The linear production speed is almost doubled in comparison to single speed mode.



CHROMOJET - DIGITAL PRINTING SPOT COLOR 25 DPI (ENG)



Selector | CHROMOJET⁴⁰⁰ printer with 25.4 dpi resolution

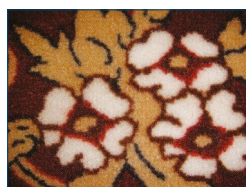
| Production per year at 2 shift operation (16 h) | Piece by Piece operation | | Roll to Roll operation | | |
|--|--|---|---|--|--|
| | Mats | Carpet tiles | 2 m print lines | 4 m print lines | 5 m print lines |
| 0 - 25,000 | CHR ⁴⁰⁰ 2000 16 c x 8 jets | | | | |
| 25,000 - 50,000 | CHR ⁴⁰⁰ 2500 16/32 c x 16 jets | CHR ⁴⁰⁰ 2000 8/12/16 c x 32 jets | | | |
| 50,000 - 100,000 | CHR ⁴⁰⁰ 2500 32/48 c x 48 jets | CHR ⁴⁰⁰ 2000 8/12/16 c x 64 jets | CHR ⁴⁰⁰ 2000 8/12/16 c x 32 jets | | |
| 100,000 - 250,000 | | CHR ⁴⁰⁰ 2000 8/12/16 c x 128 jets | CHR ⁴⁰⁰ 2000 8/12/16 c x 64 jets | | |
| 250,000 - 500,000 | | | CHR ⁴⁰⁰ 2000 8/12/16 c x 128 jets | CHR ⁴⁰⁰ 4000 8/12/16 c x 128 jets | |
| 0.5 - 1 mio m² | | | | CHR ⁴⁰⁰ 4000 8/12/16 c x 256 jets | |
| 1 - 2.5 mio m² | | | | CHR ⁴⁰⁰ 4000 8/12/16 c x 512 jets | CHR ⁴⁰⁰ 5000 8/12/16 c x 512 jets |
| 2.5 - 5 mio m² | | | | CHR ⁴⁰⁰ 4000 8/12/16 c x 1280 jets | CHR ⁴⁰⁰ 5000 8/12/16 c x 1280 jets |

Besides our standard program we also build highly customized printing lines in various configurations.

