

**ECLA****EUROPEAN CLASSIFICATION****B41L****APPARATUS OR DEVICES FOR MANIFOLDING, DUPLICATING, OR PRINTING FOR OFFICE OR OTHER COMMERCIAL PURPOSES; ADDRESSING MACHINES OR LIKE SERIES-PRINTING MACHINES**

(printing presses or machines for industrial purposes [B41F](#); stamps, stamping or numbering devices [B41K](#))

**Notes**

[N9409]

1. This subclass does not cover constituent parts common to manifolding by means of pressure-sensitive layers or intermediaries, to apparatus or machines for duplicating or printing for office or other commercial purposes, or to addressing machines or like series-printing machines, which are covered by subclass [B41F](#).
2. In this subclass, as indicated by the references, groups [B41L15/00](#) and [B41L17/00](#) are intended to cover letterpress and lithographic printing apparatus only in so far as it is specially adapted for office or other commercial purposes; the general constructions or features of apparatus of these types are classified in subclass [B41F](#).

Constructions or features determining classification in these groups are, for example:

ease of operation by clerical staff, cleanliness of operation in non-industrial environments, the use of printing surfaces constructed for the production of a limited number of copies.

3. In this subclass, the following terms are used with the meanings indicated:
  - "manifolding" means the obtaining of several copies simultaneously by means of pressure-sensitive layers when making an original;
  - "duplicating" means the obtaining of successive copies from a master, e.g. a hectographic image;
  - "stencilling" involves the use of a printing surface which is perforated to form the image, the ink flowing through the perforations on the copy material.

**Guide heading:****Manifolding by means of pressure-sensitive layers or intermediaries****B41L1/00**

**Devices for performing operations in connection with manifolding by means of pressure-sensitive layers or intermediaries, e.g. carbons; Accessories for manifolding purposes**

**B41L1/02**

- Devices for preparatory operations, e.g. for bringing together sheets or webs and interposed carbons; Devices combined with devices for printing, for coating with carbon, for folding

**B41L1/04**

- Devices for performing operations subsequent to manifolding, e.g. for separating single sheets or webs from single form sets, continuous manifold assemblies from carbons

**B41L1/06**

- . on single form sets

- B41L1/08 . . on continuous manifold assemblies
- B41L1/10 . . . Separate folding or disposition of single webs
- B41L1/12 . . . Severing webs to obtain single sheets or forms, e.g. by cutting, by bursting
- B41L1/14 . . . Severing edge perforations from webs
- B41L1/16 . Carriers or supply devices for pressure-sensitive material, e.g. for carbon sheets; Carbon gloves
- B41L1/18 . . for carbon webs; Continuous carbon supply mechanisms
- B41L1/20 . Manifolding assemblies, e.g. book-like assemblies [(N: [Multi-copy labels G09F3/02C](#))]
- B41L1/22 . . made up of single sheets or forms
- B41L1/24 . . . Pads or books
- B41L1/26 . . Continuous assemblies made up of webs
- B41L1/28 . . . in rolled or wound form
- B41L1/30 . . . folded longitudinally
- B41L1/32 . . . folded transversely
- B41L1/32B . . . . [N: [Stacks of sheets attached to a carrier strip or web](#)]
- B41L1/32C . . . . [N: [Uniting several webs, e.g. transversely](#)]
- B41L1/32C2 . . . . . [N: [longitudinally](#)]
- B41L1/32D . . . . . [N: [Severance lines; Perforations](#)]
- B41L1/32E . . . . . [N: [Removing carbon sheets](#)]
- B41L1/34 . . for making masters for hectographic duplicators
- B41L1/36 . . with pressure-sensitive layers or coating other than carbon ([sheet materials B41M5/00](#)) [[C9409](#)]
- B41L3/00 Platens or like sheet supports for manifolding using pressure-sensitive layers or intermediaries, e.g. for book-keeping purposes**
- B41L3/02 . with stationary clamping means for holding the manifolding assembly in registered position, e.g. resilient clamps for holding non-perforated sheets [N: [clamps for platens B41F1/36](#)]
- B41L3/04 . . Bars provided with pins engaging perforations in the elements
- B41L3/06 . with movable clamping or guiding means for the elements of the manifolding assembly
- B41L3/08 . with non-mechanical means for holding the elements in registered position, e.g. magnetic means
- B41L3/10 . with means for moving assembled elements step by step relative to platen or support, e.g. for column or line selection; Means for locating assembled elements when stationary
- B41L3/12 . Auxiliary devices
- B41L3/14 . . Magazines or storage compartments, e.g. for slips
- B41L3/16 . . Web-feeding arrangements
- B41L3/18 . . Displaceable covers, e.g. with windows
- B41L3/20 . . for facilitating manifolding in books

