



CRYOMASS
TECHNOLOGIES

Revolutionizing Refinement of Cannabis
& High Value Crops

AUGUST 2023

Disclaimer

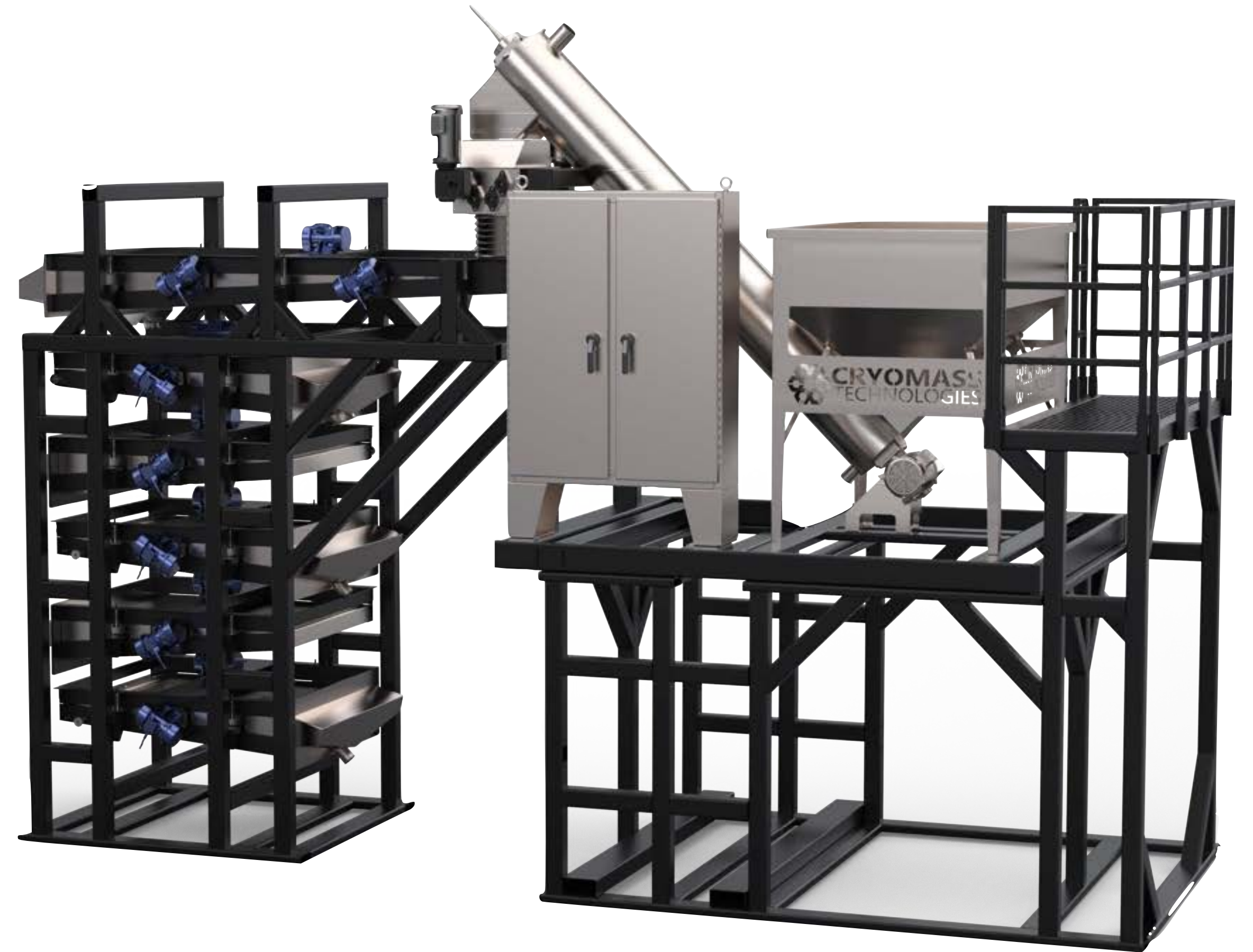
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objectives, potential synergies, industry trends and growth opportunities. Often but not always, forward-looking information can be identified by the use of words such as “anticipate”, “believe”, “expect”, “project”, “estimate”, “likely”, “intend”, “should”, “could”, “may”, “might”, “target”, “plan” and other similar expressions or variations (including negative variations) of such words and phrases. Forward-looking information contained in this Presentation is based on certain assumptions regarding expected growth, results of operations, performance, industry trends and growth opportunities. While management considers these assumptions to be reasonable, based on information available, they may prove to be incorrect. Forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Cryomass Technologies Inc. to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These risks, uncertainties and other factors include, but are not limited to risks associated with general economic conditions; adverse industry events; marketing costs; loss of markets; future legislative and regulatory developments involving medical marijuana; inability to access sufficient capital from internal and external sources, and/or inability to access sufficient capital on favourable terms; the medical marijuana industry in Canada generally, income tax and regulatory matters; the ability of Cryomass Technologies Inc. to implement its business strategies; competition; crop failure; currency and interest rate fluctuations, and the other risks. The foregoing factors are not intended to be exhaustive. Although Cryomass Technologies Inc. has attempted to identify

Refinement Done More Efficiently

- CryoMass Technologies Inc. develops and licenses cutting-edge equipment and processes to refine harvested cannabis, hemp, and other premium crops.
- The company's patented technology harnesses liquid nitrogen to reduce biomass and then efficiently isolate, collect and preserve delicate resin glands (trichomes) containing prized compounds like cannabinoids and terpenes.



