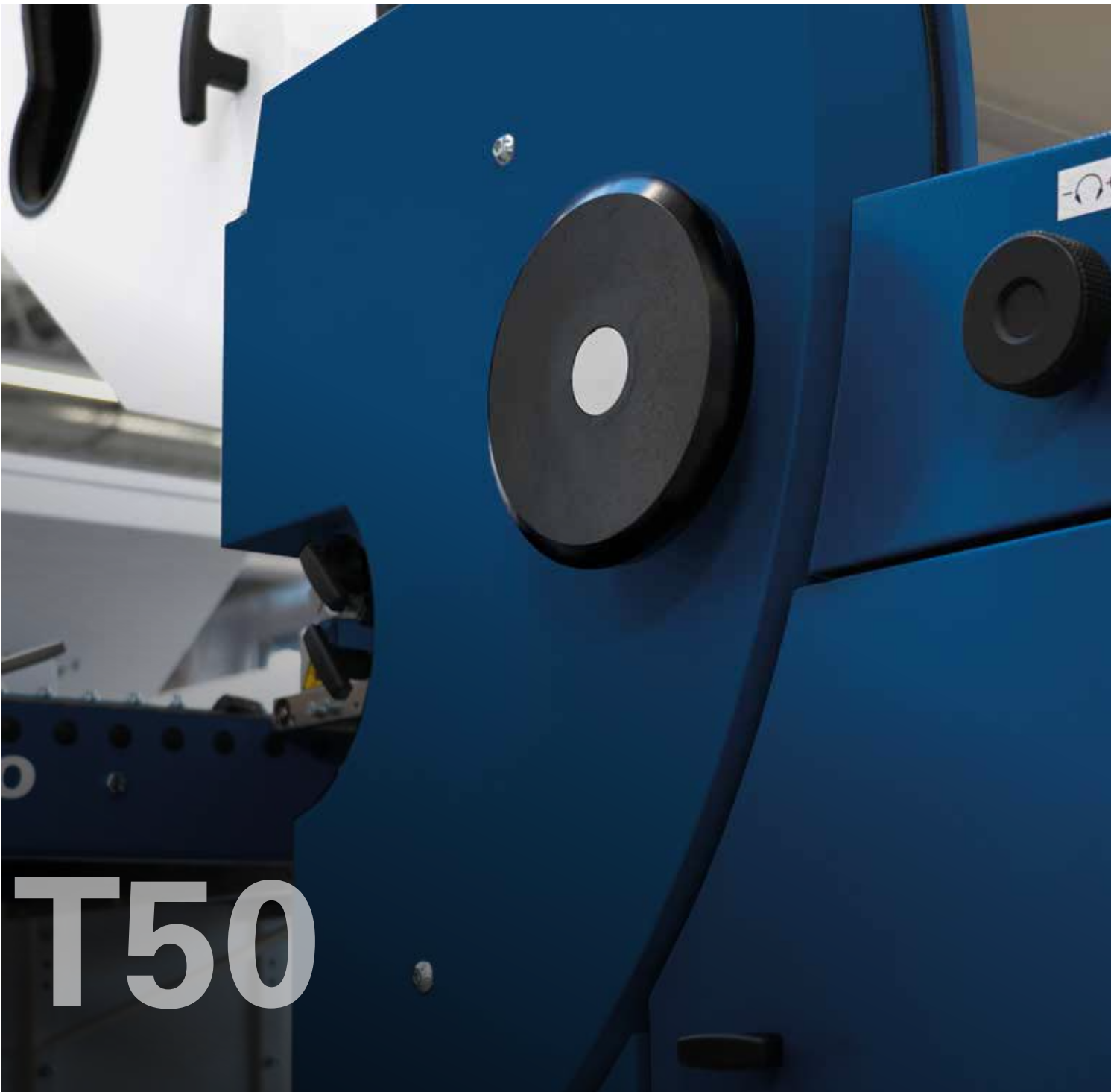


# T50

T50 is suitable for:

Sheets

B2/50x70 cm



# T50

# T50 – The all-purpose solution for the half-size format

The T50 is MBO's answer to wide-ranging customer requirements in the 50 x 70 cm half-size format. Equipped with the latest generation M1 machine control, it can be optimally configured for every application. The T50 offers more than simply the tried and trusted MBO standards such as the belt drive and the slitter shafts with plug bearings. Many of the high-end features of its "big

brothers" are also available as options. With a Vivas vacuum system, slitter shaft cassette and comprehensive automation options, it can be optimally tailored to any job requirements. It features a valuable equipment level as standard, including an intuitive operation touchscreen and marking-free sheet alignment via High-Speed-Guide in the second folding unit.



Automated T50 with pile feeder, folding unit II and ASP66L delivery.

