

The exhibition programme includes:

1. prepress/print
2. premedia/multichannel
3. postpress/convertng/packaging
4. future technologies
5. materials
6. equipment/services/infrastructure

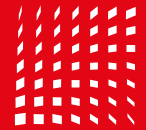
1	prepress / print
<p>1.1 Publishing software</p> <p>1.1.10 Image processing software</p> <p>1.1.15 Database publishing</p> <p>1.1.20 Graphics software</p> <p>1.1.25 Layout software</p> <p>1.1.30 OCR software</p> <p>1.1.35 Personalization software</p> <p>1.1.40 Editing systems</p> <p>1.1.45 Fonts</p> <p>1.1.50 Font management software</p> <p>1.1.55 Software for catalogue production</p> <p>1.1.60 Software for magazine production</p> <p>1.1.65 Software for technical documentations</p> <p>1.1.70 XML, SGML based software</p> <p>1.2 Workflow and data handling software</p> <p>1.2.10 Database systems</p> <p>1.2.15 Image databases</p> <p>1.2.20 Content management systems</p> <p>1.2.25 Data checking software</p> <p>1.2.30 Workflow systems</p> <p>1.2.35 Archiving software</p> <p>1.2.40 Image optimization software</p> <p>1.2.45 Sheet assembly software</p> <p>1.2.50 CIP4 applications</p> <p>1.2.55 Color management software</p> <p>1.2.60 Remote data transmission</p> <p>1.2.65 JDF applications</p> <p>1.2.70 PDF software</p> <p>1.2.75 Proofing software</p> <p>1.2.80 Screening technologies</p> <p>1.2.85 RIP systems</p> <p>1.2.90 Ink key presetting systems</p> <p>1.2.95 Web-to-print solutions</p> <p>1.3 Software</p> <p>1.3.10 Job costing and project management software</p> <p>1.3.15 Production planning and control software</p> <p>1.3.20 ERP systems</p> <p>1.3.25 Management information systems</p> <p>1.3.30 Production and machine data processing</p> <p>1.3.35 Software for Customer Relationship Management</p> <p>1.3.40 Analytical CRM / data mining</p> <p>1.3.45 Database marketing</p> <p>1.3.50 Sales Force Automation</p> <p>1.3.55 Software for call centres</p> <p>1.3.60 Software for service management</p> <p>1.3.65 Helpdesk software</p> <p>1.3.70 Software for customer services</p> <p>1.3.75 Services planning software</p> <p>1.3.80 Software for remote maintenance</p> <p>1.3.85 Postage optimization software</p> <p>1.3.90 Quality management software</p> <p>1.4 Software for packaging prepress</p> <p>1.4.10 Software for production preparation</p> <p>1.4.15 Software for packaging design</p> <p>1.5 Equipment & systems for printing forme production</p> <p>1.5.10 Printing forme producers</p> <p>1.5.15 Printing forme production for offset printing</p> <p>1.5.20 Computer to plate systems for offset printing</p>	<p>1.5.25 Computer to film systems / Imagesetters</p> <p>1.5.30 Bending machines for printing plates and plate punching equipment</p> <p>1.5.35 Processing systems (film & printing plate)</p> <p>1.5.40 Printing plate baking systems</p> <p>1.5.45 Copying equipment for offset plate production</p> <p>1.5.50 Printing forme production for flexographic printing</p> <p>1.5.55 Copying equipment for flexo plate printing</p> <p>1.5.60 Washing-out units for flexographic printing</p> <p>1.5.65 Computer to plate systems for flexo plates</p> <p>1.5.70 Mask cutting systems</p> <p>1.5.75 Printing forme production for screen printing</p> <p>1.5.80 Copying devices for screen printing forme production</p> <p>1.5.85 Computer to screen systems</p> <p>1.5.90 Screen washing units and stripping units</p> <p>1.5.95 Screen coating units</p> <p>1.5.100 Screen tensioning units</p> <p>1.5.105 Braille printing technology</p> <p>1.5.110 Printing forme production for gravure printing</p> <p>1.5.115 Etching devices for gravure printing</p> <p>1.5.120 Computer-to-gravure cylinders</p> <p>1.5.125 Electroplating for gravure cylinders</p> <p>1.5.130 Cylinder engraving machines for gravure printing</p> <p>1.5.135 Cylinder grinding machines</p> <p>1.5.140 Mounting and registering systems</p> <p>1.6 Sheet-fed offset printing machines</p> <p>1.6.10 Sheet-fed offset printing machines – direct imaging</p> <p>1.6.15 Sheet-fed offset printing machines – inline foiling</p> <p>1.6.20 Sheet-fed offset printing machines – short inking unit</p> <p>1.6.25 Sheet-fed offset printing machines with perfecting capability</p> <p>1.6.30 Sheet-fed offset printing machines without perfecting capability</p> <p>1.6.35 Sheet-fed offset printing machines UV</p> <p>1.6.40 Sheet-fed offset printing machines – waterless</p> <p>1.6.45 Continuous pile printing machines</p> <p>1.7 Web-fed offset printing machines</p> <p>1.7.10 Commercial web offset machines for continuous printing</p> <p>1.7.15 Continuous stationery printing machines</p> <p>1.7.20 Web-fed printing machines – heatset</p> <p>1.7.25 Web-fed printing machines – coldset</p> <p>1.7.30 Web-fed printing machines – flexible substrates</p> <p>1.8 Flexographic printing machines</p> <p>1.8.10 Sheet-fed flexographic printing machines</p> <p>1.8.15 Wide-web flexographic printing machines</p> <p>1.8.20 Narrow-web flexographic printing machines</p> <p>1.9 Letterpress machines</p> <p>1.9.10 Letterpress printing machines – web-fed</p> <p>1.9.15 Letterpress printing machines – sheet-fed</p> <p>1.9.20 Letterpress platens</p> <p>1.10 Gravure printing machines</p> <p>1.10.10 Web-fed gravure printing machines</p> <p>1.10.15 Sheet-fed gravure printing machines</p> <p>1.11 Hybrid printing machines (combination of methods)</p> <p>1.11.10 Sheet-fed hybrid printing machines</p> <p>1.11.15 Web-fed hybrid printing machines</p> <p>1.12 Digital printing machines and digital printing systems</p> <p>1.12.10 Inkjet</p> <p>1.12.15 Web-fed inkjet printing systems</p>



