NIDEK

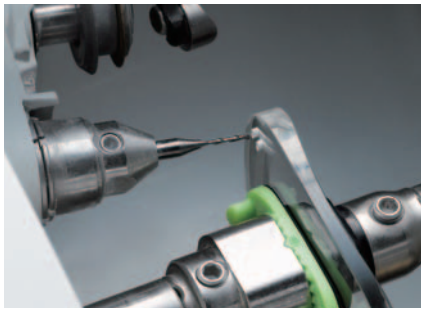
Patternless Edger

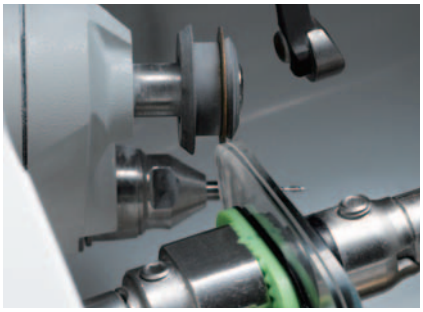
# LEXCE Trend

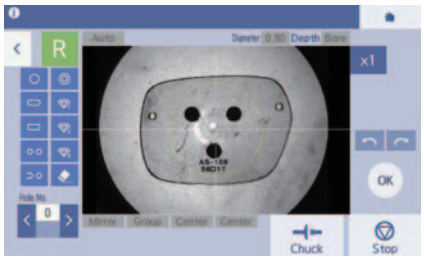

THE ART OF EYE CARE

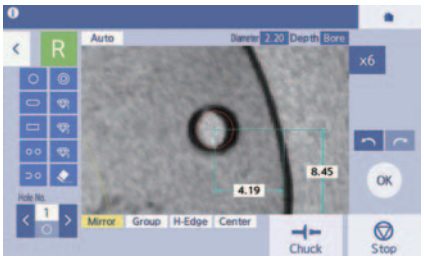

# Upwar
# Trend

The LEXCE Trend is a feature-rich, all-in-one edger.
It incorporates a high performance drill, an intelligent blocker and a frame tracer in a compact body.
Driven by two types of user interface; a step-by-step wizard mode for beginners and a professional mode for experts, it offers every user a comfortable operation with incredible ease.
Multiple configurations can be chosen from different model types depending on the situation of all optical shops and labs, either as a new integration or as an additional unit.
A *Trendy* innovative concept, the LEXCE Trend redefines the “all-in-one edger”.