Maximizing Returns for Cultivators and Processors of Premium Botanicals

- Building on this technology, CryoMass has engineered its premier Trichome Separation unit (CryoSift Separator™), optimized via patented cryogenic processes to rapidly capture intact, high-value cannabis and hemp trichomes (CryoSift™).
- Much like sugar and flour refinements, the resulting CryoSift™ concentrate is a superior product compared to unprocessed biomass.
- For cultivators, reducing biomass into CryoSift™ slashes volume up to 80%, dramatically lowering storage, handling, and transportation costs. Properly stored, CryoSift™ prevents potency and terpene degradation, preserving value.
- For processors, the minimized input volume also enables considerable cost savings and logistics advantages. Extracting from CryoSift™ using solvents and manufacturing solventless products unlocks industrial scale yields unattainable otherwise.
- CryoMass anticipates its efficiencies will catalyze industry-wide shifts in cannabis and hemp post-harvest methods. Additionally, the technology shows promise for diverse trichome-rich plants.



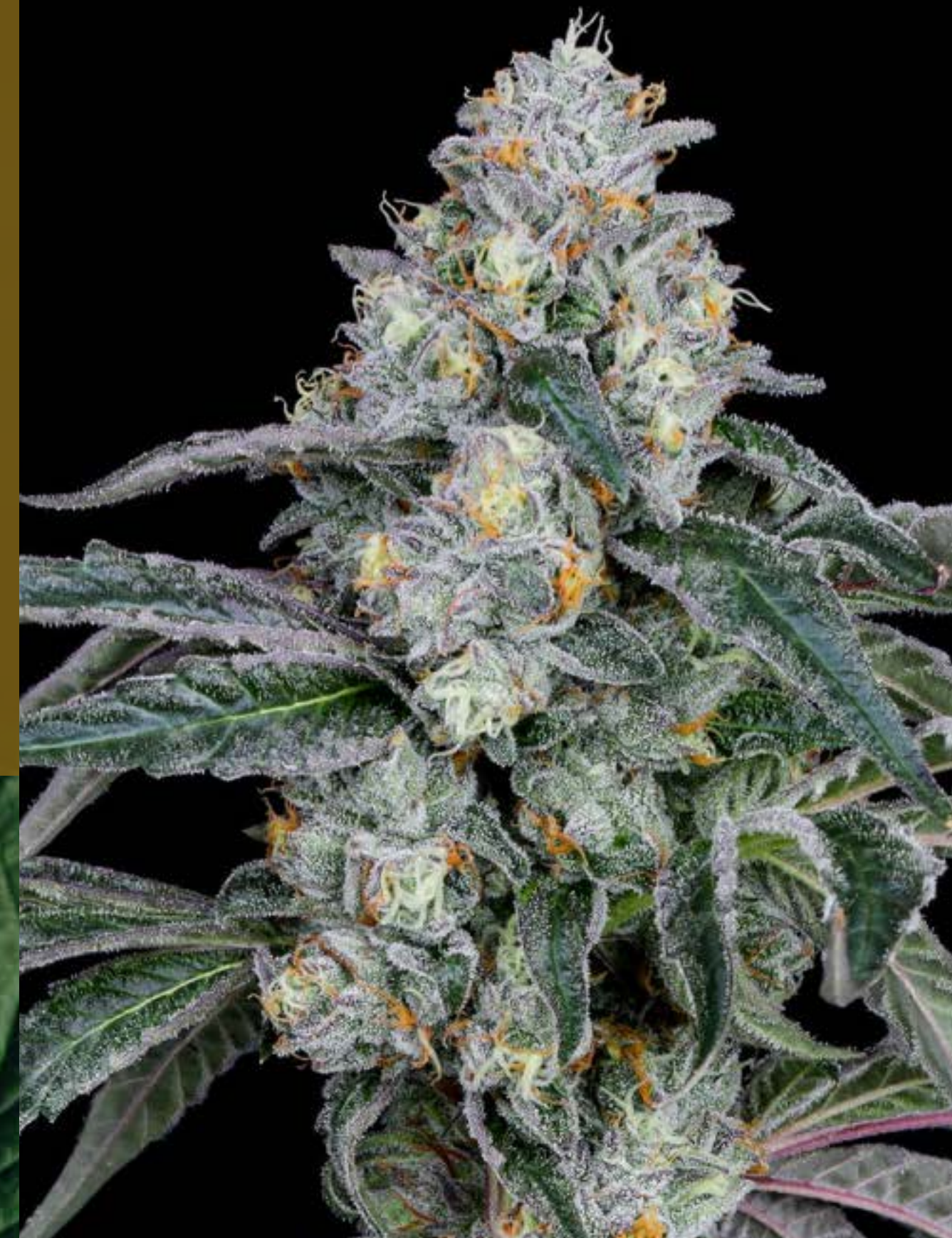
Hemp & Marijuana Are The Same Plant: *Cannabis sativa*

All forms of cannabis, including marijuana and hemp, belong to a single species - *cannabis sativa*.

