



INTELLIGENT  
YARN PROCESSING



***Automatic balling machine***

# **KA 1600 & 2000 / KAG 180**

*with 16 or 20 winding positions*

*with 18 winding positions*



[www.croon-lucke.com](http://www.croon-lucke.com)

**C+L TEXTILMASCHINEN GmbH**, Flachsstrasse 14, D-88512 Mengen / Germany  
Tel.: +49 (0)7572 601-0, Fax: +49 (0)7572 601-25 info@croon-lucke.de www.croon-lucke.com

# Automatic balling machine with fully-electronic thread laying KA 1600 & 2000 / KAG 180



Color Touch Panel with storage of 300 winding programmes



Servo drive for mandrels



central winding flyer symmetry adjustment



Automatic scissors

## TECHNICAL SPECIFICATIONS:

- available with 16 or 20 winding positions (KAG 18 positions)
- for balls from 25 to 170 g (KAG 180: up to 500 g), depending on yarn count, heavier ball weights subject to trials
- mandrel sizes from 65/28 mm up to 190/44 mm (KAG 180: from 175/55 up to 300/60 mm)
- winding mandrels driven by brushless servomotor
- set-up with touch panel (no mechanical set-up needed):
  - winding length
  - winding speed
  - mandrel beam position
  - mandrel beam speed
  - crossing ratio
  - doffer / band position
  - ball holder position
- 10 different winding layers programmable with individual set-up of winding length and speed, mandrel beam position and speed plus crossing ratio for each layer
- all crossing ratios from 1:1,00000 up to 1:999,99999
- mandrel and flyer sizes etc. can be stored and shown on the touch panel for easy product set-up
- central winding flyer symmetry adjustment
- manual banding/doffing mode for production of cardboard tube balls with/without band, plus parallel winding and for lea balls
- easy change of mandrels, no tools needed
- easy maintenance by easy accessibility of the technical components
- no hydraulic drive system used for less maintenance efforts

## CONTROL SYSTEM with

- color touch screen (7" WVGA, 800 x 460 dpi) for easy set-up of all winding parameters
- fault messages in clear text plus description of problem
- in case of power failure, actual / nominal data saving to finish actual winding cycle after power restart
- data backup of winding programmes with Ethernet connection

## Standard equipment:

- automatic yarn cutting at cycle end
- air threading, no air gun needed
- parallel and lea ball winding
- yarn break control system
- flyer area control by light curtain to avoid damage on flyers and mandrels
- sort out device of unbanded balls

## Options:

- material supply creel
- electronic yarn break control
- individual yarn break control per winding position with online data transfer to automatic packaging device to separate short-length balls
- thread end inserted into the ball by mechanical hook, no vacuum or mandrel crown necessary (suitable also for crochet or fantasy yarns and angora)
- fabric mandrel covers
- connection to automatic ball packaging machines

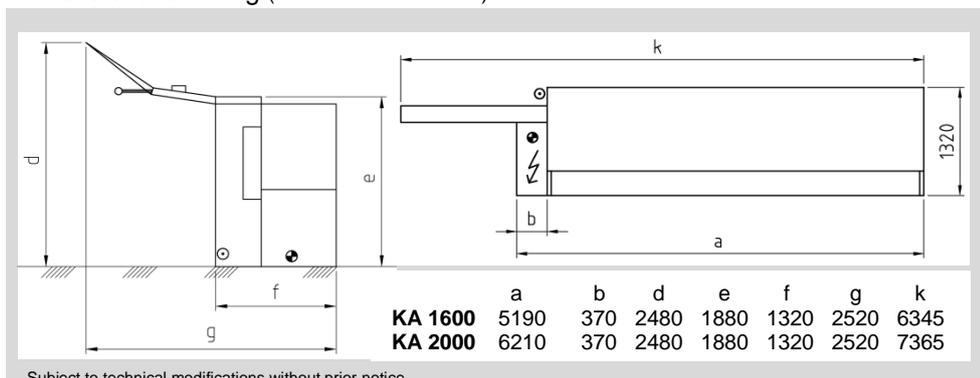


www.croon-lucke.com

**C+L Textilmaschinen GmbH**

Flachsstrasse 14  
D-88512 Mengen / Germany  
Tel.: +49 (0)7572 601-0  
Fax: +49 (0)7572 601-25  
info@croon-lucke.de

Dimensional drawing (measurements in mm)



Subject to technical modifications without prior notice