## Even greater variability with the mobile knife folding unit X50

The mobile knife folding unit expands the folding type range of the T50 and allows additional crossfolds and special folding types to be produced. The knife is pneumatically driven and features particularly low wear-off. The knife folding unit is height adjustable and can therefore be used as a second or third folding unit. Rear slitter shafts incorporated as standard are positioned parallel to the folding knife and open up further application options. Gatefold brushes available as optional equipment can be used to produce closed gatefolds. To achieve this, the knife folding unit is used as a third folding unit.



Mobile knife folding unit X50 with lateral fine adjustment.



# Features

## Machine control

### Standard feature:

- M1 Basic machine control with touchscreen

### Additional features with M1 Basic machine control:

- RAS Remote Access Software
- Datamanager 4.0 with limited functionality (only available in conjunction with RAS Remote Access Software)

### Alternative feature:

- M1 Advanced machine control with touchscreen and RAS Remote Access Software

### Additional feature with M1 Advanced machine control:

- Datamanager 4.0

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## Feeder

### Standard features:

- Pile feeder
- Sheet infeed and sheet alignment with suction wheel and ball rail

### Alternative features:

- Continuous feeder
- Vivas (Vacubelt and Vacutable)

### Additional features:

- Feeder head Vacustar in the pile feeder
- FLS feeder loading system in the pile feeder
- Small format device in the pile feeder

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## Folding unit I

### Standard features:

- 4 buckle plates
- 1<sup>st</sup> buckle plate with swing deflector and continuous sheet stop
- 2<sup>nd</sup>-4<sup>th</sup> buckle plate with swing deflector
- Spiral fold rollers with hard PU
- Single rear slitter shafts
- Perforating-, scoring- and cutting devices for standard jobs
- Transfer table
- Maintenance and noise-free belt drive
- Two-part sound insulation unit

### Alternative features:

- 6 buckle plates
- 2<sup>nd</sup>-4<sup>th</sup> (optionally up to 6<sup>th</sup>) buckle plate as combination buckle plates
- Virotec fold rollers

### Additional features:

- Gatefold plate
- Slitter shaft cassette for single rear slitter shafts
- Various slitter shaft accessories, for example gully cut device, edge trim device, punch perforating device, multiple perforation device, etc.
- Glue fold device

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## Folding unit II

### Standard features:

- 4 buckle plates
- 1<sup>st</sup> buckle plate with swing deflector and continuous sheet stop
- 2<sup>nd</sup>-4<sup>th</sup> buckle plate with swing deflector
- Spiral fold rollers with hard PU
- Single rear slitter shafts
- Perforating-, scoring- and cutting devices for standard jobs
- High-Speed-Guide
- Transfer table
- Maintenance and noise-free belt drive
- Two-part sound insulation unit

### Alternative features:

- 6 buckle plates
- 2<sup>nd</sup>-4<sup>th</sup> (optionally up to 6<sup>th</sup>) buckle plate as combination buckle plates
- Virotec fold rollers

### Additional features:

- Gatefold plate (only with machine control M1 Advanced)
- Various slitter shaft accessories, for example gully cut device, edge trim device, punch perforating device, multiple perforation device, etc.

## Knife folding unit X50

### Standard features:

- Pneumatic knife
- Spiral fold rollers with hard PU
- Single rear slitter shafts
- Perforating-, scoring- and cutting devices for standard jobs

### Additional features:

- Lateral fine adjustment of the entire knife unit
- Gatefold brushes for producing a closed gatefold (can only be used when the knife folding unit is used as folding unit III)
- Edge trim device

### Optional automation with M1 Advanced machine control

- Buckle plates, sheet deflectors and fold rollers in folding unit I and II
- Slitter shaft settings in folding unit I and II (only possible if no slitter shaft cassette is present)



#### M1 Basic machine control

Standard feature

The first folding unit of the T50 with M1 Basic machine control is equipped with a touchscreen. In addition, the first folding unit is equipped with sheet monitoring by means of optical sensors. A router for the RAS Remote Access Software is optionally available. This is a prerequisite for the Datamanager 4.0, which is also optional.



#### M1 Advanced machine control

Alternative feature

The M1 Advanced machine control can be operated from any folding unit. Common standard folding impositions are preconfigured. In addition, optimal sheet gaps are automatically calculated and set in all folding units. In addition, the M1 Advanced machine control features sheet monitoring across all folding units.



#### Continuous feeder

Alternative feature

The continuous feeder is suitable for interruption-free processing of challenging paper types. It is also a desirable choice for processing pre-folded, pre-perforated or punched products. The feeder is loaded manually, during ongoing production.



### **Vivas (Vacubelt and Vacutable)**

Alternative feature

Vivas ensures reliable flat sheet infeed and optimum sheet run with high throughput capacity. The Vivas vacuum system replaces the standard suction wheel and the ball rails. Vivas also guarantees no marks, even with delicate and freshly printed products. The vacuum of the suction belt can be adjusted infinitely for the corresponding paper quality during ongoing production and saved (with M1 Advanced machine control).