HEMP

A term often used in policy to describe any cannabis variety with less than 0.3% THC.

Traditionally bred for CBD, fiber and seed



MARIJUANA

A vernacular term typically used to describe cannabis with higher levels of THC (over 10%).

Traditionally bred for cannabinoids – most notably THC



1. FLOWER

Often called buds, cannabis flowers vary in appearance depending on their sex and genetic traits. The colours range widely with the most common being green, orange, red and purple. The female flower, having the highest concentration of trichomes, is the part of the plant that is consumed to experience the effects attributed to cannabis.

2. TRICHOMES

Cannabis trichomes contain, in varying quantities, several cannabinoid compounds, predominantly tetrahydrocannabinol (THC) and cannabidiol (CBD). Trichomes appear as tiny crystals all over the plant. They are bigger and denser on the flowers than on the leaves.

3. LEAF

The symbol of the cannabis and something of an icon, the leaf is easily recognizable by its fan shape, pronounced venation and serrated leaflets. Leaf colour can range from pale green to dark olive green.

TERPENES

Different strains of cannabis have different sets of terpenes, which are comparable to essential oils. It is mainly the terpenes that give cannabis plants their particular aromas and flavours.



1



2



3



Importance Of Trichomes

Glandular trichomes are small resin glands found mostly on the surface of female flowers. These chemical factories produce hundreds of compounds including cannabinoids and terpenes. Cannabinoids, including THC and CBD, are responsible for the medicinal and sometimes psychoactive effects of cannabis.

Terpenes (and terpenoids) are largely responsible for the characteristic smell of cannabis as well as contributing to the medicinal effects. Cannabinoids and terpenes are found almost exclusively within the glandular trichomes and nowhere else on the plant. Not only are these compounds very sensitive to environmental factors such as oxygen, heat and light, the trichomes housing these compounds are very delicate and will readily fracture or detach when subjected to physical agitation.



Traditional Harvesting & Processing Methods Incur Enormous Loss Of Trichomes

Conventional processing methods haven't changed much since the 1960s, when the industry operated illegally out of someone's backyard. **The methods waste a third or more of the plant's most desired elements – the trichomes.**

The trouble starts with the **fragility of trichomes**. They break off easily and are lost forever in the same way a Christmas tree loses its needles when handled and then are gone forever. With conventional handling and drying, every step shakes off more of them. **All in all, roughly one-third of the trichomes are lost.**

When the plant is handled and trucked to a drying facility, the loss of trichomes accelerates. Then – midway through drying – the flower becomes extremely brittle and trichome loss becomes exponential, like the needles of a Christmas tree being forced through the front door at the end of the holiday season.

By that point, the plant still needs to be handled and transported to the extraction facility. The biggest challenge in any plant processing is to capture all the valuable elements that are wrapped up inside the plant at the moment of harvest.

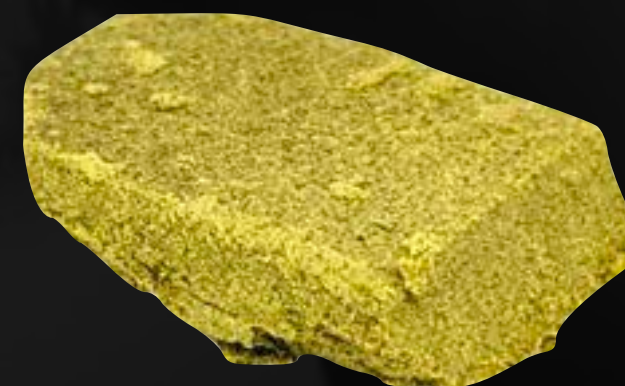
There really was no way to accomplish this...until now.



What Have Trichomes Been Traditionally Used For?

Hashish, also known as hash, is a cannabis concentrate product composed of compressed or purified preparations of stalked resin glands, called trichomes.

Hash has a long history of usage in countries such as Morocco, Afghanistan, India, Iran, Israel, and Lebanon. The sticky resins glands of the fresh flowering female cannabis plant are collected. Traditionally this was, and still is, done in remote locations by pressing or rubbing the flowering plant between two hands and then forming the sticky resins into a small ball of hashish called charas. This method produces the highest amount of cannabinoids (THC content up to 60%) without chemical solvents or distillation.



Mechanical separation methods use physical action to remove the trichomes from the dried plant material, such as sieving through a screen by hand or in motorized tumblers. This technique is known as "drysifting". The resulting powder, referred to as "kief" or "drysift", is compressed with the aid of heat into blocks of hashish.

Ice-water separation is another mechanical method of isolating trichomes.

How Were Trichomes Collected Before CryoMass ?

Traditional trichome separation methods are rudimentary at best.

The cannabis flower is typically placed in a mesh bag, soaked in ice water and then agitated to separate the trichomes.

