

The exhibition programme includes:

1. Print Production
2. Packaging Production & Paper Converting
3. Industrial Print Applications
4. Materials
5. Print Creative & Solution World
6. Automation, Robotics, Digitalization & AI
7. Sustainability & Regulations
8. Services



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**Düsseldorf**  
**09/05 – 17/05/28**

## 1

### Print Production

#### 1.1

##### Prepress

##### 1.1.1

##### Publishing software

- 1.1.1.10 Image processing software
- 1.1.1.15 Database publishing
- 1.1.1.20 Graphics software
- 1.1.1.25 Layout software
- 1.1.1.30 OCR software
- 1.1.1.35 Personalization software
- 1.1.1.40 Editing systems
- 1.1.1.45 Fonts
- 1.1.1.50 Font management software
- 1.1.1.55 Software for catalogue production
- 1.1.1.60 Software for magazine production
- 1.1.1.65 Software for technical documentations
- 1.1.1.70 XML, SGML based software

##### 1.1.2

##### Workflow and data handling software

- 1.1.2.10 Database systems
- 1.1.2.15 Image databases
- 1.1.2.20 Content management systems
- 1.1.2.25 Data checking software
- 1.1.2.30 (Print)Workflow Management Systems
- 1.1.2.35 Archiving software
- 1.1.2.40 Image optimization software
- 1.1.2.45 Sheet assembly software
- 1.1.2.50 CIP4 applications
- 1.1.2.55 Color management software
- 1.1.2.60 Remote data transmission
- 1.1.2.65 JDF applications
- 1.1.2.70 PDF software
- 1.1.2.75 Proofing software
- 1.1.2.80 Screening technologies
- 1.1.2.85 RIP systems
- 1.1.2.90 Ink key presetting systems
- 1.1.2.95 Web-to-print solutions

##### 1.1.3

##### Software for administration, communication & distribution

- 1.1.3.10 Job costing and project management software
- 1.1.3.15 Production planning and control software
- 1.1.3.20 ERP systems
- 1.1.3.25 Management information systems
- 1.1.3.30 Production and machine data processing
- 1.1.3.35 Software for Customer Relationship Management
- 1.1.3.40 Analytical CRM / data mining
- 1.1.3.45 Database marketing
- 1.1.3.50 Sales Force Automation
- 1.1.3.55 Software for call centres
- 1.1.3.60 Software for service management
- 1.1.3.65 Helpdesk software
- 1.1.3.70 Software for customer services
- 1.1.3.75 Services planning software
- 1.1.3.80 Software for remote maintenance
- 1.1.3.85 Postage optimization software
- 1.1.3.90 Quality management software

##### 1.1.4

##### Software for packaging prepress

- 1.1.4.10 Software for production preparation
- 1.1.4.15 Software for packaging design

##### 1.1.5

##### Equipment & systems for printing forme production

- 1.1.5.10 Printing forme producers
- 1.1.5.15 Printing forme production for offset printing
- 1.1.5.20 Computer to plate systems for offset printing
- 1.1.5.25 Computer to film systems / Imagesetters
- 1.1.5.30 Bending machines for printing plates and plate punching equipment
- 1.1.5.35 Development systems (film & printing plate)
- 1.1.5.40 Printing plate baking systems
- 1.1.5.45 Copying equipment for offset plate production
- 1.1.5.50 Printing forme production for flexographic printing
- 1.1.5.55 Copying equipment for flexo plate printing
- 1.1.5.60 Washing-out units for flexographic printing
- 1.1.5.65 Computer to plate systems for flexo plates
- 1.1.5.70 Mask cutting systems
- 1.1.5.75 Printing forme production for screen printing
- 1.1.5.80 Copying devices for screen printing forme production
- 1.1.5.85 Computer to screen systems
- 1.1.5.90 Screen washing units and stripping units
- 1.1.5.95 Screen coating units
- 1.1.5.100 Screen tensioning units
- 1.1.5.105 Braille printing technology
- 1.1.5.110 Printing forme production for gravure printing
- 1.1.5.115 Etching devices for gravure printing
- 1.1.5.120 Computer-to-gravure cylinders
- 1.1.5.125 Electroplating for gravure cylinders
- 1.1.5.130 Cylinder engraving machines for gravure printing
- 1.1.5.135 Cylinder grinding machines
- 1.1.5.140 Mounting and registering systems

#### 1.2

##### Print

##### 1.2.1

##### Sheet-fed offset printing machines

- 1.2.1.10 Sheet-fed offset printing machines – direct imaging
- 1.2.1.15 Sheet-fed offset printing machines –  
Inline metallization, cold transfer
- 1.2.1.20 Sheet-fed offset printing machines – short inking unit
- 1.2.1.25 Sheet-fed offset printing machines with perfecting capability
- 1.2.1.30 Sheet-fed offset printing machines without perfecting capability
- 1.2.1.35 Sheet-fed offset printing machines UV
- 1.2.1.40 Sheet-fed offset printing machines – waterless
- 1.2.1.45 Continuous pile printing machines

##### 1.2.2

##### Web-fed offset printing machines

- 1.2.2.10 Commercial web offset machines for continuous printing
- 1.2.2.15 Continuous stationery printing machines
- 1.2.2.20 Web-fed printing machines – heatset
- 1.2.2.25 Web-fed printing machines – coldset
- 1.2.2.30 Web-fed printing machines – flexible substrates

##### 1.2.3

##### Flexographic printing machines

- 1.2.3.10 Sheet-fed flexographic printing machines
- 1.2.3.15 Wide-web flexographic printing machines


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1.2.3.20 Narrow-web flexographic printing machines

**1.2.4 Letterpress machines**

1.2.4.10 Letterpress printing machines – web-fed  
1.2.4.15 Letterpress printing machines – sheet-fed  
1.2.4.20 Letterpress platens

**1.2.5 Gravure printing machines**

1.2.5.10 Web-fed gravure printing machines  
1.2.5.15 Sheet-fed gravure printing machines

**1.2.6 Hybrid printing machines (combination of methods)**

1.2.6.10 Sheet-fed hybrid printing machines  
1.2.6.15 Web-fed hybrid printing machines

**1.2.7 Digital printing machines and digital printing systems**

1.2.7.10 Inkjet  
1.2.7.15 Web-fed inkjet printing systems  
1.2.7.20 Sheet-fed inkjet printing systems  
1.2.7.25 Inkjet imprinting systems  
1.2.7.30 Inkjet photo printers  
1.2.7.35 Inkjet plotters  
1.2.7.40 Inkjet textile printing  
1.2.7.45 Inkjet Large format printing  
1.2.7.50 Inkjet – coating  
1.2.7.55 Inkjet – direct to shape  
1.2.7.60 Inkjet varnishing  
1.2.7.65 Inkjet foiling  
1.2.7.70 Thermo transfer printers  
1.2.7.75 Other digital printing methods  
1.2.7.80 Xerography/electrophotography  
1.2.7.85 Xerography sheet-fed production systems  
1.2.7.90 Xerography web-fed production systems  
1.2.7.95 Xerography multi-function printing systems  
1.2.7.100 Digital embellishment