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- 1.12.20 Sheet-fed inkjet printing systems
- 1.12.25 Inkjet imprinting systems
- 1.12.30 Inkjet photo printers
- 1.12.35 Inkjet plotters
- 1.12.40 Inkjet textile printing
- 1.12.45 Inkjet Large format printing
- 1.12.50 Inkjet – coating
- 1.12.55 Inkjet – Direct to Shape
- 1.12.60 Inkjet varnish
- 1.12.65 Inkjet foiling
- 1.12.70 Thermo transfer printers
- 1.12.75 Other digital printing methods
- 1.12.80 Xerography/electrophotography
- 1.12.85 Xerography sheet-fed production systems
- 1.12.90 Xerography web-fed production systems
- 1.12.95 Xerography multi-function printing systems
- 1.12.100 Digital finishing

1.13 Screen printing machines

- 1.13.10 Screen printing machines – web-fed
- 1.13.15 Screen printing machines – sheet-fed, fully automatic
- 1.13.20 Screen printing machines – sheet-fed, semi-automatic, flat substrates
- 1.13.25 Screen printing machines – sheet-fed, semi-automatic, non-flat substrates
- 1.13.30 Screen printing machines – sheet-fed, 3/4 automatic
- 1.13.35 Screen printing machines – sheet-fed, manually operated
- 1.13.40 Screen printing transfer presses

1.14 Pad / Tampon printing machines

1.15 Printing machines and systems for special printing applications

- 1.15.10 Proofing machines (all printing methods)
- 1.15.15 Ticket printing machines
- 1.15.20 Envelope manufacturing and printing machines
- 1.15.25 Printing machines for tin printing
- 1.15.30 Printing machines for label printing
- 1.15.35 Printing machines for printed electronics
- 1.15.40 Printing machines for printing on non-flat substrates
- 1.15.45 Printing machines for tissue printing
- 1.15.50 Printing machines for security printing
- 1.15.55 Printing technology for Braille
- 1.15.60 Folding box printing and stamping machines automatic (combined)
- 1.15.65 Foil printing machines
- 1.15.70 Postage stamp printing presses
- 1.15.75 Wallpaper making machines
- 1.15.80 Laboratory printing machines
- 1.15.85 Coating machines
- 1.15.90 Machines for label printing
- 1.15.95 Numbering machines
- 1.15.100 Corrugated board printing and converting systems
- 1.15.105 Doming

1.16 Encoding and Identification systems

- 1.16.10 Card manufacturing systems
- 1.16.15 Numbering systems for cards
- 1.16.20 Smart card systems
- 1.16.25 Tamper proof
- 1.16.30 Traceability

2 premedia / multichannel

2.1 Software for multimedia

- 2.1.10 3-D software
- 2.1.15 Animation software

- 2.1.20 Authoring software
- 2.1.25 Multimedia management software
- 2.1.30 Software for the development of internet applications
- 2.1.35 Website creation software
- 2.1.40 Sound editing software (audio, music, ...)
- 2.1.45 Video editing software
- 2.1.50 Visual programming software (Flash, etc.)
- 2.1.55 Campaign management software
- 2.1.60 Software for direct and dialogue marketing
- 2.1.65 Software for sales and marketing planning
- 2.1.70 Software for geo marketing