The careful agitation is done by machine or by hand, using paddles. Trichomes may break away from supporting flower and leaves when plant material becomes brittle at low temperatures. After plant material has been agitated in an icy slush, separated trichomes are often dense enough to sink to the bottom of the ice-water mixture following agitation, while lighter pieces of leaves, stems and other plant particles tend to float. The water is then left to settle and the trichomes at bottom of the tank are isolated using filtration bags with various-sized screens.



CryoMass vs. Traditional Trichome Separation Systems

When comparing the results of the patented CryoMass system to traditional ice water trichome separation systems, **there is no comparison.**

Based on the processing of **25,000 lbs** of biomass, here is a comparison of our CryoSift Separator™ versus nine leading traditional systems that do not and cannot utilize our patented cryogenic, solventless separation process. **They use ice water instead.**

It is important to note that one of the key reasons the CryoMass system is so much more efficient from a process and cost-saving perspective is that it is, to the best of our knowledge, the only continuous-feed separation system while all others are batch-feed systems.

Although the Company's initial focus is on the cannabis and hemp sector, **there is tremendous potential to generate important revenue streams from processing other high-value, trichome-rich plants** where similar cost savings and end-product improvements can be realized.

* Traditional systems data was gathered from company websites and from conversations with company representatives. This is an average of the 9 leading traditional systems.

■ CRYOMASS
■ TRADITIONAL

Biomass processed/hour (lbs.)

UP TO 700

12x MORE

60

Separation time in days (based on 12-hour days)

3

22x FASTER

66

Expected average trichome yield (lbs.)

8,000

4.5x MORE

1,750

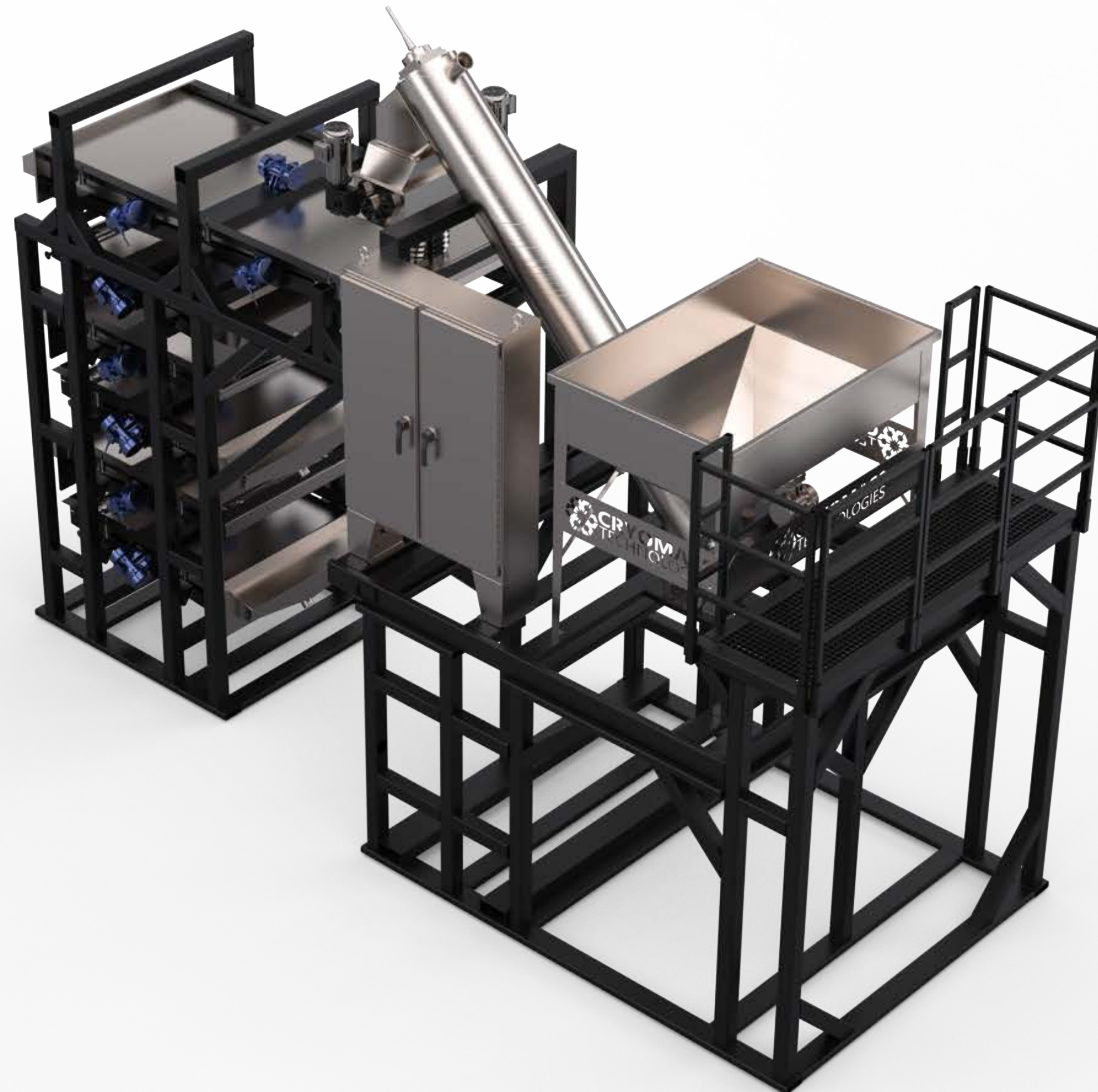
Operating expenses (\$)

5,310

85% SAVINGS

33,533

Bringing Never Before Seen Efficiencies & Options To Cannabis & High Value Plant Operators



ELIMINATE DRYING

Process fresh whole plants straight from the field and reduce days of work & trichome loss.

