

# Turnkey Extraction Facilities and Engineering

**maratek**  
Automate | Optimize | Scale

## Turnkey Extraction Facilities

From Biomass to Oil



200-100,000+  
Pounds/Day



From Biomass  
to Oil



Closed Loop  
Turnkey Solution



Fully Automated  
Operation



Class I Div I Certified

[maratek.com](http://maratek.com)

est. 1967

# Turnkey Extraction and Technology Integration



Automate | Optimize | Scale

**Founded in 1967, our history as a company comes from the solvent processing and recycling industries. We have worked with pharmaceutical, food, aerospace, paint/printing, cabinetry applications and more.** In these 50+ years, we have handled many different applications and developed unique solutions as a result. We are highly experienced in providing solutions that are Class 1 Division 1 (C1D1) explosion proof and safety certified, GMP compliant, UL/CSA listed, CE marked, and have features such as data logging, CIP, and completely integrated remotely accessible PLC control systems.

**Our manufacturing facility and team of in house engineering puts us at the forefront of design, implementation, integration, and service.** With the rise of solvents in the Cannabis & Hemp industry we have seen an increased demand for our technologies and engineering experience. We first developed our Oil and Ethanol Recovery Systems (OERS) specifically for the cannabis industry to automate the 3-step process of bulk recovery, residual recovery, and decarboxylation within one system. As we grew with our clients we continued to develop other solutions based on their needs.

As an industry leader, we provide fully designed, safe, engineered and optimized turnkey facilities in an automated closed loop process from biomass to a full spectrum decarboxylated oil. We pride ourselves in our ability to offer high efficiency, low labor, turnkey facilities with both production and up time guarantees.

**Our turnkey extraction facilities are designed to utilize either warm or cryogenic ethanol extraction in both single and multiple wash configurations. Additionally, we can provide turnkey solutions for CO<sub>2</sub> extraction including automatic in-line winterization through our TAWS technologies (Turnkey Automated Winterization Systems).**

**Do you have  
existing equipment  
or technologies?**

Our integration team will develop a customized solution to ensure your existing equipment works seamlessly with Maratek systems.

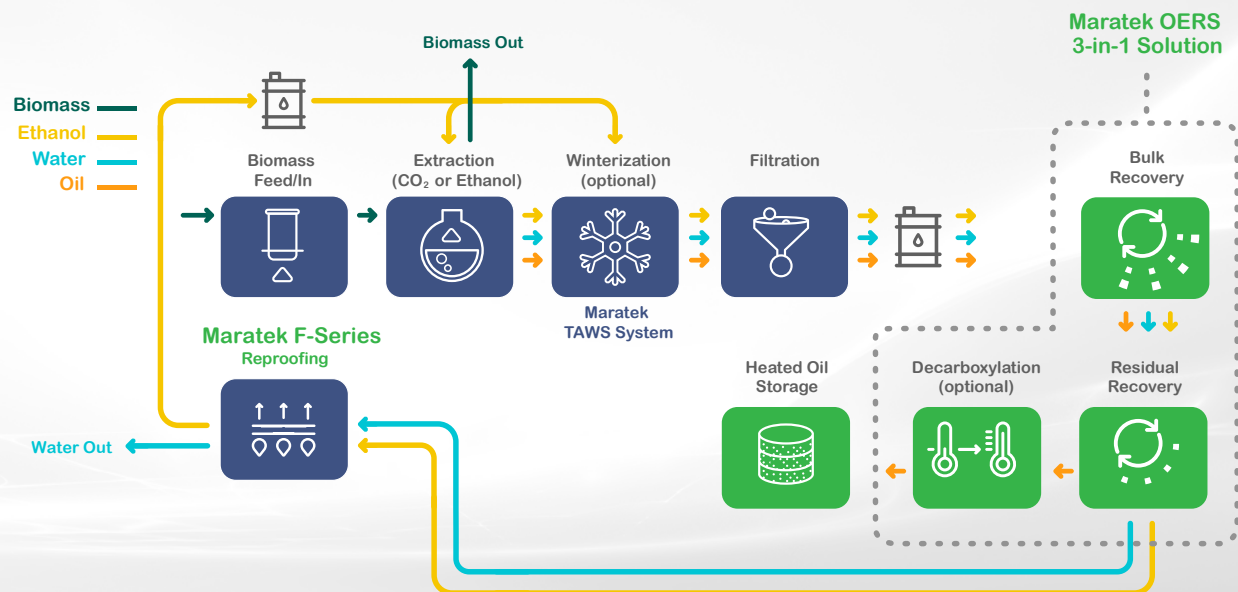
## PRODUCTION GUARANTEE

We offer production throughput guarantees based on your stream parameters and stand behind these values with a money back guarantee.



## Key Features

- Allen Bradley and Siemens PLC Controls
- Secure remote access
- Individual PLC security logins operator, manager, owner
- C1D1 & C1D2 compliance
- 304/316 stainless steel
- 99+% ethanol recovery
- Automate the entire process from biomass to oil
- Integrate systems for closed loop operation
- Implement Clean in Place (CIP) systems
- Data logging
- Programmable recipes
- Lower labor costs
- Minimize ethanol loss during extraction
- Provide filtration below 1 micron
- Inline ethanol reproofing for higher extraction yields
- GMP designs available



## Plant Engineering Consulting and Services

- Plant engineering, layouts & design services
- Project management
- Safety consulting
- Utility optimization & energy reduction
- Custom equipment engineering
- Automated sample collection
- Data logging
- Research & development agreements and engineering contracts
- Intellectual property agreements & sharing

### UPTIME GUARANTEE

Our uptime guarantees utilize our secure remote troubleshooting technology and the ability to dispatch a technician within 24 hours if your equipment needs on-site service. A variety of service & spare parts packages are available to suit your specific needs.





# About Maratek

Maratek is an award-winning industry leader in the solvent recycling and cannabis & hemp oil production industries. We strive for the highest safety and quality standards with all our equipment designated as Class 1 Division 1 certified, and UL listed using only **North American stainless steel, parts and labor.**

For over 50 years, Maratek has been engineering & manufacturing environmentally-friendly, high quality products that recycle solvents for the printing, coatings, automotive, aerospace, food, and paint industries.

Maratek can also provide world-class engineering services to integrate systems and provide closed loop cannabis/hemp oil production processes.

## The Maratek Family of Cannabis Equipment and Services

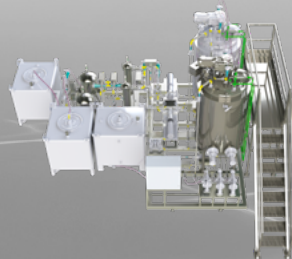
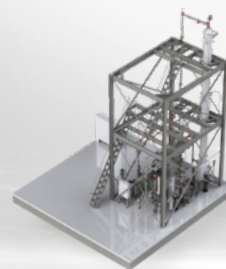
Oil and Ethanol Recovery Systems - SC-Series



Oil and Ethanol Recovery Systems - C-Series



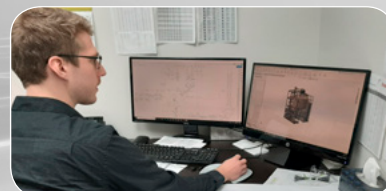
Fractional Distillation and Dewatering Systems - F-Series



Turnkey Automatic Winterization Systems - TAWS



Turnkey Extraction Facilities



Engineering Services

### Contact

References available upon request with installation in facilities across the US, Canada and globally. Contact us now for a quote.

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