2.2 Services and equipment

- 2.2.10 Address providers / address directory publishers
- 2.2.15 Addresses for permission-based marketing (email, SMS)
- 2.2.20 Address enhancement (lifestyle data, microgeographic data, etc.)
- 2.2.25 Address services (data acquisition, maintenance, scrubbing, up-dating)
- 2.2.30 Addressing and personalization systems
- 2.2.35 Data mining (identification of patterns in data bases)
- 2.2.40 Data warehousing
- 2.2.45 Use of seed addresses
- 2.2.50 Response management
- 2.2.55 Direct and dialogue marketing agencies
- 2.2.60 Customer retention systems
- 2.2.65 Customer bonus systems
- 2.2.70 Market enquiry / analyses
- 2.2.75 Analysis of advertising effects
- 2.2.80 Image archives and image data bases
- 2.2.85 Data processing services
- 2.2.90 e-commerce for the printing industry

2.3 Online Service

- 2.3.10 Digital Asset Management
- 2.3.15 Media Asset Management
- 2.3.20 Product Information Management
- 2.3.25 Enterprise Marketing Management
- 2.3.30 Marketing Resource Management
- 2.3.35 Brand Management (Corporate Design Publishing)
- 2.3.40 Collaboration Solutions / Groupware
- 2.3.45 Remote Publishing
- 2.3.50 Translation Management
- 2.3.55 Monitoring and Analytics
- 2.3.60 Behavioral Targeting
- 2.3.65 Big Data
- 2.3.70 SEO
- 2.3.75 Hosting
- 2.3.80 Software as a Service
- 2.3.85 Cloud
- 2.3.90 Data security
- 2.3.95 Remote Services

2.4 E-Business Print

- 2.4.10 Onlineshop
- 2.4.15 Onlineprintshop
- 2.4.20 Calculators
- 2.4.25 Web-to-Print
- 2.4.30 Editors
- 2.4.35 E-Commerce
- 2.4.40 M-Commerce
- 2.4.45 Payment Management
- 2.4.50 Online Marketing
- 2.4.55 Search Engine Marketing (SEM)
- 2.4.60 Search Engine Advertising (SEA)
- 2.4.65 Search Engine Optimization (SEO)
- 2.4.70 E-Mail Marketing
- 2.4.75 Affiliate-Shopping / Affiliate Marketing



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2.4.80 E-Procurement
2.4.85 Management Information Systems
2.4.90 (Print)Workflow Management
2.4.95 Logistic Services

2.5 Multichannel-Publishing

2.5.10 Digital Publishing
2.5.15 Web Design
2.5.20 E-Book
2.5.25 Tablet
2.5.30 Mobile Applications
2.5.35 Augmented Reality
2.5.40 Social Media
2.5.45 Additional benefit printing
2.5.50 QR-Code
2.5.55 Printed Electronics
2.5.60 RFID-Systems
2.5.65 NFC-Systems

3

post press / converting / packaging

3.1 Bookbinding machines and print finishing machines

3.1.10 Cutting machines and cutting systems
3.1.15 Loading and unloading devices for high-speed cutting machines and cutting systems
3.1.20 Destackers
3.1.25 Rear table loading
3.1.30 Slitters and cross cutters
3.1.35 Laser cutting machines
3.1.40 Multiple-up cutting machines
3.1.45 Paper sheet counting machines
3.1.50 Pressing stations
3.1.55 Index tabs cutting machines
3.1.60 Jogging tables and automatic jogging machines
3.1.65 High-speed cutting machines
3.1.70 Trimming drums
3.1.75 Pile lifting devices
3.1.80 Folding machines, folding units and accessories
3.1.85 Sheet folding machines
3.1.90 Folding and pasting units
3.1.95 Continuous feeders
3.1.100 Tabletop folders
3.1.105 Zigzag folding devices
3.1.110 Sheet gathering and collating machines
3.1.115 Systems for selective binding
3.1.120 Machines and equipment for book and brochure production
3.1.125 Spine gluing machines
3.1.130 Gluing machines
3.1.135 Book-on-demand systems
3.1.140 Book embossing presses
3.1.145 Book block feeders
3.1.150 Book block lining and headband gluing machines
3.1.155 Book block nipping and smashing presses
3.1.160 Book cover production machines
3.1.165 Book casemaking machines
3.1.170 Book casing-in machines
3.1.175 Book manufacturing lines
3.1.180 Book forming and pressing machines
3.1.185 Book back gluing and back stripping machines
3.1.190 Book back rounding and pressing machines
3.1.195 Book stackers
3.1.200 Book presses
3.1.205 Wire stitchers
3.1.210 Three-knife trimmers
3.1.215 Thread sewing machines
3.1.220 Thread sealing machines

