



## Technical Data

Carton styles and ranges	Model 110	Model 130	Model 145
Straight Line 	a 96-1,100 mm	96-1,300 mm	240-1,450 mm
	b 80-1,000 mm	80-1,000 mm	100-1,350 mm
	e <sup>1</sup> 160 mm*	180 mm*	200 mm*

Carton styles and ranges	Model 110	Model 130	Model 145
Auto Bottom 	a 192-1,100 mm	192-1,300 mm	240-1,450 mm
	b <sup>2</sup> 1,000 mm	1,000 mm	1,100 mm
	c <sup>3</sup> 50 mm	50 mm	70 mm
	d 22-250 mm	22-250 mm	30-250 mm
	e <sup>1</sup> 160 mm	180 mm	200 mm

Carton styles and ranges	Model 110	Model 130	Model 145
Double Wall 	a 100-700 mm	100-800 mm	120-1,000 mm
	b 80-1,000 mm	80-1,000 mm	100-1,000 mm
	c <sup>3</sup> 40 mm	40 mm	40 mm
	d 180-780 mm	180-880 mm	200-1,000 mm

Carton styles and ranges	Model 110	Model 130	Model 145
4 Corner (with Servofold Option) 	a 160-700 mm	160-800 mm	160-1,000 mm
	b 160-800 mm	160-800 mm	160-1,000 mm
	c 25-150 mm	25-150 mm	25-175 mm
	d 100-700 mm	100-800 mm	110-1,000 mm

Carton styles and ranges	Model 110	Model 130	Model 145
6 Corner (with Servofold Option) 	a 295-900 mm	295-1,100 mm	295-1,250 mm
	b 160-800 mm	160-800 mm	160-1,000 mm
	c 25-150 mm	25-150 mm	25-175 mm
	d <sup>4</sup> 100 mm	100 mm	110 mm

	Model 110	Model 130	Model 145
Total power (KW)	27	29	33
Line voltage (V)	3 x (380-500)	3 x (380-500)	3 x (380-500)
Size (mm)	2,100 x 14,750	2,300 x 15,240	2,300 x 15,730
Weight (kg)	9,000	10,000	11,000

Dimension e min. is the minimum panel width when running maximum width cartons.

The above dimensions may not apply to disproportioned cartons, some can be achieved with electronic gluing system.

All models are subject to design modification without notice. Table contains optional equipment.

\* on max. width

<sup>1</sup> minimum

<sup>2</sup> maximum

Koenig & Bauer Duran  
Karton Ambalaj Teknolojileri Sanayi A.Ş.  
Akcaburgaz Mah. 3122 Sk. No:6  
34522 Esenyurt Istanbul  
Turkey

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KOENIG & BAUER

# Omega Allpro 110-130-145 we build your imagination



we're on it.

Koenig & Bauer Duran | Omega Allpro 35 - 55 - 70 - 90 - 110 - 130 - 145 - 165 - 185

## You can now design your carton box as you imagine it

Koenig & Bauer Duran provides the widest range of folder gluers individually designed to exactly meet your production requirements so that you can produce packaging as you imagine.

Handling a wide range of substrates from cartonboard to corrugated, Omega Allpro gluers are extremely versatile and capable of producing the most complex range of carton styles minimizing make ready and maximizing productivity and profitability.

Presented in 9 sizes from 35 to 185 cm width, Allpro gluers produce straight line, double wall, crash lock and optional 4 & 6 corners with servo backfold system as well as countless styles including inner partition, Z-fold, conical crash lock and CD boxes at a maximum belt speed of 400 m/min.

