

CITOBORMA 490

VERSATILE. ROBUST. PRECISE.



WE CREATE A PROFESSIONAL IMPRESSION

NAGEL

Our standard: Individual versatility.

■ Nagel Citoborma 490 paper drills offer the perfect solution for all requirements and materials. Robust and extremely precise even under heavy duty, the compact Nagel Citoborma 490 is a professional paper drill. This easy-to-operate machine comes with a wide range of standard equipment. With optional accessories, the drill can be customized to meet even highly specialized requirements.

One machine for all applications.

■ Holes of various sizes in all kinds of material, such as paper, cardboard, plastics, leather, and textiles, with drill bit diameters ranging from 2 to 35 mm and a maximum pile height of 60 mm. Suitable for large sheet sizes, due to a throat of 460 mm and a depth of 270 mm behind the drill bits. The greater depth permits drilling of two A4 sheets (one A3 sheet) in one pass. With up to 6 heads, a single stroke is all you need for many drilling jobs.

Total reliability under toughest conditions.

■ The Citoborma 490 is designed for extremely heavy duty; it uses standard heads made of robust grey cast iron or special heads made of high-grade aluminium alloy. All spindles have an axial thrust bearing. Drill bit sharpeners and special cardboard pads ensure a long service life.

The result – precision!

■ Ultimate precision: Ground steel profiles make sure that the drill spindles and the drill table are guided without play. The splined shaft drive ensures a non-slip power transmission. And the long spindle guide keeps the drill bits on centre.



NAGEL precision drill heads.

User-friendly and functional.

■ The drill heads can be adjusted infinitely; the adjustment is quick and easy to make. The length of the drill bits is adjusted without tools. Thanks to the quick-action chucks of the drill, bits can be changed very quickly, which increases overall efficiency. Spacers in various sizes facilitate the adjustment of the drill heads.



NAGEL CITOBORMA 490 VARIO with foot switch.

The features: More than standard.

- Two drilling speeds.
- Constant feed rate.
- Simple adjustment of the back stop and the table lift by means of a handwheel.
- Side stop with quick-action lock.
- Optimum safety due to two-hand operation, reversible mode and safety cover.

Customized and reliable: Optional equipment.

- The Nagel Citoborma 490 has the equipment for your special requirements. Special drill heads permit drilling of non-standard patterns in one stroke, even with minimum hole spacing. Other assets are the infinitely variable drilling speed and lifting speed, the drill bit lubrication with cooling system and the foot switch operation.



NAGEL CITOBORMA 490 with sliding table.

A sliding table enables the Citoborma 490 to drill multiple perforations.

The height of sophistication: Drill bit lubrication and cooling.

- The drill bit lubrication with drill bit cooling system ensures a gentle processing of sensitive materials. Heat build-up is reduced to a minimum to prevent the material sticking together. The drill bit cooling system, when used in combination with the drill bit lubrication, more than doubles the service life of the drill bits.

Flexibility of application.

Some examples of applications for the Nagel Citoborma 490:

- Sample collections of wallpapers, fabrics, blinds etc.
- Label sheets
- Calendars
- Filofaxes
- Ring binder perforations
- Multiple perforations for spiral binding etc.



Professional drill bit lubrication with cooling system.

NAGEL paper drill bits and drill bit maintenance.

NAGEL wax paper and NAGEL drilling pads.

■ By perforating the wax paper, the drill bits are lubricated on the inside. Corrosion and congestion are prevented from day one, making premature breaking of drill bits a thing of the past.

The special cardboard drilling pads by NAGEL ensure that even the last sheet of the pile is perforated cleanly; they also reduce wear on the plastic support bar.



Nagel paper drill bits:
2–35 mm diameter,
50–60 mm working length,
and special designs.

NAGEL CITOBORMA 490	
Number of drill heads	1–6
Max. pile height (mm)	60
Max. paper width (mm)	460
Max. throat depth (mm)	270
Drill bit sizes (mm)	2–35
Distance between centres (mm)	19–425
Drill bit speed	2 positions
Time/stroke (s)	3,3
Power stroke	✓
Power supply (V)	400 V 50 HZ 3 phase
Power consumption (kW)	1,8
H x W x D net (cm)	139 x 71 x 77
Weight, net (kg)	265
H x W x D gross (cm)	164 x 91 x 97
Weight, gross (kg)	365
Drill head 45	✓ hole spacing min. 45 mm
Special drill heads	
Drill head 32	• hole spacing min. 32 mm
Filofax 3 spindels	• hole spacing 19 mm (fix)
Filofax 6 spindels	• hole spacing 19 mm (fix)
Trio 2 spindels	• hole spacing 21 mm (fix)
Drill head 125	• paper drill bits for 15 – 35 mm
Foot pedal	•

- ✓ Standard
- Optional

Type I – green colour coding ■

- High-performance steel.
- Suitable for offset, copying paper and cardboard.
- Recommended for all table top drills.
- Good price-performance ratio.

HD quality – yellow colour coding ■

- High-performance steel with special High Density coating.
- Suitable for art paper and illustration printing paper.
- Recommended for all power stroke drills.
- For heavy duty and long-term use.

Teflon quality – blue colour coding ■

- High-performance steel with Teflon coating.
- Suitable for coated paper and cardboard, plastic, foil and rubber.

■ Contact

Ernst Nagel GmbH
Breitwiesenstraße 21
D-70565 Stuttgart/Germany

Telephone domestic +49 7 11-7 80 78-11
Fax domestic +49 7 11-7 80 78-10

Telephone export +49 7 11-7 80 78-21
Fax export +49 7 11-7 80 78-20

E-mail sales@ernstnagel.com
www.ernstnagel.com