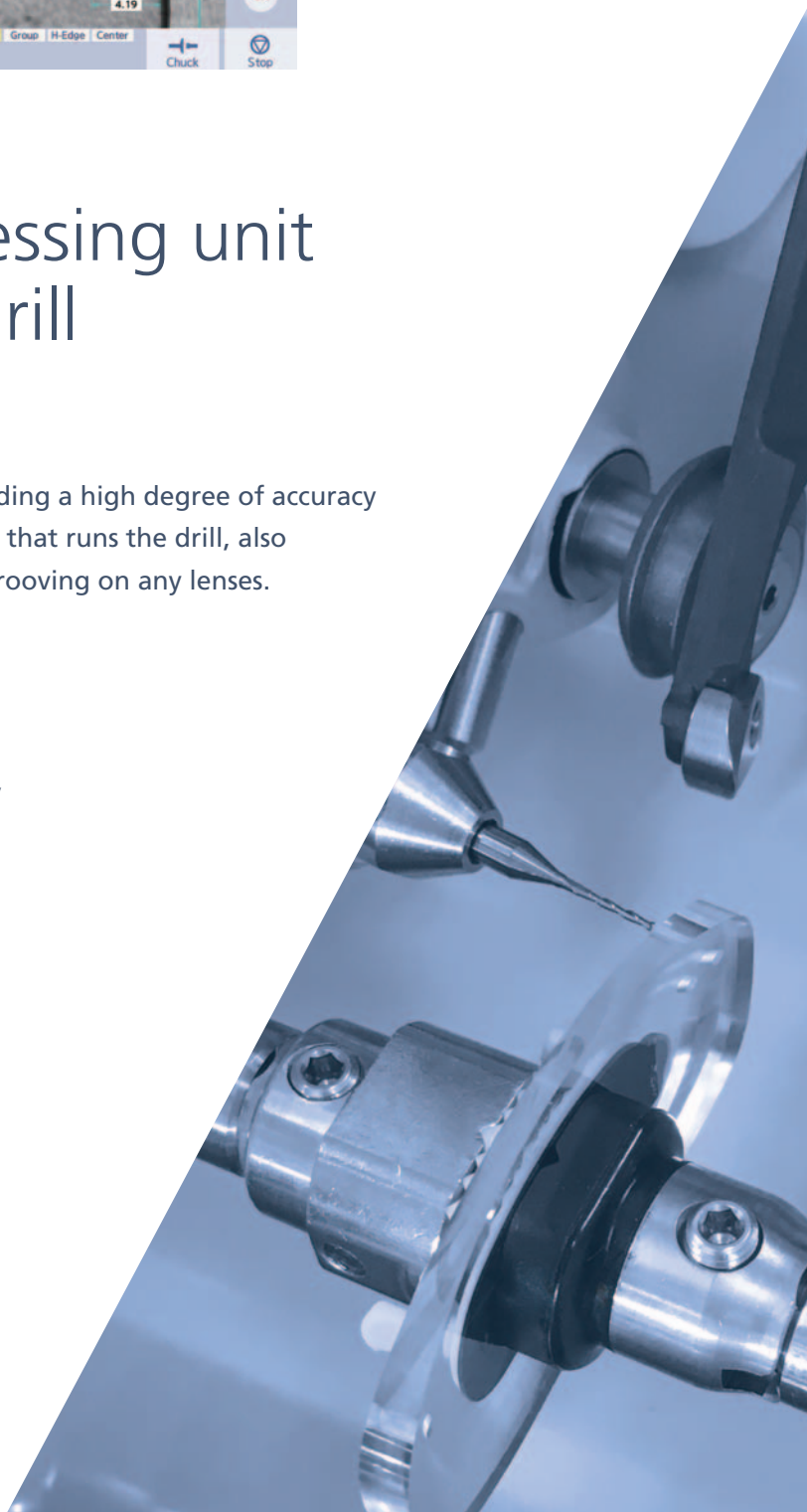


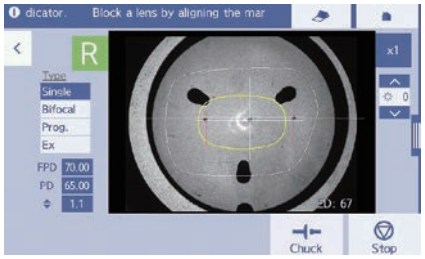



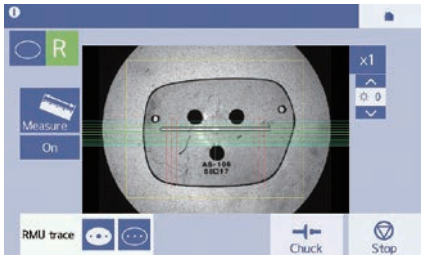

# Exceptional processing unit with integrated drill

The drill unit uses a 5-axis mechanism, providing a high degree of accuracy for all your drilling jobs. The processing unit that runs the drill, also performs high quality safety beveling and grooving on any lenses.

- 3D drilling optimally controlled by 5-axis
- Multiple hole types covering extensive frames
- Drilling angle can be set automatically or manually
- Three types of drill bit (optional) for perfect fit
- Precise grooving providing attractive edge surface regardless of lens shape



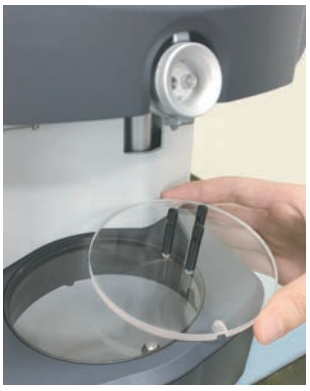


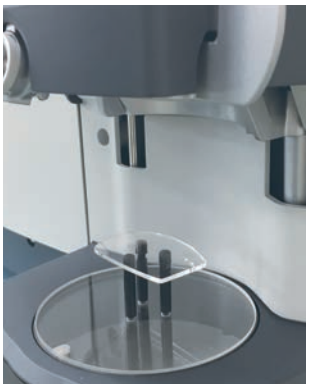




# Intelligent blocker with integrated imager

Blocker unit is simple to operate while offering great performance. The integrated imager can capture optical tracings, along with drill hole data. The data can be easily edited on the multifunction color screen.