**1.2.8 Screen printing machines**

1.2.8.10 Screen printing machines – web-fed  
1.2.8.15 Screen printing machines – sheet-fed, fully automatic  
1.2.8.20 Screen printing machines – sheet-fed, semi-automatic, flat substrates  
1.2.8.25 Screen printing machines – sheet-fed, semi-automatic, non-flat substrates  
1.2.8.30 Screen printing machines – sheet-fed, 3/4 automatic  
1.2.8.35 Screen printing machines – sheet-fed, manually operated  
1.2.8.40 Screen printing transfer presses

**1.2.9 Pad / Tampon printing machines**
**1.2.10 Printing machines and systems for special printing applications**

1.2.10.10 Proofing machines (all printing methods)  
1.2.10.15 Ticket printing machines  
1.2.10.20 Envelope manufacturing and printing machines  
1.2.10.25 Printing machines for metal printing  
1.2.10.30 Printing machines for label printing  
1.2.10.35 Printing machines for printed electronics  
1.2.10.40 Printing machines for printing on non-flat substrates  
1.2.10.45 Printing machines for tissue printing  
1.2.10.50 Printing machines for security printing  
1.2.10.55 Printing technology for Braille  
1.2.10.60 Folding box printing and stamping machines automatic (combined)

1.2.10.65 Foil printing machines  
1.2.10.70 Postage stamp printing presses  
1.2.10.75 Wallpaper making machines  
1.2.10.80 Laboratory printing machines  
1.2.10.85 Coating machines  
1.2.10.90 Machines for label printing  
1.2.10.95 Numbering machines

**1.3 Bookbinding machines and print finishing machines**

1.3.10 Cutting machines and cutting systems  
1.3.15 Loading and unloading devices for high-speed cutting machines and cutting systems  
1.3.20 Destackers  
1.3.25 Rear table loading  
1.3.30 Slitters and cross cutters  
1.3.35 Laser cutting machines  
1.3.40 Multiple-up cutting machines  
1.3.45 Paper sheet counting machines  
1.3.50 Pressing stations  
1.3.55 Index tabs cutting machines  
1.3.60 Jogging tables and automatic jogging machines  
1.3.65 High-speed cutting machines  
1.3.70 Trimming drums  
1.3.75 Pile lifting devices  
1.3.80 Folding machines, folding units and accessories  
1.3.85 Sheet folding machines  
1.3.90 Folding and pasting units  
1.3.95 Continuous feeders  
1.3.100 Tabletop folders  
1.3.105 Zigzag folding devices  
1.3.110 Sheet gathering and collating machines  
1.3.115 Systems for selective binding  
1.3.120 Machines and equipment for book and brochure production  
1.3.125 Spine gluing machines  
1.3.130 Gluing machines  
1.3.135 Book-on-demand systems  
1.3.140 Book embossing presses  
1.3.145 Book block feeders  
1.3.150 Book block lining and headband gluing machines  
1.3.155 Book block nipping and smashing presses  
1.3.160 Book cover production machines  
1.3.165 Book casemaking machines  
1.3.170 Book casing-in machines  
1.3.175 Book manufacturing lines  
1.3.180 Book forming and pressing machines  
1.3.185 Book back gluing and back stripping machines  
1.3.190 Book back rounding and pressing machines  
1.3.195 Book stackers  
1.3.200 Book presses  
1.3.205 Wire stitchers  
1.3.210 Three-knife trimmers  
1.3.215 Thread sewing machines  
1.3.220 Thread sealing machines  
1.3.225 Joint burning-in machines  
1.3.230 Nipping presses  
1.3.235 Perfect binding machines  
1.3.240 Glue feeding systems  
1.3.245 Ribbon inserting machines  
1.3.250 Plastic book casemaking machines  
1.3.255 Gathering and stitching machines  
1.3.260 Edge colouring machines and gilt edge machines  
1.3.265 Jacketing machines


