

# Neuroinformatics



## Unique Advantages. Multiple Safety Mechanisms.

**emd**® NEUROLINE CRANIAL PERFORATORS WERE DESIGNED AND DEVELOPED TO PROVIDE MAXIMUM PERFORMANCE WITH MAXIMUM PATIENT SAFETY. THE INTEGRATED THREE-LEVEL SAFETY TECHNOLOGY IS PATENT PROTECTED AND OFFERS EXCLUSIVE DRILLING EXPERIENCE FOR THE USER.

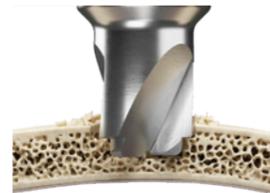
### EXCELLENT TIP CONTROL TO AVOID SKIDDING

The start of perforation is a critical point, the guiding tip of the drill ensures keeping the perforator exactly on the operation point to avoid skidding on uneven surfaces as well.



### HIGH PERFORMANCE & CONSISTENT DRILLING QUALITY

Thanks to the specially developed edge design, the simultaneous movement of the drilling and cutting heads guarantees optimum results.



### RESTARTABLE AT ANYTIME

The surgeon has the possibility to continuously supervise the perforation, as the device can be stopped and safely restarted anytime.



### BONE PAD FORMATION

Cranial perforation is not a simple drilling, the perforated bone pad protects the dura.

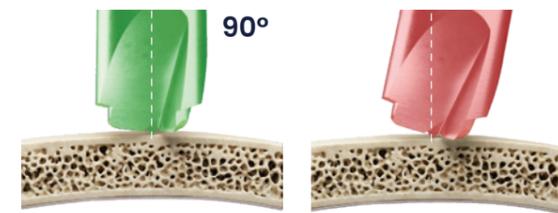


## Product Versatility & Compatibility

PRODUCT RANGE OF **emd**® NEUROLINE CRANIAL PERFORATORS GIVES A FREE CHOICE FOR THE CUSTOMER EITHER THEY PREFER SINGLE USE OR REUSABLE MODELS.

All our perforators are manufactured with universal Hudson end coupling.

Thanks to the standardized connection, compatibility is granted for the most commonly used medical high speed motordrill trepan adapters/speed reducers, which are equipped with standard Hudson chuck fitting.



### IMPORTANCE OF CORRECT POSITIONING

To ensure a safe and successful operation, maintaining the correct position (90°) of the perforator against the skull is crucial and must be remembered at all times when drilling is being performed.

### Explanation of Article Numbers by Size

**NLO-7/11-1.5**

**NLO-B/A-C**

(eg. for disposable perforator for thin bone)

**NLM-11/14-3.0**

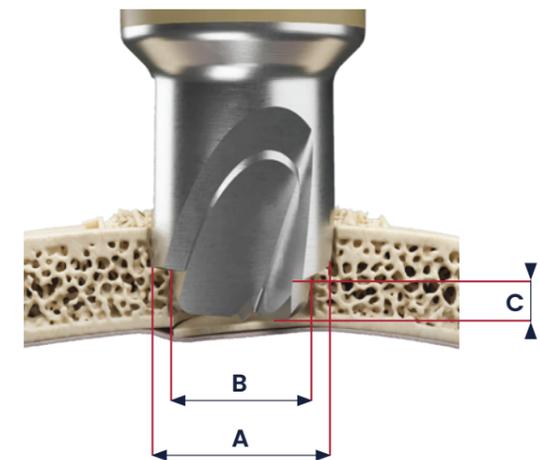
**NLM-B/A-C**

(eg. for reusable perforator for thick bone)

**A:** DIAMETER OF PERFORATOR EXTERNAL DRILL PART  
• DIAMETER OF UPPER PART OF HOLE

**B:** DIAMETER OF PERFORATOR INTERNAL DRILL PART  
• DIAMETER OF LOWER PART OF HOLE

**C:** MINIMUM THICKNESS OF SKULL BONE REQUIRED FOR OPERATION OF PERFORATOR  
(OVERHANG OF INTERNAL DRILL PART ON EXTERNAL DRILL PART)



# DISPOSABLE Cranial Perforators

WITH PATENTED TECHNOLOGY, DISPOSABLE CRANIAL PERFORATORS ARE FULLY DEVELOPED AND MANUFACTURED BY **emd**.

SAFETY BEING OUR TOP PRIORITY, SINGLE-USE PERFORATORS ARE EQUIPPED WITH THREE SAFETY SYSTEMS.

THE BUILT-IN SAFETY MECHANISM ALLOWS THE SAME PRESSURE TO BE APPLIED ON SOFTER AREAS AS WELL WITH SAME EFFICIENCY.



p.d.36 Perforatorius kaukol s kaului gr žiti  
Su Hudson tipo jungimi. Galimyb pasirinkti iš  
trij skirting dydži . Vienkartinio naudojimo.  
Supakuotas vienkartin je sterilioje pakuot je.  
Techniškai suderinamas su staigoje turimu  
OsseoDuo renginiu (gamintojas Bien Air Surgery SA).



FOR USE ON SKULLS MIN. 3.0MM THICK



### NLO-6/9-3.0

CRANIAL PERFORATOR, SINGLE USE  
*Disposable*

### NLO-7/11-3.0

CRANIAL PERFORATOR, SINGLE USE  
*Disposable*

### NLO-9/13-3.0

CRANIAL PERFORATOR, SINGLE USE  
*Disposable*

### NLO-11/14-3.0

CRANIAL PERFORATOR, SINGLE USE  
*Disposable*

FOR USE ON SKULLS MIN. 1.5MM THICK



### NLO-6/9-1.5

CRANIAL PERFORATOR, SINGLE USE  
*Disposable*

### NLO-7/11-1.5

CRANIAL PERFORATOR, SINGLE USE  
*Disposable* ✓

### NLO-9/13-1.5

CRANIAL PERFORATOR, SINGLE USE  
*Disposable* ✓

### NLO-11/14-1.5

CRANIAL PERFORATOR, SINGLE USE  
*Disposable* ✓