· Dual lens stage allows settings of all lens types
· Magnification of the display facilitates viewing of lens markings during blocking
· Highly accurate and precise blocking function
· Automatic hole and shape data acquisition by imager (optical tracer)
· Screen enlargement facilitates hole data editing

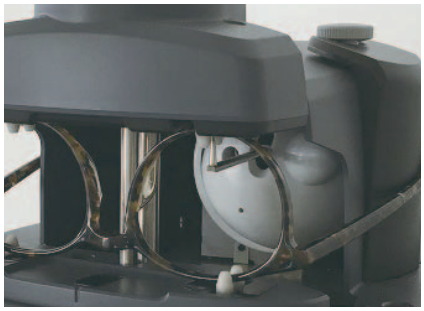


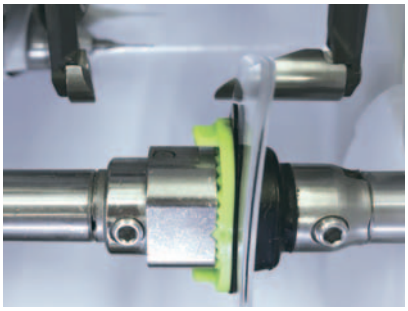


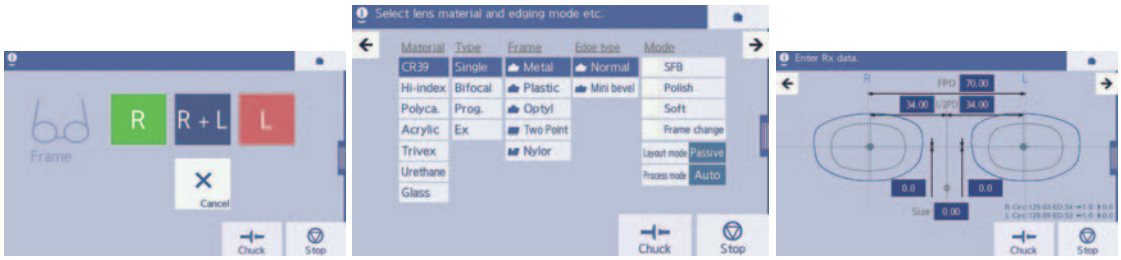
# Precise tracing for all types of shapes

NIDEK original design 3D frame tracer performs highly precise measurements. Additionally, two types of tracing methods are available for tracing demo lenses and patterns with the LEXCE Trend.

· 3D frame tracing with full auto clamping (optional)
· High curve frame measurement
· Frame holder keeps frame in natural state during tracing
· Reliable demo lens and pattern measurement by imager (optical tracer)
· Demo lens and pattern tracing by Radius Measuring Unit in processing chamber



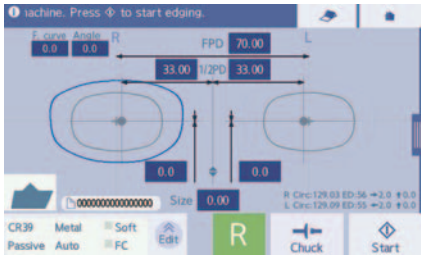




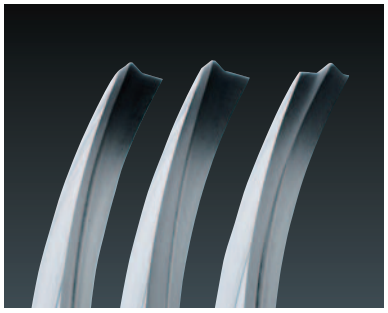
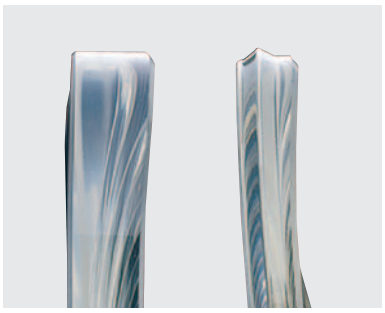

# Selectable user interface designed for intuitive operation

A 7-inch color LCD touch screen displays lens shape and layout in full scale. Processing conditions can be intuitively entered on the screen.

