

K90

K90 is suitable for:

Sheets

Signatures/
32-page production



K90

K90 – Pure productivity

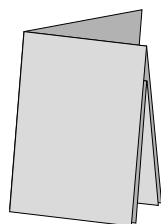
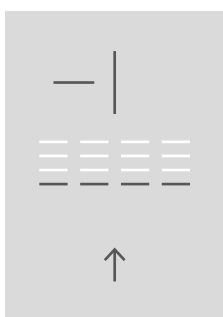
The K90 combi folding machine stands for absolute precision and productivity. The K90 is ideal for folding signatures with medium and high production runs. The immaculate quality level familiar from MBO is also reflected in the high-quality, standard features of the K90. For

example, the tried and trusted belt drive and the first buckle plate with continuous sheet stop provide reliable production stability and outstanding folding results. With a mobile knife folding unit of type Z2 or Z6, the range of folding types by the K90 can be expanded even further.

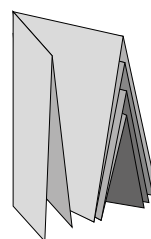
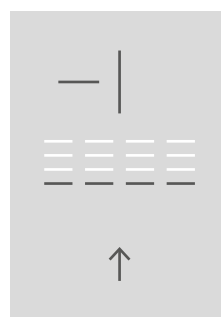
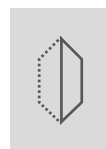


Typical fold types

The K90 can be used to produce the following fold types, among others:



16 pages
3 x cross fold



32 pages
4 x cross fold

Features

Machine control

Standard feature:

- Machine control M1 Basic with touchscreen

Additional feature:

- Datamanager 4.0
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Feeder

Standard features:

- Palletized feeder with feeder head VacuJet
 - Sheet infeed and sheet alignment with suction wheel and ball rail
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Parallel fold

Standard features:

- 4 buckle plates
- 1st buckle plate with swing deflector and continuous sheet stop
- 2nd-4th buckle plate with swing deflector
- Spiral fold rollers with hard PU
- Single rear slitter shafts
- Perforating-, scoring- and cutting devices for standard jobs
- Maintenance and noise-free belt drive
- Noise insulation and safety device

Alternative features:

- 2nd-4th buckle plate as combination buckle plates
- Virotec fold rollers

Additional feature:

- Various slitter shaft accessories, for example gully cut device, edge trim device, punch perforating device, multiple perforation device, etc.
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Cross fold / three-fold

Standard features:

- Pneumatic cross fold knife
- KL configuration
- Pneumatic three-fold knife
- Spiral fold rollers with hard PU
- Slitter shafts in the cross fold and three-fold
- Perforating-, scoring- and cutting devices for standard jobs
- Maintenance and noise-free belt drive

Additional feature:

- Various slitter shaft accessories, for example gully cut device, edge trim device, punch perforating device, multiple perforation device, etc.



Machine control M1 Basic with touchscreen

Standard feature

The K90 with machine control M1 Basic is equipped with a touchscreen. The screen diagonal is 10.1". In addition, the K90 is equipped with sheet monitoring by means of optical sensors. With the hood closed, the K90 with M1 Basic can be operated in jog mode.



Feeder head Vacujet in the palletized feeder

Standard feature

The newly developed feeder head Vacujet features exceptional ease of operation. Its four bellows units offer automatic height adjustment to the paper stack and thus guarantee smooth running even with uneven pallets. The Vacujet achieves a frequency of up to 25,000 cycles per hour.



Maintenance and noise-free belt drive

Standard feature

The proven MBO belt drive guarantees extremely quiet operation and long maintenance-free periods. Thanks to the auto-tensioning elements, controlling and readjusting is no longer necessary. The functionality is monitored by the machine controller. Low follow-up and operational costs make the MBO belt drive an especially efficient long-term solution.



Spiral fold rollers with hard PU

Standard feature

Spiral fold rollers with hard PU feature very good grip, very quiet running and a sharp fold. As steel and PU never run in line together, they are absolutely free of marks. In addition, they have a longer service life.



Virotec fold rollers

Alternative feature in the parallel fold

The Virotec fold rollers are the MBO "all-rounders". They consist of alternating metal and special PU segments that are offset against one another. Virotec fold rollers permit very good fold quality – even with challenging materials, such as recycled or thin printing papers and at high folding speeds.



Buckle plates with swing deflector

Standard feature

The manually adjustable swing deflector means that the buckle plate can be easily opened and closed. The infinite precision adjustment ensures accurate adjustment of the buckle plate. The first buckle plate is always equipped with a continuous sheet stop. This enlarges the contact surface of the sheet by around 30 percent. The greater contact surface means that the sheet is not deformed, contributing to improved fold quality at high speeds.