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1.3.270	Splitting saws	1.3.580	Banding/banderoling shrink wrappers
1.3.275	Endpapering machines	1.3.585	Shrink film packaging machines
1.3.280	Book block collating machines	1.3.590	Stretch banding / banderoling machines and tying machines
1.3.285	Book jacketing machines	1.3.595	Wrap around machines
1.3.290	Single-sheet binding machines	1.3.600	L-sealers
1.3.295	Padding presses	1.3.605	Seal making machines
1.3.300	Wire binding machines	1.3.610	creasing and folding machine (combined)
1.3.305	Adhesive applicating machines and devices	1.3.615	Label and bar code printers
1.3.310	Small adhesive binders	1.3.620	Bar code software and scanners
1.3.315	Plastic binding machines	1.3.625	Matrix code software and scanners
1.3.320	Paper drilling machines	1.3.630	Matrix code systems
1.3.325	Embossing machines	1.3.635	Bar code systems
1.3.330	Embossing presses	1.3.640	Label processing machines
1.3.335	Foil stamping machines / Hot foil stamping machines	1.3.645	Banding/banderoling machines
1.3.340	Cold transfer units	1.3.650	Label cutting machines
1.3.345	Engraving machines for embossing plates	1.3.655	Label die-cutting machines
1.3.350	Die-cutting machines	1.3.660	Labelling machines for printed products
1.3.355	Flatbed die-cutting machines		
1.3.360	Piston operated stamping machines		
1.3.365	Hole punches	<b>1.4</b>	<b>Components, Peripheral equipment &amp; devices</b>
1.3.370	Rotary die-cutting machines	1.4.10	Unwinding units
1.3.375	Automatic die-cutters	1.4.15	Rewinding units
1.3.380	Platen die-cutters	1.4.20	Web guides
1.3.385	Die cutting formes	1.4.25	Web inspection and control systems
1.3.390	Creasing machines	1.4.30	Supplement inserting machines
1.3.395	Scoring machines	1.4.35	Block stackers
1.3.400	Slotting machines	1.4.40	Sheet stackers, destackers
1.3.405	Creasing, scoring, slitting and cross cutting machines (combined)	1.4.45	Sheet feeders, layboys, sheet deliveries
1.3.410	Grooving machines	1.4.50	Envelope feeders
1.3.415	Perforating machines, perforating devices, perforating tools	1.4.55	Powdering devices
1.3.420	Laminating machines	1.4.60	Compressed air supply (at the machine)
1.3.425	Hole punching, eyeletting and riveting machines	1.4.65	Imprinting units
1.3.430	Corner rounding machines	1.4.70	Destackers
1.3.435	Paging machines	1.4.75	Dust removing equipment for printing presses
1.3.440	Cardboard shears and cardboard cutting machines	1.4.80	Folders for web-fed presses
1.3.445	Cross cutters	1.4.85	Folding and pasting units
1.3.450	Mailroom equipment	1.4.90	Ink / processing systems
1.3.455	Bundling machines	1.4.95	Colour measurement and control systems
1.3.460	Inserting machines (mailing room)	1.4.100	Ink formulating systems
1.3.465	Conveyor systems for newspapers and signatures	1.4.105	Ink supply systems
1.3.470	Compensating stackers	1.4.110	Fountain solution management devices / Inking system temperature control systems
1.3.475	Palletizing systems	1.4.115	Dampening systems, spray dampening systems
1.3.480	Gatherer stitcher drums	1.4.120	Blanket washing equipment, roller washing equipment
1.3.485	Log feeders	1.4.125	Equipment for the pre-treatment of substrates
1.3.490	Log stackers	1.4.130	Coating devices
1.3.495	Winding stations for signatures and inserts	1.4.135	Static eliminators
1.3.500	Coating machines	1.4.140	Web cleaning systems
1.3.505	Gumming devices and machines	1.4.145	Charging systems, discharging systems, Ionizers
1.3.510	Impregnating machines	1.4.150	Electrostatic auxiliary systems
1.3.515	Mailing and inserting machines	1.4.155	Web tacking systems
1.3.520	Franking systems	1.4.160	Flame pre-treatment systems, plasma pre-treatment systems, excimer pre-treatment systems
1.3.525	Inline folders		Coating module
1.3.530	Mailer machines	1.4.165	Coating units
1.3.535	Folder mailers	1.4.170	Coating supply and coating preparation systems
1.3.540	Grouping mailers	1.4.175	Slitting and cross cutting machines
1.3.545	Fulfillment	1.4.180	Control console technologies
1.3.550	Inserting and mail preparation	1.4.185	Guide roller cleaning systems
1.3.555	Lettershop services	1.4.190	Numbering units and numbering equipment
1.3.560	Mailing production	1.4.195	Paper web humidifying systems
1.3.565	Addressing systems for printed products	1.4.200	Quality inspection systems
1.3.570	Continuous stationery processing machines	1.4.205	Edge trim extraction units
1.3.575	Packaging machines for printed products	1.4.210	


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1.4.215 Register control systems  
 1.4.220 Reel slitters, inline  
 1.4.225 Reel splicers, autopasters  
 1.4.230 Blade grinding machines  
 1.4.235 Signature feeders, signature deliveries, signature storage units  
 1.4.240 Textile printing carousels  
 1.4.245 Transport systems for rollers and cylinders  
 1.4.250 Dryers  
 1.4.255 E-Beam dryers  
 1.4.260 High-frequency dryers  
 1.4.265 IR/dry air dryers, IR/hot air dryers  
 1.4.270 IR dryers, infrared dryers  
 1.4.275 Microwave dryers  
 1.4.280 Gas dryers  
 1.4.285 Drying cabinets  
 1.4.290 UV dryers (conventional and LED)  
 1.4.295 Convection dryer  
 1.4.300 Viscosity control devices  
 1.4.305 Roller finishing machines  
 1.4.310 Roller cleaning systems  
 1.4.315 Roller washing machines  
 1.4.320 Washing equipment for machine components  
 1.4.325 Winders  
 1.4.330 Web monitoring systems  
 1.4.335 Metering rollers  
 1.4.340 Inking rollers  
 1.4.345 Damping rollers  
 1.4.350 Chill rollers, web-fed machines  
 1.4.355 Coating rollers  
 1.4.360 Impression cylinders  
 1.4.365 Anilox rollers  
 1.4.370 Sleeves  
 1.4.375 Gravure cylinders  
 1.4.380 Winding shafts  
 1.4.385 Doctor blades  
 1.4.390 Expanding shafts and couplings  
 1.4.395 Inkjet system integration  
 1.4.400 Inkjet system components  
 1.4.405 Inkjet heads  
 1.4.410 Bend-tester

**1.5 Measuring and testing engineering**

1.5.10 Distance measuring instruments  
 1.5.15 Alcohol measuring instruments, IPA measuring instruments  
 1.5.20 Etch depth measuring devices  
 1.5.25 Packing gauges  
 1.5.30 Densitometers  
 1.5.35 Colour viewing lamps  
 1.5.40 Humidity measuring instruments, hygrometers  
 1.5.45 Oxygen meter  
 1.5.50 Gas warning devices  
 1.5.55 Hardness measuring instruments  
 1.5.60 Carbonating test devices  
 1.5.65 Measuring/scanning tables for colour charts and printed sheets  
 1.5.70 Paper testing devices  
 1.5.75 Foil testing devices  
 1.5.80 Register measuring devices  
 1.5.85 Pressure measuring devices  
 1.5.90 Test printing devices (also see Laboratory printing devices)  
 1.5.95 Anilox roll measurement devices  
 1.5.100 Spectrophotometers  
 1.5.105 UV curing testing devices

1.5.110 UV measuring devices / light measuring devices  
 1.5.115 Scales, paper scales  
 1.5.120 Ink rub testing devices  
 1.5.125 Print control strips, ink control bars  
 1.5.130 Measuring bars  
 1.5.135 Measuring wedges, control wedges  
 1.5.140 Vernier scales, measuring scales  
 1.5.145 Test formes, test printing formes  
 1.5.150 Spare parts, wearing parts and lubricants  
 1.5.155 Control, feed-back control and drive technology  
 1.5.160 Cameras  
 1.5.165 Lenses

**1.6 Knives & grinding machines**
**1.7 Ink / processing systems**
**1.8 Light sources and Colour matching systems**

1.8.10 Colour matching desks  
 1.8.15 Image viewing devices  
 1.8.20 Colour viewing devices  
 1.8.25 Colour cards  
 1.8.30 Colour systems and colour charts  
 1.8.35 Standard light sources  
 1.8.40 Light sources for reproduction techniques

**1.9 Input devices**

1.9.10 Digital cameras & accessories  
 1.9.15 Graphics tablets  
 1.9.20 Scanners

**1.10 Output devices**

1.10.10 Monitors, with calibration function  
 1.10.15 CD / DVD systems  
 1.10.20 Digital proofing systems  
 1.10.25 Soft proofing systems  
 1.10.30 Hard copy printers  
 1.10.35 Cutting plotters  
 1.10.40 Laser cutting systems

