From Concept to Supply, We Have You Covered!

We integrate electronic controls for a variety of industries and applications while providing cost effective solutions. Raffel Systems has a dynamic development team who can assist you with concepts, prototyping, manufacturing and supply.

**CONCEPT**
- Develop new product concepts and combine them with the latest technology
- Design, sales, and customers team collaboration to bring ideas to reality

**MANUFACTURING**
- Cad design & programming submissions
- Arrange tooling & production
- Import product to our US warehouse

**PROTOTYPE**
- On-site rapid prototyping
- Furniture OEM/Industrial/Consumer design and electrical engineering
- Reverse engineering

**SUPPLY**
- Warehouse facility with JIT shipping
- Ship directly from our facilities throughout the world

Raffel History

For over 40 years, Raffel Systems and its predecessors have been leaders in developing innovative electronic controls for the seating, bedding, and industrial marketplaces.

We have partnered with the world’s most successful manufacturers to develop comfort systems, motion technology and control devices for a variety of applications.

Our talented engineer staff has designed innovative electronic systems for numerous industrial and commercial applications, including furniture, bedding, ventilation systems, pump controls, activation systems, and door controls.

We put this expertise to work with a wide range of cost-effective product development and manufacturing services that make your vision a reality.
Raffel Systems *Tranquil Ease* line offers numerous options that incorporate massage, heat and air systems into seating and bedding products. Vibration massage, heating options and air bladder designs are available in various configurations and price levels.

**BUTTON HAND CONTROLS WITH MASSAGE AND HEAT**
- Sleek new design
- Variable Intensity - High / Low / Off
- Three massage modes including: wave, steady, and pulse
- Heat control - High / Low / Off
- Twenty minute automatic timer
- Multi-colored LED’s
- User friendly operation
- Short lead times
- Designed and engineered in the USA
- United States based parts and technical support

**TOUCH SENSOR CONTROLS WITH MASSAGE & HEAT**
- Solid state, no moving parts
- Latest in Capacitive Touch Technology, simply touch to operate
- Variable massage intensity and speed control
- Three massage modes
- Automatic timer
- Sleek attractive design
- Designed, engineered and patented in the USA
- United States based parts and technical support

**LUMBAR SYSTEMS ULTIMATE COMFORT TO FURNITURE**
- Air bladder system with headrest or lumbar support
- Inflate and deflate controls
- BackCycler® system—patented continuous passive motion specifically for back care, invented by an orthopedic doctor
- The original patented lighted cup holder
- Power recline and/or head rest control
- Solid state touch sensor controls
- On/off light control for inner Illumination
- Back-lit, contoured keys enable location in dark environments
- Simple installation and user friendly
- USB Charging unit
- Safe, low-voltage, and thermal protected
- Designed, engineered and patented in the USA
- United States based parts and technical support
Raffel Systems has decades of technical experience in the development and manufacturing of lift and power recline products for the OEM Furniture and Bedding Markets. Our lift controls are available with our patented electronic safety Lock and Unlock features. We are a leader in providing economical and versatile controls which will work for Lift or Power Recline Systems.

**LIFT & POWER RECLINE HAND CONTROLS**

Combine the comfort and convenience at your customers fingertips.

- Patented electronic safety Lock and Unlock features
- Multi-actuator controls
- Automatic timers
- Variable massage intensity and speed control
- Heat control - High / Low / Off
- Multi-colored LED’s
- works with single or dual actuator systems
- Available with built-in USB chargers
- Sleek design
- Designed and engineered in the USA
- United States based parts and technical support

**MOUNTED CONTROLS**

- Available in three mounts: tray, hole, or upholstery
- Single or dual controls
- Touch sensor technology
- Works with single or dual actuator systems
- Variable massage intensity and speed control
- Automatic timers
- USB charging options
- Available in multiple finishes
- Sleek attractive design
- Designed, engineered and patented in the USA
- United States based parts and technical support
Raffel Systems offers convenient power and charging solutions that will help differentiate your furniture line. The USB charging stations are designed to function with most devices, including, but not limited to . . .

Blackberry; Apple Products: iPod, iPod Classic, iPod Nano, iPod Shuffle, iPod Touch, iPhone, iPad; Android Phones; HTC, Samsung, Google, LG, Motorola, Sony, T-Mobile; Tablets: Lenovo, Kindle, Fuhu, Fujistu, Sony, Techno, Google, Asus, Toshiba, Coby, Acer, Leader, ZTE, Kupa, Archos, MSI, Karuma, Blackberry.