3.1.225 Joint burning-in machines
3.1.230 Nipping presses
3.1.235 Perfect binding machines
3.1.240 Glue feeding systems
3.1.245 Ribbon inserting machines
3.1.250 Plastic book casemaking machines
3.1.255 Gathering and stitching machines
3.1.260 Edge colouring machines and gilt edge machines
3.1.265 Jacketing machines
3.1.270 Splitting saws
3.1.275 Endpapering machines
3.1.280 Book block collating machines
3.1.285 Book jacketing machines
3.1.290 Single-sheet binding machines
3.1.295 Padding presses
3.1.300 Wire binding machines
3.1.305 Adhesive applicating machines and devices
3.1.310 Small adhesive binders
3.1.315 Plastic binding machines
3.1.320 Paper drilling machines
3.1.325 Embossing machines
3.1.330 Embossing presses
3.1.335 Hot foil stamping machines
3.1.340 Foil stamping machines
3.1.345 Engraving machines for embossing plates
3.1.350 Die-cutting machines
3.1.355 Flatbed die-cutting machines
3.1.360 Piston operated stamping machines
3.1.365 Hole punches
3.1.370 Rotary die-cutting machines
3.1.375 Automatic die-cutters
3.1.380 Platen die-cutters
3.1.385 Die cutting formes
3.1.390 Creasing machines
3.1.395 Scoring machines
3.1.400 Slotting machines
3.1.405 Creasing, scoring, slitting and cross cutting machines (combined)
3.1.410 Grooving machines
3.1.415 Perforating machines, perforating devices, perforating tools
3.1.420 Laminating machines
3.1.425 Hole punching, eyeletting and riveting machines
3.1.430 Corner rounding machines
3.1.435 Paging machines
3.1.440 Cardboard shears and cardboard cutting machines
3.1.445 Cross cutters
3.1.450 Mailroom equipment
3.1.455 Bundling machines
3.1.460 Inserting machines
3.1.465 Conveyor systems for newspapers and signatures
3.1.470 Compensating stackers
3.1.475 Palletizing systems
3.1.480 Gatherer stitcher drums
3.1.485 Log feeders
3.1.490 Log stackers
3.1.495 Winding stations for signatures and inserts
3.1.500 Coating machines
3.1.505 Gumming devices and machines
3.1.510 Impregnating machines
3.1.515 Mailing and envelope filling machines
3.1.520 Franking systems
3.1.525 Inline folders
3.1.530 Mailer machines
3.1.535 Folder mailers
3.1.540 Grouping mailers



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3.1.545 Fullfillment
3.1.550 Envelope enclosing and mail preparation
3.1.555 Lettershop services
3.1.560 Mailing creation
3.1.565 Addressing systems for printed products
3.1.570 Continuous stationery processing machines
3.1.575 Packaging machines for printed products
3.1.580 Banding/banderoling shrink wrappers
3.1.585 Shrink film packaging machines
3.1.590 Stretch banding / banderoling machines and tying machines
3.1.595 Wrap around machines
3.1.600 L-sealers
3.1.605 Seal making machines

3.2 converting

3.2.10 Block-making machines
3.2.15 Letter-file making machines
3.2.20 Envelope making machines and shipping bag making machines
3.2.25 Expanding files making machines
3.2.30 CD / DVD sleeve making machines
3.2.35 Window patchers
3.2.40 Calendar block making machines
3.2.45 Cash register roll making machines
3.2.50 Ring binder manufacturing machines
3.2.55 Folder making machines
3.2.60 Stationery manufacturing machines
3.2.65 Exercise book manufacturing machines
3.2.70 Packaging machines for stationery
3.2.75 Thread knotting machines for tags
3.2.80 Size cutting machines and systems
3.2.85 Slitters and cross cutters
3.2.90 Reel slitting and rewinding machines
3.2.95 Stripping machines
3.2.100 Cup making machines
3.2.105 Bag and pouch making machines
3.2.110 Bending machines for board
3.2.115 Beer mat making machines
3.2.120 Machines for can making (paper and board)
3.2.125 Ice cream cone wrapping machines
3.2.130 Fold gluing machines
3.2.135 Folding box packing machines
3.2.140 Folding box stitching machines
3.2.145 Folding carton prefeeders
3.2.150 Flexo folder gluers
3.2.155 Folding box lining machines
3.2.160 Tube slicing and dividing machines
3.2.165 Tube cutting and winding machines
3.2.170 Edgeboard protector manufacturing machines
3.2.175 Circular shears
3.2.180 Cardboard plate making machines
3.2.185 Presses, cardboard (inline)
3.2.190 Sack making machines
3.2.195 Box lining and covering machines
3.2.200 Box making machines
3.2.205 Stacking devices for folding carton blanks
3.2.210 Deep drawing machines for paperboard
3.2.215 Tray making machines
3.2.220 Corrugated board making machines
3.2.225 Corrugated board converting machines
3.2.230 Corrugated board sealing units
3.2.235 Sanitary towel making machines
3.2.240 Wet wipes making machines
3.2.245 Facial tissue making machines
3.2.250 Paper towel making machines
3.2.255 Paper napkin making machines
3.2.260 Paper handkerchief making machines
3.2.265 Toilet paper making machines