**1.11 Infrastructure**

1.11.10 Air conditioning  
 1.11.15 Air humidifiers  
 1.11.20 Air drying devices  
 1.11.25 Paper conditioning  
 1.11.30 Heat recovery  
 1.11.35 Fresh water treatment plants for printing houses  
 1.11.40 Ventilation systems (central compressed air supply)  
 1.11.45 Exhaust air purification systems  
 1.11.50 Extraction systems for solid, liquid and gaseous substances  
 1.11.55 Ventilation systems  
 1.11.60 Powder extraction systems  
 1.11.65 Dust extraction systems  
 1.11.70 Waste water treatment plants  
 1.11.75 Waste paper disposal plants  
 1.11.80 Baling presses  
 1.11.85 Solvent disposal plants  
 1.11.90 Solvent recovery plants  
 1.11.95 Conveyor and transportation systems (no floor conveyors)  
 1.11.100 Palletizers  
 1.11.105 Reel unpacking and splicing stations  
 1.11.110 Reel loading systems


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- 1.11.115 Reel transport systems
- 1.11.120 Pile turners
- 1.11.125 Sound insulation for machines and rooms
- 1.11.130 Other infrastructure

## 2 Packaging Production & Paper Converting

### 2.1 Packaging Design & Prepress

- 2.1.10 Structural Packaging Design (3D, CAD)
- 2.1.15 Graphical Packaging Design
- 2.1.20 Imposition and Print Preparation (incl. Proofing, DFE, RIP, CMS, Editing, Preflight)
- 2.1.25 Colour Solutions for Packaging(Matching, CMS, Measurement, Preflight)
- 2.1.30 Digital Asset and Content Management
- 2.1.35 Web-to-package
- 2.1.40 Platemaking and plate imaging for packaging
- 2.1.45 Workflow & Automation for packaging production

### 2.2 Packaging Printing und Converting

- 2.2.10 Inline machines for corrugated board printing and converting (Printing & die-cutting, printing & folding gluing, different printing methods, rotary or flat-bed die cutting, slitter scorer, printer slotter)
- 2.2.15 Flexo printing machines for packaging printing
- 2.2.20 CI Flexo printing machines for packaging printing
- 2.2.25 Corrugated board printing and converting systems
- 2.2.30 Flexo post-print machines for corrugated board
- 2.2.35 Preprint machines for corrugated board
- 2.2.40 Offset print machines for packaging printing
- 2.2.45 Gravure printing machines for packaging printing
- 2.2.50 Offset printing machines for corrugated board
- 2.2.55 Hybrid printing machines for packaging printing
- 2.2.60 Narrow web printing machines
- 2.2.65 Digital printing machines for packaging
- 2.2.70 Digital printing machines for corrugated board
- 2.2.75 Digital printing machines for carton packages
- 2.2.80 Digital printing machines for labels
- 2.2.85 Digital printing machines for flexible packaging
- 2.2.90 Digital printing machines for direct-to-shape and direct-to-package
- 2.2.95 Screen printing machines for direct-to-shape and direct-to-package
- 2.2.100 Pad printing machines for direct-to-shape and direct-to-package
- 2.2.105 Inline printing units for special applications
- 2.2.110 Platen presses
- 2.2.115 Flat-bed die-cutters
- 2.2.120 Rotary die-cutter
- 2.2.125 Cutting machines for packaging production
- 2.2.130 Winders and slitters
- 2.2.135 Machines for embellishing printed packaging
- 2.2.140 Folder gluer
- 2.2.145 Fold gluing machines
- 2.2.150 Folding box packing machines
- 2.2.155 Folding box stitching machines
- 2.2.160 Folding carton prefeeders
- 2.2.165 Flexo folder gluers
- 2.2.170 Stripping machines
- 2.2.175 Folding box lining machines
- 2.2.180 Tube slicing and dividing machines
- 2.2.185 Window patchers
- 2.2.190 Hot foil stamping machines
- 2.2.195 Coating and laminating machines
- 2.2.200 Sealing machines
- 2.2.205 Drying solutions for packaging printing
- 2.2.210 Inspection and automation systems
- 2.2.215 Quality control & assurance
- 2.2.220 Retrofit solutions
- 2.2.225 Intralogistic solutions
- 2.2.230 Cutting die manufacturing
- 2.2.235 Conventional coating machines
- 2.2.240 Digital metallization and coating machines, digital
- 2.2.245 Combined machines for embossing, metallization, and die-cutting for packaging
- 2.2.250 Robotic solutions for packaging production
- 2.3 Production solutions by type of packaging
  - 2.3.10 Solutions for label production
  - 2.3.15 Solutions for corrugated board packaging
  - 2.3.20 Solutions for folding carton boxes
  - 2.3.25 Solutions for carton based liquid packaging
  - 2.3.30 Solutions for flexible packaging
  - 2.3.35 Solutions for rigid plastic packaging
  - 2.3.40 Solutions for metal packaging
  - 2.3.45 Solutions for direct-to-pack printing
  - 2.3.50 Solutions for paper tubes and cans
  - 2.3.55 Solutions for rigid paper packaging
- 2.4 Materials for packaging printing and their pretreatment
  - 2.4.10 Barrier layer application
  - 2.4.15 Laminating of packaging materials
  - 2.4.20 metallizing of printing substrates
  - 2.4.25 Printing substrates and materials for packaging production
  - 2.4.30 Inks and varnishes for packing printing
  - 2.4.35 Glues, adhesive materials, and adhesives for packaging production
- 2.5 Smart packaging
  - 2.5.10 Connected packaging
  - 2.5.15 Solutions for customized packaging production
  - 2.5.20 Solutions for tamper-proof packaging
  - 2.5.25 Solutions for coding, labelling, marking, identification and traceability of packaging
  - 2.5.30 Digital solutions for packaging (shelf/loading optimization, connectivity, visualization, supply chain communication)
- 2.6 Sustainable packaging solutions
  - 2.6.10 Recyclability of packaging
  - 2.6.15 Sustainable packaging materials
  - 2.6.20 Sustainable packaging production
  - 2.6.25 Sustainable finishing solutions
  - 2.6.30 Energy monitoring and reduction
  - 2.6.35 Recycled materials
  - 2.6.40 Packaging regulations
  - 2.6.45 Carbon footprint reduction and calculation
- 2.7 Paper converting machines
  - 2.7.10 Block-making machines
  - 2.7.15 Letter-file making machines
  - 2.7.20 Envelope making machines and pocket making machines
  - 2.7.25 CD / DVD pocket making machines




