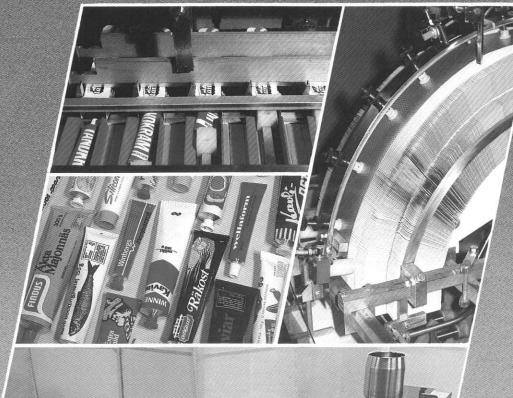
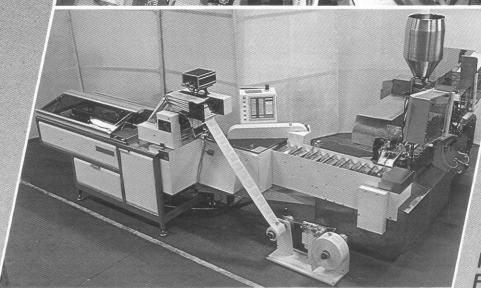
## Cardomere Series

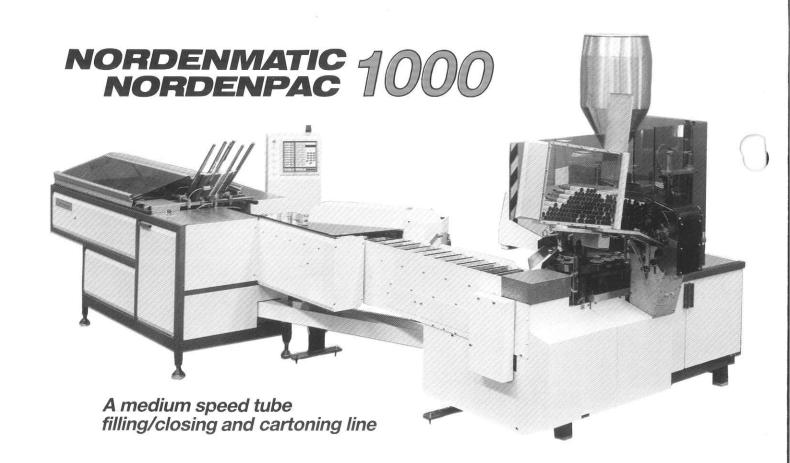
Cartoners Series 600·1000·2000

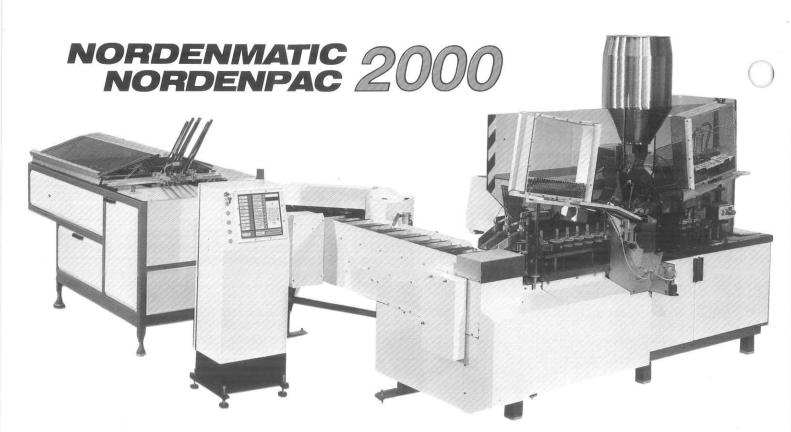




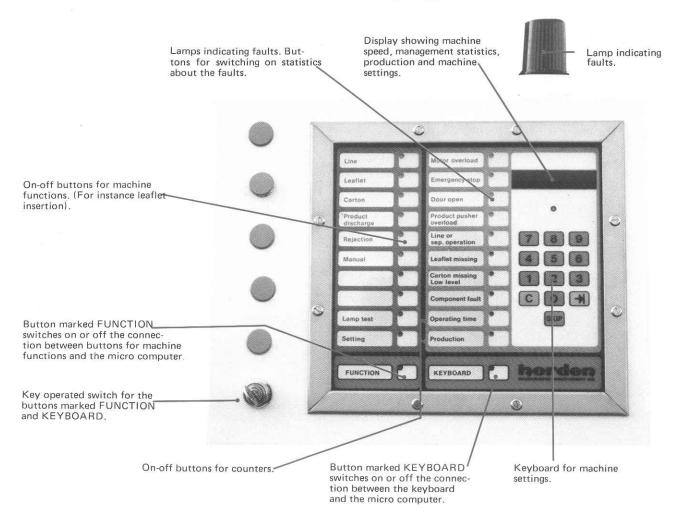
Cartoners for NORDEN Tube Filling Lines







A high speed tube filling/closing and cartoning line

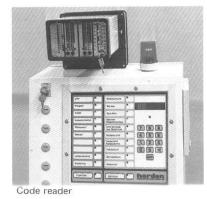


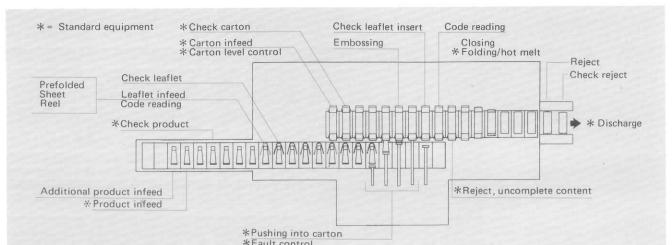
## The micro computer control system gives many advantages

The operation and control system of NORDENPAC is operating by a micro computer consisting of two units. The EPROM memory controls the basic operations. The programable RAM memory contains settings for carton and leaflet, product counting, operating time, fault statistics etc. The RAM memory is set from the panel.

If a fault occur in the machine the corresponding pilot lamp on the panel will flash and the red lamp on top of the electrical cabinet shows a steady light. The digital display shows a code which further specifies the error.

The micro computer control system gives less interruption in service, simplified control and supervision, rapid and easy change-over of different products or carton sizes.





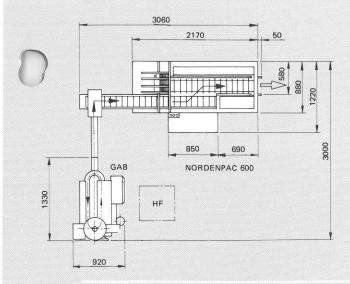
CONVEY

80

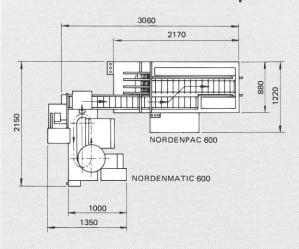
3500

## Samples of Line Arrangements

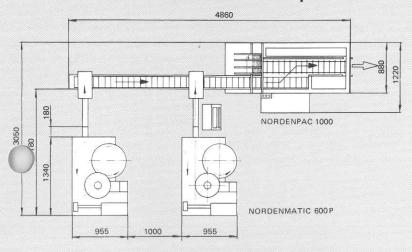
#### GAB/Nordenmatic 600



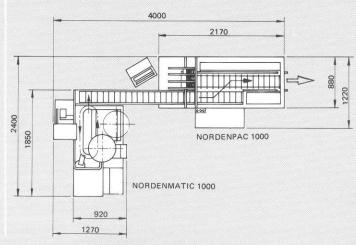
#### Nordenmatic 600/Nordenpac 600



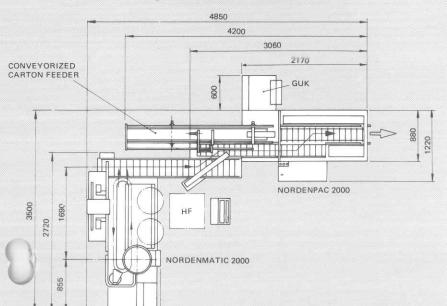
