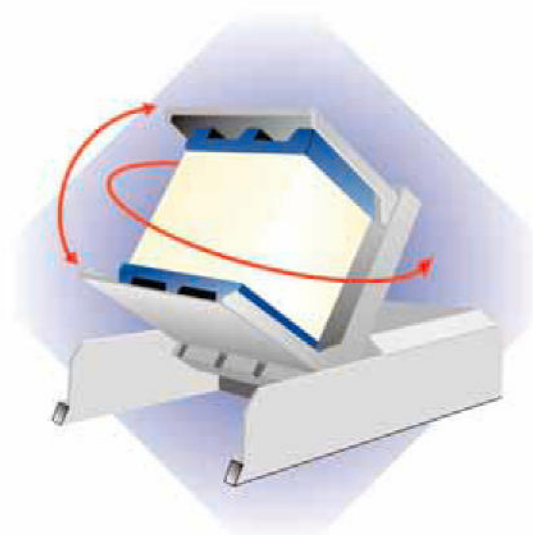


# P i l e T u r n e r



**Pile Turner**

**Much more  
than just  
a pile turner**



# Top quality – Made in Germany

Originally the machine was used just for turning paper, to replace manpower by machinery. Nowadays it fulfils many more additional tasks, such as

Airing · Dust removing · Drying · Aligning · Jogging

For the demands of the printer or paper and board converter a pile turner with these capabilities represents an indispensable piece of equipment.

The Busch pile turner speeds up and improves both the printing and the finishing process. Different sorts of paper and board with varying weights can be handled on the turner. As the demands for quality increase, the pile turner represents a sensible investment.

In 1976 the first Busch pile turner was designed and delivered.

With decades of experience a perfect engineering is guaranteed – and top quality is Busch's first priority. The solid and modern

designed machines are well known for their easy handling – they are used worldwide and prove a notable longevity.

All Busch pile turners are designed and manufactured in own factories in Germany (Seevetal).

The large range of models, with numerous options, fulfils all individual requirements.

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## SPEEDTURNER® SWH Series

<b>Sheet size 23.7 x 29.5 inch</b>	
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<b>Sheet size 31.5 x 47.2 inch</b>	
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# Functions of the Pile Turner

Pile turners are available just as a turning unit or with airing and aligning, and with the additional option of jogging. The following pages give detailed information of all available models and options.

## Turning – easy and comfortable

Turning is done by hydraulically lifting the pile to the horizontal position and subsequently rotating it through 180°. It replaces time-consuming manual handling.

## Airing – what can be achieved?

### Dust removing

An important process before printing to achieve better print quality - absolutely essential for the board converter.

### Separation of cutting edges

To avoid mis-feeds. The complete pile is filled with an air cushion between the sheets.

### Conditioning

The pile is provided with the optimum temperature and humidity.

### Removal of spray powder

Removal of surplus spray powder after printing – an advantageous process for finishing.



## Drying

Ink and varnish is quickly dried after printing.  
Heat inside the pile is reduced.

## Odour neutralizing

Important for food packaging.

## Airing with ionised air

Ionisation reduces the electrostatic charge which may affect the finishing process of coated and printed paper or plastic foil.

## Aligning the pile

The pile is aligned against the aligning gauge in the tilted position with high volume airing.

Bad sheets can be removed without a problem – depending on the thickness of the material.

## Jogging

The ideal support to speed-up perfect alignment of the pile – in the tilted position with high volume airing.

## Centring the pile

The pile can be centrally aligned on a larger-sized pallet without problem.



Control desk



Aligning gauge (adjustable)



Transport

# Preferences of a Busch Pile Turner

Two model series are available – the efficient low priced **SE series** and the **SPEEDTURNER® SWH series** for high demands.

- With decades of experience, Busch guarantees perfect engineering
- Top quality modern design
- Large range of model variations
- Embedding in the floor or fixing to the floor is unnecessary
- An optimal hydraulic system (counter torque lowering valves) and a powerful airing system
- Blowers for the airing system are integrated in the machine body
- The platforms allow the use of all sorts of transport and machine pallets. Loading and unloading is made from the wide side
- The clear aluminium control desk can be fitted on either side
- The control desk is slewable (on turners with airing) which facilitates the control at the front and rear of the pile during airing
- Models equipped with pressure control flaps ensure that the pile is not compressed, so that the air cushion is preserved in the pile – important for finishing printed sheets!
- Individual control of air jets (at the control desk)
- Regulation of air jet speed (at the control desk)
- The optional equipment with ionised air reduces the electrostatic charge of paper and plastic foil



Loading position



Lifting position

The integrated programmable logic controller (PLC) enables automated airing processes and hydraulic functions as well as a clear fault diagnostic at the display (on all turners with airing)

Pile turners of **SPEEDTURNER®** SWH series with airing include pressure control flaps as standard. The aligning gauge is adjustable according to sheet width and pile height. The jogging intensity is adjustable at the control desk. Air jets are travelling just under the respective pile height. Alternatively it is possible to pre-select the number of air jet travels (start and stop) to enable an airing process without the presence of an operator.

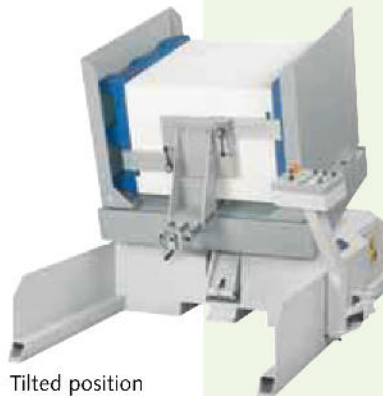
Taking into account all possible options – a wide spectrum is achieved for processing paper and board with extreme variations in quality.