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- 2.7.30 Calendar block making machines
- 2.7.35 Cash register roll making machines
- 2.7.40 Ring binder manufacturing machines
- 2.7.45 Folder making machines
- 2.7.50 Stationery manufacturing machines
- 2.7.55 Exercise book manufacturing machines
- 2.7.60 Packaging machines for stationery
- 2.7.65 Thread knotting machines for tags
- 2.7.70 Size cutting machines and systems
- 2.7.75 Slitters and cross cutters
- 2.7.80 Reel slitting and rewinding machines
- 2.7.85 Cup making machines
- 2.7.90 Bag and pouch making machines
- 2.7.95 Bending machines for board
- 2.7.100 Coaster / beer mat making machines
- 2.7.105 Machines for can making (paper and board)
- 2.7.110 Ice cream cone wrapping machines
- 2.7.115 Tube cutting and winding machines
- 2.7.120 Edgeboard protector manufacturing machines
- 2.7.125 Circular shears
- 2.7.130 Cardboard plate making machines
- 2.7.135 Presses, cardboard (inline)
- 2.7.140 Sack making machines
- 2.7.145 Box lining and covering machines
- 2.7.150 Box making machines
- 2.7.155 Stacking devices for folding carton blanks
- 2.7.160 Deep drawing machines for paperboard
- 2.7.165 Tray making machines
- 2.7.170 Corrugated board making machines
- 2.7.175 Corrugated board converting machines
- 2.7.180 Corrugated board sealing units
- 2.7.185 Corrugated board cutting systems – digitally controlled
- 2.7.190 Sanitary napkin making machines
- 2.7.195 Wet wipes making machines
- 2.7.200 Facial tissue making machines
- 2.7.205 Paper towel making machines
- 2.7.210 Paper napkin making machines
- 2.7.215 Paper handkerchief making machines
- 2.7.220 Toilet paper making machines
- 2.7.225 Diaper making machines
- 2.7.230 Cotton wool cutting machines
- 2.7.235 Embossing form manufacturing
- 2.7.240 Paper converting equipment for technical paper products
- 2.7.245 Machines for the production of die-cutting formes
- 2.7.250 Foil converting machines
- 2.7.255 Metall foil converting machines
- 2.7.260 Textile converting machines

### 3

#### Industrial Print Applications

- 3.1 Decorative Printing (Furniture, Wood, flooring, ceramics)**
  - 3.1.10 Furniture decors
  - 3.1.15 Decors for floor coverings
  - 3.1.20 Ceramic printing (tiles)
  - 3.1.25 Direct printing on wood and solid materials
  - 3.1.30 Automotive and product design
  - 3.1.35 Textiles and Interior Design
  - 3.1.40 Direct-to-shape and In Mould Decoration (white goods, promotional items)
- 3.2 Marking and Coding**
  - 3.2.10 Inkjet systems for marking and coding

- 3.2.15 Laser systems for marking and coding
- 3.2.20 Labelling systems
- 3.2.25 Inspection systems for coding
- 3.2.30 Standards for coding (e.g. QR-Code)
- 3.2.35 Addressing and personalization systems

#### 3.3 Identification systems

- 3.3.10 Card manufacturing systems
- 3.3.15 Numbering systems for cards
- 3.3.20 Smart card systems

#### 3.4 Security Printing

- 3.4.10 Printing solutions for security features
- 3.4.15 Hidden printed information
- 3.4.20 MICR Inks for inkjet printing
- 3.4.25 Security printing using nanoparticle inks and fluids
- 3.4.30 Biomarkers for brand protection
- 3.4.35 Vision-based verification of security features

#### 3.5 Printed Functionalities/ Printed Electronics/ Functional layers

- 3.5.10 Printed electronics
- 3.5.15 Materials for organic and printed electronics
- 3.5.20 Machines and equipment for organic and printed electronics
- 3.5.25 Printed Functionalities
- 3.5.30 Inspection and test systems for organic and printed electronics
- 3.5.35 Applications for organic and printed electronics

#### 3.6 3D-print

- 3.6.10 SLS (selective laser sintering)
- 3.6.15 LBM (laser beam melting)
- 3.6.20 EBM (electron beam melting)
- 3.6.25 BJ (binder jetting)
- 3.6.30 FDM (fused deposition modeling)
- 3.6.35 LLM (laminated layer modeling)
- 3.6.40 PJ (polyjet modeling)
- 3.6.45 STL (stereolithography)
- 3.6.50 Other 3D manufacturing technologies
- 3.6.55 Materials for 3D-printing

#### 3.7 Components, materials and software for industrial print applications

- 3.7.10 Printing systems & drying technologies\_
- 3.7.15 Robotics and Integration\_
- 3.7.20 Software, Digitalization, Automation, AI
- 3.7.25 System component (printheads, DFE)
- 3.7.30 Inks, primer, coatings, auxiliary materials

### 4

#### Materials

##### 4.1 Paper, paperboard, board

- 4.1.10 Accounting paper – web printing paper
- 4.1.15 Office paper & board – web printing paper
- 4.1.20 Chromo board – web printing paper
- 4.1.25 India and bible paper – web printing paper
- 4.1.30 Wood-free paper
- 4.1.35 Creative paper – web printing paper
- 4.1.40 Offset printing paper & offset printing board – web printing paper
- 4.1.45 Recycled paper – web printing paper


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- 4.1.50 Thermo-sensitive paper
- 4.1.55 Poster paper – web printing paper
- 4.1.60 Carbonless copy paper – web printing paper
- 4.1.65 Playing card board – web printing paper
- 4.1.70 Magazine and catalogue printing paper, coated
- 4.1.75 Magazine and catalogue printing paper, uncoated
- 4.1.80 Newsprint paper
- 4.1.85 Double-coated paper
- 4.1.90 Accounting paper – cut-size paper
- 4.1.95 Office paper & board – cut-size paper
- 4.1.100 Hand-made paper
- 4.1.105 Chromo board – cut-size paper
- 4.1.110 India and bible paper – cut-size paper
- 4.1.115 Book binding materials
- 4.1.120 One-sided coated paper
- 4.1.125 Label paper
- 4.1.130 Coloured / dyed paper
- 4.1.135 Graphic board, virgin fibres
- 4.1.140 Graphic board, recycled fibres
- 4.1.145 Index board
- 4.1.150 Creative paper – cut-size paper
- 4.1.155 Map/chart paper
- 4.1.160 Metallized paper
- 4.1.165 Offset printing paper & offset printing board – cut-size paper
- 4.1.170 Paper for digital printing
- 4.1.175 Poster paper – cut-size paper
- 4.1.180 Preprint paper
- 4.1.185 Recycled paper
- 4.1.190 Writing paper, fine paper and fine board
- 4.1.195 Carbonless copy paper – cut-size paper
- 4.1.200 Self-adhesive paper
- 4.1.205 Playing card board – cut-size paper
- 4.1.210 Synthetic paper
- 4.1.215 Transparent paper
- 4.1.220 Cover board and fancy board
- 4.1.225 Uncoated paper, wood-free
- 4.1.230 Book-end paper, end-leaf paper

