

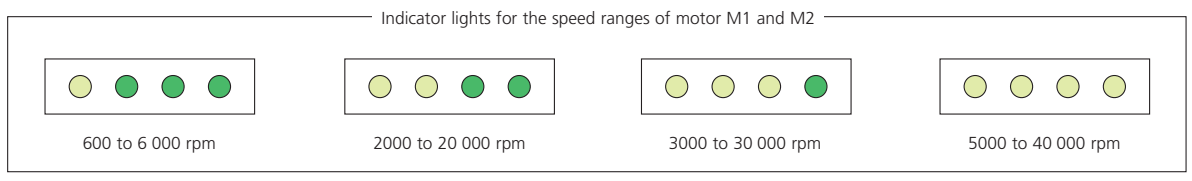
## ORL-E-922 System – where safety and reliability are of prime importance



The system ORL-E-922 comprises a multi-function control with foot activation, one or two BASCH motors and a peristaltic pump started simultaneously with the motor. The majority of the high quality BASCH motor is composed of stainless steel, which is designed to enable sterilisation and multiple autoclaving. Safety and operating convenience of the ORL-E-922 satisfy the requirements of current medical standards.

Some significant features:

- Possibility for using 2 motors alternately in one of the 4 selected speed ranges.
- Safety in the event of motor jamming, supply is cut off after 3 seconds, then the system restarts as soon as the resistance disappears.
- High sensitivity variable speed drive.
- Smooth rotation at low speed without vibration.
- Rotation reversal facility.
- Highly stable foot control.
- System components permit easy disinfecting.
- The control, motor and cable guarantee the electromagnetic safety required by the 93/42/EE and IEC 601-1-2 medical standards and meet standard IEC 60601-1 and directive 93/42 EEC.
- Motor and cable are sterilisable.



## ORL-E-922 surgical drill system - technical characteristics



### Footpedal ORL-E-922

Power input	24 Vac 50 / 60 Hz 5 A max.
Power outputs	2 x 24 Vdc for BASCH motor / 1 x 30 Vdc 0.5 A for peristaltic pump
Insulation class	II, type BF
Protection class	IPx8 waterproof
Dimensions (WxHxL) / Weight	220 x 84 x 257 mm / 4 kg
CE, UL and APG certification	CE for Europe and world or UL for USA APG (adapted for use in presence of a flammable anaesthetic mixture).



### Irrigation Unit PP980

Voltage	Powered by ORL-E-922, 30 Vdc or power supplied by 230, 100 or 115 Vac
Dimensions (WxHxL)	160 x 75 x 200 mm
Flow rate	From 30 to 130 ml/min. Irrigation line with 2 flow rates from 100% to 50% White tube: 100% flow rate from 30 to 130 ml/min Green tube: 50% flow rate from 15 to 65 ml/min



### BASCH motor

REF	Motor 1600076-001 / Cable 1600342-001
Power input	0-24 Vdc 5 A max.
Mechanical power	55 W with ORL-E-922 at 20 000 rpm and 24 Vdc
Rotation speed	600 - 40 000 rpm with ORL-E-922, self-ventilated
Coupling	In accordance with the most common standard in the world, ISO 3964
Dimensions / Weight	Diameter 21 mm, length 100 mm, ISO nose included / 110 g, without cable
Motor cable	Push-pull type at ORL-E-922 end, stainless steel nut at BASCH end / 3 m, colour black
Sterilization	Motor + cable are sterilizable in autoclave



### Transformer

Voltage	Available for European model 230 Vac, US model 115 Vac, Japan model 100 Vac
Safety fuse	by thermal fuse with auto reset proportional to the power grid voltage
Insulation class / Protection class	II, type B / IP 44
Cable length	Primary: 1.8 m / secondary: 4 m
Dimensions (WxHxL) / Weight	130 x 101 x 93 mm / 2.8 kg

### ORL-E-922 sets with 1 BASCH motor

With transformer 230 Vac	REF 1700180-001
With transformer 115 Vac	REF 1700178-001
With transformer 100 Vac	REF 1700176-001

### Assortments ORL-E-922 with 2 BASCH motors

With transformer 230 Vac	REF 1700181-001
With transformer 115 Vac	REF 1700179-001
With transformer 100 Vac	REF 1700177-001

## ORL-E-922 surgical drill system tested and recommended

Prof. U. Fisch  
Zurich



I have been using Bien-Air's instruments for 30 years and during this time I have never found a system more reliable for Otology and Skull Base Surgery. With four handpieces and one single motor I can perform all otological operations from stapedotomy to the most demanding microsurgical interventions on the skull base. We have never experienced any overheating problems relating to the handpieces or motor with the new Bien-Air System.

The footpedal control is ideal and the four speeds offered really fulfill our requirements. I use more and more the direct irrigation System for extensive bone work keeping separate irrigation only when working in a deep, restricted area. I can deeply recommend the Bien-Air's instruments because without them I couldn't do my daily work with the desired precision.



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**ORL-E-922**  
The surgical drill system