### General Features

- Easy belt changing, shafts are not pulled for changing belts
- Upper carriers raised and lowered by easy system for easy adjustment to carton thickness
- Standard size bearings
- Solid steel frames
- Belt speed: 400 m/min on 110  
300 m/min on 130-145
- Optional motorized or automatic setup with memory versions
- Position indicators for non memorized versions
- Siemens total integrated automation control system
- Siemens color screen for the control and diagnosis of all machine functions
- Counting device with a pneumatic kicker synchronised with machine speed
- Remote control
- Auxiliary control buttons at the feeder, delivery and stacker
- User friendly set-up and operation features
- AC motors and Siemens drivers controlled by Siemens PLC for independent speed adjustment
- Siemens Servo motors, Siemens drivers and PLC for Servo Backfolding
- Easy remote connection via industrial VPN Router for fast intervention and diagnosis by eWon device
- Compatible with Industry 4.0



All Allpro gluers have motorized or motorized with memory versions available and can be equipped with blank ejecting units in three different configurations in accordance with the substrate, Omega Braille Embossing System, Omega Turnpro, Omega Nick Breaker, as well as Omega Pre-Feeder, Omega Pack Station semi-automatic packer and Omega Pack fully automated packer. Furthermore, Omega Allpro folder gluers can also be customized to meet the requirements of special projects.





#### Stacker

- Dual lead-in carriers with adjustable nose rolls to help stack irregular shaped cartons
- Pneumatic, integrated compression stacker
- Independent speed adjustment in accordance with the carton flow
- Automatic guiding and lateral correction for upper and lower aprons
- Adjustable pressure belt on stacker apron
- Mounted on adjustable wheels
- Optional rear box squaring device
- Optional pneumatic and PLC controlled dual lead in carriers for corrugated

#### Delivery Section

The delivery section provides a greater range of carton placement on the stacker apron and the ability to "kick" cartons from either side with long delivery. Dual lead-in carriers provide optimum stacking control for irregular shaped cartons. The adjustable nose rolls maximize pile depth in the compression section whether understacking or overstacking

- Dual adjustable 2 lower and 2 upper extended delivery carriers with easy adjustment for all kinds of carton styles and sizes
- Breaker rolls
- Belts can be adjusted while the carriers are running
- Kicker / counter
- Electronic regulation system to provide continuous carton flow to the stacker entry

#### Final Fold Section

- Long final fold to provide easy box flowing
- Drop in center carrier with 24 mm lower and 19 mm upper belts
- Folder belts with independently adjustable speed
- Chromium plated and sliding folding rollers with different angles which can be adjusted at four different positions
- Easily adjustable lower left hand glue pot with 226 mm Ø wheel
- 2 standard changeable brass glue disks available from 2,5 to 13 mm
- Polyamide guides
- Two different sized multi positioned swords
- Pneumatic squaring system for micro flute auto bottom boxes
- Center carrier with sleeping position providing easier set up for small sized boxes (standard on 110, optional on 130-145)

#### Optional Servo Back Folding System for 4 & 6 Corners

The Servo Back Fold System with single finger provides consistent and uninterrupted 4 & 6 corner back fold function and allows folding of all types of boxes within the machine range automatically by making all the adjustments for the operator, after the operator simply inputs the flap length. The touch screen input pad enables the operator to make changes to all parameters allowing for different board grains, thicknesses and types. Each job is saved in electronic value memory for future orders.

- 2 sets (6 pcs) of different sized, wooden (rock maple), folding shoes
- Polyamide guides on final fold section for 4 corner with lid
- Sliding end rolls on both sides of machine on final fold for 4 corner boxes with lid and special carton styles
- Located on PF1 and PF2 sections

#### Auto Bottom Unit

- 3 sets (12 pieces) of shoes in different sizes
- 6 pieces of folding hook assemblies
- Various sized hooks
- Located on PF1 and PF2

#### Pre-Fold Sections (PF1+PF2)

- 3 full length lower carriers and 3 upper carriers on each section
- Pre-break of the first creasing line up to 180°
- Pre-break of the third creasing line up to 135°
- Third score belt 30 mm
- Left and right hand glue flap breakers
- High speed third score opener

#### Feeder

- Motor vibrating feed pile support for separating blanks and eliminating skips and doubles
- 2 different sized pile supports
- Dual diamond tipped feed gates adjustable in four directions, providing precise control on all blanks
- Hopper sides independently adjustable in four directions
- Modular feed carriers with individual belt tightening
- Easily adjusted rack style blank support for longer cartons
- Optional vacuum system on 3 center belts

#### Optional Double Sided Register Section (Blank Aligner)

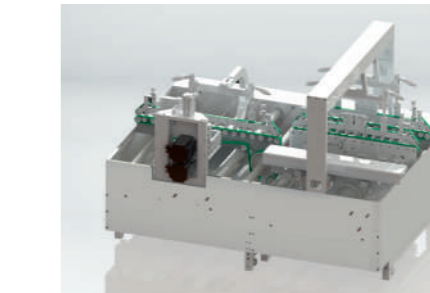
The modular Side Register Section squares cartons prior to entering the folding section, giving additional control over blanks.

