

# ROTARY NUMBERING MACHINES

## AND ACCESSORIES

**High quality.  
Precise.  
Reliable worldwide.**



### **Quality for more than 50 years.**

Most advanced production processes with CNC controlled turning and milling centres, highest depth in production and skill and experience for decades guarantee a quality of our numbering machines which exceeds the requirements of the printing industry. A computer controlled hardening and chromium/nickelplating guarantee a constant hardness and nickel and chromium coat.

### **Rotary numbering machines**

- **Standard designs**
- **For optical and magnetical character reading**

### **Special machines**

- **Lottery tickets**
- **Barcodes**
- **Numbering cylinders**
- **Hot foil stamping**

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COUNTING FOR THE FUTURE



# Accessories



Cam GTO



Mounting ring  
solid with scaling



Mounting ring split



## Cams

- solid
- split
- with window
- with segment and pneumatic cylinder

# Special Machines



\* 1 2 3 4 5 6 7 8 \*

**LNST 4 – the electronic numbering control system for the numbering units on WEB presses**

**PC-LNCE – electronic control of numbering machines**

**PC-LM 2000 NC – electronic modulus control with monitoring**

**Functions:**

The Leibinger LNST 4 control system guarantees a sequential throw on/throw off of the numbering at speeds from 10 up to 600 rev./min. Depending on the circumference this corresponds to a speed of approx. 15 to 900 ft/min.

**Controlling possibilities:**

Of course, the LNST 4 is also able to sequentially throw on/off several numbering cylinders and/or printing units which are arranged serially (sequential print control).

**Possibilities of extension:**

- Throw on/off of the impression cylinder parallel to the sequence of the numbering cylinders
- Monitoring of the joint of paper web
- Stop of the numbering on the end of paper web
- Repeating numbers
- Web break
- Special requests on demand

**Advantages:**

- After a stop the numbering machines do not have to be readjusted by hand.
- No more wasted paper caused by wrong numbering.
- Considerable saving of time caused by reduced set-up times.

**Functions:**

The PC-LNCE monitors the operating process on numbering machines. If switching errors occur the numbering process is stopped and a "stop" signal is passed on the press control. The position of the numbering machine, wheel and mounting ring of the wrongly switched machine and the wrongly switched wheels are set off in colour and flashed on the screen.

**Controlling possibilities:**

Depending on the size of the circumference the possible maximum number of numbering machines can be placed on the mounting ring. With a circumference of 22" these are e.g. 12 numbering machines straight. With the PC-LNCE 2000 up to 120 numbering machines per numbering shaft can be monitored simultaneously.

**Extension to LNCE:**

- Alignment control
- Special requests on demand

**Advantages:**

- Easiest operation: graphic user surface with pull-down menus according to SAA standard.
- Electronic manual
- Highest reliability by electronic monitoring
- If a wheel goes back in its starting position, this is recognised as error.
- If a wheel advances by two digits, it is recognised as error.

**Functions:**

The LM 2000 NC controls the check digit wheel by a central processor and adjusts it via a step motor on the numbering machine. It identifies data for the input of identification cards, credit cards, consignment notes, insurance policies, etc.

**Controlling possibilities:**

The processor calculates the modulus figure necessary for a certain serial number within a millisecond. Then the modulus wheel is adjusted via a step motor to the figure which has to be printed. The LM 2000 NC can be used on nearly all known WEB presses, collators and sheet fed presses. The figure wheels which are switching mechanically are switched via actuating pawls, swing, operating arm and cam as usual. The essential difference is the modulus wheel which is controlled by a step motor.

**Error control:**

- Individual figure error – one wrong figure in the number
- Exchange error – two figures are exchanged
- Double exchange error – two figure groups are exchanged
- Compensating errors – the wrong figure is used at the wrong position

**Please contact us, we would be pleased to work out a SOLUTION for your APPLICATION.**



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