- B41L3/22
  - . . Applications of ink ribbons; Holding, feeding, or guiding means therefor
- B41L5/00**      **Autographic registers or like manifolding apparatus using movable strips or webs**  
(movable strip writing or reading apparatus [B42D19/00](#))
- B41L5/02
  - . with means for limiting movements of webs fed by hand
- B41L5/04
  - . with mechanisms for feeding webs or for arranging web feed; with web storage arrangements [N: (in genral B65H)]
- B41L5/06
  - . . by means of rollers, wheels, or chains, [N: e.g. with pins] transversely
- B41L5/08
  - . . by reciprocating mechanisms
- B41L5/10
  - . with mechanisms for feeding the pressure-sensitive web or webs separately from the other webs, e.g. transversely
- B41L5/12
  - . with means for indicating exhaustion of web supply
- B41L5/14
  - . with auxiliary means for printing, perforating, or severing the web
- B41L5/16
  - . Accessories, e.g. drawers for storing forms, for money ([cash registers G07G](#))
- Guide heading:**      **Apparatus or machines for duplicating or printing for office or other commercial purposes**
- B41L7/00**      **Apparatus for directly duplicating from hectographic originals, i.e. for obtaining copies in mirror image**
- B41L7/02
  - . by passing original and copy-sheet or -web between rollers
- B41L7/04
  - . . with means for guiding original or copy-sheet or -web
- B41L7/06
  - . . with means for severing copy-sheet or -web
- B41L7/08
  - . . with means for moistening or drying
- B41L9/00**      **Apparatus for indirectly duplicating from hectographic originals by means of hectographic intermediaries or transfer surfaces, i.e. "dry duplicators"**
- B41L9/02
  - . Containers for clay or gelatin
- B41L9/04
  - . with flat supports over which gelatin-paper is stretched
- B41L9/06
  - . . and with carriages for feeding the sheets
- B41L9/08
  - . . and with devices for rolling-in and securing hectographic gelatin-paper webs
- B41L9/10
  - . with rotary cylinders carrying sheets of hectographic gelatin-paper
- B41L11/00**      **Apparatus for directly duplicating from hectographic masters in mirror image, i.e. "wet duplicators" for producing positive copies**
- B41L11/02
  - . with a flat support carrying the masters

- B41L11/04 . . and with carriages for feeding the sheets
- B41L11/06 . . for stack duplicating with pressure rollers
- B41L11/08 . with rotary cylinders carrying the masters
- B41L11/10 . with two rollers between which master is stretched
- B41L11/12 . Driving gear; Control thereof
- B41L11/14 . Constructional features of masters ([chemical aspects B41M](#))

**B41L13/00 Stencilling apparatus for office or other commercial use** ([screen printing B41F15/00](#); [stencils, stencil materials, carriers therefor B41N1/24](#))

- B41L13/02 . with flat stencil carriers
- B41L13/04 . with curved or rotary stencil carriers
- B41L13/06 . . with a single cylinder carrying the stencil
- B41L13/08 . . with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands
- B41L13/10 . . . Clips or clamps for securing stencils to stencil carriers
- B41L13/12 . for special purposes, e.g. for reproducing Braille characters [[N: \(typewriters for Braille B41J3/32\)](#)] [[C9704](#)]
- B41L13/14 . Attachments, e.g. for punching, cutting, severing
- B41L13/16 . Driving gear; Control thereof
- B41L13/18 . Inking units