- Double sided alignment with full width of the machine
- Minimum registering flaps (40 mm) on 110 (60 mm) on 130, 145
- Easily adjusted to various material thickness
- 2 sets of extra carriers with 2 lower (24 mm), 2 upper (19 mm) belts
- Section Length: 1.000 mm on 110 1.650 mm on 130-145

## Related Products Omega Allpro 110-130-145

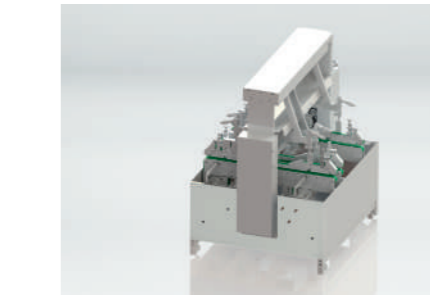


**Omega Pre-Feeder** is an independent machine for continuous and high-speed blank feeding for cardboard and corrugated material into folder gluers. The Pre-Feeder has a wide range of models; 55-90-110-145, works in synchronization with the main line and can be integrated to all folder gluers.

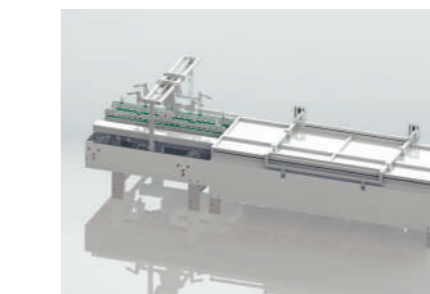


**Omega Braille Embossing System** provides efficient and high-speed Braille embossing on Omega folder gluers. It is an economical yet very effective solution as the embossing is performed separately on each blank. This servo driven system has two discs; the male disc plate can be designed to have dual or even triple embossing feature to reach the targeted

high productivity. The location of embossing can be adjusted as required. This section can be incorporated on all Omega Allpro and Intro folder gluers within the 35 to 110 cm width range, can be by-passed when embossing is not required and can be integrated with quality assurance systems specific to Braille embossing.

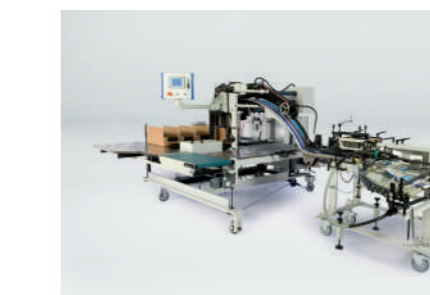


**Omega Nick Breaker** is a specialty device which allows for high-speed and efficient folding and gluing process of special design blanks such as beverage multi-pack cartons with nicks. It is a servo driven module which can be integrated on all Omega Allpro folder gluers in 70-145 cm width range.



**Omega Turnpro** is a separate module which turns the direction of the carton flow by 90 degrees on the folder gluer and is a significant value-add feature. It is developed for producing specific cartons, such as multi-pack beverage carriers, confectionary, e-commerce and cosmetics boxes for high speed production in a single pass.

Omega Turnpro can be incorporated on all Omega Allpro folder gluers in the 90-145 cm width range. The machines with Turnpro can produce all standard carton styles like straight-line, auto-bottom, double wall, 4 & 6 corners in addition to the special carton styles they are designed for.



**Omega Pack** is a fully automated case packer to complement the high-speed carton production on Omega folder gluers. Omega Pack can pack up to 4 rows and 4 layers, requires a single operator and takes 10-15 minutes to make ready. It handles straightline

and 4 & 6 corner work as well as many others in its working range, can pack on crease lines or end flaps which provides for superior stacking strength. It is an independent machine that can be integrated to all folder gluers.