

# High performance drilling systems

## Dürselen PB.15 / PB.15 DoD



### Dürselen PB.15

- fully automated paper format change
- fully automated jog and drill processing in-line or off-line configuration

### Dürselen PB.15 DoD Drill on Demand

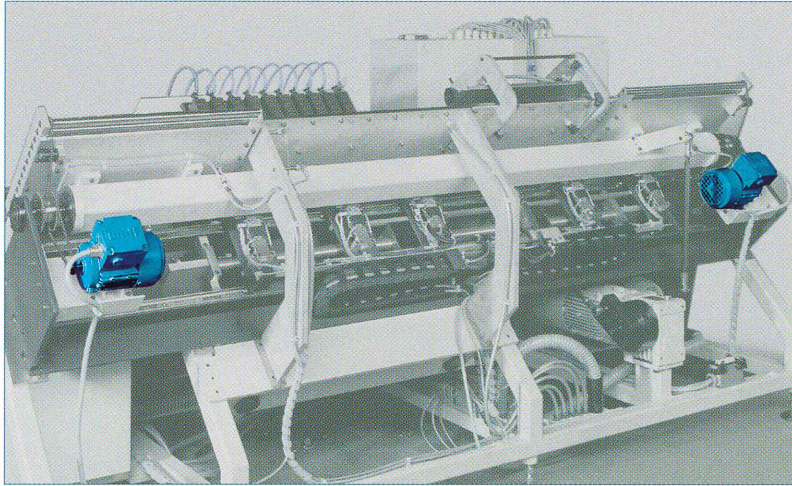
- On-demand programmable hole pattern
- fully automated paper format change
- fully automated jog and drill processing in-line or off-line configuration

 **Dürselen**

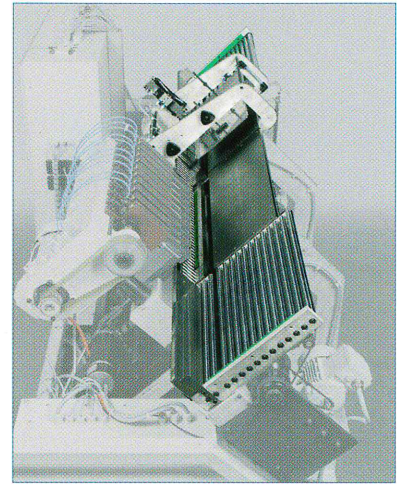


# Dürselen PB.15

## high performance drilling to perfection



*PB.15: Two linear motors control precise pile positioning and facilitate automatic paper format change. Head and foot pile guides ensure consistent production.*

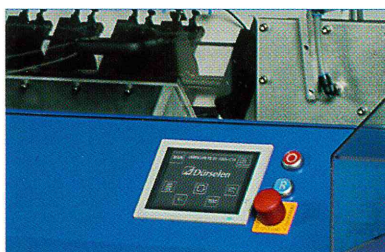


*PB.15: Smooth chrome-plated transfer rollers and the air table allow automatic processing even upon delicate materials.*

### Productivity

- up to 1,500 piles per hour for file hole patterns
- up to 700 piles per hour for multiple stroke patterns such as twin wire binding
- pile height up to 50 mm / 2"
- optionally up to 75 mm / 3"
- loose leaf, stitched, folded or perfect bound piles processed
- automated paper size change
- quick hole pattern change
- intelligent pile transport system with precision narrow hole separation - down to 1mm - as standard

*Programmable touch screen operation makes paper format and hole pattern changes quick and easy.*



### Easy operation

- automatic push button paper size change
- automatic push button spine margin adjustment
- hole pattern changeover in less than 2 minutes
- hands free motorised drill belt transport, constant clean holes down to the last sheet
- touch screen with easy menu navigation
- job memory and recall for repeat work includes positions and margins stroke speed and spindle speed etc.
- optional external interface for job data transfer by network or barcode driven
- in-line-connection to any speed compatible finishing system
- in-line to off-line reconfiguration in less than 10 minutes