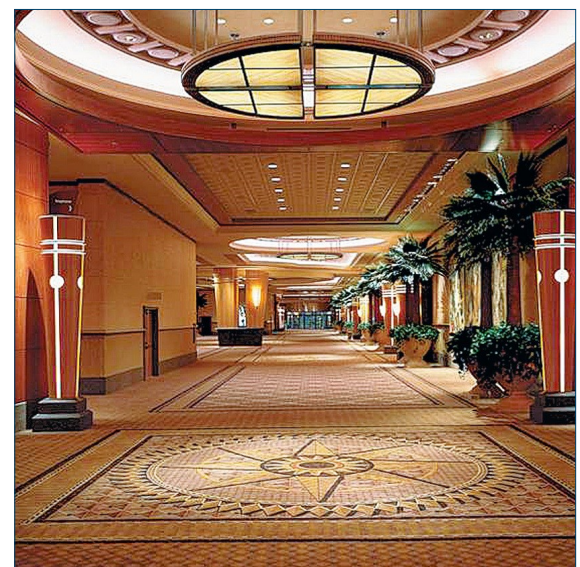
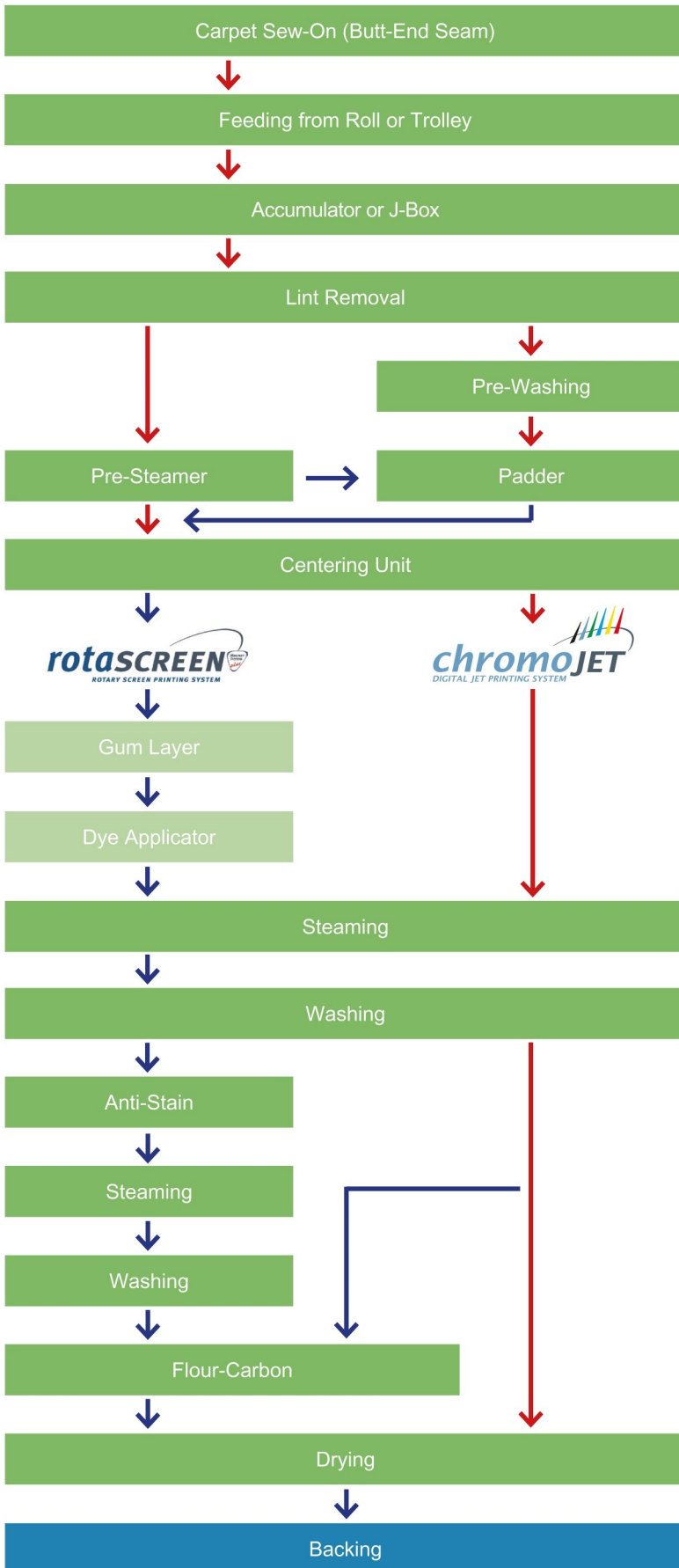


ADVANTAGES OF CHROMOJET⁴⁰⁰

- No screens – no limitation in pattern repeats
- Design change „on the fly“
- Full penetration
- Pile weight from 250 up to 1,500 g/m²
- For polyamide, wool, acrylic and (up to a certain extent) polyester yarns
- Complete print line from one supplier
- High resolution



Workflow of a Carpet Printline



CHROMOJET⁴⁰⁰ Printer for rugs & wall to wall carpets

| Specification | CHR ⁴⁰⁰ 4000 c x 128 | CHR ⁴⁰⁰ 4000 | CHR ⁴⁰⁰ 4000 | CHR ⁴⁰⁰ 4000 |
|--|------------------------------------|-------------------------|-------------------------|-------------------------|
| Print width | 415 cm | 415 cm | 415 cm | 415 cm |
| Number of colors | 8/12/16 c | 8/12/16 c | 8/12/16 c | 8/12 c |
| Jets per color | 128 | 256 | 512 | 1,280 |
| Linear print speed at 25.4 dpi | 0.7 - 0.9 m/min | 1.5 - 1.9 m/min | 2.7 - 3.4 m/min | 6.3 - 7.6 m/min |
| Linear print speed at 25.4 dpi in double speed mode | 1.4 - 1.8 m/min | 3.0 - 3.8 m/min | 5.4 - 6.8 m/min | 10.3 - 12.4 m/min |
| Required space | ~ 15 x 50 m | ~ 15 x 60 m | ~ 15 x 70 m | ~ 15 x 100 m |

CHROMOJET printed rugs and carpets for the contract and hospitality markets are very popular. High flexibility in colors and no restriction in pattern repeats are the major advantages over woven and tufted carpets.

