

High performance  
drilling machines  
Dürselen PB.16



Dürselen PB.16 - versatile multi-spindle  
drilling platform with unique on-site  
upgrade path

 **Dürselen**



The standard PB.16 drill covers many applications and can be upgraded on-site to meet emerging applications.

#### **PB.16 standard features ...**

- precision, trouble-free drilling and reliable performance
- robust, cast iron construction
- motorised cam driven linear stroke movement
- 4 drill heads as standard - upgrade to up to 15 heads and special multi-spindle heads as required
- fixed table with adjustable stop up to 50 mm / 2" spine margin
- wide platform 450 mm / 17 1/2" for large paper sizes and wide hole spacing

#### **PB.16 upgrade modules - for additional applications**

On-site upgrades, available as required, to meet new applications:

- manual sliding table with program index trims
- motorised, programmable sliding table
- extended back table (throat depth 300 mm / 12") - manually adjustable back stop or,
- with motorised, programmable back stop

#### **Options for higher performance and productivity**

continuously variable stroke and spindle speed:

- essential with drill bit diameters ranging from 3 to 14 mm (1/8" and 5/8")
- essential for difficult substrates such as plastics to avoid 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 bed:

- 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

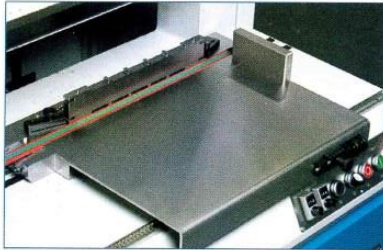
#### **Greater flexibility - higher productivity: sliding table upgrades**

The Dürselen sliding table modules achieve productive, accurate drilling of multi-stroke hole patterns with narrow separation (less than 31.7 mm / 1 1/4"), for example, twin wire binding or combined hole EU/USA patterns.

The manual table matches requirements for shorter run lengths and patterns with fewer holes. Each program index trim precisely positions the table for each stroke in sequence. One program index trim with the seven most common hole patterns comes with the machine.

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# High performance drilling machines Dürselen PB.16



*The sliding table on PB.16 increases the range of applications.*

The motorised programmable sliding table matches requirements for longer runs and volumes, larger paper formats and complex, multiple stroke patterns. Drill positions are programmed using a touch-screen for automated drilling sequence control.

Both sliding tables feature an integrated drill belt as a bed. Output rates for spiral and twin wire binding exceed punching methods by processing piles of 50 mm  $\times$  mm up to  $\times$  mm in a single pass.



*PB.16: Easy programming and machine status indication*

## **Large paper formats and wide spine margins: extended back table upgrade**

Drilling larger paper sizes with wide spine margins is straightforward with the extended back table module (300 mm / 12" throat depth). Back stop positioning can be manual or programmable - similar to a guillotine; used, for example, for processing label tag sheets before cutting.

## **"Easy-Set" touch screen control programming**

The programmable sliding table and back stop have an icon driven touch screen - easy-set menus for quick programme writing with the built-in error checking menu to trap and eliminate possible problems.



*The optional motorised sliding table and extended back table with programmable back stop are all touch screen controlled.*

# Dürselen PB.16

## Technical data

### **PB16 standard configuration**

No. of drill heads:  
4 standard heads, up to 15 heads  
or special multi-spindle drill heads

hole distance:  
31.7 - 420 mm / 1 1/4" - 16 1/2",  
with multi-spindle drill heads  
down to 19.05 mm / 3/4"

Spine margin behind drills :  
50 mm / 2"

size of front table:  
450 mm / 17 1/2" in width  
x 320 mm / 12 1/2" in depth

### **Manual sliding table:**

hole distance:  
from 7 to 420 mm / 9/32" to 16 1/2"

hole patterns:  
by program index trims with up  
to 7 hole patterns per trim; One  
program trim with the most  
common hole patterns comes  
with the machine.

size of sliding table:  
450 mm / 17 1/2" wide  
x 320 mm / 12 1/2" deep

travelling distance of sliding table:  
310 mm / 12 1/4"

### **Programmable sliding table:**

hole distance:  
from 1 to 420 mm / 3/64" to 16 1/2"

hole patterns:  
store and recall up to 100 pro-  
grams, program any hole pattern  
via touch screen

size of sliding table:  
450 mm / 17 1/2" wide  
x 320 mm / 12 1/2" deep

travelling distance of  
sliding table:  
310 mm / 12 1/4"

### **Large back table with manual back stop:**

Throat depth behind drill bits:  
300 mm / 12"

positioning:  
manual depth setting using  
counter unit, side setting via  
drill head

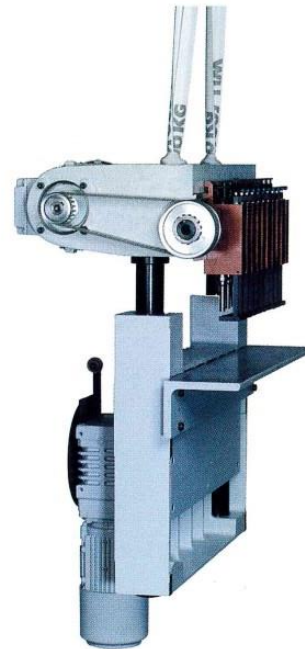
### **Large back table with programmable back stop:**

Throat depth behind drill bits:  
300 mm / 12"

positioning:  
depth setting touch screen  
programmed by motorised back  
stop, side setting via drill heads

### **General features:**

drill bit diameter:  
3 - 14 mm / 1/8" - 5/8", with  
special drill heads up to  
38 mm / 1 1/2"



*The strong cast iron construction  
of PB.16 ensures long and  
accurate service.*

maximum pile height:  
50 mm / 2" optional 75 mm / 3"

space requirements:  
950 mm / 37 1/2" wide, 890 mm /  
35" deep, 1,420 mm / 56" high

power requirements:  
400 volts, 3 phase, 50 cycles,  
16A, 3 kW

air consumption for cooling  
and lubrication:  
100 litres per minute at 2 bar  
pressure

Design and technical data are  
subject to change.