



Your benefits at a glance:

- Excellent folding quality even for very high outputs
- Double stream production for higher output
- Full automation option and option to automate individual functional groups
- Maximum variety of folding types for flexible application
- Highest operator convenience thanks to unique MBO features

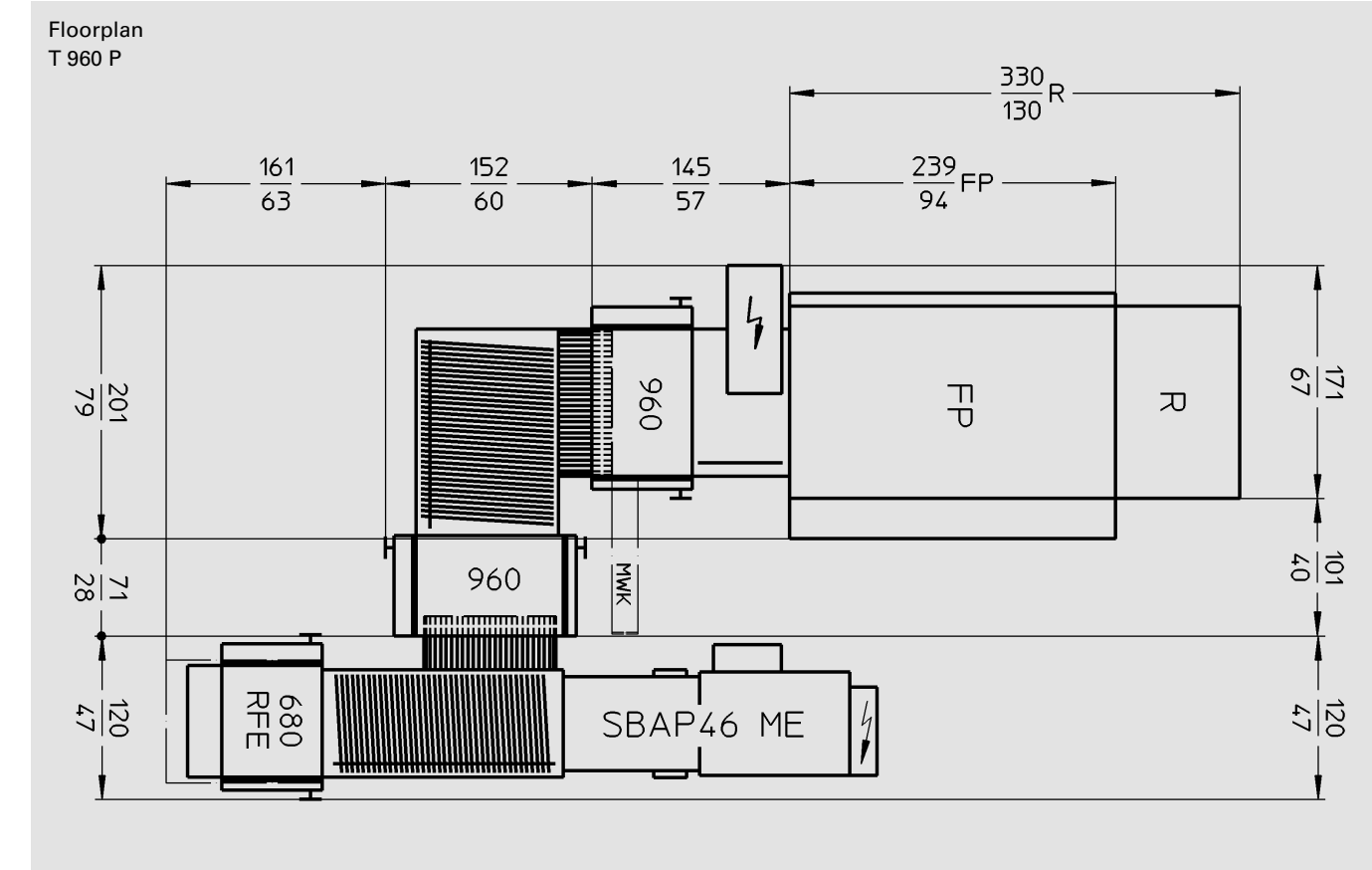


DUALFEED continuous feeder

Special equipment: FP palletised feeder, NAVIGATOR control with touchscreen, long conveyor table with ejection device and alternating deflector, slitter shaft cassette MWK for folding unit II, noise insulation device and delivery ASP 66.