**B41L15/00 Letterpress printing apparatus specially adapted for office or other commercial purposes** ([in general B41E](#); [printing plates or foils, materials thereof or B41N1/00](#))

- B41L15/02 . with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber
- B41L15/04 . . of composed type locked in chases
- B41L15/06 . with curved printing surfaces, e.g. cylinders
- B41L15/08 . . with stereotypes
- B41L15/10 . for multicolour printing; for perfecting
- B41L15/12 . Driving gear; Control thereof
- B41L15/14 . Attachments, e.g. for punching, cutting, severing

**B41L17/00 Lithographic printing apparatus for office or other commercial purposes** ([in general B41E](#); [printing plates or foils, materials therefor B41N1/00](#))

B41L17/02	<ul style="list-style-type: none"> <li>for direct impression printing</li> </ul>
B41L17/04	<ul style="list-style-type: none"> <li>with flat printing surfaces</li> </ul>
B41L17/06	<ul style="list-style-type: none"> <li>with curved printing surfaces, e.g. cylinders</li> </ul>
B41L17/08	<ul style="list-style-type: none"> <li>for offset printing</li> </ul>
B41L17/10	<ul style="list-style-type: none"> <li>with flat printing surfaces, e.g. co-operating with travelling offset cylinders</li> </ul>
B41L17/12	<ul style="list-style-type: none"> <li>with curved printing surfaces, e.g. forme cylinders</li> </ul>
B41L17/14	<ul style="list-style-type: none"> <li>of two-cylinder type, e.g. co-operating forme and impression cylinders</li> </ul>
B41L17/16	<ul style="list-style-type: none"> <li>of three-cylinder type</li> </ul>
B41L17/18	<ul style="list-style-type: none"> <li>for multicolour printing, e.g. tandem machines; for perfecting</li> </ul>
B41L17/20	<ul style="list-style-type: none"> <li>without damping means, e.g. using heat-activatable inks, refrigerated printing surfaces</li> </ul>
B41L17/22	<ul style="list-style-type: none"> <li>Driving gear; Control thereof</li> </ul>
B41L17/24	<ul style="list-style-type: none"> <li>Attachments, e.g. for punching, cutting, severing</li> </ul>
<b>B41L19/00</b>	<b>Duplicating or printing apparatus or machines for office or other commercial purposes, of special types or for particular purposes and not otherwise provided for (<a href="#">addressographs B41L45/00</a>)</b>
B41L19/00B	<ul style="list-style-type: none"> <li>[N: using heat, e.g. wax transfer]</li> </ul>
B41L19/00N	<ul style="list-style-type: none"> <li>[N: Auxiliary numbering devices]</li> </ul>
B41L19/02	<ul style="list-style-type: none"> <li>having forme cylinders carrying a plurality of printing surface, or for performing letterpress and lithographic processes selectively or in combination (<a href="#">in general B41F11/00</a>)</li> </ul>
B41L19/04	<ul style="list-style-type: none"> <li>for printing from selected parts of one or more printing surface in one cycle, e.g. line printing (<a href="#">by inking selected areas B41L27/20</a>)</li> </ul>
B41L19/06	<ul style="list-style-type: none"> <li>with co-operating forme and impression cylinders</li> </ul>
B41L19/08	<ul style="list-style-type: none"> <li>by effecting relative movement of forme and impression cylinders during printing cycle</li> </ul>
B41L19/10	<ul style="list-style-type: none"> <li>by projecting and retracting parts of the surfaces of the forme cylinders</li> </ul>
B41L19/12	<ul style="list-style-type: none"> <li>by masking parts of the printing surfaces on the forme cylinders</li> </ul>
B41L19/14	<ul style="list-style-type: none"> <li>by selective damping of the copy material</li> </ul>
B41L19/16	<ul style="list-style-type: none"> <li>by selective tripping of impression cylinders</li> </ul>
<b>Guide heading:</b>	<b><u>Common details of, or accessories for, apparatus or machines for manifolding, duplicating, or printing for office or other commercial purposes</u></b>
<b>B41L21/00</b>	<b>Devices for conveying sheets or webs of copy material through the apparatus or machines for manifolding, duplicating, or printing (<a href="#">mechanisms for conveying copy material through addressographs or like series-printing machines B41L47/24</a>; [N: feeding sheets or webs to or from printing apparatus or machines B65H; in printing presses in general <a href="#">B41F21/00</a>])</b>