#### Two Nordenmatic 600/Nordenpac 1000



### Nordenmatic 1000/Nordenpac 1000 with compact transfer device



### Nordenmatic 2000/Nordenpac 2000 with conveyorized carton feeder



#### Carton Size Range

Type	Mi Lengti	dim. ı Widt		Max dim. mm Length Width Height						
N NX	70	X	20 20	X	15	220 220				
L LX			20 20			260 260				

#### Max. product length

At standard carton length 220 = 200 mm At carton length 260 = 250 mm At carton length 320 = 300 mm

#### **Standard Equipment** Series 1000 and 2000

Series 600 same but equipped with simplified electrical system instead of the MICRO computer control system. Specified below.

Size parts for one carton size

Closing system: (Choose one alt) Alt A: Straight tuck-in cartons Alt B: Reverse tuck-in cartons

Main motor with variable speed

Ejector vacuum system for connection to compressed air supply

Pneumatic device for release of product pusher

Overload clutch for product pusher

Product switch gear

Jogging device

Protective covers and safety guards

One set of "first-aid" spare parts

One set of tools

Colour: White RAL 9010

Tube transfer device

#### Micro Computer Control System, comprising:

- 1. Safety Functions:
- Interlock for protective covers
- Emergency stop
- Release of overload clutch machine stops
- Control and Check Functions:
- No product no carton
- Automatic ejection of product, without stopping the machine, if carton is missing
- Three consecutive ejections machine stops
- 3. Other functions:
- Key board settings
- Fault indication display
- Production statistics

Machine can be adapted to any normal electrical power standard without extra cost. Please specify when ordering.