#### **4.2 Paper, paperboard and board for packaging**

- 4.2.10 Folding box board
- 4.2.15 Solid bleached sulphate board
- 4.2.20 Solid unbleached board
- 4.2.25 White lined chipboard
- 4.2.30 Liquid packaging board
- 4.2.35 Coated recycled board
- 4.2.40 Paper for flexible packaging
- 4.2.45 Paper and paperboard with barrier layer
- 4.2.50 Paper and paperboard - food-compliant
- 4.2.55 Core board
- 4.2.60 Machine-made board
- 4.2.65 Containerboard
- 4.2.70 Packaging paper
- 4.2.75 Wet machine board / mill board

#### **4.3 Paper, paperboard and board for technical and special applications**

- 4.3.10 Tissue
- 4.3.15 Other paper and board grades for technical and special applications
- 4.3.20 Decor paper
- 4.3.25 Wet strength paper
- 4.3.30 Fungicidal paper
- 4.3.35 Shooting target board

- 4.3.40 Flame resistant & flame retardant paper
- 4.3.45 Base paper for photo paper
- 4.3.50 Security paper
- 4.3.55 Wallpaper bases

#### **4.4 Films / foils and transfer films**

- 4.4.10 Decorative foils
- 4.4.15 Printing films
- 4.4.20 Transfer foils
- 4.4.25 Foils for large-format printing
- 4.4.30 Foils, polyester (PET)
- 4.4.35 Foils, polyethylene (PE)
- 4.4.40 Foils, polypropylene (PP)
- 4.4.45 Foils, polystyrene (PS)
- 4.4.50 Foils, polyvinyl chloride (PVC)
- 4.4.55 Hot stamping foils, stamping foils
- 4.4.60 Cold transfer films
- 4.4.65 Films for digital embellishment
- 4.4.70 Films for transfer metallization
- 4.4.75 Holographic foils
- 4.4.80 Laminating foils
- 4.4.85 Adhesive foils
- 4.4.90 Lenticular foils
- 4.4.95 Security and brand protection films
- 4.4.100 Media for Large format printing
- 4.4.105 Metal foils, aluminium foils
- 4.4.110 Plotter foils
- 4.4.115 Self-adhesive foils
- 4.4.120 Special foils for outdoor applications
- 4.4.125 Thermal transfer foils
- 4.4.130 Transfer foils
- 4.4.135 Self-adhesive vinyl

#### **4.5 Other substrates**

- 4.5.10 Banner material (mesh fabric)
- 4.5.15 Glass
- 4.5.20 Ceramics
- 4.5.25 Metal
- 4.5.30 Metallized synthetic materials
- 4.5.35 Polyester / polycarbonate
- 4.5.40 PVC hard foam board
- 4.5.45 Textiles and fabrics

#### **4.6 Ink, varnish**

- 4.6.10 Printing inks for sheet-fed offset
- 4.6.15 Printing inks for sheet-fed offset – conventional
- 4.6.20 Printing inks for sheet-fed offset – UV
- 4.6.25 Printing inks for sheet-fed offset – waterless
- 4.6.30 Special printing inks for sheet-fed offset
- 4.6.35 Printing inks for web-offset
- 4.6.40 Printing inks for web-offset – conventional
- 4.6.45 Printing inks for web-offset – UV/ electron beam curing
- 4.6.50 Printing inks for web-offset – waterless
- 4.6.55 Special printing inks for web-offset
- 4.6.60 Additives & concentrates
- 4.6.65 Printing ink pigments and ink pastes
- 4.6.70 Flexographic printing inks – water-based
- 4.6.75 Flexographic printing inks – solvent-based
- 4.6.80 Flexographic printing inks – UV/electron beam curing
- 4.6.85 Gravure printing inks – Water-based
- 4.6.90 Gravure toluene printing inks (publication)
- 4.6.95 Gravure printing inks – other solvents (packaging)
- 4.6.100 Screen printing inks – water-based



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- 4.6.105 Screen printing inks – solvent-based
- 4.6.110 Screen printing inks – UV
- 4.6.115 Special printing inks for screen printing
- 4.6.120 Digital inks
- 4.6.125 Digital inks – water-based
- 4.6.130 Digital inks – solvent-based
- 4.6.135 Digital inks – textiles
- 4.6.140 Digital inks – UV curable
- 4.6.145 Digital inks – conductive
- 4.6.150 Digital inks – latex based
- 4.6.155 Digital inks – for industrial print applications
- 4.6.160 Digital inks - labeling
- 4.6.165 Digital inks - packaging
- 4.6.170 Digital inks - display graphics
- 4.6.175 Digital inks - others
- 4.6.180 Inkjet inks – dye inks
- 4.6.185 Inkjet inks – pigment inks
- 4.6.190 Inkjet inks – solid inks
- 4.6.195 Inks for pad/tampon printing
- 4.6.200 Oil-based overprint varnishes
- 4.6.205 Dispersion varnishes
- 4.6.210 UV/ Electron beam curing varnishes, UV varnishes
- 4.6.215 Barrier coatings
- 4.6.220 Special printing varnishes
- 4.6.225 Fragrance varnishes
- 4.6.230 Materials for print embellishment
- 4.6.235 Effect pigments and inks
- 4.6.240 Metallization cold transfer
- 4.6.245 Transfer foils
  
- 4.7 Chemicals and other additives**
- 4.7.10 Chemicals and products for prepress production phases
- 4.7.15 Chemical mixing & replenishing systems
- 4.7.20 Chemicals and materials for screen printing
- 4.7.25 Chemicals for embossing forme manufacturing
- 4.7.30 Anti-setoff powder
- 4.7.35 Dampening solutions and additives
- 4.7.40 Special consumables for printing – others
- 4.7.45 Gravure printing consumables
- 4.7.50 Roller washing and maintenance products
- 4.7.55 Blanket washing and rejuvenating solutions
- 4.7.60 Photographic materials
- 4.7.65 Anti-Marking solutions
  