- B41L21/02 . for conveying sheets
- B41L21/04 . . Pins
- B41L21/06 . . Grippers
- B41L21/08 . . . Suction-operated grippers
- B41L21/10 . . Combinations of endless conveyors and grippers
- B41L21/12 . for conveying webs

**B41L23/00**

**Devices for treating the surfaces of sheets, webs, or other articles in connection with printing** (as a final step in the manufacture of such articles, see the relevant places, e.g. [B29C71/00](#), [D21H23/00](#) or [D21H25/00](#); after-treatment of prints [B41M7/00](#)) [[C9409](#)]

- B41L23/02 . by damping, e.g. by moistening copy sheets in connection with hectographic printing
- B41L23/04 . . using friction rollers
- B41L23/06 . . using brushes
- B41L23/08 . . using spray elements
- B41L23/10 . . using endless bands
- B41L23/12 . . using absorbent pads
- B41L23/14 . . Ducts, containers, or like supply devices for liquids
- B41L23/16 . . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor
- B41L23/18 . . Construction of damping rollers
- B41L23/20 . by heat drying, by cooling, by applying powders
- B41L23/22 . . Powdering devices, e.g. for preventing set-off
- B41L23/24 . Print-finishing devices, e.g. for glossing prints

**B41L25/00**

**Devices for damping printing surfaces, e.g. moistening printing surfaces in connection with lithographic printing** (applying liquids or other fluent materials to surfaces in general [B05](#))

- B41L25/00B . [[N: Pre-damping etching devices](#)]
- B41L25/02 . using friction rollers
- B41L25/04 . using brushes
- B41L25/06 . using spraying elements
- B41L25/08 . using endless bands
- B41L25/10 . using absorbent pads
- B41L25/12 . Ducts, containers, or like supply devices for liquids
- B41L25/14 . Inking rollers serving also to apply ink repellent [[N: in rotary lithographic machines](#) [B41F7/36](#)]

- B41L25/16 . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor [N: in rotary lithographic machines [B41F7/40](#)]
- B41L25/18 . Construction of damping rollers
- B41L27/00** **Inking arrangements or devices** (inking units for stencilling apparatus [B41L13/18](#); applying liquids or other fluent materials to surfaces, in general [B05](#))
- B41L27/02 . adapted for inking by hand
- B41L27/04 . Ducts, containers, or supply devices or ink-level control devices (level control in general [G05D9/00](#))
- B41L27/06 . . Duct blades or like supply devices
- B41L27/08 . . Troughs or like reservoirs with immersed, or partly immersed rollers
- B41L27/10 . . with ink-ejecting means, e.g. pumps
- B41L27/12 . . Feed or duct rollers (messenger or moving transfer rollers [B41L27/16](#))
- B41L27/14 . . . adjustable for regulating supply
- B41L27/16 . . Messenger or other moving transfer rollers
- B41L27/18 . Continuous, e.g. endless-band apparatus
- B41L27/20 . for inking selected parts of printing formes
- B41L27/22 . Ink removing or collecting devices
- B41L27/24 . for inking from interior of cylinder
- B41L27/26 . Absorbent pads
- B41L27/28 . Construction of inking rollers
- B41L27/30 . Spray apparatus
- B41L27/32 . Arrangements for tripping, lifting, adjusting, or removing inking rollers; Supports, bearings or forks therefor
- B41L27/34 . . Lifting or adjusting devices
- B41L27/36 . . . Cam, eccentric, wedge, or the like devices
- B41L27/38 . . . fluid-pressure operated
- B41L27/40 . . . magnetically operated
- B41L29/00** **Devices for attaching printing elements or formes to supports** [N: in printing presses in general [B41F27/00](#)]
- B41L29/02 . magnetic
- B41L29/04 . for attaching printing elements to flat type-beds
- B41L29/06 . for attaching elements to forme cylinders