- User preference of operation can be pre-set via software interface
  - Wizard mode; step-by-step operation, for beginners
  - Professional mode; single screen operation, for experts
- Uniquely designed, clearly visible icons
- High resolution color LCD touch screen
- Capacitive technology touch screen improves sensitivity





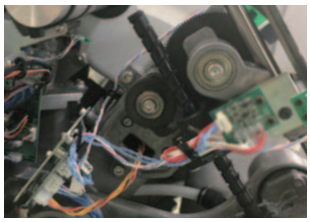
# Proven high quality finishing

Thanks to avant-garde design and engineering innovations, the LEXCE Trend is technologically advanced, offering consistency and size accuracy while encompassing a faster cycle-time.

· Wider wheel capable of processing high Rx lenses
· Full estimate soft processing mode controls axis shift
· Water rinsing cycle keeps grinding chamber clean at all times

· Customizable mini bevel is ideal for thin, metal eyewire frames
· Lens edge polishing for flat and bevel lenses
· Special wheel design for high base curve lens processing*
· Multi bevel shapes to meet today's challenging eyewire frames*
· Mini step bevel to grind an asymmetrical shelf-style rear bevel*

*Available for the type PLB-2R8

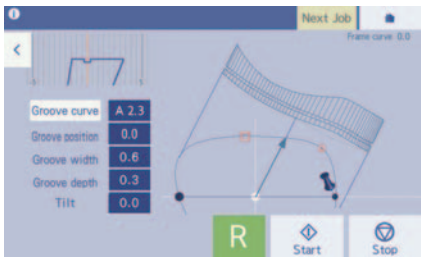


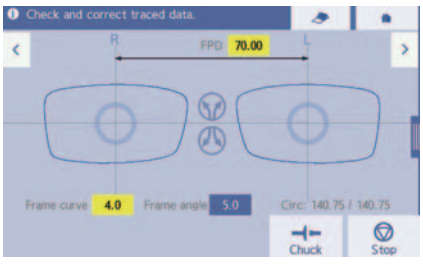

# Enhanced user productivity

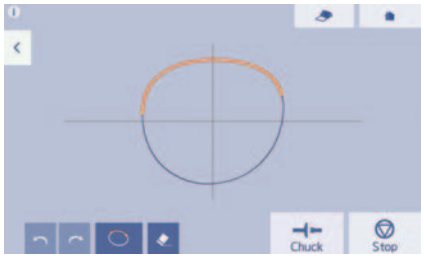
The LEXCE Trend is perfect for facilities with limited space.
Multiple functions with well-combined features, all in a compact footprint, improves productivity.

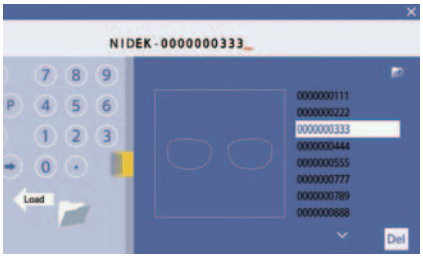
· Next job setup function
· Shape rotation adjustment function
· Shape editing mode
· Memory function for shape data management

· Feature-rich compact design
· Auto processing chamber door
· Lit processing chamber for high visibility
· Cooling water control knob



# “A LEXCE” for everyone

The best option can be selected from several configurations depending on individual needs.

## Type Core (DBT)

Frame | Shape imager | Blocker
Grooving | High curve | Drilling

Complete with standalone configuration

· Covers all necessary functions to make eyewear efficiently
· Perfect for facilities where workspace limitations exist

## Type Mate 1 (DIT)

Frame | Shape imager | Blocker
Grooving | High curve | Drilling

Blends well with an external blocker with imager function

· Parallel workflow for blocking or editing while processing
· Selectable imager function depending on connected blocker

## Type Mate 2 (DT)

Frame | Shape imager | Blocker
Grooving | High curve | Drilling

Blends well with an external blocker without imager function

· Parallel workflow for blocking or editing while processing
· Selectable imager function depending on connected blocker

## Type Pro (D)

Frame | Shape imager | Blocker
Grooving | High curve | Drilling

Adoptable for high-volume processing

· Capable of becoming part of a server software system
· Provides flexibly to increase the number of lens edgers

For high curve and drilling, refer to the comparison chart.

