

## ImplantMED Electric Surgical Handpiece System (Project 03-25) (10/04)



The ImplantMED is an electric surgical handpiece system manufactured in Austria by W&H and distributed in the United States by A-dec Corporation. ImplantMED is primarily designed for implantology and consists of a console, micromotor/cord combination, foot pedal, and a variety of straight or contra-angle handpieces. The unit features five factory pre-set programs. Two of the programs are for ancillary surgical procedures and require 1:1 or 1:2.7 speed-increasing handpiece attachments. Three of the programs are for the various stages of implant

treatment and require 20:1 speed-reducing attachments. The front panel display window shows the rpm and torque. The ImplantMED features an integrated irrigation system with pump, which provides external sterile irrigation to the surgical site. Manual irrigation may be used in lieu of this system. The foot control has a motor-switch, pump-switch, program-switch, and forward/reverse-switch. The sealed, brushless micromotor is advertised as providing seven Newton-centimeters of torque in an available speed range of 300 to 40,000 rpm. The ImplantMED, adjustable from 5 to 50 Ncm, is said to be able to provide precise and constant torque for implant procedures.

Only W&H handpiece attachments may be used with the ImplantMED. The following handpiece attachments are available through A-dec: WS-92 E/3 1:2.7 contra-angle, WS-75 E/KM 20:1 contra-angle, and the S-11 1:1 straight surgical and S-9 1:1 and S-12 1:2 angled surgical handpieces. All external and internal components are said to be made of high-quality stainless steel. The contra-angles have push-button chucks and the straight handpieces have single-handed lever chucks. The head on the contra-angle handpieces can be positioned at 90° steps. All handpieces are equipped for external irrigation. The ImplantMED console is 82 x 255 x 270 mm. The motor cable is available in 1.8 m (standard) or 3.5 m lengths, and the unit is available in 115 or 230 V, 50/60 Hz.

### Manufacturer:

A-dec Corporation  
 2601 Crestview Drive  
 Newberg, OR 97132  
 (800) 547-1883  
 (503) 538-7478  
 (503) 538-0276 FAX  
[www.a-dec.com](http://www.a-dec.com)

### Retail & Government Prices:

| Item   | Part #   | Retail Price | Government Price |
|--|----------|--------------|------------------|
| ImplantMED package (console, motor, foot pedal, WS-75 contra-angle, spray oil, cassette) | 00993503 | \$5,460.00   | \$2,821.57       |
| ImplantMED unit (console, motor, foot pedal)   | 00993003 | \$4,235.00   | \$2,188.53       |
| WS - 75 E/KM, 20:1 PB  | 10207500 | \$1,165.00   | \$602.04         |
| WS-92 E/3 1:2.7 PB   | 10209201 | \$1,165.00   | \$602.04         |
| S-12, 1:2 angled lever   | 10101200 | \$1,270.00   | \$656.30         |

|   |          |            |          |
|---|----------|------------|----------|
| S-11, 1:1 straight lever                | 00001100 | \$1,060.00 | \$547.78 |
| S-9, 1:1 slim lever                     | 10100900 | \$1,165.00 | \$602.04 |
| Coolant hose, package of 10             | 00929300 | \$65.00    | \$36.65  |
| Spike assembly                          | 0285540R | \$98.00    | \$55.25  |
| Replacement pump tube with metal collar | 04013900 | \$35.00    | \$24.95  |
| Motor sterile protector                 | 04032600 | \$42.00    | \$20.79  |

**ADVANTAGES:**

- + Easy to set up and operate
- + Choice of straight, angled, or contra-angle handpieces
- + Head of contra-angle can be rotated 90°
- + Quiet operation
- + Integrated external sterile irrigation system easy to use
- + Foot control provides hands-free unit operation
- + Maintenance-free autoclavable motor and cord
- + Convenient sterilization cassette with protective autoclave cap
- + Service ring on motor for designating next service date
- + Autoclavable motor support cradle
- + Competitively priced

**DISADVANTAGES:**

- Duty-cycle (recommended time-of-use parameters) not defined in owner's manual
- Integrated irrigation pump requires proprietary, multiple-component tubing
- Designed primarily for implants; may not be best choice for all-around surgical system

**SUMMARY AND CONCLUSIONS:**

The ImplantMED electric surgical handpiece system is designed primarily for implants but can be used for other ancillary oral surgery procedures. The unit comes with five factory pre-set programs, and front panel adjustment buttons for further adjustment of speed and torque. The maximum rpm and torque selection appear in the display window. A-dec offers a selection of five straight and contra-angle handpiece attachments with both push-button and lever chucks. The unit comes with an integrated sterile irrigation system and pump. The durable foot control has a motor on/off, irrigation pump on/off, program, and forward/reverse switch. Evaluators found the system easy to set up and operate. They appreciated the different handpiece options, especially the surgical contra-angle with 90° rotatable head. There were no reported problems with overheating of handpieces and the evaluators found the handpieces to be very quiet. The integrated irrigation system was generally preferred over hand-irrigation. Evaluators differed in their overall opinions, rating the system from fair to excellent. Some stated they would not purchase it and some stated they would consider purchasing it, but for implant purposes only. For implant treatment, the **ImplantMED** surgical system is rated **Acceptable** for use by the federal dental services.