- B41L29/08 . for attaching print formes to flat type-beds
- B41L29/10 . for attaching non-deformable curved printing formes to forme cylinders
- B41L29/12 . for attaching flexible printing formes
- B41L29/14 . . Clamping devices
- B41L29/16 . . . operating automatically during operation of rotary machines to attach the printing formes to the forme cylinders
- B41L29/18 . . . . electromagnetic, pneumatic, or hydraulic
- B41L29/20 . . . for adjusting position of leading edges of flexible printing formes circumferentially of forme cylinders
- B41L29/22 . for attaching printing formes to intermediate supports, e.g. adapter members
- B41L31/00      Devices for removing flexible printing formes from forme cylinders**
- B41L33/00      Pressing flexible printing formes or sheets or webs of copy material against cylinders, e.g. for smoothing purposes [N: in printing presses in general [B41F25/00](#)]**
- B41L35/00      Cylinders for apparatus or machines for manifolding, duplicating, or printing for office or other commercial purposes [N: in printing presses in general [B41F13/08](#)]**
- B41L35/02 . Forme cylinders
- B41L35/04 . . Registering devices
- B41L35/06 . . . with means for displacing the cylinders
- B41L35/08 . . . with means for displacing the printing formes on the cylinders
- B41L35/10 . Impression cylinders
- B41L35/12 . Bearings or supports for forme, offset, or transfer or impression cylinders
- B41L35/14 . Means for heating or cooling forme or impression cylinders
- B41L35/16 . Cylinder-tripping devices; Cylinder impression adjustments
- B41L35/18 . . Arrangements or dispositions of cylinder bearings, forks, or supports
- B41L35/20 . . . Eccentric bearings
- B41L35/22 . . . Sliding bearings
- B41L35/24 . . . Swinging bearings
- B41L35/26 . . Cylinder lifting or adjusting devices
- B41L35/28 . . . Cams, eccentrics, wedges, or the like
- B41L35/30 . . . electrically or magnetically operated
- B41L35/32 . . . fluid-pressure operated
- B41L35/34 . Guards or covers, e.g. for safety purposes, for preventing egress or ingress of foreign matter
- B41L38/00      Devices for attaching coverings or make-ready devices; Guiding devices for**



**coverings** (make-ready devices [B41N6/00](#); blankets or like coverings [B41N10/00](#))  
[N9409]

[B41L38/02](#) . attaching to impression cylinders [N9409]

[B41L38/04](#) . attaching of endless or like continuously-fed coverings [N9409]

**B41L39/00** **Indicating, counting, warning, control, or safety devices** (ink-level control devices [B41L27/04](#); such devices in general, see relevant subclasses, e.g. counting in general G06M)

[B41L39/02](#) . Indicating devices, e.g. counters

[B41L39/04](#) . Tripping devices or stop motions

[B41L39/06](#) . . for starting or stopping operation of sheet or web feed

[B41L39/08](#) . . for starting or stopping operation of cylinders [N: [B41L19/16](#) takes precedence]

[B41L39/10](#) . . for starting or stopping operation of damping or inking units

[B41L39/12](#) . . for starting or stopping the machine as a whole

[B41L39/14](#) . . Automatic control of tripping devices by feelers, photoelectric devices, pneumatic devices, or other detectors

[B41L39/16](#) . Programming systems for automatic control of sequence of operations