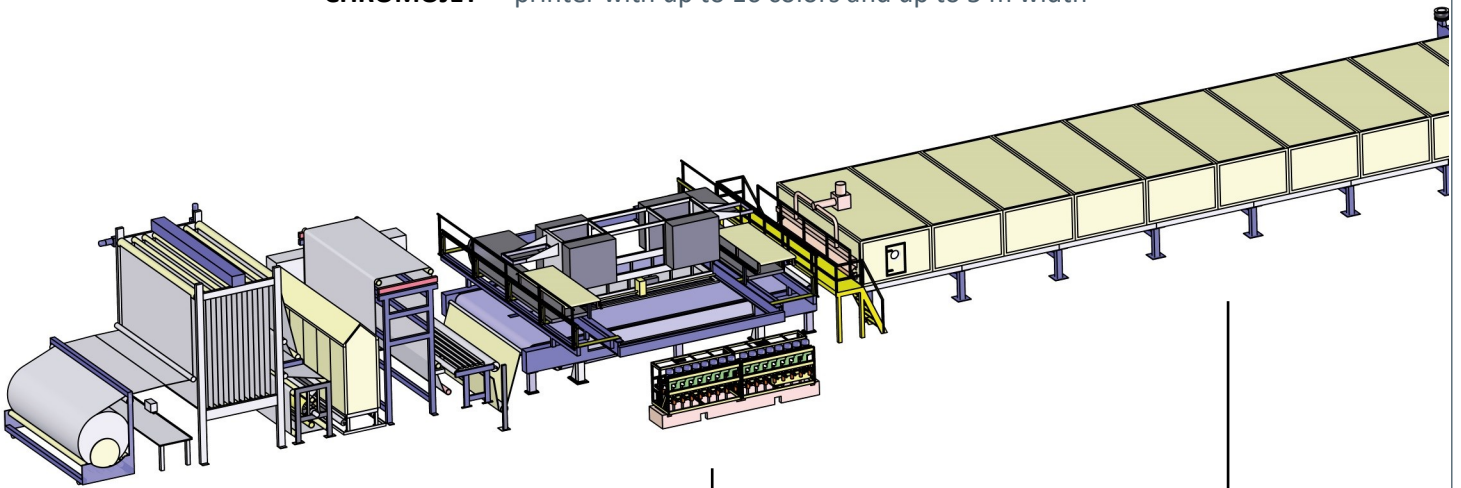
No dyed yarn needs to be kept on stock – only white yarn or white tufted carpet.



CHROMOJET - DIGITAL PRINTING SPOT COLOR 25 DPI (ENG)