| Minimum grinding size | Pliable cup (standard) W x H mm | | Mini cup (optional) W x H mm | | Nano cup (optional) W x H mm | |
|---|---|---|---|---|---|---|
| | PLB-2R8 | PLB-2R | PLB-2R8 | PLB-2R | PLB-2R8 | PLB-2R |
| Flat edging | ø32.0 x 19.0 | ← | ø22.0 x 17.4 | ← | ø20.0 x 15.5 | ← |
| Bevel edging | ø33.0 x 20.6 | ← | ø23.0 x 18.4 | ← | ø21.0 x 16.5 | ← |
| Safety beveling (flat) | ø35.0 x 22.0 | ← | ø25.0 x 20.3 | ← | ø23.0 x 18.5 | ← |
| Safety beveling (bevel) | ø36.6 x 23.6 | ← | ø26.6 x 21.9 | ← | ø24.6 x 20.1 | ← |
| High base curve beveling | ø37.8 x 24.8 | | ø27.8 x 23.2 | | ø25.8 x 21.3 | |
| Grooving | ø32.0 x 19.0 | ← | ø22.0 x 17.4 | ← | ø20.0 x 15.5 | ← |

PLB-2R8: LEXCE Trend8, PLB-2R: LEXCE Trend

## System configurations

**Mate 1** with ICE mini+ style

**Mate 2** with Ice 900 style

**Pro** Combination style – Mini lab

**Pro** Combination style – Extended lab

Type comparison

| | | | Frame | Shape imager | Blocker | Grooving | High curve | Drilling |
|---|---|---|---|---|---|---|---|---|
| Core | PLB-2R8 | Drill | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | Non drill | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | PLB-2R | Drill | ✓ | ✓ | ✓ | ✓ | | ✓ |
| | | Non drill | ✓ | ✓ | ✓ | ✓ | | |
| Mate 1 | PLB-2R8 | Drill | ✓ | ✓ | | ✓ | ✓ | ✓ |
| | | Non drill | ✓ | ✓ | | ✓ | ✓ | |
| | PLB-2R | Drill | ✓ | ✓ | | ✓ | | ✓ |
| | | Non drill | ✓ | ✓ | | ✓ | | |
| Mate 2 | PLB-2R8 | Drill | ✓ | | | ✓ | ✓ | ✓ |
| | | Non drill | ✓ | | | ✓ | ✓ | |
| | PLB-2R | Drill | ✓ | | | ✓ | | ✓ |
| | | Non drill | ✓ | | | ✓ | | |
| Pro | PLB-2R8 | Drill | | | | ✓ | ✓ | ✓ |
| | | Non drill | | | | ✓ | ✓ | |
| | PLB-2R | Drill | | | | ✓ | | ✓ |
| | | Non drill | | | | ✓ | | |