**B41L41/00** **Cleaning arrangements or devices** [N: for printing presses in general [B41F35/00](#)]

[B41L41/02](#) . for forme cylinders

[B41L41/04](#) . for inking rollers

[B41L41/06](#) . for offset cylinders

**B41L43/00** **Auxiliary folding, collecting, or depositing of sheets or webs (in general B65H)**

[B41L43/02](#) . Folding

[B41L43/04](#) . . lengthwise

[B41L43/06](#) . . crosswise

[B41L43/08](#) . . Folding-cylinders or drums

[B41L43/10](#) . Collecting

[B41L43/12](#) . . and stapling

[B41L43/14](#) . Adding inserts

[B41L43/16](#) . Depositing

**Guide heading:** **Addressing machines or like series-printing machines**

<b>B41L45/00</b>	<b>Kinds or types of addressing machines or of like series-printing machines [C9409]</b>
B41L45/02	. using printing plates
B41L45/04	. . composed on type-setting machines
B41L45/06	. . for addressing combined with other operations, e.g. franking, collating documents
B41L45/08	. with printing surfaces in the form of belts, or carried by chains
B41L45/10	. . for addressing combined with other operations, e.g. franking, collating documents
B41L45/12	. with separate devices for printing additional text or images, e.g. for printing receipts on blank sheets or webs
<b>B41L47/00</b>	<b>Details of addressographs or like series-printing machines (common details of printing machines <a href="#">B41F21/00</a> to <a href="#">B41F35/00</a>)</b>
B41L47/02	. Applications of printing surfaces in addressing machines or like series-printing machines (printing surfaces in general B41N) [C9409]
B41L47/04	. . of flat or curved plates for relief printing
B41L47/06	. . of flat or curved stencils
B41L47/08	. . of flat or curved plates for hectographic printing
B41L47/10	. . or printing surfaces in the form of belts or chains
B41L47/12	. Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils
B41L47/14	. Devices or arrangements for storing or handling plates
B41L47/16	. . Magazines
B41L47/18	. . Devices for feeding the plates in their plane
B41L47/20	. . Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto
B41L47/22	. . with means for presenting plates for repeated printing operations
B41L47/24	. Mechanisms for conveying copy material through addressographs or like series-printing machines (in general B65;)
B41L47/26	. . for conveying or positioning single sheetlike articles, e.g. envelopes
B41L47/28	. . with gauging-rulers or the like, e.g. for facilitating hand-printing of copy material fed from stacks
B41L47/30	. . for conveying webs
B41L47/32	. . . combined with devices for other purposes, e.g. for cutting, severing, gluing
B41L47/34	. . . specially adapted for conveying chains of forms
B41L47/36	. . for conveying sheets or webs for tabulating purposes; Tabulating mechanisms combined with sheet or web conveyers
B41L47/38	. . . with clamping means for head or margin
B41L47/40	. . . with means for automatically reciprocating sheet or web transversely to enable addresses to be printed in columns side by side
B41L47/42	. Printing mechanisms

- B41L47/44 . . . using flat platens
- B41L47/46 . . . using line-contact members, e.g. rollers, cylinders
- B41L47/48 . . . with inking or ink-ribbon devices
- B41L47/50 . . . using multiple impression-members or -surfaces, e.g. for printing series of addresses with standing context, for printing from selected parts of printing surfaces ([applications of counting, numbering, or dating apparatus B41L49/02](#))
- B41L47/52 . . . with movable counter-pressure plates for printing from selected areas of printing surfaces
- B41L47/54 . . . with means for automatically reciprocating printing plate transversely to enable addresses to be printed in columns side by side
- B41L47/56 . . . Indicating, warning, control, or safety devices ([B41L47/58 takes precedence](#))
- B41L47/58 . . . Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed
- B41L47/60 . . . Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections
- B41L47/62 . . . Selecting devices, e.g. cams, windows, positions indicators
- B41L47/64 . . . . Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with pre-setting controls operable by push-buttons, with programme control by punched tapes
- B41L49/00      Accessories or attachments for addressographs or like series-printing machines**
- B41L49/02 . . . Counting, numbering, or dating devices
- B41L49/04 . . . Devices for applying selection markings to printing plates