INDUSTRIAL CAPACITY

Process up to 700 lbs/317,500 grams of fresh biomass per hour per system.

MOBILE OR FIXED UNITS

Our system can be operated at the cultivation site or be permanently installed in a processing facility.

GREEN PROCESS

Minimal energy usage and no organic solvents. Minimal ecological footprint.

OUTPUT

Increase cannabinoid and terpene concentration up to 10x.

BIOMASS VERSATILITY

Process wet or dry, fresh frozen, whole plant, cured flower, trim and everything in between.

VOLUME

Reduce volume of product up to 80% relative to starting material, making storage and transportation less burdensome.

SEPARATION EFFICIENCY

The process efficiently recovers up to 97% of available trichomes from biomass.

We Call The Result Of Our Cryogenic Trichome Separation - CryoSift™

CRYOSIFT™ IS TRICHOMES IN THEIR PUREST FORM

- CryoSift™ can be used for making THC and CBD products for medicinal, wellness and recreational purposes. It can also be used for making CBD products for animals.
- The quality of CryoSift™ is superior to sift obtained with traditional dry and water-based trichome separation methods. Cryogenic separation results in increased cannabinoid yields, higher terpene count for a greater retention of the most desirable compounds.
- Though CryoSift™ can be consumed as is, it is the ideal input for manufacturing superior premium concentrates at scale, without the use of solvents (solventless).
- CryoSift™ can also be used as a high-quality feedstock for traditional solvent-based extraction methods (such ethanol, CO2 or hydrocarbon) to create extracts with different flavor, color and aroma profiles like live resin concentrates.



CRYOSIFT™



THC & CBD

Live Rosin Concentrates & Vapes, Hash, Tinctures, Edibles, Gel Caps, Beverages, Pre-Rolls, Etc.

SOLVENTLESS PRODUCTS



THC & CBD

Live Resin Concentrates & Vapes, Distillate, Tinctures, Edibles, Gel Caps, Beverages, Etc.

SOLVENT BASED PRODUCTS

Compelling Business Model

- CryoMass licenses its patented technology by renting CryoSift Separators™ to partners who provide biomass refinement services to cultivators and processors of premium crops.
- Our licensing model generates recurring revenue by charging partners a percentage of the revenue they generate by converting biomass into CryoSift™, which is further refined into products.
- Recurring royalty as percentage of revenue:
 1. Upfront equipment licensing fee.
 2. Recurring royalty as percentage of revenue.

CryoSift Separator™ Assumed Recurring Royalties per Unit

Year	2024	2025	2026	2027	2028
Pounds of biomass per hour processed by the CryoSift Separator™	500	500	500	500	500
Hours of operation per day	5	6	8	10	12
Days of operation per week	4	4	5	5	6
Week of operation per year	48	48	48	48	48
Royalty per pound paid to CryoMass	\$ 4.00	\$ 4.00	\$ 4.00	\$ 4.00	\$ 4.00
Annual royalty paid to CryoMass by the licensee per unit	\$ 1,920,000	\$ 2,304,000	\$ 3,840,000	\$ 4,800,000	\$ 6,912,000

Disclaimer: ** The theoretical recurring royalties above are based on management conservative estimates and assumptions of future performance and operations under a per-pound fee model that includes a fee of \$8.00 USD per pound charged by the licensee to its customers of which CryoMass is getting 50%. Each licensing contract will be negotiated on a case-by-case basis. Market dynamics can vary greatly due to a multitude of factors and therefore, the actual results, performance or achievements of the Company can be materially different from any future results, performance or achievements expressed or implied by the assumptions above.

CryoSift Separator™ Unit Tentative Deployment Projections

Year	2024	2025	2026	2027	2028
CryoSift Separators™ deployed during the year	6	8	10	12	12
Total CryoSift Separators™ deployed at year end *	8	16	26	38	50