3.2.270 Nappy making machines
3.2.275 Cotton wool cutting machines
3.2.280 Embossing form manufacturing
3.2.285 Paper converting equipment for technical paper products
3.2.290 Machines for the production of die-cutting formes
3.2.295 Foil converting machines
3.2.300 Metall foil converting machines
3.2.305 Textile converting machines

3.3

finishing

3.3.10 Label and bar code printers
3.3.15 Bar code software and scanners
3.3.20 Matrix code software and scanners
3.3.25 Matrix code systems
3.3.30 Bar code systems
3.3.35 Label processing machines
3.3.40 Banding/banderoling machines
3.3.45 Label cutting machines
3.3.50 Label die-cutting machines
3.3.55 Labelling machines for printed products

4

future technologies

4.1

Printed electronics

4.1.10 Materials for organic and printed electronics
4.1.15 Machines and equipment for organic and printed electronics
4.1.20 Printed Functionalities
4.1.25 Inspection and test systems

4.2

Applications for organic and printed electronics

4.2.10 Flexible and OLED displays
4.2.15 Printed sensors
4.2.20 Smart textiles
4.2.25 Printed loudspeakers
4.2.30 OLED lighting
4.2.35 Electroluminescence lighting
4.2.40 Smart Objects
4.2.45 Organic photovoltaics
4.2.50 Printed antennae
4.2.55 Printed RFID
4.2.60 Printed memory
4.2.65 Printed batteries
4.2.70 Organic field-effect transistor
4.2.75 Other applications for organic and printed electronics

4.3

Applications for nanotechnology

4.3.10 MICR Inks for inkjet printing
4.3.15 Security printing using nanoparticle inks and fluids
4.3.20 Biomarkers for brand protection

4.4

Industry 4.0

4.4.10 Assistance systems
4.4.15 Autonomous printing
4.4.20 Automation solutions
4.4.25 Big Data
4.4.30 Cloud-based business models
4.4.35 Cloud-based solutions
4.4.40 Cyber security in networked production systems
4.4.45 Data mining
4.4.50 Data analytics
4.4.55 Data-based services
4.4.60 Digital platforms
4.4.65 Real-time control
4.4.70 Deep Learning
4.4.75 Mobile devices and apps
4.4.80 Process monitoring and control



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- 4.4.85 Smart factory
- 4.4.90 Smart Products
- 4.4.95 Smart Devices
- 4.4.100 Supply chain management
- 4.4.105 Networking solutions and standards
- 4.4.110 Virtualization and simulation
- 4.4.115 Predictive maintenance
- 4.4.120 Condition monitoring
- 4.4.125 Machine Vision Solutions

4.5 3D-print

- 4.5.10 SLS (selective laser sintering)
- 4.5.15 LBM (laser beam melting)
- 4.5.20 EBM (electron beam melting)
- 4.5.25 BJ (binder jetting)
- 4.5.30 FDM (fused deposition modeling)
- 4.5.35 LLM (laminated layer modeling)
- 4.5.40 PJ (polyjet modeling)
- 4.5.45 STL (stereolithography)
- 4.5.50 Other technologies
- 4.5.55 3D-scanner
- 4.5.60 Materials for 3D-print

4.6 Inspection and test systems

4.7 Research and development

5

materials

5.1 Paper, cardboard, board

- 5.1.10 Accounting paper – web printing paper
- 5.1.15 Office paper & board – web printing paper
- 5.1.20 Chromo board – web printing paper
- 5.1.25 India and bible paper – web printing paper
- 5.1.30 Wood-free paper
- 5.1.35 Creative paper – web printing paper
- 5.1.40 Offset printing paper & offset printing board – web printing paper
- 5.1.45 Recycled paper – web printing paper
- 5.1.50 Thermo-sensitive paper
- 5.1.55 Poster paper – web printing paper
- 5.1.60 Carbonless copy paper – web printing paper
- 5.1.65 Playing card board – web printing paper
- 5.1.70 Magazine and catalogue printing paper, coated
- 5.1.75 Magazine and catalogue printing paper, uncoated
- 5.1.80 Newsprint paper
- 5.1.85 Double-coated
- 5.1.90 Accounting paper – cut-size paper
- 5.1.95 Office paper & board – cut-size paper
- 5.1.100 Hand-made paper
- 5.1.105 Chromo board – cut-size paper
- 5.1.110 India and bible paper – cut-size paper
- 5.1.115 Book binding materials
- 5.1.120 One-sided coated paper
- 5.1.125 Label paper
- 5.1.130 Coloured / dyed paper
- 5.1.135 Graphic board, virgin fibres
- 5.1.140 Graphic board, recycled fibres
- 5.1.145 Index board
- 5.1.150 Creative paper – cut-size paper
- 5.1.155 Map/chart paper
- 5.1.160 Metallized paper
- 5.1.165 Offset printing paper & offset printing board – cut-size paper
- 5.1.170 Paper for digital printing
- 5.1.175 Poster paper – cut-size paper
- 5.1.180 Preprint paper
- 5.1.185 Recycled paper

