

ESTÜS

NEXT
EVOLUTION OF
ENDODONTIC
TECHNOLOGIES

DENTAL COMPLEX ESTUS



DENTAL COMPLEX

ESTUS

ESTUS MULTI
control unit



Functional handpieces Estus:



Charging stand
ESTUS ENERGY-D



Irrigation pump
ESTUS PUMP



apexlocator ESTUS APEX



ESTUS - unique CORDLESS dental complex for multi-stage instrumentation of endodontic treatment

Basic components of ESTUS complex:

ESTUS MULTI control unit and 8 functional devices:
- 6 functional handpieces for diagnostics, preparation, ultrasound tooth canal processing and obturation of root canals and dental restoration;
- apex locator for apical constriction localization;
- pump for irrigation

FEATURES AND BENEFITS:

- **Highly flexible system configuration** - the delivery set is formed at a customer's choice
- **Possibility of functionality extension** - by purchasing additional functional devices
- **Ability to operate and support up to 10 functional devices**
- **Stable connection** between ESTUS MULTI control unit and the functional devices by the **radio channel**
- **Automatic detection** of the functional device in use and activation of the appropriate mode on the ESTUS MULTI display
- **ESTUS MULTI 5-inch colour touchscreen display** with userfriendly navigation for all functional devices
- **Absence of interruptions between treatment stages** due to possibility of preparation for the next stage during the current one
- **Unified control and indication algorithm** for all functional handpieces makes operation easy and comfortable
- **Maximal operational convenience** due to the only handpiece control button - Start / Stop ring type. Comfortable for both left- and right-handers
- **Prevention of accidental switch** on due to restriction of working zone (upper 180°) of ring button
- **Easily replaceable powerfull (1600 mAh) standard battery units** always keep the all functional devices in operating condition
- **Work place optimization** solution due to the minimal equipment in use
- The possibility of any functional device to perform either as a part of endodontic system ESTUS or as in **autonomous mode** without ESTUS MULTI control unit

1 DIAGNOSTICS

HANDPIECE FOR ELECTRIC DENTAL PULP TESTING - ESTUS PULP



- Variety of **autoclavable quick-detachable EOD probes**: standard Ø1,2 mm, sharp Ø 0,3 mm, blunt Ø 2,5 mm
- **Reliable fixation in 6 positions of EOD probe** to adjust to various clinical situations
- **9 diagnostic current speed levels** corresponding to the dentist's choice + **Automatic mode**
- **Preliminary diagnosis indication** on the handpiece LED indicators and ESTUS MULTI display based on diagnostics results
- **Long-term operation without recharging the battery** - not less 20 hours of continuous operation.

2 PREPARATION

HANDPIECE-ENDOMOTOR FOR THE ROOT CANALS PREPARATION - ESTUS DRIVE



- **Preparation with the following systems:**
 - all types of NiTi files with continuous rotation;
 - reciprocating NiTi systems with programmable rotating angle (clockwise and counter clockwise);
 - SAF (Self Adjusting File);
 - endodontic burs and brushes of the «GentleBrush File» type.
- **Operation with 3 types of heads:**
 - RT type for rotary NiTi and reciprocal files (speed 200-1200 rpm);
 - SAF type for SAF files (speed 3500-9500 rpm);
 - GF type for endodontic burs and brushes of the «GentleBrush File» type (speed 3000-9000 rpm)

- **Automatic detection of the type of connected head** with automatic adjustment of the endomotor to the selected mode of operation
- **Quick and reliable connection / disconnection** of the heads to/from the endomotor handpiece due to a magnetic lock.
- **Built-in Apex locator** with the measurement correction depending on the irrigant in use for safe root canal preparation
- **5 storable programs** for rotary files
- **Wide library** of all famous NiTi rotary systems
- Rotary **speed** control for all types of file and **torque** for Ni-Ti files
- Selection of direction of Ni-Ti files rotation - direct or reverse
- Programmable rotary angle of reciprocal movement: clockwise and counterclockwise
- **STR (Safety Torque Reverse)** function when the preset torque is achieved
- Function of safe access to apical canal constriction **Apical Slow Down**
- **Indication of current Torque and apex distance** on handpiece LED scale and on ESTUS MULTI display