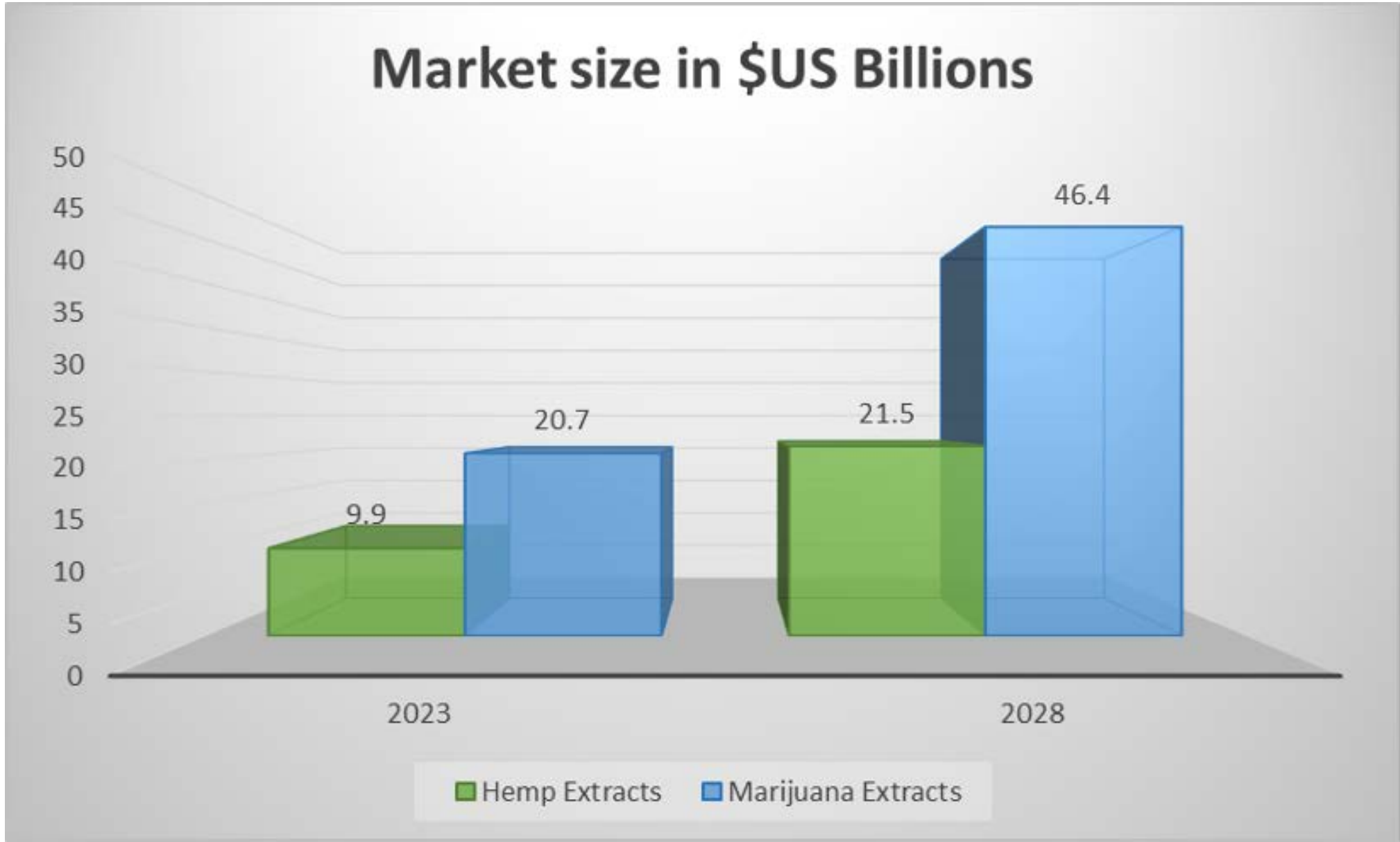
* 2024 Includes 2 CryoSift Separators™ deployed by the end of 2023