- 4.8 Printing unit interior**
- 4.8.10 Formes for offset printing (printing plates)
- 4.8.15 Formes for letterpress printing
- 4.8.20 Mounting foils
- 4.8.25 Underlays, underlay sheets and underlay materials
- 4.8.30 Formes for flexographic printing
- 4.8.35 Sleeves for flexographic printing
- 4.8.40 Coating plates and coating foils
- 4.8.45 Formes for gravure printing
- 4.8.50 Screen tensioning frames and fabrics for screen printing
- 4.8.55 Accessories for printing plate production
- 4.8.60 Embossing formes
- 4.8.65 Printing blankets, packing materials and sleeves
- 4.8.70 Roller coverings
  
- 4.9 Adhesives and glues**
- 4.9.10 Glutine glues
- 4.9.15 Dextrine glues
- 4.9.20 Hotmelts (EVA, PA, PO)

- 4.9.25 Hot-melt pressure-sensitive adhesives (HMPSA)
- 4.9.30 Polyurethane (PUR) adhesives
- 4.9.35 Dispersion adhesives
- 4.9.40 Solvent-based adhesives
- 4.9.45 UV adhesives
- 4.9.50 Conductive silver adhesives
- 4.9.55 Additives for glues
  
- 4.10 Bookbinding materials**
- 4.10.10 Fabrics and fibres
- 4.10.15 Stitching wires and staples
- 4.10.20 Cover materials
- 4.10.25 Book cover paper
- 4.10.30 Carton / board
- 4.10.35 Backlining paper
- 4.10.40 Adhesive tapes and adhesive foils/films
- 4.10.45 Rivets and eyelets
- 4.10.50 Filing strips and plastic filing pockets
- 4.10.55 Cutting rules, punching rules, scoring rules, die cutting rules and die cutting metal plates
- 4.10.60 Cutting sticks
- 4.10.65 Adhesive dots
  
- 4.11 Embossing and laminating materials**
  
- 4.12 Conveyor belts and tapes**
  
- 5 Print Creative & Solution World**
  
- 5.1 Print Creative showcase**
- 5.1.10 Premium packaging/luxury packaging
- 5.1.15 Highly decorated glass and metal packaging
- 5.1.20 Sustainable plastic packaging
- 5.1.25 Flexible paper packaging
- 5.1.30 Premium labels
- 5.1.35 Art books/editions & corporate publications
- 5.1.40 Smart & interactive Products
- 5.1.45 Exceptional print design
- 5.1.50 Premium print quality
- 5.1.55 Exceptional product designs
- 5.1.60 Exceptional book design
- 5.1.65 Brand design
- 5.1.70 Creative initiatives
- 5.1.75 Sustainable printing and embellishment
- 5.1.80 Exceptional materials
  
- 5.2 Co-Creation & Cooperation**
- 5.2.10 Quality assurance and color consistency
- 5.2.15 Data management
- 5.2.20 Certifications & labels
- 5.2.25 Design for recycling and circular economy
- 5.2.30 Research & Innovation
- 5.2.35 Private label products
- 5.2.40 Brand Management (Corporate Design Publishing)
- 5.2.45 Collaboration Solutions / Groupware
  
- 5.3 Embellishment by attribute**
- 5.3.10 Metal effects
- 5.3.15 Gloss effects
- 5.3.20 Spot varnishes 2D and 3D
- 5.3.25 Protection and barriers
- 5.3.30 Color and luminous effects




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- 5.3.35 Haptics and fragrance
- 5.3.40 Doming
- 5.3.45 Functional surfaces
- 5.3.50 Solutions for brand protection, anti-counterfeiting, and tamper – protection
- 5.4 Print products with added value**
  - 5.4.10 Connected print product
  - 5.4.15 Printed products with integrated electronics
  - 5.4.20 Advanced functions for printed products
  - 5.4.25 Traceable products and materials
  - 5.4.30 Solutions for customized printing
  - 5.4.35 Solutions for personalized printing
  - 5.4.40 Solutions for mass customization
- 5.5 Production solutions for packaging**
  - 5.5.10 Solutions for Fast-Moving Consumer Goods (FMCG) packaging production
  - 5.5.15 Solutions for food packaging (fresh, dry, frozen)
  - 5.5.20 Solutions for non-food packing
  - 5.5.25 Solutions for cosmetic and fragrance packaging
  - 5.5.30 Solutions for healthcare packaging
  - 5.5.35 Solutions for electronic packaging
  - 5.5.40 Solutions for pharma packaging production
  - 5.5.45 Solutions for luxury packaging
  - 5.5.50 Solutions for transport carton packaging
  - 5.5.55 Solutions for bag production (carrier bags, shipping bags)
  - 5.5.60 Solutions for sack production
  - 5.5.65 Solutions for Point-of-Sale display production
  - 5.5.70 Solutions for beverage and liquid packing production
  - 5.5.75 Solutions for high barrier packaging
  - 5.5.80 Solutions for customized packaging production
  - 5.5.85 Solutions for tamper-proof packaging
  - 5.5.90 Solutions for coding, labelling, marking, identification and traceability of packaging
  - 5.5.95 Authenticity verification of printed products
  - 5.5.100 Digital solutions for packaging (shelf/loading optimization, connectivity, visualization, supply chain communication)
  - 5.5.105 Software solutions for packaging design and online creation
- 5.6 Production solutions for publication, advertising, and commercial printing**
  - 5.6.10 Print-on-demand
  - 5.6.15 Book-on-demand
  - 5.6.20 Transactional & transpromotional printing
  - 5.6.25 Solutions for printing and embellishment of promotional items
  - 5.6.30 Solutions for brochure production
  - 5.6.35 Solutions for book production
  - 5.6.40 Solutions for newspaper production
  - 5.6.45 Solutions for magazine production
  - 5.6.50 Solutions for printed business stationary
  - 5.6.55 Solutions for outdoor advertising and posters
  - 5.6.60 Solutions for advertising flyers and inserts
  - 5.6.65 Solutions for online print
- 5.7 Production solutions for paper and tissue products**
  - 5.7.10 Solutions for the production of paper cups and containers
  - 5.7.15 Solutions for convenience paper products
  - 5.7.20 Solutions for the production of hygiene products
  - 5.7.25 Solutions for the production of tissue napkins and tablecloths
  - 5.7.30 Solutions for the production of paper tissues

- 5.8 Production solutions for stationery**
  - 5.8.10 Solutions for the production of writing pads, writing paper and printer paper
  - 5.8.15 Solutions for the production of notebooks / exercise books
  - 5.8.20 Solutions for the production of envelopes
  - 5.8.25 Solutions for the production of mailing pockets
  - 5.8.30 Solutions for the production of binders and folders