### Quality output

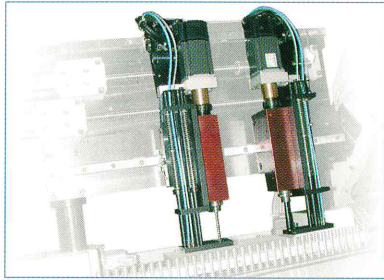
- consistent, operator independent, high quality accurate output
- safe and precise pile transport between head and foot pile guides
- precision position control for multiple stroke patterns such as twin wire binding patterns
- air table and low friction chrome-plated rollers ensure smooth and precise pile handling
- air pressure assisted pile lift prevents bottom sheet sticking to the drill belt

 **Dürselen**

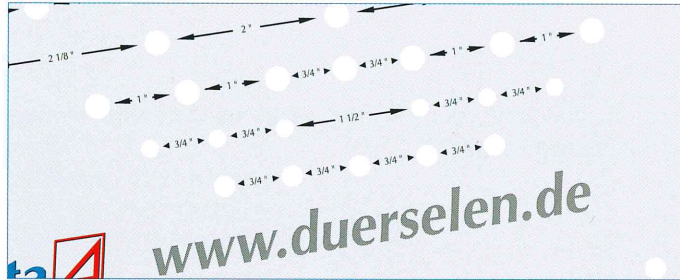
# Dürselen PB.15 DoD

## fully automated high performance

### Drill on Demand



*Dürselen PB.15 DoD: Automated drilling on demand*



*PB.15 und PB.15 DoD: For the broadest range of applications and hole patterns*

#### **Dürselen PB.15 DoD: fully automated high performance - Drill on Demand**

The PB.15 DoD eliminates set-up time making finishing of short run digital printing profitable. Two drill heads with free position programming can produce any hole pattern at the touch of a button with fully automated control of paper format and spine margin. Set-up data can be recalled from job memory, read from barcode or sent via a networked workflow. For example changing between 4 holes 80 mm centres on A4 to 15 holes, pitch 2:1 on A5 is push button or programme controlled in a few seconds.

PB.15 DoD can run in-line with digital printers, both sheet-fed and continuous, after the cutting unit. The automated process - in-feed, jog, drill, delivery - ensures consistent, operator independent, high quality output. (The specification of the DoD-system is equivalent to the PB.15 apart from the drill heads and their control system.)

#### **PB.15 and PB.15 DoD: key features of modern drilling system**

Interactive short stroke

- increased productivity with low pile heights
- with thin products and low piles the drilling unit self adjusts to minimise travel - stopping close above the pile height for the next pile

Stroke and spindle speed adjustment

- essential with drill bit diameters ranging from 3 to 14 mm ( $1/8"$  and  $5/8"$ )
- essential for difficult materials such as plastics to reduce drill bit breakage

drill bit air cooling and lubrication

- dramatically extended drill bit service
- less re-sharpening required
- mark-free holes with volatile lubricant

drill belt as drilling support

- economic compared to drill sticks
- clean holes down to the last sheet
- cost effective performance
- using special resilient plastic allows multiple drilling on the same spot
- hands-free motorised programmed drill belt movement



# Dürselen PB.15 / PB.15 DoD

## Technical data

### Technical data

#### Drill heads:

*PB.15*: 4 heads standard, up to 15 heads or multi-spindle heads optional

*PB.15 DoD*: two drill heads, freely programmable position under individual position control

#### drill bit diameter:

3 - 14 mm /  $\frac{1}{8}$ " -  $\frac{5}{8}$ "

#### minimum hole separation:

1 mm /  $\frac{3}{64}$ "

#### minimum paper size:

120 x 80 mm /  $4\frac{3}{4}$ " x  $3\frac{1}{4}$ "  
(drilled on the long side)

#### maximum paper size:

360 x 300 mm /  $14\frac{1}{2}$ " x 12"  
(drilled on the long side)

#### maximum pile height:

up 50 mm / 2", optionally up to 75 mm / 3"

#### spine margin behind drill bits:

5 - 25 mm /  $\frac{3}{16}$ " - 1"

#### output:

up to 1.500 piles / hour

#### space requirements incl. conveyor belts :

2.600 mm / 102" wide,  
2.400 mm / 95" deep,  
1.300 mm / 51" high

#### power requirements:

400 volts, 3 phases, 50 - 60 cycles,  
25 A, 7,5 kW

#### air consumption:

250 litres / minute at 6 bar pressure

Design and technical data are subject to change.



*High performance drilling system PB.15 - constant reliable productivity*

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