Technical Data

Machine / Unit	T 960 – R		T 960 – FP		Folding unit II 96		Folding unit III 68		Folding unit III 68 + RFE		
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	
Infeed width	min	17,00	6 3/4	30,00	11 3/4	–	–	–	–	–	–
	max	96,00	37 3/4	96,00	37 3/4	94,00	37	68,00	26 3/4	64,00	25 1/4
Infeed length	min	20,00	7 7/8	25,00	9 7/8	–	–	–	–	–	–
	max	120,00 (175)	47 1/4	145,00	57 1/8	–	–	–	–	–	–
With small format device	min	17,00	6 3/4	17,00	6 3/4	–	–	–	–	–	–
Folding length	min	6,00	2 3/8	6,00	2 3/8	6,00	2 3/8	6,00	2 3/8	6,00	2 3/8
NIRO buckle plates											
Buckle plate 1	max	70,00	27 1/2	70,00	27 1/2	70,00	27 1/2	49,00	19 1/4	49,00	19 1/4
Buckle plate 2	max	70,00	27 1/2	70,00	27 1/2	49,00	19 1/4	49,00	19 1/4	31,00	12 1/4
Other buckle plates	max	49,00	19 1/4	49,00	19 1/4	49,00	19 1/4	49,00	19 1/4	3: 49,00 4: 21,00	3: 19 1/4 4: 8 1/4
Combiplates											
Buckle plate 1	max	64,00	25 1/4	64,00	25 1/4	64,00	25 1/4	43,00	16 7/8	43,00	16 7/8
Buckle plate 2	max	64,00	25 1/4	64,00	25 1/4	43,00	16 7/8	43,00	16 7/8	31,00	12 1/4
Other buckle plates	max	43,00	16 7/8	43,00	16 7/8	43,00	16 7/8	43,00	16 7/8	3: 49,00 4: 21,00	3: 19 1/4 4: 8 1/4
Number of buckle plates	min	4		4		4		2		2	
	max	6		6		6		4		4	
Fold roller diameter	mm	43,70	1 3/4	43,70	1 3/4	43,70	1 3/4	43,70	1 3/4	43,70	1 3/4
	inch	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
Slitter shaft diameter	mm	40,00	1 5/8	40,00	1 5/8	40,00	1 5/8	35,00	1 3/8	35,00	1 3/8
	inch	1 5/8		1 5/8		1 5/8		1 3/8		1 3/8	
Product thickness at exit (thicker on request)	mm	2,00	1/16	2,00	1/16	2,00	1/16	2,00	1/16	2,00	1/16
	inch	1/16		1/16		1/16		1/16		1/16	
Speed	m/min	10	394	10	394	10	394	10	394	10	394
	inch/min	230	9055	230	9055	205	8071	205	8071	205	8071
Control	MC Control/NAVIGATOR Control, electronically adjustable										



MBO Maschinenbau Oppenweiler Binder GmbH & Co. KG
 Grabenstraße 4-6 • 71570 Oppenweiler • Germany
 Phone +49 (0) 7191/46-0 • info@mbo-folder.com
www.mbo-folder.com

T 960 P

Top precision in medium and large formats



T 960 P



Tailor-made folding solution

Buckle folding machines by MBO convince with their universal application range and unique bandwidth of folding types.

All models of the Perfection series basically stand for the highest possible folding performance and maximum output. MBO folding machines and features are orientated on the users – both regarding practical requirements and the variety of the paper medium. Convenience plays a major role. The simpler the processes and workflows, the more efficient becomes production. With its high performance and excellent quality, the T 960 Perfection provides the ideal preconditions for highest productivity. A broad range

of folding types and individual automation options up to full automation guarantee that the Perfection series lives up to its name.

The equipment features of our folding machines have been especially designed for the purpose of their application. We never rest on our well-proven product development achievements but always try to recognise new requirements as early as possible. Ideally soon enough to offer you a solution before you even face the problem. Some of these special solutions can be found on the T 960 Perfection.

MBO Features



VIVAS

VIVAS is the reliable option for a flat sheet infeed and sheet running with high conveying power. The VIVAS vacuum system replaces the standard ball rails, thus guaranteeing marking-free documents, even if sensitive or freshly printed. The vacuum on the suction belt may be regulated within two zones independently of each other. Since all settings can be done during the production run, short changeover times are guaranteed.



Slitter shaft cassette MWK

The slitter shaft cassette of the Perfection series can be drawn out and reduces changeover times to a minimum. In an ergonomically favourable height the cassette can be easily and quickly drawn out on the operator side. The scale on the cassette allows the precise adjustment and positioning of the knives. Moreover, all needed strippers (like e.g. strip trimming device) can be mounted directly on the cassette.



VACULIFT III

The VACULIFT feeder head provides a constant and optimal sheet separation – even if the pile is “undulated”. The motor-driven height adjustment controlled by a presser foot positioned in centre ensures constant distance of the suckers towards the pile. Since the VACULIFT scans the position in the middle of the pile no readjustment is required. An even higher performance is achieved by the further developed version VACULIFT III. With four instead of two suckers and pre-blowers plus extended options to adjust the pre-blowers an even more reliable separation of the sheets is ensured.