## 6

## Automation, Robotics, Digitalization & AI

- 6.1 Smart Production & Automation**
  - 6.1.10 Management information systems
  - 6.1.15 Web-to-Print
  - 6.1.20 Automated Solutions
  - 6.1.25 Autonomous printing
  - 6.1.30 Robotics
  - 6.1.35 Cobots (collaborative robots)
  - 6.1.40 Process monitoring and control
  - 6.1.45 Intralogistics
  - 6.1.50 Industry 4.0
  - 6.1.55 Condition monitoring
  - 6.1.60 Printing forme logistics
  - 6.1.65 MES
  - 6.1.70 APS (advanced planning & scheduling)
  - 6.1.75 Autonomous mobile robots (AMR)
  - 6.1.80 Automated guided vehicle (AGV)
  - 6.1.85 OEE / KPI's
  - 6.1.90 Inspection and test systems
  - 6.1.95 Quality monitoring and control system
  - 6.1.100 Remote control
  - 6.1.105 Virtual putting into operation
  - 6.1.110 Print-on-demand
  - 6.1.115 Human-machine interface
  - 6.1.120 Solutions for production optimization
  - 6.1.125 Handling systems
  - 6.1.130 Pick-and-place
  - 6.1.135 Material flow or conveyor technology
  - 6.1.140 Radio identification technologies (RFID, NFC)
  - 6.1.145 3D-scanner
- 6.2 Artificial Intelligence & Data**
  - 6.2.10 AI solutions / agents
  - 6.2.15 Machine learning
  - 6.2.20 Deep learning
  - 6.2.25 Data analytics
  - 6.2.30 Big data
  - 6.2.35 Data mining
  - 6.2.40 Machine vision solutions
  - 6.2.45 Monitoring & analytics
  - 6.2.50 Business intelligence
  - 6.2.55 Digital twin
  - 6.2.60 Predictive maintenance
  - 6.2.65 Condition monitoring
  - 6.2.70 AI content generation
- 6.3 Cloud & Connectivity**
  - 6.3.10 Cloud-based solutions
  - 6.3.15 Cloud-based business models
  - 6.3.20 Cloud services
  - 6.3.25 Interoperability standards


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6.3.30	Cyber security in production
6.3.35	Remote services
6.3.40	Digital platforms
6.3.45	OPC UA
6.3.50	Manufacturing X
6.3.55	JDF / X JDF
6.3.60	API-Connectivity
<b>6.4</b>	<b>Digital Business Models</b>
6.4.10	Web-to-Print
6.4.15	Onlineprintshop
6.4.20	E-Business print
6.4.25	E-Commerce for the printing industry
6.4.30	Mobile applications
6.4.35	Software as a Service
6.4.40	Machine as a Service
6.4.45	Pay per Print
6.4.50	Digital product passport / material passport
6.4.55	E-Procurement
6.4.60	Hosting
6.4.65	Payment Management
6.4.70	Print procurement platform
6.4.75	Print procurement logistics
6.4.80	Social Commerce
6.4.85	Creator Commerce
<b>6.5</b>	<b>Future Tech &amp; Smart Solutions</b>
6.5.10	Digital twin
6.5.15	Virtualization & simulation
6.5.20	Augmented reality
6.5.25	Virtual reality
6.5.30	Smart factory
6.5.35	Smart products & devices
6.5.40	Assistance systems
6.5.45	Dark factory
<b>6.6</b>	<b>Publishing &amp; Asset Management</b>
6.6.10	Workflow systems
6.6.15	Publishing systems
6.6.20	Digital Asset Management
6.6.25	Media Asset Management
6.6.30	Multichannel-Publishing
6.6.35	Digital Publishing
6.6.40	Social Media Publishing
6.6.45	Remote Publishing
6.6.50	Web Design
6.6.55	Database Publishing
6.6.60	Self-Publishing
6.6.65	Software for multimedia
6.6.70	3-D software
6.6.75	Image archives and image data bases
6.6.80	Mobile Applications
6.6.85	Augmented Reality
6.6.90	Translation Management
6.6.95	Digital marketing (SEO, SEA, SEM)
6.6.100	Campaign management software
6.6.105	Software for direct and dialogue marketing
6.6.110	Software for sales and marketing planning
6.6.115	Software for geo-marketing

**7**
**Sustainability & Regulations**
**7.1**
**Sustainable consumables**

- 7.1.10 Environmentally friendly inks and varnishes
- 7.1.15 Environmentally friendly printing substrates
- 7.1.20 Recycled papers
- 7.1.25 Recyclable materials
- 7.1.30 Bio-based materials

**7.2**
**Recycling & circular economy**

- 7.2.10 Design for recycling
- 7.2.15 Upcycling of products
- 7.2.20 Recycling of materials
- 7.2.25 Disposal systems
- 7.2.30 Refill solutions

**7.3**
**Sustainable production**

- 7.3.10 sustainable print production
- 7.3.15 sustainable print embellishment
- 7.3.20 Solutions for energy-efficient drying
- 7.3.25 Energy consumption monitoring and control
- 7.3.30 Quality monitoring and control
- 7.3.35 Energy-optimized process management
- 7.3.40 Solutions for emission reduction
- 7.3.45 Sustainable energy supply

**7.4**
**Regulations on sustainability, Information, solutions, consulting, standards**

- 7.4.10 Regulation on packaging and packaging waste (PPWR)
- 7.4.15 Ecodesign for Sustainable Product Regulation (ESPR)
- 7.4.20 Digital Product Passport (DPP)
- 7.4.25 Corporate Sustainability Reporting Directive (CSRD)
- 7.4.30 Corporate Sustainability Due Diligence Directive (CSDDD)
- 7.4.35 EU taxonomy for sustainable activities
- 7.4.40 Deforestation Regulation (EUDR)
- 7.4.45 Software for supply chain communication
- 7.4.50 Software solutions for sustainability calculations
- 7.4.55 Certifications and standards

**8**
**Services**

- 8.10 Industrial associations and professional organizations
- 8.15 Basic and further training
- 8.20 Press and Media
- 8.25 Trade press, trade magazines
- 8.30 Trade directories
- 8.35 Trade and technical literature, technical dictionaries
- 8.40 Print services providers
- 8.45 Used machinery dealers
- 8.50 Certification, testing and standardization
- 8.55 Machine transportation and machine mounting
- 8.60 Archiving and documentation
- 8.65 Consultancy services
- 8.70 Business consultancy
- 8.75 Consulting on sustainability and energy efficiency
- 8.80 Consultancy services for subsidies
- 8.85 Financial services & insurance services providers
- 8.90 Research and development
- 8.95 Data security
- 8.100 Logistic Services
- 8.105 IT service provider (AI, data analysis, connectivity)