#### **Extra and Optional** Equipment

#### A. Size Parts

Complete set of size parts for additional carton size

#### B. Leaflet Equipment

Inserter for prefolded leaflets Leaflet folder and inserter Leaflet folder and inserter from roll

#### Folding and inserting of leaflets

The folding unit is manufactured by GUK, Germany, and adapted to the cartoning machine by Norden Packaging Machinery AB. The unfolded leaflets can be taken either from a stacked pile or from a reel.

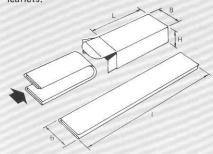
#### Quality of Leaflet Paper

Recommended weight: 25-60 g per m2, Fibre direction (Y) must be along the folds.

#### Leaflet Dimensions

Max 210x300 Min 95x 60 Folded, mm Max 210x45 Min 95x18

The minimum length, I min, of the folded leaflet depends on height H the carton and the possibility of the unit to transfer short



Standard version: Special version:

I min = 70 + H

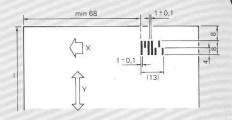
The maximum length, I, of the folded leaflet depends on length L and height H of the carton. Determine as fallows:

Carton lenght, mm Leaflet length, mm 2 x L + H - 20 L 80-125 L +H +60 max

The width, b, of the folded leaflet must be at least 3 mm less than the width B of the carton.

#### Code marking and code reading

The code mark must be printed on the reverse side of the plain leaflet. See sketch for dimensions, fibre direction (Y) and direction of leaflet motion (X) in the unit. The code can automatically be read in the Nordenpac cartoner.



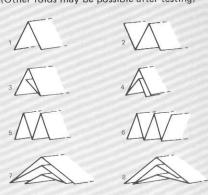
#### Prefolded leaflets

The leaflets are stacked in a magazine on the Nordenpac machine and are automatically feed into the cartons.

Measurement requirements as for the folded leaflets above.

Code reading is not possible.

Different types of folds (Other folds may be possible after testing)



#### C. Coding of Cartons

Code marking on closure flap by embossing

Alt A: Reverse carton, one line

Alt B: Reverse carton, two lines

Alt C: Straight carton, one line

Alt D: Straight carton, two lines

Code marking by printing

#### D. Miscellaneous

Applicator infeed device

Closing carton flaps by hot-melt glue

One set of recommended spare parts

Painting in other colour than standard

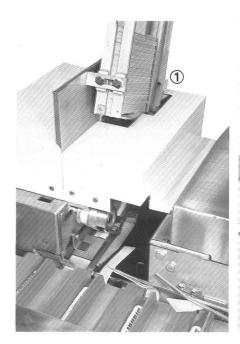
Micro computer program and data link for transmitting production statistics to printer or other computer (except 600)

#### E. Complementary Equipment, available on request

- Code readers for carton and/or leaflet
- Labellers
- Ink jet printers
- Printer for connection to micro com-
- puter system
- Check weighers
- Bundlers
- Case packers
- Wrappers
- Conveyor systems
- **Palletizers**

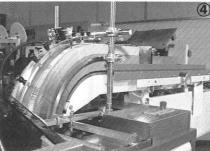
# Product infeed devices

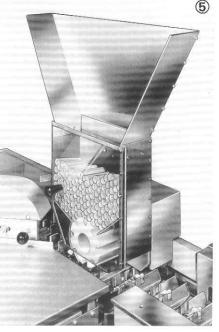
- 1. This leaflet inserter is loaded with prefolded sheets for automatic insertion into cartons with the product,
- 2. The GUK leaflet folding and insertion unit is used when leaflets are required. This unit accepts plain leaflets.
- **3.** Leaflet folder and inserter from roll.



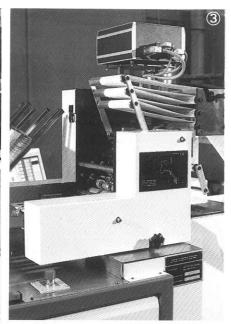
**4.** All cartoners can be equipped with conveyorized carton feeder, which can keep approximately 1000–2000 unerected cartons.







**5.** The cartoner may be equipped with infeed devices for additional articles such as spoons, spouts, spatulas, pipes, etc.





6. Equipment for hot melt closure.

#### **Technical Data**

	NP 600	NP 1000	NP 2000
Production capacity, max cartons per hour (Typical figures which may vary depen- ding on machine speed, carton size and quality, product etc.)	4 000	6 000	12 000
Attendance, operator	1	1	1
Connected power, kW	1.5	1.5	1.5
Air consumption, appr. Nm / h standard with GUK device	5 9	5 9	5 9
Air pressure, Bar	4 - 6	4 - 6	4 - 6

#### **Shipping Specification**

	Net. weight appr. kg	Gross weight appr. kg	Volume appr. m <sup>3</sup>
NP 600	800	1 200	9
NP 1000	900	1 300	9.5
NP 2000	900	1 300	9.5
Transfer Unit	300	450	2.5