CryoSift Separators™ Market Developments for Cannabis & Hemp

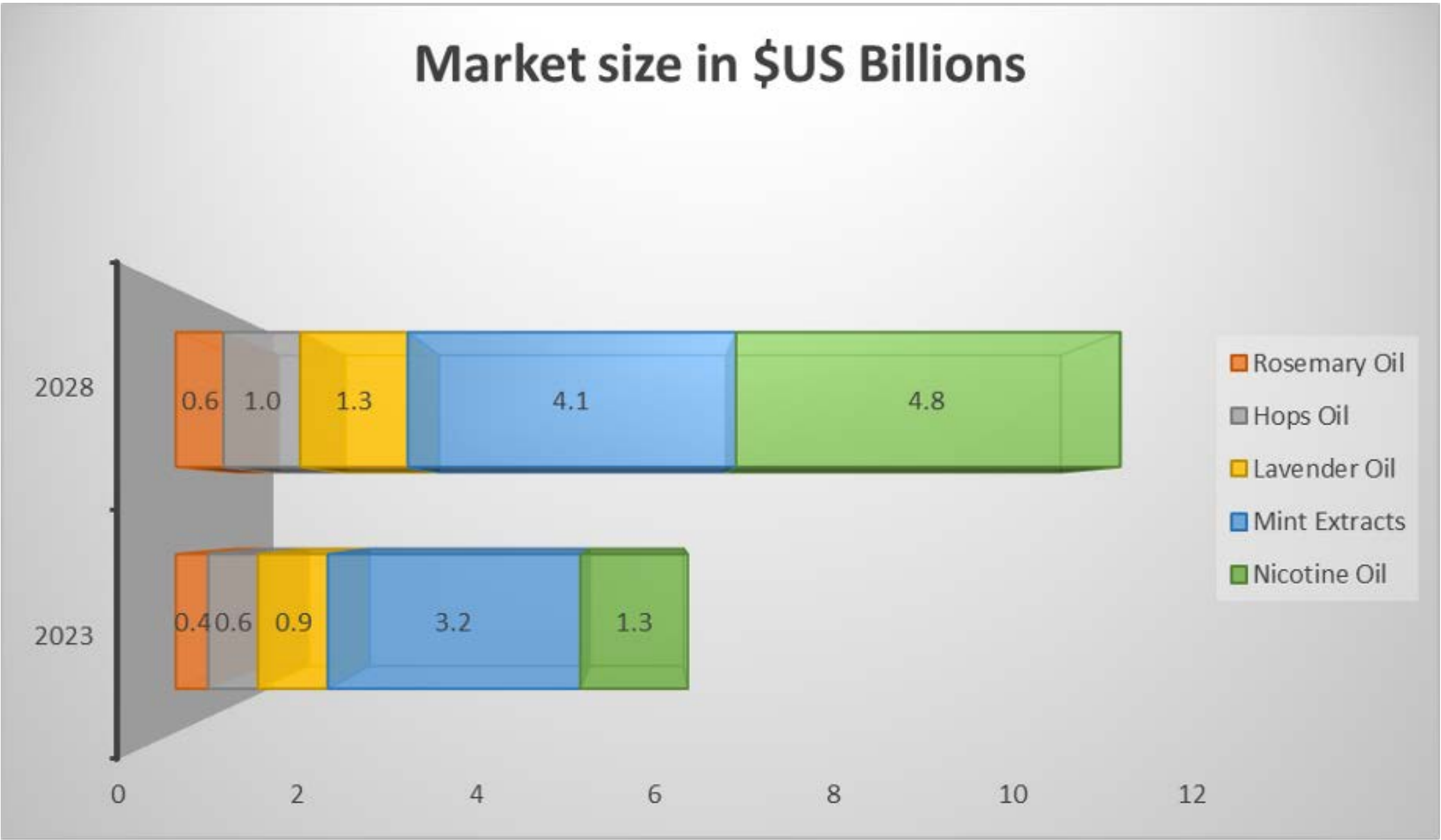
- 🔗 **Leads:** 200+ inquiries received from 10+ countries and 20+ US States.
- 🔗 **Prospects:** 70+ conversations.
- 🔗 **Opportunities:** 25+ active conversations.
- 🔗 **Targets:** 2 short term deployments.
- 🔗 **Operational:** 1 CryoSift Separator™ in (California, USA).

Capitalizing on the Multi-Billion Dollar Botanical Extracts Market

Cannabis - Our First Major Market



Global Botanical Extracts - The Next Big Opportunity



*Used a variety of industry reports, market research publications, company websites, and news articles to provide the market size estimates for the various botanical oils, extracts, and derivatives. Here are some of the main sources referenced:

- For lavender, rosemary, - Grand View Research, Fortune Business Insights, MarketsandMarkets
- For mint oils and extracts - Reports by Mordor Intelligence, UnivDatos, IMARC Group
- For hops extracts and oils - Zion Market Research, Grand View Research, Mordor Intelligence
- For cannabis/hemp extracts - Reports from Prohibition Partners, BDS Analytics, Grand View Research
- For nicotine and tobacco extracts - Transparency Market Research, Fior Markets
- Company financial reports for market leaders like Symrise, Sensient, Givaudan
- Industry trade association sites - SFPA, AHPA, ASA, etc
- Industry publications - Perfumer & Flavorist, Hemp Grower, Marijuana Business Daily
- Market research databases like Statista, IBISWorld

Compiled statistics, estimates, and forecasts from multiple reputable sources for each market to provide a holistic view of the overall market sizes and growth trends.

Initial Market Focus Is North America

CALIFORNIA

1st CryoSift Separator™ at operating partner facility can cover 60% of California cultivation licenses.

Legal Cannabis product sales in California totalled US\$431.3 million in June 2022.

Suggesting an annual run-rate of US\$5.175 billion⁽⁶⁾

Global cannabis product sales will reach US\$35 billion in 2022, and are projected to reach US\$61 billion by 2026 ⁽¹⁾

CANADA CANNABIS

Product sales of US\$4 billion in 2021 projected to be US\$7.6 billion in 2026 ⁽²⁾

2,196 acres of licensed cultivation in 2021 ⁽³⁾

USA CANNABIS

Product sales projected to grow from US\$18.5 billion in 2022 to US\$58.8 billion in 2026 ⁽²⁾

CANADA HEMP

1,269 industrial hemp licenses in 2020 with 54,963 acres of cultivation ⁽⁵⁾

USA HEMP

In 2021, 30,000 acres of hemp were harvested for a total of ~30 million pounds of biomass ⁽⁴⁾

1. <https://bdsa.com/wp-content/uploads/2022/03/Cannabis-Market-Forecast-Spring-2022-Update.pdf>

2. <https://prohibitionpartners.com/2022/08/04/the-north-american-cannabis-report-3rd-edition-key-insights/>

3. <https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/research-data/market/licensed-area.html>