## Advantages

- The Busch pile turner speeds up the printing and finishing process
- The press can run permanently at high speed
- The pile turner needs less than 1 minute for turning a pile
- and 4-5 minutes, on average, for turning, airing and jogging the pile
- Any employee can operate the pile turner



Rotation



Tilted position  
airing and aligning



Rear side  
removal of bad sheets



## The efficient low priced SE Pile Turner



**SE 90 / SE 125**

for turning only



**SE 90 RLA / SE 125 RLA**

for turning, airing, jogging and aligning

### SE 90 und SE 125

for turning only (without airing), with fixed control desk

#### Options

for SE 90: pressure control flaps (the pile is not compressed)

for SE 125: pressure control flaps (the pile is not compressed), enlarged opening height of platforms for pile heights up to 68.9 inch and increased carrying power (2650 lbs)

### SE 90 RLA und SE 125 RLA

with airing (1 blower), slewable control desk, fixed aligning gauge, jogging, tilting (15°), regulation of air volume by hand lever located on the machine body

#### Option

pressure control flaps (the pile is not compressed)

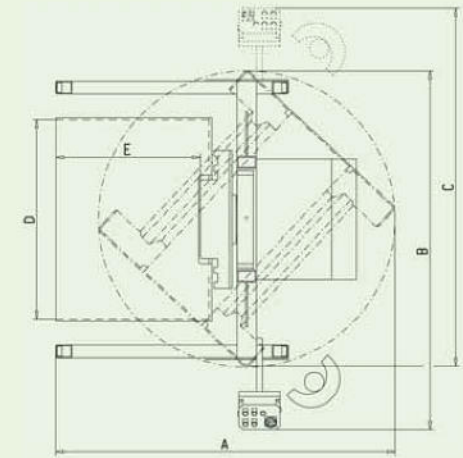
### Model Series SE 90 and SE 125

Model		SE 90	SE 90 RLA	SE 125	SE 125 RLA
Max. sheet size	inch	23.7 x 29.5	23.7 x 29.5	31.5 x 47.2	31.5 x 47.2
Max. pile height	inch	47.2	47.2	53.1	53.1
Min. pile height	inch	11.4	11.4	15	15
Platform width	inch	35.4	35.4	49.2	49.2
Platform depth	inch	24.4	24.4	35.4	35.4
Carrying power	lbs	1100	1100	2200	2200

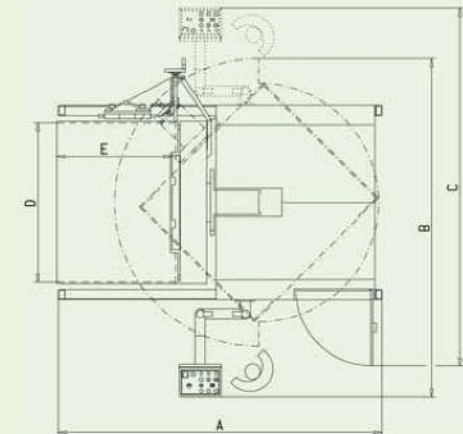


Model Series			SE			
Model			SE 90	SE 90 RLA	SE 125	SE 125 RLA
Max. sheet size	inch		23.7x29.5	23.7x29.5	31.5x47.2	31.5x47.2
Features	Turning Airing Aligning Jogging		●	●●●	●	●●●
Carrying power	lbs		1100	1100	2200	2200
Platform width (D)	inch		35.4	35.4	49.2	49.2
Platform depth (E)	inch		24.4	24.4	35.4	35.4
Max. pile height incl. 2 pallets	inch		47.2	47.2	53.1	53.1
Min. pile height incl. 2 pallets	inch		11.4	11.4	15	15
Power requirements (60 Hz)	kW		1.8	4.5	1.8	6.8
<b>Equipment</b>						
● Standard ○ Option						
Pressure control flaps			○	○	○	○
Airing number of air jets				2		2
Aligning gauge	fixed adjustable			●		●
Jogging				●		●
Speed of air jets, continuously adjustable at the control desk				●		●
Air volume regulation by hand lever at the machine body				●		●
Air volume regulation, continuously adjustable at the control desk						○
Additional blower for double airing power (60 Hz)	kW					○
Ionised air						○
Enlarged opening height of platforms	inch				○	○
					68.9	
<b>Space requirements</b>						
Length (A)	inch		66.9	73.4	83.5	90.6
Width Control desk, right (B)	inch		76	86.6	88.4	95.1
Width Control desk, left (C)	inch		76	86.6	88.4	95.1
Height incl. turning range	inch		68.7	74.4	81.1	87.4
Weight net	lbs		1435	1850	1870	2425

SWH			
SWH 90 LA	SWH 90 RLA	SWH 125 LA	SWH 125 RLA
23.7x29.5	23.7x29.5	31.5x47.2	31.5x47.2
●●●	●●●	●●●	●●●
1100	1100	2200	2200
35.4	35.4	49.2	49.2
24.6	24.6	35.4	35.4
47.2	47.2	53.1	53.1
21.2	21.2	25.6	25.6
4,4	4,9	5,7	6,4
<b>Equipment</b>			
● Standard ○ Option			
●	●	●	●
2	2	2	2
●	●	●	●
	●		●
●	●	●	●
●	●	●	●
○	○	○	○
○	○	○	○
○	○	○	○
		○	○
		68.9	68.9
<b>Space requirements</b>			
85.8	85.8	105.9	105.9
85.8	85.8	104	104
94.5	94.5	110.2	110.2
70.5	70.5	82.3	82.3
2270	2330	3150	3300



Model Series  
SE 90 and SE 125



Model Series  
SWH 90 and SWH 125

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