



## Thermoplastic Resins

Advanced Materials for Removable Appliances

### iFlex™

*polyolefin thermoplastic*

**Ideal for technicians new to flexible partials**

- Clinically unbreakable
- Easy to finish and polish
- Stain-free
- High translucency



25mm: 450°F (232°C) | 13 min



Available in 5 translucent shades: Light Pink | Standard Pink | Light/Dark Pink | Dark Pink | Natural (clasps)

### Unbreakable™

*nylon thermoplastic*

**Millions of cases prescribed – proven success**

- Ideal degree of flexibility
- Lightweight and durable
- Unbeatable strength
- Guaranteed unbreakable



25mm: 550°F (288°C) | 11 min



Available in 5 translucent shades: Light Pink | Standard Pink | Light/Dark Pink | Dark Pink | Natural (clasps)

### Karadent™

*semi-rigid microcrystalline polymer*

**Ideal for full dentures, clear clasps, framework, partial dentures & nightguards**

- No volume shrinkage – exceptional fit
- Minimal water absorption
- Quick and easy to finish and polish
- Easy to repair, rebase, and relin with acrylic



25mm: 540°F (282°C) | 14–16 min



Available in Standard Pink | Clear

Email [abraham@tcsdentalinc.com](mailto:abraham@tcsdentalinc.com) for the suggested time and temperature for your injection unit.  
*Times and temperatures in this flyer are specifically for the TCS Manual and Hydraulic injection units.*

# TCS Injection Units for Every Size Lab



## AUTOMATIC AIR INJECTOR

*all in one*

- Built-in furnace
- Injects with a touch of a button
- Self-purging system
- Easy clean up and maintenance
- Compact table top design
- 1 year warranty
- Made in the USA

### Specifications

Yields approx. 30 cases per day  
Width 8" | Height: 23" | Depth 13.5" | 40 lbs | 18 kg  
Requires a minimum of 140 psi  
Use with 25 mm cartridges  
Available in 110V & 220V  
Kits available for Unbreakable™, iFlex™, & Karadent™

### Specifications

Yields approx. 30-120 cases per day  
Width 22" | Height 22" | Depth 17" | 42 lbs | 19 kg  
Use with TCS Digital Furnace (fits 25mm cartridges)  
Kits available for Unbreakable™, iFlex™, & Karadent™

## MANUAL INJECTOR

*most economical*

- Easy maintenance
- Longevity
- Economical
- **Used in conjunction with the TCS Digital Furnace or similar furnace**
- 2 year warranty
- Made in the USA



## HYDRAULIC INJECTOR

*no air connections necessary*

- Equal pressure with every injection
- Minimal maintenance
- No need for air connections
- **Used in conjunction with the TCS Digital Furnace or similar furnace**
- 2 year warranty
- Made in the USA



### Specifications

Yields approx. 30-120 cases per day  
Width 11" | Height: 22" | Depth 6.5" | 50 lbs | 23 kg  
Use with TCS Digital Furnace (fits 25mm cartridges)  
Available in 110V & 220V  
Kits available for Unbreakable™, iFlex™, & Karadent™

## JP90 HANDHELD INJECTOR

*saves time and money*

### Specifications

Yields approx. 30-120 cases per day  
1.3 lbs | 0.6 kg  
Use with JP Bullets and JP Flask  
Use with TCS Digital Furnace  
Kits available for Unbreakable™, iFlex™, & Karadent™  
Patent pending

- Injects: **Clasps, 1 -3 tooth unilaterals, up to 5 consecutive tooth partial/saddle, saddles for combination cases, and repairs.**
- Lightweight, compact, minimal maintenance
- Starter kits include 2 waxed cases for practice
- JP Bullets (cartridges) available in all shades of Unbreakable™, iFlex™, & Karadent™
- **External Furnace (TCS Digital Furnace shown)**
- 1 year warranty
- Made in the USA



## DIGITAL FURNACE

- Simple and practical
- Melts thermoplastic material
- Used in conjunction with: melting cylinder with handle, knock out kits, bronze plugs
- 2 year warranty
- Made in the USA

### Specifications

Width 5" | Height 7.5" | Depth 5.5" | 5 lbs | 2.3 kg  
Fits 25mm cartridges  
Available in 110V & 220V