- 5.1.190 Writing paper, fine paper and fine board
- 5.1.195 Carbonless copy paper – cut-size paper
- 5.1.200 Self-adhesive paper
- 5.1.205 Playing card board – cut-size paper
- 5.1.210 Synthetic paper
- 5.1.215 Transparent paper
- 5.1.220 Cover board and fancy board
- 5.1.225 Uncoated paper, wood-free
- 5.1.230 Book-end paper, end-leaf paper

5.2 Paper, cardboard and board for packaging

- 5.2.10 Core board
- 5.2.15 Machine-made board
- 5.2.20 Base paper for corrugated board
- 5.2.25 Packaging paper
- 5.2.30 Wet machine board / mill board

5.3 Paper, cardboard and board for technical and special applications

- 5.3.10 Tissue
- 5.3.15 Other paper and board grades for technical and special applications
- 5.3.20 Decor paper
- 5.3.25 Wet strength paper
- 5.3.30 Fungicidal paper
- 5.3.35 Shooting target board
- 5.3.40 Flame resistant & flame retardant paper
- 5.3.45 Base paper for photo paper
- 5.3.50 Security paper
- 5.3.55 Wallpaper bases

5.4 Films / foils

- 5.4.10 Decorative foils
- 5.4.15 Printing films
- 5.4.20 Foils for cold foil transfer
- 5.4.25 Foils for large-format printing
- 5.4.30 Foils, polyester (PET)
- 5.4.35 Foils, polyethylene (PE)
- 5.4.40 Foils, polypropylene (PP)
- 5.4.45 Foils, polystyrene (PS)
- 5.4.50 Foils, polyvinyl chloride (PVC)
- 5.4.55 Hot stamping foils, stamping foils
- 5.4.60 Holographic foils
- 5.4.65 Laminating foils
- 5.4.70 Adhesive foils
- 5.4.75 Lenticular foils
- 5.4.80 Media for Large format printing
- 5.4.85 Metal foils, aluminium foils
- 5.4.90 Plotter foils
- 5.4.95 Self-adhesive foils
- 5.4.100 Special foils for outdoor applications
- 5.4.105 Thermal transfer foils
- 5.4.110 Transfer foils
- 5.4.115 Self-adhesive vinyl

5.5 Other substrates

- 5.5.10 Banner material (mesh fabric)
- 5.5.15 Glass
- 5.5.20 Ceramics
- 5.5.25 Metal
- 5.5.30 Metallized synthetic materials
- 5.5.35 Polyester / polycarbonate
- 5.5.40 PVC hard foam board
- 5.5.45 Textiles

5.6 Ink, varnish, toner

- 5.6.10 Printing inks for sheet-fed offset
- 5.6.15 Printing inks for sheet-fed offset – conventional
- 5.6.20 Printing inks for sheet-fed offset – UV



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- 5.6.25 Printing inks for sheet-fed offset – waterless
- 5.6.30 Special printing inks for sheet-fed offset
- 5.6.35 Printing inks for web-offset
- 5.6.40 Printing inks for web-offset – conventional
- 5.6.45 Printing inks for web-offset – UV
- 5.6.50 Printing inks for web-offset – waterless
- 5.6.55 Special printing inks for web-offset
- 5.6.60 Additives & concentrates
- 5.6.65 Printing ink pigments and ink pastes
- 5.6.70 Flexographic printing inks – Water-based
- 5.6.75 Flexographic printing inks – Solvent-based
- 5.6.80 Flexographic printing inks – UV
- 5.6.85 Gravure printing inks – Water-based
- 5.6.90 Gravure printing inks – Solvent-based
- 5.6.95 Screen printing inks – Water-based
- 5.6.100 Screen printing inks – Solvent-based
- 5.6.105 Screen printing inks – UV
- 5.6.110 Special printing inks for screen printing
- 5.6.115 Digital inks
- 5.6.120 Digital inks – Water-based
- 5.6.125 Digital inks – Solvent-based
- 5.6.130 Digital inks – Textiles
- 5.6.135 Digital inks – UV curable
- 5.6.140 Digital inks – conductive
- 5.6.145 Digital inks – latex based
- 5.6.150 Digital inks – for industrial print applications
- 5.6.155 Inkjet inks – Dye inks
- 5.6.160 Inkjet inks – Pigment inks
- 5.6.165 Inkjet inks – solid inks
- 5.6.170 Inks for pad/tampon printing
- 5.6.175 Oil-based overprint varnishes
- 5.6.180 Dispersion varnishes
- 5.6.185 UV curing varnishes, UV varnishes
- 5.6.190 Special printing varnishes
- 5.6.195 Fragrance varnishes
- 5.7 Chemicals and other additives**
- 5.7.10 Chemicals and products for prepress production phases
- 5.7.15 Chemical mixing & replenishing systems
- 5.7.20 Chemicals and materials for screen printing
- 5.7.25 Chemicals for embossing forme manufacturing
- 5.7.30 Anti-setoff powder
- 5.7.35 Dampening solutions and additives
- 5.7.40 Special consumables for printing – others
- 5.7.45 Gravure printing consumables
- 5.7.50 Roller washing and maintenance products
- 5.7.55 Blanket washing and rejuvenating solutions
- 5.7.60 Photographic materials
- 5.7.65 Anti-Marking solutions
- 5.8 Printing unit interior**
- 5.8.10 Formes for offset printing
- 5.8.15 Formes for letterpress printing
- 5.8.20 Mounting foils
- 5.8.25 Underlays, underlay sheets and underlay materials
- 5.8.30 Formes for flexographic printing
- 5.8.35 Sleeves for flexographic printing
- 5.8.40 Coating plates and coating foils
- 5.8.45 Formes for gravure printing
- 5.8.50 Screen tensioning frames and fabrics for screen printing
- 5.8.55 Accessories for printing plate production
- 5.8.60 Embossing formes
- 5.8.65 Printing blankets, packing materials and sleeves
- 5.8.70 Roller coverings
- 5.9 Adhesives and glues**
- 5.9.10 Glutine glues
- 5.9.15 Dextrine glues

