

Vante® JADE Thermal Forming System



- The Vante® JADE catheter manufacturing system allows the customer to design the molds and develop the application, production cycle times and throughput.
- Precision thermal profiles and flash-free output are not an absolute requirement with JADE.
- Closed loop temperature control with easy to use touch screen programming and storage/retrieval facilitates conformance to regulatory validation requirements.
- System capacity is defined by a single or multiple cavity mold assembly, modular heater design, product material, application complexity, and process parameters (heat time, delays, cool time).
- Rapid, closed loop temperature controlled profiles are maintained to within $\pm 2\%$ of the full temperature range from 0° to 350°C .
- All application design and development is managed by user unless they have contracted Vante® to do so.
- The JADE system design includes heater modules that accept glass or metal mold sleeves, and accommodate a range of sizes from 3 to 25 French material.
- Materials with melting temperatures under 320°C can be formed with the JADE.
- With JADE, all platforms can be teamed with a variety of tipping, welding, and forming molds for many, including custom, applications.

All application design and development is managed by the user unless they contracted Vante to do so. System design includes heater modules that accept glass or metal mold sleeves to accommodate a range of sizes from 3 to 25 French material. Materials with melting temperatures under 320°C can be formed.

JADE's numerous applications include:

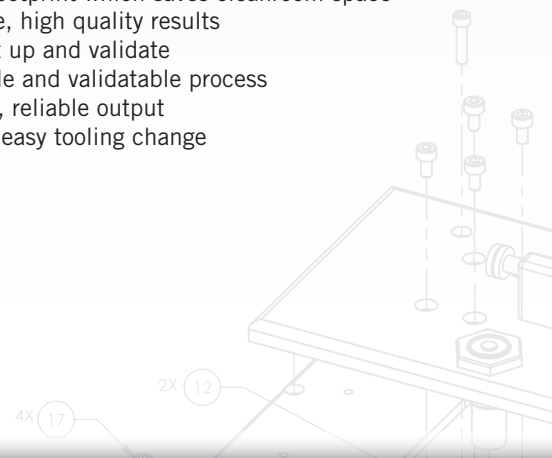
- Taper Tips
- Radius Tips
- Soft Tips
- Closed End Tips
- Neck Downs
- Butt Welds
- Overlap Welds
- Single/Multilumen Applications
- Balloon Tips and Welds
- Dilator Tips
- Flaring

JADE's numerous features include:

- Air cooled/no water chillers
- Closed loop temperature control
- Operator safe so there are no hot spots or pinch points
- Semi-automated
- High force slides
- Easy front panel programming
- Low friction pneumatic air cylinders and slides
- Adjustable heat zone
- Solid-state circuitry
- Temperature repeatable to $\pm 2\%$ of full range
- Multiple program storage
- Multi-level password protection

JADE's numerous benefits include:

- Compact footprint which saves cleanroom space
- Repeatable, high quality results
- Easy to set up and validate
- Quantifiable and validatable process
- Consistent, reliable output
- Quick and easy tooling change



MECHANICAL SPECIFICATIONS

1800

Dimensions (W x L x H)	13.1 x 14.8 x 11.0 in (33.3 x 37.6 x 27.9 cm)
Operating Weight	35 lbs (15.9 kg)
Shipping Weight	38 lbs (17.3 kg)
Maximum Air Supply	100 psi
Number of Slides	Four Slides
Slide Insertion Force	9.3lbs@30psi (standard regulator)
Grip Force	18lbs @90 psi

ELECTRICAL SPECIFICATIONS

Certifications	CE, cTUVus & WEEE
Power Input	115 VAC 50/60 Hz 230 VAC 50/60 Hz
RF Power Output	325 Watts Peak
Radio Frequency Output	6.78 MHz

PERFORMANCE FACTORS

User Interface	touch screen and footswitch
Process Parameters Storage	10
Internal Circuit Protection	yes

OPERATING CONDITIONS

Use	Indoor use only
Temperature	68 - 95°F (20 - 35°C)
Humidity	70% maximum relative humidity Non-Condensing
Over-voltage Category	II
Pollution Degree	2
Altitude	Up to 2000 meters

JADE SERVICE SUITE

Application consultation	included
Precision tooling set fabrication (mold, mandrels and grippers)	additional tooling cost
Design consultation	additional cost
Process parameter development	additional cost