

High Performance  
Paper Drill  
Dürselen PB.04 N



Dürselen PB.04 N -  
the fully featured professional's drill.

 **Dürselen**

# Dürselen PB.04 N

## the professional's high performance drill

This configuration of the established Dürselen entry level model PB.04 includes most optional equipment as standard. The PB.04 N provides the professional with perfect results with easy operation and high flexibility across a wide range of drilling applications.

The Dürselen PB.04 N drill includes all the functions professionals need for productive performance. In addition to four slim Dürselen drilling heads the PB.04N features drill bit cooling and lubrication, continuously variable stroke and spindle speed control, an easy to operate sliding table as well as the Dürselen drill belt for drilling support.

Cam driven stroke movement and shaft and gear driven drilling heads guarantee precision, consistent performance as well as a long service life for the drill and drill bits. The shaft and worm gear driven drilling heads transmit consistent power and speed across all heads and unlike belt driven heads preclude slippage. Shaft drive also enables fast and easy head changeover and re-positioning.

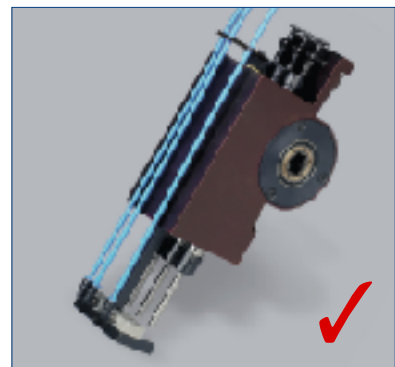


Optimal speeds can be set to match the requirements across hole diameters from 3mm upwards and substrates from coated paper to plastic films using the stepless inverter controlled stroke and spindle speed adjustment.

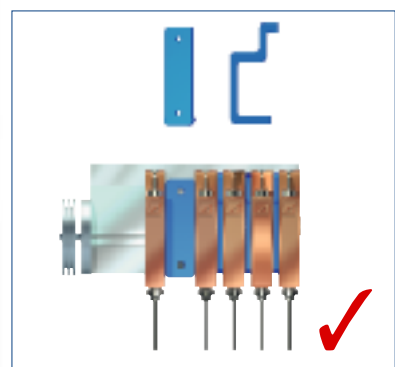
Adjusting different drill bit lengths to penetrate the bottom sheet is quick and easy - no trial and error test drilling is needed. Each spindle adjusts in 0.1mm increments on a self-locking micrometer screw. It is as simple as positioning the drilling beam at "bottom dead centre" with the flick of a switch and adjusting each drill bit to touch the drill belt.



4 Dürselen slim drilling heads – for narrow hole spacing: 31.7 mm / 1 1/4" wide – accommodating bits 3 -14mm

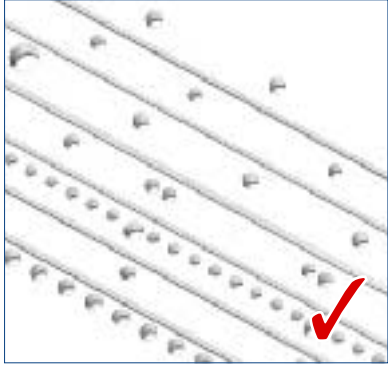


multi-spindle e.g. 2, 3, or 7 spindles and oversize hole heads retro-fit options (to customer specification)

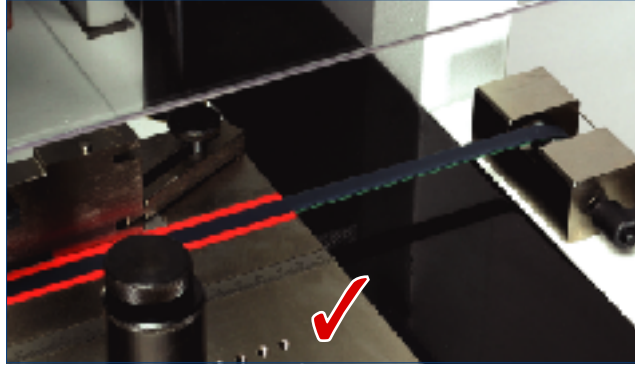


spacers for common hole patterns (two sets) for easy, safe set-up, no test drilling required (other spacings to customer specification)

