



INTELLIGENT
YARN PROCESSING



SOLUTIONS



Automatic balling machine

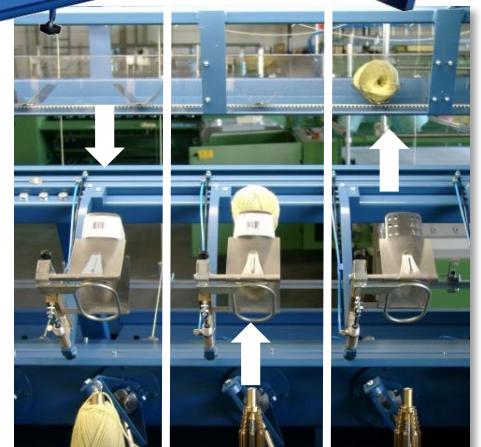
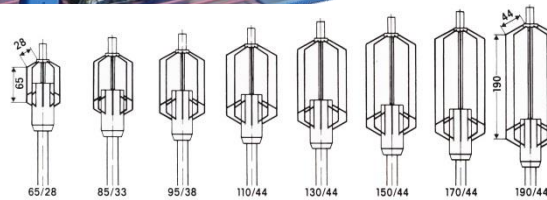
KA 1600 & 2000 / KAG 180

with 16 or 20 winding positions

with 18 winding positions



Picture: KA 2000 with optional ball packaging machine



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Automatic balling machine with fully-electronic thread laying

KA 1600 & 2000 / KAG 180



Color Touch Panel



Servo drive for mandrels



Automatic scissors



Option: Band magazine unit to retrofit model KA to model RKC for fully-automatic operation (with forklift or crane)

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

CONTROL SYSTEM with

- color touch screen 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 USB 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



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Dimensional drawing (measurements in mm)