Pre-slitter shafts

The pre-slitter shafts guarantee the quality result and safe production process for special gluing, mailing, perforating or timed perforation functions. The bearing plugs guarantee the time-saving changing and changeover of parts. An additional pair of guide rollers in front of the slitter shafts ensures that the paper is safely guided even at high speeds.



RFE Sheet return unit

The sheet return unit is optionally available for the mobile buckle folding units (folding unit III) on MBO Perfection machines. It offers more convenience for the operator by reducing the distance between the feeder and the delivery by approximately 80 %, thus making it possible that even buckle folding machines may be operated by one operator only. This results in a higher effective output, lower staff cost and a considerable reduction of required space.

Flexible production



A special conveyor table that can be used on folding unit I opens up new production options for you with a single additional investment. The conveyor table permanently affixed to folding unit I is equipped with what is known as an alternating deflector. The alternating deflector can distribute the sheet stream from folding unit I alternately on two sidelay in folding unit II. This halves the mechanical speed of the second folding unit and this unit is able to process the higher output of the first folding unit, particularly with landscape formats. Halving the speed guarantees high folding quality and reliable corner deflection in folding unit II. This means that for many products that could often produce a higher speed in the first folding unit, but that are slowed down by the second folding unit (fold

variations, difficult corner deflection, flying corners with thin products), the output can be increased by up to 40 %. All with just one turn of the handle.

In addition to the increased output, there is another effect that plays a significant role. Overrunning images are no longer controlled via multiple crossfolds. Instead, the quality is set in the first folding unit itself via the first fold.

A high net output can be achieved thanks to the waste sheet deflector integrated into the conveyor table. Incorrectly folded sheets and double sheets are detected by the ultrasonic double sheet control here and ejected during production before the alternating deflector.

Further possibilities of the transfer table:

With the specialized MBO transfer table it's easy to setup traditional double stream production; no time consuming add-on installations would be required. For standard production with only one sidelay in folding unit II the alternating deflector is easily deactivated with a switch.



Double stream production



Production with alternating deflector

Numerous advantages, combined in one machine

Special equipment: FP palletised feeder, NAVIGATOR control with touchscreen, long conveyor table with ejection device and alternating deflector, slitter shaft cassette MWK for folding unit II, noise insulation device and delivery ASP 66.



DUALFEED continuous feeder

Top quality at top speed

MBO Perfection models are the only buckle folding machines worldwide operating without the “ball” transport system which is very susceptible to markings. In order to reliably avoid markings even for high throughput speeds, MBO applies the innovative vacuum infeed and alignment system VIVAS, as well as patented HIGH-SPEED-GUIDE conical rollers.

Impressive standard equipment and effective extensions

The Perfection series features unique MBO systems, many years of experience of developing and optimising folding processes and the typical user-friendliness MBO is renowned for.

With an excellent level of basic equipment and a wide choice of expansion opportunities, these machines in the Perfection series provide the maximum range of options: greater output thanks to the double stream unit, increased capacity thanks to special delivery units, greater ease-of-use from the NAVIGATOR control – or thanks to the patented MBO RFE sheet return unit that reduces the path between the feeder and delivery by up to 80 % in comparison to standard large format systems.

Standard equipment and options

Equipment:

- MC Control
- DUALFEED continuous feeder
- VIVAS
- Anti-static lattice-type alignment table
- NIRO buckle plates with swing deflectors
- Through sheet stops in buckles 1 and 2
- Low maintenance and low noise belt drive
- Spiral foldrollers with standard PU roller coating
- Scoring, perforating and cutting devices for standard operations
- Short transfer table
- HIGH-SPEED-GUIDE
- Slitter shaft cassette MWK for single rear slitter shaft in folding unit I

Alternative/Additional Equipment:

- NAVIGATOR Control
- TOUCHSCREEN
- DATA MANAGER
- FP palletised feeder
- Pre-slitter shafts with guide rollers
- Double rear slitter shafts
- Slitter shaft cassette MWK for folding unit II
- COMBIPLATE combination buckle plates
- Extension to 6 buckle plates
- WINPLATE gatefold plate
- Double stream device
- Sheet return device RFE for folding unit III
- Noise insulation device
- Strip trimming device
- Multiple perforating device
- Edge trimming device
- Punch perforating device
- Various peripheral units
- Various deliveries
- Long conveyor table with ejection device in folding unit I
- Long conveyor table with ejection device in folding unit I including electronic double sheet control (ultrasonic sensor)
- HIGH-GRIP spiral fold rollers
- VIRO-TEC fold rollers
- Automation RAPIDSET
 - Feeders F, R, FP
 - Alignment ruler register table
 - Buckle plate and sheet deflector adjustment
 - Foldrollers and slitter shafts adjustment*
 - Side ruler on subsequent folding units

*With MWK, the slitter shafts are adjusted manually.