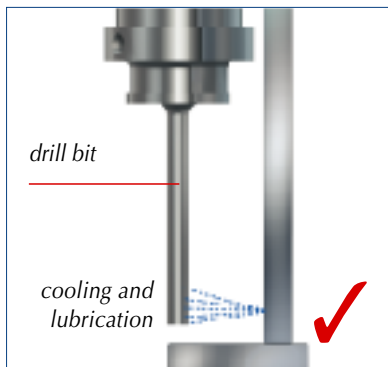
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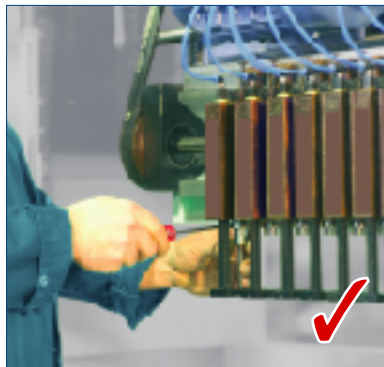
program index trim for common hole patterns (other patterns to customer specification)



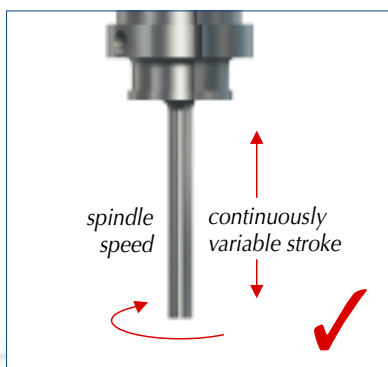
drill belt as drilling support for clean, consistent drilling to the bottom sheet – simple hand wheel advance – no drill stick or support repositioning



drill bit cooling and lubrication for perfect results and extended drill bit life



quick change drill bits and easy drilling head positioning – increased flexibility and reduced make ready time



continuously variable stroke and spindle speed – optimal adjustment to match drill bit diameter and substrate



accurate stroke length and constant stroke speed under constant velocity cam profile drive: consistent penetration and reduced drill bit wear and breakage

A more detailed description on these features and functions is given in the Dürselen "General features" brochure.

# Dürselen PB.04 N

## Technical Specification

No. of drilling heads:  
4 slim Dürselen drill heads (fits up to 6 heads or special drill heads - available to order)

drill bit diameter:  
3 – 14 mm / 1/8" – 5/8"

hole separation  
with standard drill heads:  
minimum 31.7 mm – maximum 293 mm

hole separation  
on multi-spindle heads:  
minimum 19,05 mm / 3/4"

manual sliding table  
with program index trims  
minimum hole separation:  
7 mm / 9/32"

travel of sliding table:  
230 mm / 9" maximum

dimensions of sliding table:  
450 mm (w) x 300 mm in (d) /  
17 3/4" x 12"

spine margin:  
maximum 42 mm / 1 5/8"

maximum pile height:  
50 mm / 2"

space requirements:  
890 mm (w) x 950 mm in (d) x  
1.450 mm (h) / 35" x 37 1/2" x 57"

power requirements:  
400 volts, 3 phases, 50 cycles,  
16 A, 1,9 kW

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

option:  
internal drill bit impulse  
lubrication to customer  
specification - essential for sticky  
materials and many plastics

The added flexibility of the sliding table makes hole patterns with narrow spacing achievable, for example in mechanical binding. The program index trims enable paper size change without re-positioning of the drill heads or the side stop. Standard 80mm European spacing between A4, A5 and A6 paper size requires just one 'click-stop' of the sliding table.

The drilling beam is of cast iron construction ensuring strength, long service life and precise motion control. Even under heavy duty use maintenance or lubrication are not necessary. The Dürselen PB.04 N can even be re-located where the work requires using a pallet truck.

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