**DUAL USB CHARGING AND POWER STRIP**

- Dual USB charging ports
- Dual 120V power outlets
- Ground fault protection AC plug protection
- LED powered light
- Simple installation
- Designed, engineered and patented in the USA
- United States based parts and technical support

**USB CHARGING STATIONS**

- Single and dual USB charging ports
- Pop-up, single and dual versions
- Multiple power options
- Simple installation
- Designed, engineered and patented in the USA
- United States based parts and technical support

**POWER RECLINE WITH USB**

- Power recline and headrest options
- 2.1 Amp USB charging meets iPad charging specs
- Higher charging capacity than competitors resulting in faster charging times by more than one hour
- Stable, steady voltage supply providing more reliability in charging
- Safe, low-voltage, and thermal protected
- Sleek attractive design
- Designed, engineered and patented in the USA
- United States based parts and technical support

Patented; Additional Patents Pending
ACCESSORIES

Accessories for all control systems offered through Raffel Systems. Finalize your systems with the many accessories available.

BATTERY CUP HOLDER AND ACCESSORIES

Increase value by offering your customers the flexibility of multi-use furniture.

Drop in battery cup holders
- drop in diameter 3.5”
- takes two standard AAA batteries

Clear shatterproof removal inserts
- removable insert is dishwasher safe

Black rubber pad fits installed cup holders or insert

Plastic cup holders
- multiple finishes available

POWERED ACCESSORY SYSTEM

- Base unit 12-volt power socket
- 3” or 6” extension piece (optional)
- 12V flexible reading light
- Woodgrain table (use with extension)
- iPad holder (use with extension)
- Wine Glass holder (use with extension)
- USB Adaptor
- User friendly
- United States based parts and technical support

Operates any 12-volt vehicle accessory
ACCESSORIES

Accessories for all control systems offered through Raffel Systems. These high quality accessories are great for home theaters and freestanding recliners. Finalize your systems with the many accessories available.

SPRING LOADED GROMMET SYSTEM

Increase value by offering your customers the flexibility of multi-use furniture. The spring loaded grommet system offers many unique options.

- Base unit spring loaded grommet
- Battery operated touch sensor light
- Woodgrain table
- iPad holder
- Wine Glass holder
- User friendly
- United States based parts and technical support

262-502-1011 | 888-987-1011
N112 W14600 Mequon Road, Germantown, WI 53022

Raffel.com
INTEGRATED CUP HOLDERS

Combining all of your seating and home theatre needs in one control unit. A variety of options exist to stand out above the competition. Customize the cup holder to your specific needs.

Options include: massage, heat, power recline, push button, head rest, touch sensor, finish/color, USB charging, color LED’s, and lumbar.

INTEGRATED CUP HOLDERS

• The original lighted cup holder
• Sealed, seamless control panel
• On/off light control for inner illumination
• Back-lit, contoured keys enable location in dark environments
• Touch sensor technology
• Simple installation
• Safe, low-voltage, and thermal protected
• Designed, engineered and patented in the USA
• United States based parts and technical support

CUSTOMIZABLE

Raffel Systems has unique solutions that will help differentiate your furniture line. Customize the cup holder to your client or your specific needs to set you apart. Options include:

<table>
<thead>
<tr>
<th>MASSAGE/HEAT</th>
<th>HEAD REST</th>
<th>USB CHARGING</th>
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</thead>
<tbody>
<tr>
<td>POWER RECLINE</td>
<td>TOUCH SENSOR</td>
<td>COLOR LED’S</td>
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<tr>
<td>PUSH BUTTON</td>
<td>FINISH/COLOR</td>
<td>LUMBAR</td>
</tr>
</tbody>
</table>

Patented; Additional Patents Pending
COOLING CUP HOLDERS

Combining all of your seating and home theatre needs in one control unit. A variety of options exist to stand out above the competition. Customize the cup holder to your specific needs.

Options include: power recline, head rest, lumbar, massage with variable intensity, automatic timer, touch sensor, USB charging, color LED’s, and on/off light control.

COOLING CUP HOLDERS

- Cooling mechanism to keep drinks chilled with 1-hour timer
- Capacitive Touch Sensor control technology
- Combined control and wire harness to reduce cost
- Touch sensor technology
- Simple installation
- User friendly

- Reliable LEDs lasts many years
- Entire System is low voltage and thermal protected
- Customizable to your specific needs
- Designed, engineered and patented in the USA
- United States based parts and technical support

CUSTOMIZABLE

Raffel Systems has unique solutions that will help differentiate your furniture line. Customize the cooling cup holder to your client or your specific needs to set you apart. Options include:

POWER RECLINE
HEAD REST
LUMBAR

MASSAGE WITH
VARIABLE INTENSITY
AUTOMATIC TIMER

USB CHARGING
COLOR LED’S
ON/OFF LIGHT CONTROL

Patented; Additional Patents Pending
ConTEMPORARY CUP HOLDERS

Combining all of your seating and home theatre needs in one control unit. A variety of options exist to stand out above the competition. Customize the cup holder to your specific needs.