4. <https://www.hempbenchmarks.com/interactive/total-us-hemp-acres-permitted-planted-harvested/>

5. <https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/producing-selling-hemp/about-hemp-canada-hemp-industry/statistics-reports-fact-sheets-hemp.html>

6. <https://www.newcannabisventures.com/june-cannabis-sales-decrease-slightly-from-may-to-1-65-billion/>

<div>Where it Began</div> <div>August 2015</div> <div>The concept of using cryogenic fluid to separate trichomes & produce extracts without solvents was born in California.</div>	<div>Early R&D</div> <div>March 2016</div> <div>First separation of trichomes from biomass using cryogenic fluid was performed in Long Beach, California.</div>	<div>Establishing Patents</div> <div>June 2016</div> <div>Matt Armstrong began writing the cryogenic separation patent with the intent to keep it as broad as possible.</div>	<div>Patent Applications</div> <div>May 2017</div> <div>Official patent applications with the US patent office (USPTO), European patent office (EPO) & many other countries</div>	
<div>Testing 1st Prototype</div> <div>June 2020</div> <div>Began assembling and testing of 1st generation CryoCann prototype.</div>	<div>US Patent Granted</div> <div>December 2020</div> <div>Approval & grant date of initial patent (valid until 2038) by The United States Patent and Trademark Office (USPTO).</div>	<div>Dev 2nd Prototype</div> <div>April 2021</div> <div>Began 2nd generation CryoCann system design with California based manufacturer.</div>	<div>CryoCann Acquired</div> <div>June 2021</div> <div>CryoCann USA assets are acquired by CryoMass Technologies Inc</div>	
<div>China Patent Granted</div> <div>September 2021</div> <div>Granted patent (valid until 2038) from the Chinese Intellectual Property Office.</div>	<div>Further Testing</div> <div>December 2021</div> <div>Began testing of individual components of the 2nd generation prototype.</div>	<div>CAN Patent Granted</div> <div>May 2022</div> <div>CryoMass receives Canadian patent (valid until 2039) and begins real-time trials of a full-scale, user-ready model of its patented cryogenic trichome separation unit.</div>	<div>First Unit Dispatched</div> <div>September 2022</div> <div>Anticipated delivery of our 1st commercial unit at operating partner facility in Monterey, California</div>	<div>First Multi-State License Agreement</div> <div>January 2023</div> <div>CryoMass signed its first Multi-State License Agreement of \$10.2M plus royalties for 12 Trichome Separation systems</div>



Christian Noël
CEO

Seasoned wealth advisor, investor and cannabis industry expert leveraging over 20 years of capital markets expertise to drive growth opportunities.



Blair Mullin
CFO

Decades of CFO leadership spanning high-growth startups to public companies across technology, manufacturing, and emerging industries.



Patricia Kovacevic
General Counsel & Head of External Affairs

Accomplished legal expert and strategist with decades of experience navigating complex regulations for global corporations across multiple industries.



Matt Armstrong
Sr. Director of Innovation

Decorated Marine veteran and technical visionary leading cutting-edge cryogenic innovation in agricultural extraction technology.



Priyesh Sharma
Sr. Director of Engineering and R&D

Engineering leader with 20+ years' experience driving innovation from concept to commercialization across agriculture, energy, aerospace, and other industries.



Aaron Godin
Director of Applied Science

A Master agrologist with a passion for everything driven by science and data.



Mike Stringile
Director of Int'l Sales

Extraction technology expert leveraging 7+ years of oil, gas and cannabis industry experience to drive innovative solutions and sales growth.



Steve Cimini
Director of US Sales

Cannabis industry pioneer and sales leader instrumental in developing revolutionary extraction technologies and achieving tremendous market growth.

Board Of Directors



Dr. Delon Human
Chairman of the Board

Accomplished physician, author and global health strategist advising international organizations, governments and corporations on healthcare access, harm reduction, and product transformation.



Mario Gobbo
Director

Seasoned investment banker and biotech advisor with 35+ years spanning healthcare, life sciences, and energy sectors across emerging and developed markets.



Mark Radke
Director

Preeminent securities lawyer and former SEC Chief of Staff advising financial services institutions on regulatory compliance, governance, and strategic initiatives.



Simon Langelier
Director

Global tobacco executive with 30+ years of leadership spanning new product innovation, international markets, and strategic board governance.

A Game-Changing Opportunity

MARKET

Large & rapidly growing market opportunity for premium botanical extracts of **\$25B** today to more than **\$95B** in 2030.

ECONOMICS

Attractive, high margin recurring revenue model.

UNPARALLELED

Limited competition from inferior refinement methodologies.

TECHNOLOGY

Superior patented technology for premium botanical refinement delivers efficient, high value solution to customers.

IP

Solid IP portfolio - patented core technology.

TEAM

Experienced senior management and Board with deep industry expertise and network.



To Learn More

The common stock of CryoMass Technologies Inc. trades on the OTCQB market under the symbol **CRYM**.

For further information, please contact us using a method below:

investors@cryomass.com

+1 (833) 256-2382

or +1 (303) 222-8092

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WWW.CRYOMASS.COM