# LEXCE Trend Specifications

| Model | LEXCE Trend8 | LEXCE Trend |
|---|---|---|
| Grinding system | Patternless | ← |
| Mode | Beveling (automatic, guided, safety beveling, polishing, high base curve),<br>Flat edging (polishing, safety beveling, grooving),<br>Drilling, Mini beveling (0.4 to 0.7 mm) (0.1 mm increments),<br>Mini step processing (0.0 to 3.8 mm) (0.1 mm increments),<br>Custom beveling, Frame changing, Soft processing | Beveling (automatic, guided, safety beveling, polishing),<br>Flat edging (polishing, safety beveling, grooving),<br>Drilling, Mini beveling (0.4 to 0.7 mm) (0.1 mm increments),<br>Frame changing, Soft processing |
| Setting range | | |
| FPD | 30.00 to 99.50 mm (0.01 mm increments) | |
| PD | 30.00 to 99.50 mm (0.01 mm increments) | |
| 1/2PD | 15.00 to 49.75 mm (0.01 mm increments) | ← |
| Optical center height | 0 to ±15.0 mm (0.1 mm increments) | |
| Size adjustment | 0 to ±9.95 mm (0.01 mm increments) | |
| Bevel position | 0 to ±9.95 mm (0.01 mm increments) | |
| Minimum grinding size | | |
| Flat edging | ø32.0 x 19.0 mm / with nano cup (optional) ø20.0 x 15.5 mm | ← |
| Bevel edging | ø33.0 x 20.6 mm / with nano cup (optional) ø21.0 x 16.5 mm | ← |
| Safety beveling (flat) | ø35.0 x 22.0 mm / with nano cup (optional) ø23.0 x 18.5 mm | ← |
| Safety beveling (bevel) | ø36.6 x 23.6 mm / with nano cup (optional) ø24.6 x 20.1 mm | ← |
| High base curve beveling | ø37.8 x 24.8 mm / with nano cup (optional) ø25.8 x 21.3 mm | None |
| Grooving | ø32.0 x 19.0 mm / with nano cup (optional) ø20.0 x 15.5 mm | ← |
| Drilling*1 | | |
| Hole diameter | ø0.80 to 10.00 mm (0.01 mm increments) | |
| Hole depth | 6.0 mm or less | |
| Range for hole milling | ø34.0 to 68.5 mm from lens rotation axis | |
| Direction for hole milling | Automatic/Manual tilting 2.5 to 18° | ← |
| Slotted hole width | ø0.80 to 10.00 mm (0.01 mm increments) | |
| Slotted hole depth | 6 mm or less | |
| Slotted hole length | 20 mm or less | |
| Blocking unit*2 | | |
| Method | Manual blocking | ← |
| Blocking position accuracy | ±0.5 mm | |
| Axis angle accuracy | ±1.0° | |
| Shape imager function*3 | | |
| Measurement range | 65.0 x 50.0 mm (±1.5 mm) | ← |
| Hole position | 0.01 mm increments | |
| Hole diameter | ø0.80 to 10.00 mm (0.01 mm increments) | |
| Demo lens / pattern tracing unit | | |
| Method | Shape measurement using feeler unit | ← |
| Measuring points | 1,000 points | |
| Measurement range | ø22.0 to 76.0 mm (17.4 to 66.0 mm vertically) | |
| Frame tracer (optional) | | |
| Method | Automatic 3D binocular tracing | |
| Measuring points | 1,000 points | |
| Measurement range | Shape width : 23.0 to 70.0 mm<br>Shape height : 18.4 to 66.0 mm<br>Frame horizontal width: 113 to 150 mm | ← |
| FPD measurement | Available | |
| Frame clamping | One-touch automatic clamping | |
| Setting of stylus | Switchable between automatic and semiautomatic | |
| Measurement accuracy | Frame tracing ±0.1 mm | |
| Wheel configuration | Type PLB-2R8 | Type PLB-2R |
| Water supply system | Pump circulation or direct connection to tap water | ← |
| Interface | RS-232C - 1 port<br>LAN - 1 port<br>USB - 1 port | ← |
| Power supply | 100 to 120 V / 240 V AC, 50/60 Hz | ← |
| Power consumption | 1.3 kVA | ← |
| Dimensions/Mass | 545 (W) x 530 (D) x 460 (H) mm / 38.5 kg (Core), 37.8 kg (Mate 1)<br>545 (W) x 434 (D) x 460 (H) mm / 37.2 kg (Mate 2)<br>545 (W) x 434 (D) x 344 (H) mm / 34.6 kg (Pro)<br>21.5 (W) x 20.9 (D) x 18.1 (H)" / 84.9 lbs. (Core), 83.3 lbs. (Mate 1)<br>21.5 (W) x 17.1 (D) x 18.1 (H)" / 82.0 lbs. (Mate 2)<br>21.5 (W) x 17.1 (D) x 13.5 (H)" / 76.3 lbs. (Pro) | ← |
| Standard accessories | Drill bit (10 units)*1, Hexagonal screwdriver (2.5 mm), Hexagonal wrench (2.0 mm, 3.0 mm, and 4.0 mm), Dressing stick for glass roughing wheel, Dressing stick for finishing wheel, Compound kit for polishing wheel, Pliable cup, Pliable cup for high base curve lenses, Double-coated adhesive pad, Pliable cup remover, Adapter set, Pattern holder, Stage for small diameter lens*3, Calibration jig, Flat lens, Ferrite core, Accessory case, Power cord | ← |
| Optional accessories | Frame tracer, External barcode scanner, External 2D barcode scanner, Built-in 2D barcode scanner, Circular pump tank, Mini cup set, Nano cup kit, Flexible lens clamp, Drill bit (ø1.0, 1.2, 1.6)*1, USB flash drive, Stylus pen | ← |

*1 Available for the drill-equipped model
*2 Available for the Core
*3 Available for the Core and Mate 1

Specifications and design are subject to change without notice.

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