Integra

MULTIZONE HEATER SYSTEM
FOR SELECTIVE LASER SINTERING

Retrofit for LS 2500 - LS 2500 Plus / Vanguard Systems

Current Heater
- Only two zones - inner and outer
- Hand laid heaters results in hot and cold spots
- Results in hot and cold spots in the build
- No way to add heat to particular areas
- mechanical properties vary in build volume

**Jointly developed by
The Boeing Company,
University of Louisville Rapid
Prototyping Center & Integra**

New MultiZone Heater
- Individually controlled zones
- Available for Part and Feed heaters
- 9 Zones: Front/Rear • Left/Right • Center • All Four Corners
- 9 Zone software controlled
- Tunable system to optmize thermal profile in the machine
- Consistant mechanical properties across the part bed
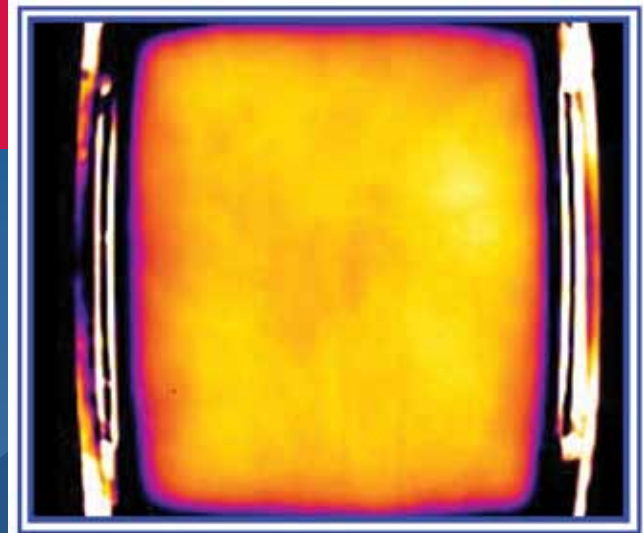- Retrofit for current heater configurations

AVALIABLE EXCLUSIVELY FROM INTEGRA

HEATER LAYOUT VIEWS
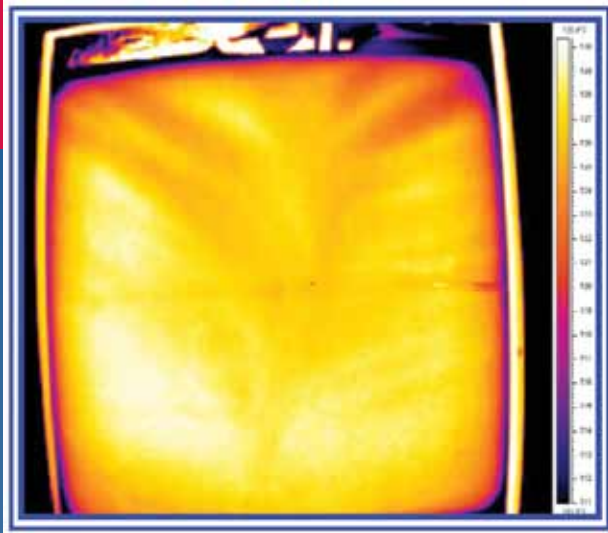
Current Heater IR Profile I/O = 0.7

MultiZone Heater

MultiZone Heater

MultiZone Heater

DURAFORM YZ
12W WITH 5W OUTLINE

	Thickness (In)	Width (n)	Area (ia^2)	Load .2% off Yield 1 (psi)	Stress .2% off Yield 1 (psi)	Load at Max. Load (ibf)	Stress at Max. Load (psi)	% Strain at Auto Break (%)	1K-3K Modulus (Man Young) (psi)
1	0.118	0.491	5.79E-02	199.868	3449.68	410.951	7092.94	20.7874	320655
2	0.117	0.492	5.76E-02	224.612	3901.96	404.656	7029.67	21.2205	297550
3	0.117	0.493	5.77E-02	195.662	3392.14	402.183	6972.54	20.0984	331198
4	0.117	0.492	5.76E-02	226.403	3933.06	406.679	7064.82	22.9724	306466
Mean	0.011725	0.492	5.77E-02	211.636	3669.21	406.117	7039.99	21.2697	313967
Standard Deviation	5.00-04	8.16E-04	1.76E-04	16.1266	287.953	3.70992	51.8843	1.22559	14915.4