CHROMOJET⁴⁰⁰ printer with up to 16 colors and up to 5 m width



Unrolling, J-box, lint removal, pre-steamer, edge guiding and pull roller



Color kitchen with automatic thickener and water dosing



Horizontal steamer, washing unit and dryer

CHROMOJET⁴⁰⁰ 4 m print lines for rugs & wall to wall carpets



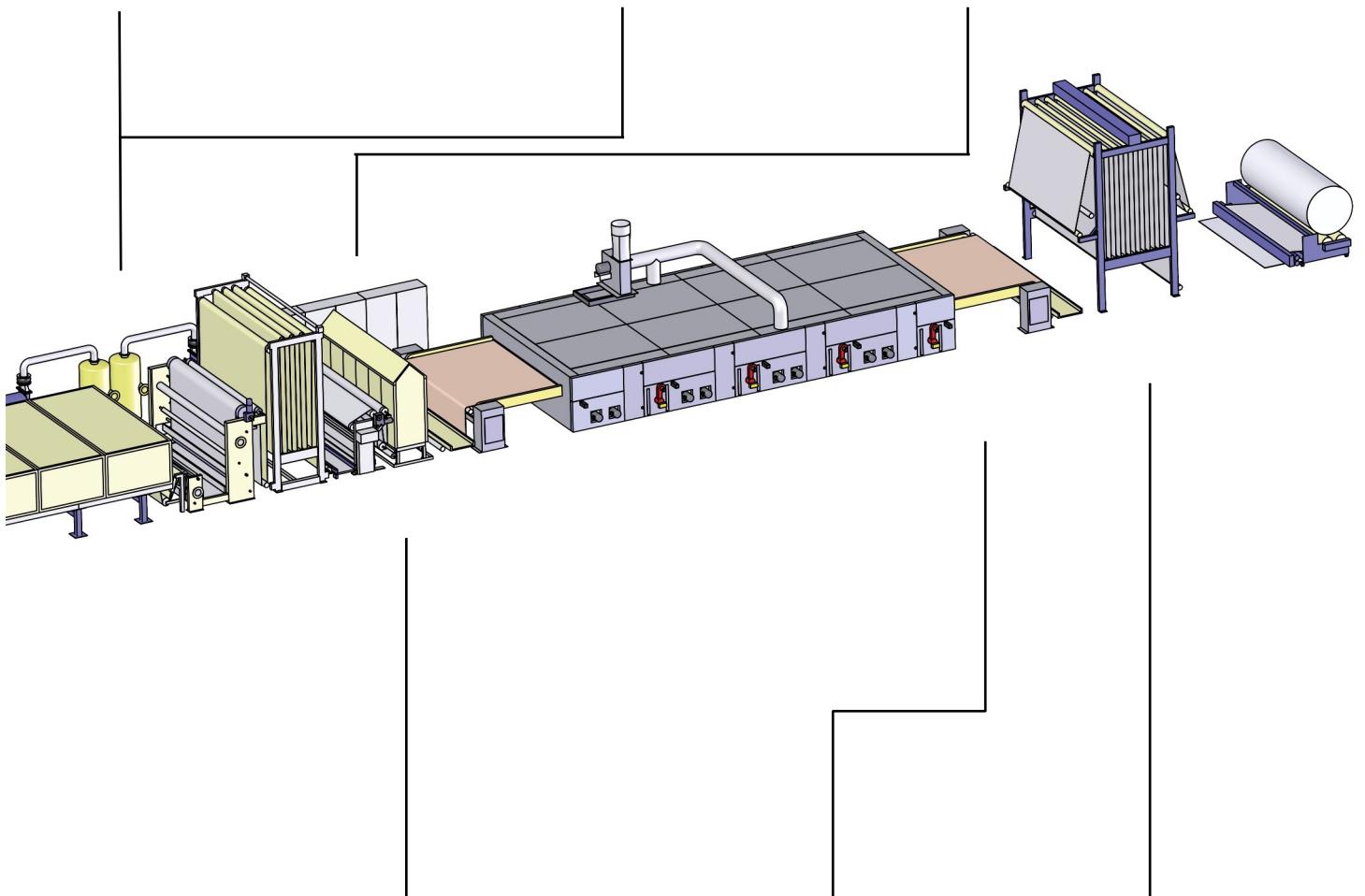
Washing and vacuum unit



Vacuum pumps of washing unit



Foam application and impregnation



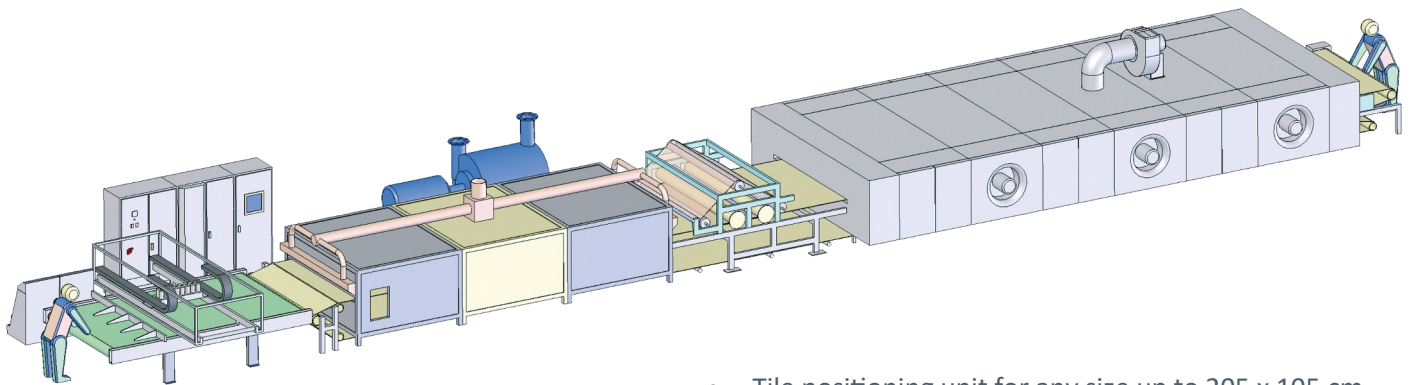
Stenter inlet to dryer



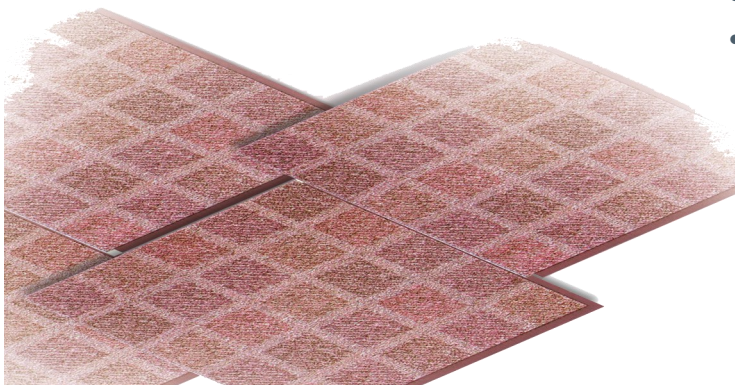
Exit of dryer with cooling zone



Accumulator, inspection zone, roll-up unit



- Tile positioning unit for any size up to 205 x 105 cm
- High resolution **CHROMOJET.PRINTER**
- Conveyor belt throughout the complete line
- Special steamer construction with steam from top to avoid overheating of the backing
- Sandwich washer with high power vacuum pump
- Low temperature dryer with long drying time



CHROMOJET⁴⁰⁰ Printer for carpet tiles, mats & runners

| Specification | CHR ⁴⁰⁰ 2000 c x 32 | CHR ⁴⁰⁰ 2000 c x 64 | CHR ⁴⁰⁰ 2000 c x 128 |
|--|-----------------------------------|-----------------------------------|------------------------------------|
| Print width | 2,100 mm | 2,100 mm | 2,100 mm |
| Number of colors | 8/12/16 c | 8/12/16 c | 8/12/16 c |
| Jets per color | 32 | 64 | 128 |
