

CITOBORMA 190/290

HIGH PERFORMANCE DRILLING MACHINES



WE CREATE A PROFESSIONAL IMPRESSION



The new drilling machine generation.

■ The drilling machines Citoborma 190/290 are remarkably user-friendly and cover a wide range of applications. All models have a powerful motor and are designed for professional use.

The standard version of the Citoborma 190 and 290 comes as a table top model. They are available with one spindle, two fixed spindles or two spindles with variable distance for any combination of holes to be drilled.

Features

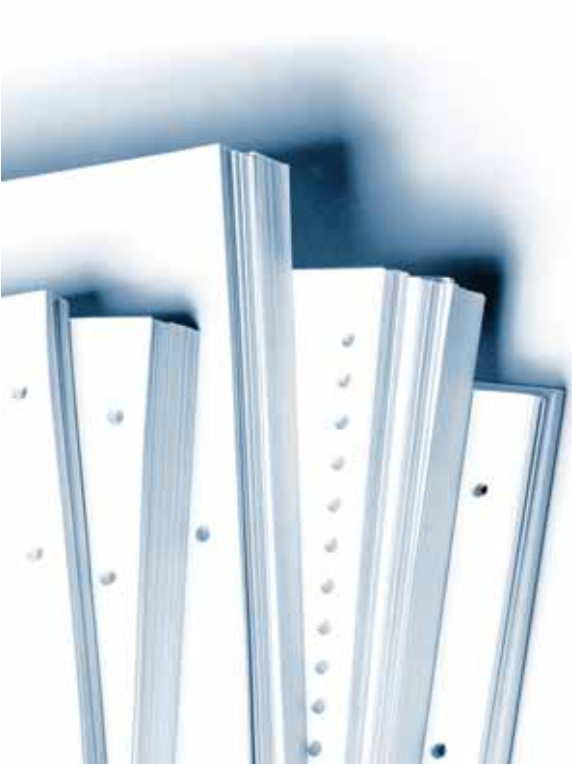
- Unique quick release FlexoDrill® sliding table.
- Suitable for drilling paper, cardboard, plastic, textiles, leather etc.
- 6 preprogrammed hole patterns set-up within a second.
- Additional tabulator bar with 5 interchangeable stops for individual programs.
- Paper width up to 470 mm.
- Throat depth up to 105 mm.
- Smooth drilling process.

Options

- 3 phase model available at no extra costs.
- Treadle unit for foot operation.
- Additional side stop for small formats.
- Drill bit cooling to ensure a gentle processing of sensitive materials.



**NAGEL CITOBORMA 290 B
with treadle.**



The high comfort FlexoDrill® sliding table with remarkable features.

- Automatic release after each stroke.
- Large sliding distance and throat depth.
- Centres the paper stack.
- Left side stop is retractable to ensure smooth and fast access.
- Takes large formats.
- Individually programmed tabulator bars are interchangeable.
- Table can be fixed at any position if required.



For operator's convenience:
The quick release FlexoDrill® sliding table.

NAGEL CITOBORMA Twin-Spindle 290

- Model **Citoborma 290 B** comes with two self-centering spindles that can vary in position between 45 – 160 mm. Allows any combination of holes to be drilled.



NAGEL CITOBORMA 290 B
table top.

- Model **Citoborma 290 AB** comes with an automatic lifting gear for powerstroke operation and is recommended for large volumes or sensitive substrates (see photo on front page). The drilling stroke is activated by means of a foot switch, which permits fast and easy operation and maintains a constant drilling speed. The basic features are same as of the Citoborma 290 B.

- Model **Citoborma 290** comes with two fixed spindles of 80 mm distance between centres. Achieves the two hole pattern in one stroke.
- Model **Citoborma 190** single drill spindle for any hole pattern. Same precision as the larger models.



NAGEL CITOBORMA 190
table top.

Technical specifications

NAGEL CITOBORMA	290 AB	290 B	290	190
Number of drill heads	2	2	2	1
Max. pile height (mm)	60	60	60	60
Max. paper width (mm)	470	470	470	470
Max. throat depth (mm)	105	105	105	105
Drill bit sizes (mm)	2 – 20	2 – 20	2 – 20	2 – 20
Distance between centres (mm)	45 – 160	45 – 160	80	–
Time/stroke (s)	3,3	Operator speed	Operator speed	Operator speed
Power stroke	Yes	–	–	–
Foot treadle	–	•	•	•
Power supply (V)	3 phase	Single or 3 phase		
Power consumption (kW)	0,9	0,5	0,5	0,5
H x W x D net (cm)	158 x 64 x 60	73 x 64 x 60	70 x 64 x 60	70 x 64 x 60
Weight, net (kg)	165	69	59	55
H x W x D (cm) gross	165 x 80 x 80	80 x 80 x 80	80 x 80 x 80	80 x 80 x 80
Weight, gross (kg)	195	90	80	75

• Optional – not available

NAGEL drill bits and 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.

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
70565 Stuttgart/Germany

Phone Export +49 711-780 78-21
Fax Export +49 711-780 78-20

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