3 APEXLOCATION

DEVICE FOR ROOT CANAL APICAL CONSTRUCTION LOCALIZATION - ESTUS APEX



- **High stability of measurements in any root canal conditions** (dry, wet, bleeding etc) thanks to the latest multi-frequency technology with digital dynamic filtering of computations that is why it does not require calibration.
- **Increased accuracy at working in wet canal** due to ability to correct measurement depending on irrigation solution: Sodium hypochlorite (NaOCl), Chlorhexidine or EDTA
- **Light weight (20 g) and small size** allow to place the device right in the dentist's working zone (ex., on the patient apron), which means: comfort and safe work, prolongation of signal cables service life, dentist's workplace space saving
- **Well-read bright and contrast OLED display** with wide vision angle (170°) for the high-quality vision of the instrument motion in a canal
- **Function of forming APICAL STOP** provides the file stop and forming the on the set distance to apex to prevent filling material withdrawal into the periodontal tissues
- **The "Mark setting" function**, which allows to mark the canal curvature zones or file stop points during the measurement of the working length for a more predictable canal sealing process.
- **Additional sound control** thanks to 3 volume levels and a changing frequency of the sound signal, which increases as the instrument approaches the apex
- **Duplicate indication of the measurement results** on apex locator OLED display and on a display of the ESTUS MULTI control unit.

4 ULTRASOUND PROCESSING

HANDPIECE FOR THE ROOT CANAL ULTRASOUND PROCESSING - ESTUS SONIC



- **Multifunctionality:**
 - finding and breaking into hidden canals and access enhancement;
 - removing of the calcific dental deposit and ledges;
 - root canals unsealing (removing gutta-percha);
 - extraction of endodontic instruments fragments;
 - removing of the post constructions;
 - condensing of gutta-percha;
 - safe endoactivation of irrigants and ultrasonic treatment of the canal with a unique Ni-Ti tip;
 - apical surgery.
- **Optimum ultrasonic mode** due to automatic recognition of the connected tip, selection of the operating frequency and its stabilization.
- **The ability to rotate the tip** by 360°, facilitating access to different groups of teeth
- **Three levels of ultrasonic power** for different clinical cases.
- **Resonant Frequency Scanning (Modulation) Function** of the of the connected tip for more efficient cleaning of the root canal due to the destruction of the lubricated layer and biofilm

5 OBTURATION

HANDPIECE FOR DOWN PACK PHASE OF OBTURATION - ESTUS PACK



- **DownPack-handpiece ESTUS PACK of a new generation provides:** high quality vertical condensation, cutting of gutta-percha points, heat endoactivation of irrigational solution
- **There are 3 types quick-detachable and autoclavable thermopluggers for different stages of root canal obturation:** obturation of the apical zone, obturation of the upper 2/3 canal, cutting of gutta-percha points
- **Possibility to fix the thermopluggers in 1 of the 6 available positions**
- **Effective condensation of gutta-percha** thanks to vibration function
- **Safe thermopluggers with integrated sensor feedback allows:**
 - to ensure high accuracy of maintaining the set working temperature,
 - to decrease the working temperature in a root canal down to 100°C, which causes:
 - reducing of thermopluggers heating time down to the set working temperature (not > 1,5 sec),
 - prevention of gutta-percha over-heating that worsens its characteristics,
 - prolongation of save canal treatment without risk of periodontal tissues over-heating, - prolongation of thermopluggers service life

HANDPIECE FOR BACK FILL PHASE OF OBTURATION - ESTUS FILL



- **BackFill-handpiece ESTUS FILL - the only syringe type injector** is able to work with cost effective gutta-percha obturators
- **Easy detachable autoclavable heater**
- **Time to prepare device ready for operation doesn't exceed 20 sec**
- **Two modes of heated gutta-percha delivery:**
 - PORTION mode for the one-stage of an apical plug creation,
 - CONTINUOUS mode for filling of middle and upper parts of the root canal
- **Three feed rates** of heated gutta-percha
- **Safe performance** - the heater corpus temperature doesn't exceed 45°C
- **High-quality consumables:** gutta-percha obturators and two size types of Injector needles (N°23G and N°25G)