- 5.9.20 Hotmelts (EVA, PA, PO)
- 5.9.25 Hot-melt pressure-sensitive adhesives (HMPSA)
- 5.9.30 Polyurethane (PUR) adhesives
- 5.9.35 Dispersion adhesives
- 5.9.40 Solvent-based adhesives
- 5.9.45 UV adhesives
- 5.9.50 Conductive silver adhesives
- 5.9.55 Additives for glues
- 5.10 Bookbinding materials**
- 5.10.10 Fabrics and fibres
- 5.10.15 Stitching wires and staples
- 5.10.20 Cover materials
- 5.10.25 Book cover paper
- 5.10.30 Carton / board
- 5.10.35 Backlining paper
- 5.10.40 Adhesive tapes and adhesive foils/films
- 5.10.45 Rivets and eyelets
- 5.10.50 Filing strips and plastic filing pockets
- 5.10.55 Cutting rules, punching rules, scoring rules, die cutting rules and die cutting metal plates
- 5.10.60 Cutting sticks
- 5.10.65 Adhesive dots
- 5.11 Embossing and laminating materials**
- 5.12 Conveyor belts and tapes**
- 6 equipment / services / infrastructure**
- 6.1 Peripheral equipment**
- 6.1.10 Unwinding units
- 6.1.15 Rewinding units
- 6.1.20 Web guides
- 6.1.25 Web inspection and control systems
- 6.1.30 Supplement inserting machines
- 6.1.35 Block stackers
- 6.1.40 Sheet stackers, destackers
- 6.1.45 Sheet feeders, layboys, sheet deliveries
- 6.1.50 Envelope feeders
- 6.1.55 Powdering devices
- 6.1.60 Compressed air supply (at the machine)
- 6.1.65 Imprinting units
- 6.1.70 Destackers
- 6.1.75 Dust removing equipment for printing presses
- 6.1.80 Folders for web-fed presses
- 6.1.85 Folding and pasting units
- 6.1.90 Ink / processing systems
- 6.1.95 Colour measurement and control systems
- 6.1.100 Ink formulating systems
- 6.1.105 Ink supply systems
- 6.1.110 Fountain solution management devices / Inking system temperature control systems
- 6.1.115 Dampening systems, spray dampening systems
- 6.1.120 Blanket washing equipment, roller washing equipment
- 6.1.125 Equipment for the pre-treatment of substrates
- 6.1.130 Coating devices
- 6.1.135 Static eliminators
- 6.1.140 Web cleaning systems
- 6.1.145 Charging systems, discharging systems, Ionizers
- 6.1.150 Electrostatic auxiliary systems
- 6.1.155 Web tacking systems
- 6.1.160 Flame pre-treatment systems and plasma pre-treatment systems
- 6.1.165 Coating module
- 6.1.170 Coating units
- 6.1.175 Coating supply and coating preparation systems