### **Feeder head Vacustar in the pile feeder**

Additional feature

The Vacustar feeder head offers exceptional ease of operation. Based on the suction principle, it ensures reliable separation of the sheets. The height of the feeder head is adjusted automatically. The Vacustar is ideal for medium-sized formats and small print runs achieving a frequency of up to 60,000 cycles per hour.



### **Virotec fold rollers**

Alternative feature

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.



### **Slitter shaft cassette for single rear slitter shafts**

Additional feature in folding unit I

The slitter shaft cassette is removable. At the ergonomically ideal height, all tools and strippers can be adjusted quickly and precisely, outside the machine. This means the operator does not have to lean inside the machine and can work in ergonomic comfort. The slitter shaft cassette therefore permits a one-person operation. It also contributes to a reduction in set-up time of up to 60 %, for example in multi-up production.



### **High-Speed-Guide**

Standard feature in folding unit II

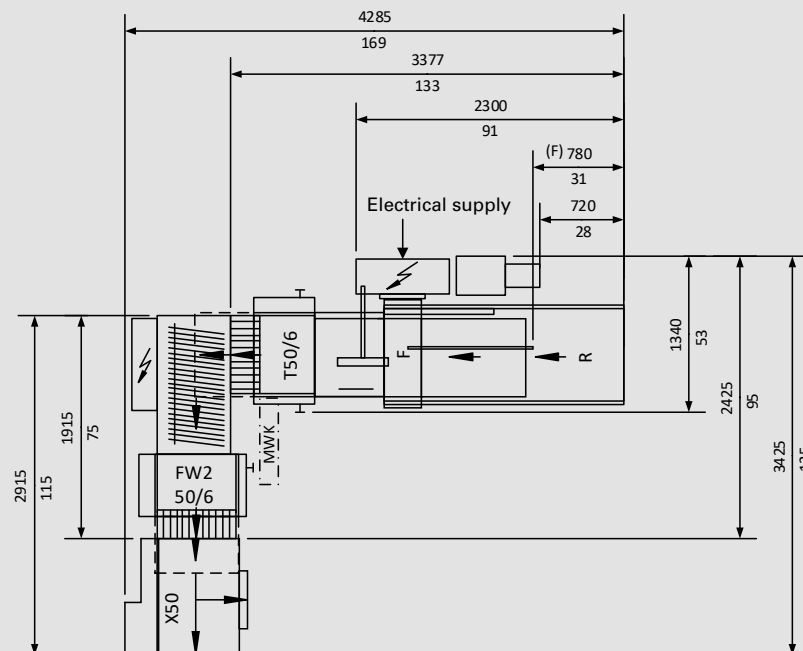
Thanks to the conical rollers, the High-Speed-Guide guarantees absolutely safe sheet transport, even at high speeds. Due to the non-slip drive of the folding products markings can be ruled out, even if sensitive products are processed.

# Technical specifications

		T50 – F (Pile feeder)		T50 – R (Continuous feeder)		Folding unit II 50		Knife folding unit X50	
		mm	inch	mm	inch	mm	inch	mm	inch
Pile height	max.	650	25 5/8	–	–	–	–	–	–
	min.	150 (105 <sup>1</sup> )	6 (4 1/8 <sup>1</sup> )	150	6	–	–	150	6
Infeed width	max.	530	20 7/8	530	20 7/8	510	20 1/8	570	22 3/8
	min.	150 (105 <sup>1</sup> )	6 (4 1/8 <sup>1</sup> )	180	7	–	–	100	4
Infeed length	max.	840	33 1/8	840 (1,000)	33 1/8 (40)	–	–	410	16 1/8
	min.	36	1 3/8	36	1 3/8	36	1 3/8	–	–
Folding length	min.	36	1 3/8	36	1 3/8	36	1 3/8	–	–
Number of buckle plates		4 or 6		4 or 6		4 or 6		–	
Fold roller diameter		39.7	1 1/2	39.7	1 1/2	39.7	1 1/2	40.0	1 1/2
Slitter shaft diameter		30.0	1 1/8	30.0	1 1/8	30.0	1 1/8	30.0	1 1/8
Product thickness at exit (thicker on request)	max.	1.5	1/16	1.5	1/16	1.8	1/16	2.5	1/16
Speed	min.	30 m/min (98 fpm)							
	max.	230 m/min (755 fpm)				205 m/min (670 fpm)		180 m/min (590 fpm)	
Electrical supply	M1 Basic (3x400V 50/60 Hz 3x220V 50/60 Hz)	4.7 kVA max. 63 A		4.5 kVA max. 63 A		0.9 kVA max. 32 A		0.9 kVA max. 32 A	
	M1 Advanced (3x400V 50/60 Hz 3x220V 50/60 Hz)	4.7 kVA max. 63 A		4.5 kVA max. 63 A		0.9 kVA max. 32 A		–	

<sup>1</sup> With small format device; for machines without feeder head Vacustar this is the standard minimum format

Floorplan T50  
with folding unit II and  
knife folding unit X50



Measurements in  $\frac{\text{mm}}{\text{inch}}$

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