

Greetings from El Paso, Texas



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REVOLUTIONARY CHANGES IN DENTISTRY

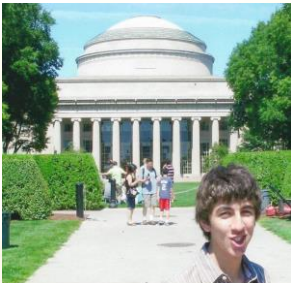


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PRESSURE THERMOFORMING MACHINES

Alex Gonzalez, DDS, FAGD
July 14, 2016



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Outdated
Vacuum
Machine

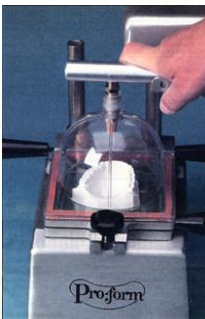
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Office Pressure Forming Machines



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Newer Models



Druformat Scan
Dentsply Raintree Essix

Biostar Scan
Great Lakes Orthodontics



Erkopress 300 Tp
Glidewell Direct

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Vacuum vs. Pressure



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Vacuum Machines

- Inefficient
- Material is pulled over model
- Inconsistent heat and time
- Pressure achieved about 15psi(1bar)
- Cannot laminate predictably
- Inexpensive



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Pressure Machines

- Require air source
- Material is pushed over model
- Stable heat source/consistent time
- Work at higher pressures, 60-90psi(4-6bar)
- Ability to laminate
- Expensive



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Pressure Machines Advantages

- Versatility
- Precision
- Stability
- Quality
- Consistency
- Simplicity
- Intimacy of fit



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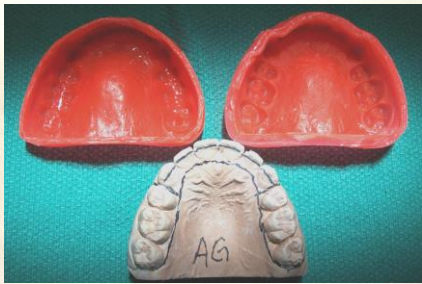


Utilization of Machines

- Fabrication of athletic mouthguards, occlusal splints, bleaching trays, temporary crown and bridge stents, orthodontic appliances, fluoride trays, periodontal splints, impression trays, Essix appliances, surgical and implant guides, denture bases and repairs.



Vacuum vs. Pressure



Vacuum vs. Pressure



Vacuum

Pressure



Vacuum vs. Pressure



Vacuum



Pressure

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Cost Comparison

- Temporary Splint Material
(Henry Schein \$0.50/sheet)
- Bleaching Tray Material
(Erkoflex Bleach \$1.00/sheet)
- Surgical Stent Material
(Erkodur 1mm or 1.5mm \$3.00/sheet)
- Occlusal Splint Material
(Erkoloc-pro 4mm \$5.00/sheet)
- Mouthguard Material
(Erkoflex 4mm \$6.00/sheet)

Bite Splints & Retainers	
4 working days in lab	
Comfort H3® Bite Splint (weekend)	\$59
Colored splint (choose from blue, pink or green)	\$64
Comfort Bite Splint (week)	\$45
Thermoflex acrylic buildup/Ball clasp/Wire mesh/Strad	\$15
Semi-flexible nightguard	\$40
Soft nightguard or bleaching tray	\$30
QCM Clear-Wire retainer or Hawley retainer	\$99
Essix® retainer (one tooth)	\$70
Clear ortho retainer	\$48
Standard lingual retainer	\$35
Asthon CLEARaligner® or day guard (flexible hard bite splint)	\$62
Asthon COOLaligner® or day guard (flexible hard bite splint) (available in colors)	\$67
Processed acrylic bite splint (hard) (available in colors)	\$77
Gelb appliance (includes two full clasps)	\$137

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Pressure Machine Uses



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Athletic Mouthguards



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Temporary Crown & Bridge Templates



Tooth #18



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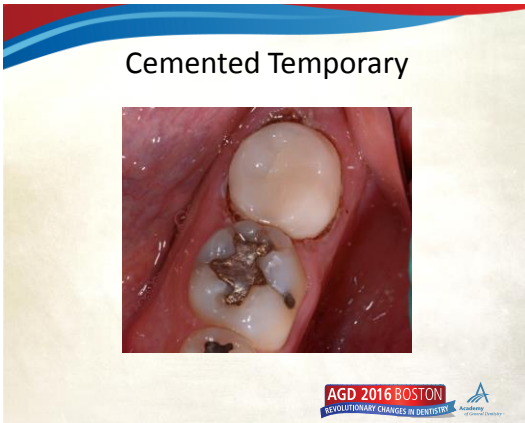




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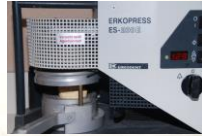
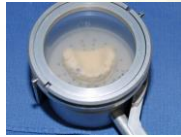








Occlusal Splints



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Bleaching Trays



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Surgical Stents



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Other Uses



Orthodontic
Retainers



Denture Repairs



Denture Bases

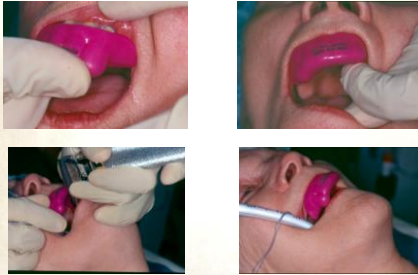
Essix Appliances



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General Anesthesia



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Rewarding



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Thank You!

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