6 RESTORATION

HANDPIECE FOR SEALING MATERIAL PHOTOACTIVATION - ESTUS LIGHT



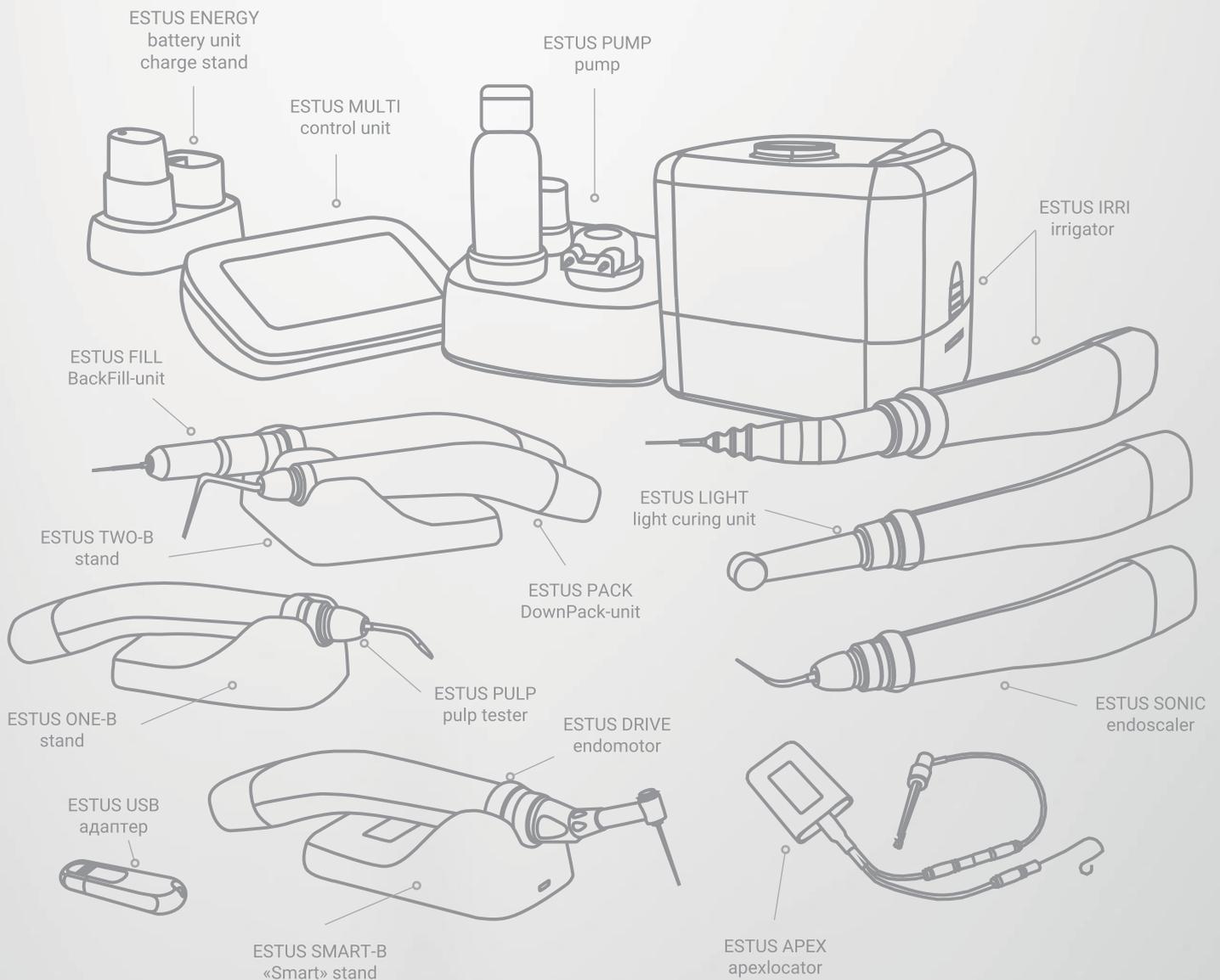
- **Multifunctionality** thanks to 7 types of tips with a different emission spectrum:
 - "BLUE" type tips ("BLUE2500"*, "BLUE POINT", "FULL BLUE") for "normal" and "point" polymerization of composite materials (400-475 nm);
 - "RED660"* tip for photodynamic therapy (650-670 nm);
 - "ORANGE" tip for transillumination (585-595 nm) and
 - "LUMI" tip for luminescent diagnostics (400-420 nm)
- **Automatic detection** of the attached tip type with automatic adjustment of the device to the selected mode of operation
- **Increased output emission of the photoemitter** (up to 2500 mW/cm²).
- **Tip ability to rotate through 360° and flat design**, making access to the chewing group of patient teeth easier

*not included in delivery set

ESTUS

CORDLESS ESTUS DENTAL COMPLEX FOR ALL STAGES OF ENDO TREATMENT

Set of available units at customer's choice



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The firm-manufacturer Quality Management
System is certified on conformity to
International Standard ISO 13485:2016

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