| Linear print speed at 25.4 dpi in single speed mode | 0.3 - 0.4 m/min | 0.7 - 0.8 m/min | 1.2 - 1.4 m/min |
| Linear print speed at 25.4 dpi in double speed mode | 0.6 - 0.8 m/min | 1.4 - 1.6 m/min | 2.4 - 2.8 m/min |
| Tiles per hour (50 x 50 cm) | ~ 40 x 45 m ² /h | ~ 75 x 90 m ² /h | ~ 120 x 145 m ² /h |

CARPET.TILE PRINTING

CHROMOJET is perfect to print carpet tiles either on individual tiles or on slabs where tiles will be cut out after the printing process.

Printing can be done either on pre-dyed tiles with a light base color or on white tiles.

Unrolling unit with integrated pre-steamer, edge guiding and pull roller

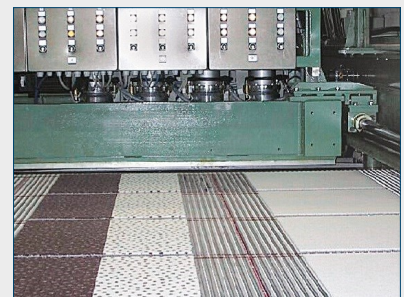


Carpet tile positioning device for a precise match of the print



Sandwich washer for mats and carpet tiles

Positioned tiles during the printing process



Bath mat printing (2 m line)



At the Cap' Cinéma Le Carnot various playful colors show the way to the cinema halls whose numbers are also integrated into the design.

Applications

25 dpi Carpets by Halbmond Teppichwerke GmbH, Oelsnitz



Hotel Royal in Eurothermen-Resort Bad Ischl

CHROMOJET Exceeds All Expectations!



CHROMOJET allows sharp, colorful and brilliant carpet designs.



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This setup guarantees a short response time on a service call from a customer.

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