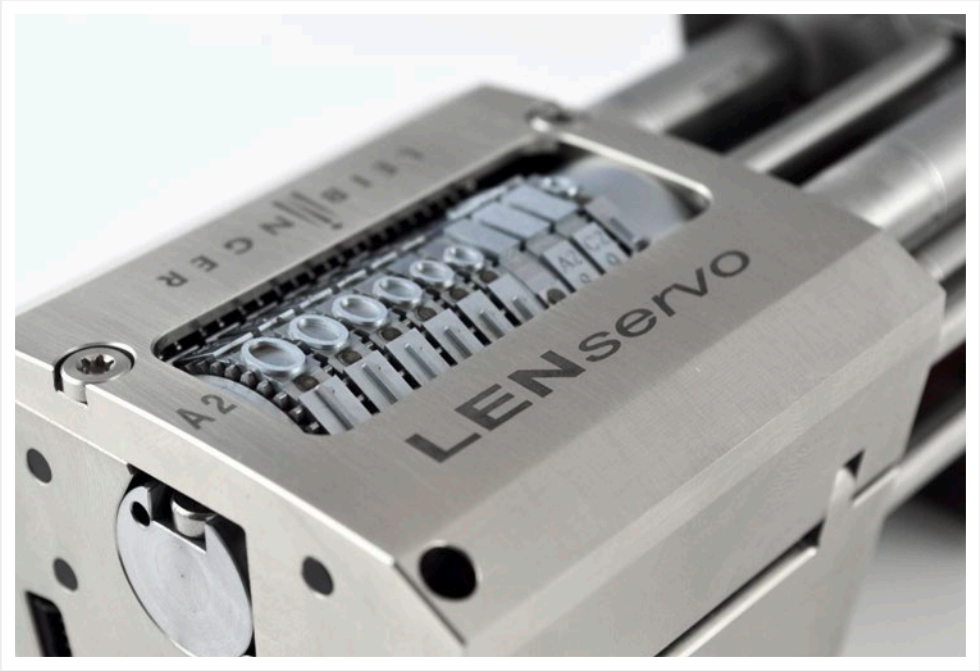
LEIBINGER



HIGH SECURITY NUMBERING

For highest demands, for highest flexibility.

Electronic random numbering system

LEN*servo*

Smart, compact, reliable: LEIBINGER **LEN***servo*

Unique electronic random numbering system for high security numbering

Experience the latest innovation of intelligent numbering machines with the LEIBINGER **LEN***servo*: flexible, lean banknote production using freely programmable numbering sequences.

Freely programmable numbering sequences

The **LEN***servo* electronically-controlled, servo-motor-driven random numbering system is ideal for banknote and security printing. The **LEN***servo* combines the attributes of mechanical LEIBINGER numbering machines – such as sturdiness, reliability and precision – with maximum flexibility and production efficiency. While mechanical numbering machines offer only two options – counting forward or backward – the **LEN***servo* gives you complete flexibility when programming the numbering sequences, thanks to its servomotor-driven wheels. Additionally, the system includes already complete programs tuned to the standard production of banknotes. By using the optimal dimensioning of the motors and the latest, highly dynamic control electronics, the **LEN***servo* is the best in terms of performance and efficiency.

100% reliability – worldwide unique monitoring feature

It is essential to ensure the correctness of the printed numbering sequences for our customers. Additionally to the standard way of monitoring the proper sequence (via an encoder on the servo motor), Paul LEIBINGER has developed a worldwide unique feature: an extra monitoring step using magnets directly on the figure wheels of the **LEN***servo* numbering heads. This ensures the numbering cylinder on the press is switched off before the incorrect number can be printed. Conversely, the incorrect number is already printed and the sheet goes to waste on systems where a camera is used for monitoring.

Easy to handle, easy to maintain

When developing the modern **LEN***servo*, LEIBINGER has again followed its philosophy and created a numbering system that is easy to handle and just as easy to maintain. The LEIBINGER engineers have chosen a modular construction for the numbering machine. The mechanical module featuring the figure wheels and axle can be removed from the electronic unit easily and offers the decisive advantage: maintenance and changing the figure wheels are much easier than in conventional numbering machines.

Revolutionary snap lid-mechanism

Due to the revolutionary snap lid-mechanism, the numbering machine can be opened quickly and the entire set of wheels can be removed and cleaned while the electronic parts remain in the case. The maintenance and set-up times can be reduced drastically by using this unique design. In addition, the compact design of the **LEN***servo* minimizes clearance distances across and around the shaft.

FIELDS OF APPLICATION

- Sheet fed or WEB printing machines
- Banknotes
- Lottery tickets
- Shipping documents
- Other security documents

Enjoy the benefits of multiple advantages!

- The seven motor-driven wheels, which can be combined with additional figure wheels, can be adjusted manually
- Freely programmable numbering sequences: all sequences and check digit systems are possible
- Starting numbers do not need to be set manually and re-setting after the press stops is not required
- 100% security: additional monitoring via magnets directly on the wheels
- Modular construction for simple, easy maintenance and figure wheels replacement
- Automatic pre-inking via electronic control
- Control panel with touch-screen
- Windows-based, user-oriented operation
- Machine-specific interfaces
- Job and user management
- Production log
- Error notification and management report
- Complete adaptation to all current printing machines
- Customized adaptations

LEIBINGER **LEN***servo*C for convex printing:

Equipped with the same technical advantages as the electronic random numbering system **LEN***servo*, Paul LEIBINGER provides a numbering solution for applications in which the numbers or letters have to be printed vertically with the **LEN***servo*C.

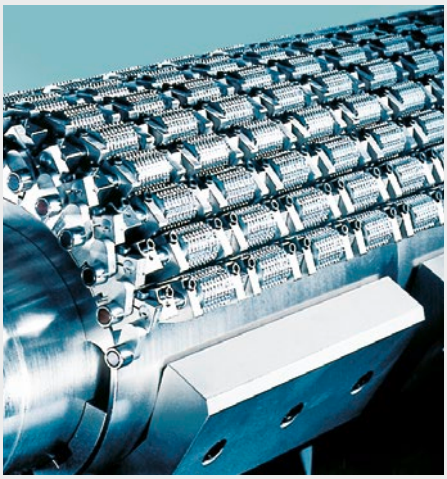
LEN*servo*

LEN*servo*C

Quality and precision since 1948

For many decades now, the name Paul LEIBINGER has stood for state-of-the-art numbering machines and systems that set standards in the market. The vision of the company's founder, Paul Leibinger, was to manufacture durable and reliable numbering machines that are one-of-a-kind in their category. LEIBINGER customers benefit from our passion, expertise and in-house production:

- Long service life due to LEIBINGER's expertise in choosing material and in-house hardening/coating process
- High surface hardness
- High core strength
- High edge stability of the engraving
- High resistance against highly abrasive inks



Technical specifications

MECHANICS AND ELECTRONICS

- Straight/convex numbering machines
- Modular construction for easy maintenance
- Up to 7 wheels controlled by servo motors
- Random numbering without limitation by mechanics
- Automatic take-over and setting of starting numbers
- Pre-inking with electronic control
- Customer-specific interface

CONTROLLER AND SOFTWARE

- Control panel with touch screen
- Easy access to all relevant information on monitor
- Operator-oriented user interface
- Job Management
- Production protocol with date, production parameter, user
- Error recording and management
- Fullly adaptable to any relevant type of printing equipment
- Customer specific adaptation

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LENservo-E-001