Options include: massage, heat, power recline, head rest, finish/color, USB charging, color LED’s, and lumbar.

CONTEMPORARY CUP HOLDERS

- On/off light control for inner illumination
- Slim low profile design
- Available in a variety of finishes: black, silver, brushed aluminum, stainless steel rims
- Hidden USB charger available on all models
- Simple installation
- Safe, low-voltage, and thermal protected
- Designed, engineered and patented in the USA
- United States based parts and technical support

Patented; Additional Patents Pending
SPECIALTY LIGHTING

Specialty lighting; including dual and single reading lights, light strips and lighted cup holders, from Raffel Systems will help you stand out from the competition. Increase value by offering your customers the flexibility of multi-use furniture.

READING LIGHTS

• Multi-directional lighting
• Reliable LED’s last many years
• Works with multiple lighting control switches
• Low operating temperatures
• Entire system is low voltage
• Simple installation
• Sleek attractive design
• Designed and engineered in the USA
• United States based parts and technical support
RAFFEL INDUSTRIAL CONTROLS can help you with the design and manufacturing of your specific electrical industrial controls. We partner with our customer to offer an extensive range of electronic solutions including:

- hardware and software design
- prototyping, including 3D rapid prototyping
- circuit verification
- electronic testing
- production

Our on-site laboratory aids our engineering staff to provide all services in-house which streamlines the design to production time and money.

WE’LL GO TO GREAT LENGTHS FOR YOU

Raffel Industrial Controls engineers will also assist in evaluating your project and guide you toward the best 3D printing option. By producing detailed 3D parts, we can help our customers accomplish their ultimate design goals.

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Raffel.com
RAFFEL’S COMFORT EASE line of personal health, wellness and relaxation products are specifically designed to reduce stress and rejuvenate your life. We invite you to experience the comfort yourself, visit comfort-ease.com.

- **Mobile Heated Massage Cushion**
  Massage away stress in your back and thighs and enjoy heat for penetrating relief to the back. Five massage types include; pulse, tapping, rolling, kneading, and auto program with four intensity levels to choose from. Strap system secures the cushion to most seats. Vehicle adaptor and AC wall adaptor included for portability at home or away.

- **MP3 Massage Mattress with Heat**
  Enjoy your favorite music or book with the universal standard audio input jack for your computer, audiobook devices, MP3, iPod, phone, tablet, portable CD or tape players. Five powerful motors for an adjustable vibration massage with three intensity levels for the upper back, lower back and thighs. Heat for penetrating relief in the lumbar area.

- **Sleep Massager**
  Relax and revive with the ComfortEase Sleep Massager. Instantly turn any size mattress or cushioned furniture into a soothing massage. Portable design ideal for home, hotel, sleeper truck or RV. Variable massage control includes 3 massage types; wave, steady, or pulse.

- **Mobile Heated Blanket**
  Relax and revive with the ComfortEase Sleep Massager. Instantly turn any size mattress or cushioned furniture into a soothing massage. Portable design ideal for home, hotel, sleeper truck or RV. Variable massage control includes 3 massage types; wave, steady, or pulse.
RAFFEL’S COMFORT EASE line of personal health, wellness and relaxation products are specifically designed to reduce stress and rejuvenate your life. We invite you to experience the comfort yourself, visit comfort-ease.com.

Bolster Heated Pet Bed
Provide cozy comfort for your pet with this heated, pressure sensor controlled pet bed. Use for indoor/outdoor use or in the vehicle (not recommended for wet areas)
- Easy to remove washable cover and orthopedic foam core
- Water Repellant cover over heating unit for extended durability and safety
- High/Low/Off Heat control switch
- Pressure sensor controlled. Operable only when the pet is lying or sitting on the cushion.
- Veterinarian recommended therapeutic heat regulated between 80 and 100 degrees
- 12V vehicle adaptor and AC wall adaptor included
- Steel wrapped cord for pet’s safety
  SMALL: 31" x 20" x 4"
  MEDIUM: 34" x 24" x 4"
  LARGE: 38" x 33" x 4"

Power Strip with dual USB charging station with groundfault protection
You can now charge your mobile devices from an all inclusive multi-functional power strip. This unit can be installed into a piece of furniture, bedding or can work independently. Dual USB charging station and dual 120V power outlets. Ground fault plug protection. LED light indicates USB charging station has power and is ready to charge. Dimensions for the housing insertion: 3.75"H x 1.75"W x 2.5"D. Dimensions for the face plate, 5"H x 2.125"W.

Switching Power Supply 29V DC for Power Recline & Lift
Switching Power Supply. Output Rating: 2000 mA 29VDC, for Power Recline & Lift