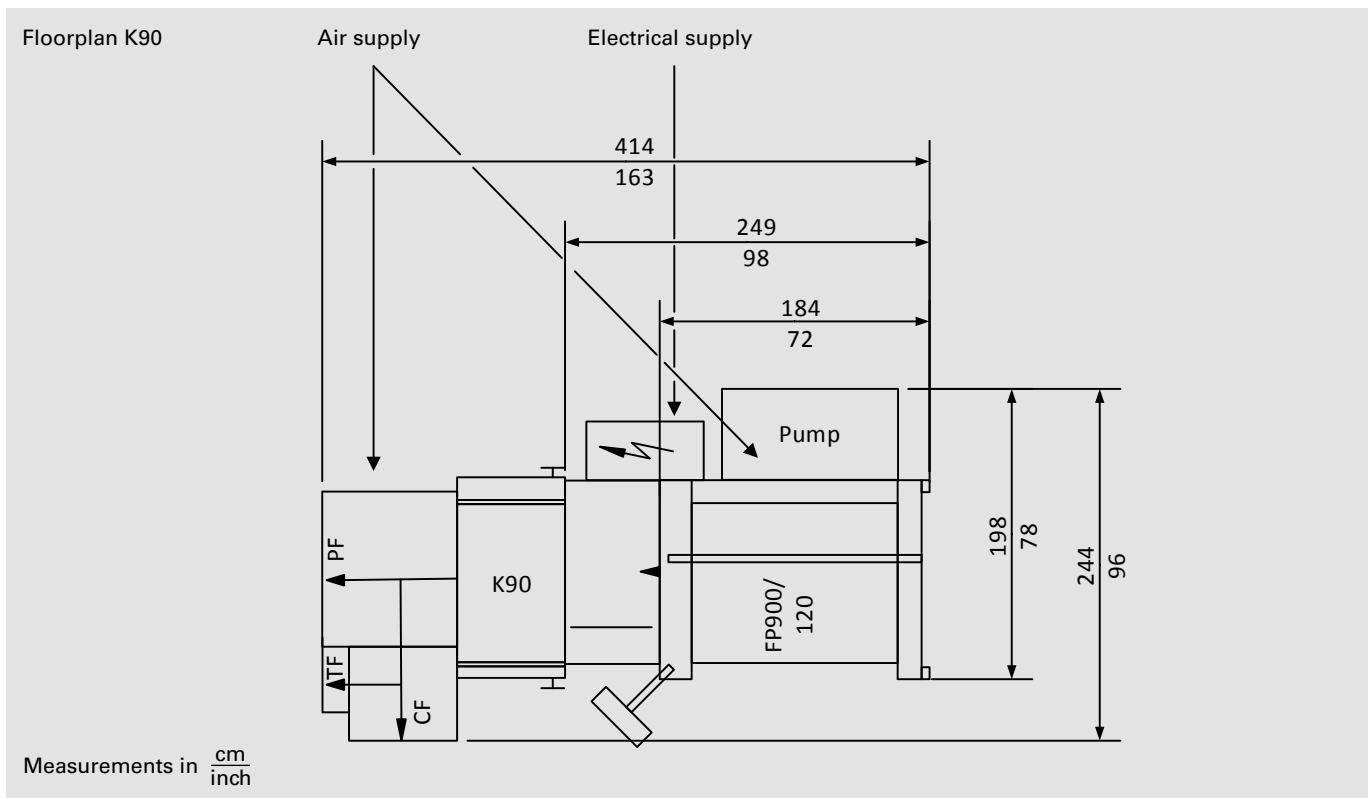
Combination buckle plates

Alternative feature in the parallel fold

Combination buckle plates can be easily opened and closed, without the plates having to be removed from the machine. This means that setup times can be minimised and damage to the plates avoided. The profiles of the combination buckle plates are nickel-plated. This permits low-friction sheet deflection as well as stable perforations and scores, even at high folding speeds.

Technical specifications

		K90 – FP (Palletized feeder)		Cross fold		Three-fold	
		cm	inch	cm	inch	cm	inch
Pile height	max.	120.0	47 1/4	–	–	–	–
	min.	20.0	8	20.0	8	15.0	5 7/8
Infeed width	max.	88.0	34 3/4	88.0	34 3/4	61.0	24
	min.	25.0	9 7/8	15.0	5 7/8	15.0	5 7/8
Infeed length	max.	118.0	46 3/8	61.0	24	46.0	18 1/8
	min.	6.0	2 3/8	–	–	–	–
Number of buckle plates		4		–		–	
Fold roller diameter		mm	inch	mm	inch	mm	inch
		43.7	1 3/4	43.7	1 3/4	43.7	1 3/4
Slitter shaft diameter		35.0	1 3/8	35.0	1 3/8	35.0	1 3/8
Product thickness at exit (thicker on request)	max.	1.5	1/16	3.0	1/8	3.0	1/8
Speed	min.	30 m/min (98 fpm)					
	max.	210 m/min (689 fpm)					
Electrical supply	M1 Basic (3 x 400 V 50/60 Hz)	7.5 kVA max. 63 A		–		–	
Compressed air supply		16 l/min 6 bar					



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