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6.1.180 Slitting and cross cutting machines
6.1.185 Control console technology
6.1.190 Guide roller cleaning systems
6.1.195 Numbering units and numbering equipment
6.1.200 Paper web humidifying systems
6.1.205 Quality inspection systems
6.1.210 Edge trim extraction units
6.1.215 Register control systems
6.1.220 Reel slitters, inline
6.1.225 Reel splicers, autopasters
6.1.230 Blade grinding machines
6.1.235 Signature feeders, signature deliveries, signature storage units
6.1.240 Textile printing carousels
6.1.245 Transport systems for rollers and cylinders
6.1.250 Dryers
6.1.255 E-Beam dryers
6.1.260 High-frequency dryers
6.1.265 IR/dry air dryers, IR/hot air dryers
6.1.270 IR dryers, infrared dryers
6.1.275 Microwave dryers
6.1.280 Gas dryers
6.1.285 Drying cabinets
6.1.290 UV dryers (conventional and LED)
6.1.295 Convection dryer
6.1.300 Viscosity control devices
6.1.305 Roller finishing machines
6.1.310 Roller cleaning systems
6.1.315 Roller washing machines
6.1.320 Washing equipment for machine components
6.1.325 Winders
6.1.330 Web monitoring systems
6.1.335 Metering rollers
6.1.340 Inking rollers
6.1.345 Damping rollers
6.1.350 Chill rollers, web-fed machines
6.1.355 Coating rollers
6.1.360 Impression cylinders
6.1.365 Anilox rollers
6.1.370 Sleeves
6.1.375 Gravure cylinders
6.1.380 Winding shafts
6.1.385 Doctor blades
6.1.390 Expanding shafts and couplings
6.1.395 Inkjet system integration
6.1.400 Inkjet system components
6.1.405 Printheads
6.1.410 Bend-tester

6.2 Measuring and testing engineering
6.2.10 Distance measuring instruments
6.2.15 Alcohol measuring instruments, IPA measuring instruments
6.2.20 Etch depth measuring devices
6.2.25 Packing gauges
6.2.30 Densitometers
6.2.35 Colour viewing lamps
6.2.40 Humidity measuring instruments, hygrometers
6.2.45 Gas warning devices
6.2.50 Hardness measuring instruments
6.2.55 Carbonating test devices
6.2.60 Measuring/scanning tables for colour charts and printed sheets
6.2.65 Paper testing devices
6.2.70 Foil testing devices
6.2.75 Register measuring devices
6.2.80 Pressure measuring devices
6.2.85 Test printing devices (also see Laboratory printing devices)
6.2.90 Anilox roll measurement devices
6.2.95 Spectrophotometers

6.2.100 UV curing testing devices
6.2.105 UV measuring devices / light measuring devices
6.2.110 Scales, paper scales
6.2.115 Ink rub testing devices
6.2.120 Print control strips, ink control bars
6.2.125 Measuring bars
6.2.130 Measuring wedges, control wedges
6.2.135 Vernier scales, measuring scales
6.2.140 Test formes, test printing formes
6.2.145 Spare parts, wearing parts and lubricants
6.2.150 Control, feed-back control and drive technology
6.2.155 Cameras
6.2.160 Lenses

6.3 Knives & grinding machines

6.4 Ink / processing systems

6.5 Light sources and Colour matching systems
6.5.10 Colour matching desks
6.5.15 Image viewing devices
6.5.20 Colour viewing devices
6.5.25 Colour cards
6.5.30 Colour systems and colour charts
6.5.35 Standard light sources
6.5.40 Light sources for reproduction techniques

6.6 Input devices
6.6.10 Digital cameras & accessories
6.6.15 Graphics tablets
6.6.20 Scanners

6.7 Output devices
6.7.10 Monitors, with calibration function
6.7.15 CD / DVD systems
6.7.20 Digital proofing systems
6.7.25 Soft proofing systems
6.7.30 Hard copy printers
6.7.35 Cutting plotters
6.7.40 Laser cutting systems

6.8 Industrial associations and professional organizations

6.9 Basic and further training

6.10 Press and Media
6.10.10 Trade press, trade magazines
6.10.15 Trade directories
6.10.20 Trade and technical literature, technical dictionaries

6.11 Print services providers

6.12 Used machinery dealers

6.13 Certification, testing and standardization

6.14 Machine transportation and machine mounting

6.15 Archiving and documentation

6.16 Consultancy services
6.16.10 Business consultancy
6.16.15 Consultancy services for subsidies

6.17 Financial services & insurance services providers

6.18 Research and development

6.19 Infrastructure
6.19.10 Air conditioning
6.19.15 Air humidifiers
6.19.20 Air drying devices
6.19.25 Paper conditioning
6.19.30 Heat recovery
6.19.35 Fresh water treatment plants for printing houses

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- 6.19.40 Ventilation systems (central compressed air supply)
- 6.19.45 Exhaust air purification systems
- 6.19.50 Extraction systems for solid, liquid and gaseous substances
- 6.19.55 Ventilation systems
- 6.19.60 Powder extraction systems
- 6.19.65 Dust extraction systems
- 6.19.70 Waste water treatment plants
- 6.19.75 Waste paper disposal plants
- 6.19.80 Baling presses
- 6.19.85 Solvent disposal plants
- 6.19.90 Solvent recovery plants
- 6.19.95 Conveyor and transportation systems
(no floor conveyors)
- 6.19.100 Palletizers
- 6.19.105 Reel unpacking and splicing stations
- 6.19.110 Reel loading systems
- 6.19.115 Reel transport systems
- 6.19.120 Pile turners
- 6.19.125 Sound insulation for machines and rooms
- 6.19.130 Other infrastructure
- 6.20 Network systems**